Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.5 ironjacamar-core-api 1.0.15.Final
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1.6 procps 3.3.12-3ubuntu1.2
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1.12 icu 57

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
```
## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c

$(COMPILE_c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 

%.o: $(srcdir)/%.c

$(COMPILE_c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp

$(COMPILE_cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp

$(COMPILE_cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c

@echo "generating dependency information for $<"

@$(SHELL) -ec "$^@.o : <F> > $@ ; "

%.d: $(srcdir)/%.cpp

@echo "generating dependency information for $<"

@$(SHELL) -ec "$^@.o : <F> > $@ ; "

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)

$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)

$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use

BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library

BIR_DEPS=

## Remove shared library 's'

STATIC_PREFIX_WHEN_USED =

STATIC_PREFIX =

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ibus-table-chinese - Chinese input tables for ibus
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1.14 libcgroup 0.41-21.el7
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1.20 gstreamer-plugins-good 1.10.4-2.el7
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1.22 yajl 2.0.4-4.el7

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1.24 xorg-x11-drw-wacom 0.36.1-3.el7

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1.33 kerberos 1.15.1-37.el7_7.2

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 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
 lib/krb5/kdb/kdb_log.c
 lib/krb5/kdb/kdb_log.h
 lib/libgss/g_accept_sec_context.c
 lib/libgss/g_acquire_cred.c
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 lib/libgss/g_compare_name.c
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 lib/libgss/g_imp_sec_context.c
 lib/libgss/g_init_sec_context.c
 lib/libgss/g_initialize.c
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 lib/libgss/g_verify.c
```
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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1.36 jetty-jndi 9.4.31.v20200723

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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1.37 libxext 1.3.3-3.el7

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confidential = cp16.getConfigPropertyConfidential(); if (confidential == null) confidential = Boolean.FALSE;
confidential.booleanValue());'

1.71 libgcrypt 1.8.1 4ubuntu1.2

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pycparser -- A C parser in Python

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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
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Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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1.101 jackson-module-jsonschema 2.1.0

1.102 jsf-api 1.2_15-b01-redhat-8

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1.103 jboss-metadata-common 7.0.8.Final-redhat-1

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1.109 adwaita-icon-theme 3.28.0 1.el7

1.110 llvm-private 7.0.1-1.el7

1.110.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right ; register classes.

define void @autogen_SD4739(i8*) {
 ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
 BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
    ; CHECK: ret
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
    ; CHECK-DAG: scvtf.2d v0, v0
    ; CHECK-DAG: scvtf.2d v1, v1
    ; CHECK: ret
    %flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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LLVM Team

University of Illinois at Urbana-Champaign

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This is an installer created using CPack (https://cmake.org). No license provided.

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
cause LSR to assume type "void" for the memory type. This would then
cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [%cgep22, %exit.2], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end: ; preds = %entry
  ret void
}
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

CMake - Cross Platform Makefile Generator
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; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
  ; CHECK-LABEL: TestSelect:
  ; CHECK movaps 16(%rsp), %xmm1
  ; CHECK-NEXT callq __subtf3
  ; CHECK-NEXT testl %ebx, %ebx
  ; CHECK-NEXT jg .LBB0_2
  ; CHECK-NEXT # %bb.1:
  ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
  ; CHECK-NEXT .LBB0_2:
  ; CHECK-NEXT addq $32, %rsp
  ; CHECK-NEXT popq %rbx
  ; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
  ; CHECK-LABEL: TestFabs:
  ; CHECK andps .LCPI1_0(%rip), %xmm0
  ; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
  ; CHECK-LABEL: TestCopysign:
  ; CHECK andps .LCPI2_1(%rip), %xmm0
  ; CHECK-NEXT orps %xmm1, %xmm0
  ; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
  ; CHECK-LABEL: TestFneg:
  ; CHECK movaps %xmm0, %xmm1
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1.113 httpcomponents-httpclient 4.0.3

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1.115 jboss-as-protocol 7.3.0.Final-redhat-14

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1.116 jboss-as-jmx 7.2.0.Final

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1.117 openssl 1.1.1-1ubuntu2.1~18.04.9

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1.118 perl-parent 0.225-244.el7

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=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from
those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell C<parent> not to load any modules by using the C<-norequire> switch:
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that C<require> would not consider an eligible filename (that is, it does not end in either C.<.pm> or C.<.pmc>), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

package Foo;
use parent 'Foo';
=back

=head1 HISTORY

This module was forked from `base` to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

`base`

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

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Based on the idea of `base.pm`, which was introduced with Perl 5.004_04.

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The OASIS Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

- Web Services Security UsernameToken Profile 1.1
- Web Services Security: SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
- Web Services Security Kerberos Token Profile 1.1

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 */

/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 * 
 * @param messageContext the current message context
 * 
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 * 
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
 * ability
 * 
 */

Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 *
 * @return whether the transport represents a confidential connection
 */
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
 */

Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/transport/Transport.java

1.135 osgi-core 4.2.0.redhat-4

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/service/startlevel/StartLevel.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/FrameworkUtil.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-service/condpermadmin/ConditionalPermissionAdmin.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-service/condpermadmin/BundleSignerCondition.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceException.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/condpermadmin/ConditionalPermissionUpdate.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/hooks/service/EventHook.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/launch/Framework.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/hooks/service/ListenerHook.java
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*/
/**
 * Creates a new <code>PackagePermission</code> object.
 *
 * <p>
 * The name is specified as a normal Java package name: a dot-separated
 * string. Wildcards may be used.
 *
 * <pre>
 * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *
 * </pre>
 *
 * Examples:
 *
 * <pre>
 * org.osgi.service.http
 * javax.servlet.*
 * *
 * </pre>
 *
 * For the <code>import</code> action, the name can also be a filter
 * expression. The filter gives access to the following attributes:
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>package.name - The name of the requested package.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 *
 * Package Permissions are granted over all possible versions of a package.
 *
 * A bundle that needs to export a package must have the appropriate
 * <code>PackagePermission</code> for that package; similarly, a bundle that
 * needs to import a package must have the appropriate
 * <code>PackagePermission</code> for that package.
 *
 * Permission is granted for both classes and resources.
 *
 * @param name Package name or filter expression. A filter expression can
only be specified if the specified action is <code>import</code>.
* @param actions <code>exportonly</code>, <code>import</code> (canonical
*        order).
* @throws IllegalArgumentException If the specified name is a filter
*        expression and either the specified action is not
*        <code>import</code> or the filter has an invalid syntax.
*/

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/BundleActivator.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/AdminPermission.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi/core-4-2-0-redhat-4-sources-
jar/org/osgi/framework/Filter.java
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  jar/org.osgi.service/packageadmin/ExportedPackage.java
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 */
/**
 * Specified the persistent storage area used by the framework. The value of
 * this property must be a valid file path in the file system to a
 * directory. If the specified directory does not exist then the framework
 * will create the directory. If the specified path exists but is not a
 * directory or if the framework fails to create the storage directory, then
 * framework initialization must fail. The framework is free to use this
 * directory as it sees fit. This area can not be shared with anything else.
 * <p>
 * If this property is not set, the framework should use a reasonable
 * platform default for the persistent storage area.
 *
 * @since 1.5
 */

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/launch/FrameworkFactory.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/BundleReference.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/framework/BundleListener.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
  jar/org/osgi/service/packageadmin/RequiredBundle.java

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/packageadmin/packageadmin/PackageAdmin.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/service/url/URLConstants.java
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/
Return the certificates for the signers of this bundle and the certificate chains for those signers.

@param signersType If [@link #SIGNERS_ALL] is specified, then information on all signers of this bundle is returned. If [@link #SIGNERS_TRUSTED] is specified, then only information on the signers of this bundle trusted by the framework is returned.
@return The <code>X509Certificate</code>s for the signers of this bundle and the <code>X509Certificate</code> chains for those signers. The keys of the <code>Map</code> are the <code>X509Certificate</code>s of the signers of this bundle. The value for a key is a <code>List</code> containing the <code>X509Certificate</code> chain for the signer. The first item in the <code>List</code> is the signer's <code>X509Certificate</code> which is then followed by the rest of the <code>X509Certificate</code> chain. The returned <code>Map</code> will be empty if there are no signers. The returned <code>Map</code> is the property of the caller who is free to modify it.
@throws IllegalArgumentException If the specified <code>signersType</code> is not [@link #SIGNERS_ALL] or [@link #SIGNERS_TRUSTED].
@since 1.5
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtMember.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/SyntaxException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 * 
 * <h3>The context object</h3>
 * 
 * A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
 * {@link ChannelPipeline} it belongs to via a context object. Using the
 * context object, the {@link ChannelHandler} can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using {link AttributeKey}s) which is specific to the handler.
 * 
 * <h3>State management</h3>
 * 
 * A {@link ChannelHandler} often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
 * <pre>
 * public interface Message {
 *     // your methods here
 * }
 * 
 * public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; { 
 * 
 *     private boolean loggedIn;
 *     <b>}</b>
 * 
 * {@code @Override}
 */
* public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         <b>loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer }&lt;{ @link Channel }&gt; {
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* </pre>
* 
* * <h4>Using { @link AttributeKey }s</h4>
* * Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* * In such a case, you can use { @link AttributeKey }s which is provided by
* * { @link ChannelHandlerContext }:
* * <pre>
* public interface Message {
*     // your methods here
* }
* *
* * { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {
*     private final { @link AttributeKey }&lt;{ @link Boolean }&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth") );
* }
* * { @code @Override }
* public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*     [@link Attribute] typealias attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*         if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [@link ChannelInitializer] &lt;[@link Channel]&gt; { 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*     
*     @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* } 
* </pre>
* </p>
* <h4>The [@code @Sharable] annotation</h4>
* In the example above which used an [@link AttributeKey], you might have noticed the [@code @Sharable] annotation.
* <p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/*">the JCIP annotations</a>.  
*
Additional resources worth reading:

Please refer to the [ChannelHandler](#), and [ChannelPipeline](#) to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/DefaultMaxBytesRecvByteBufAllocator.java

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  jar/io/netty/channel/ChannelException.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/FailedChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/ChannelMetadata.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/bootstrap/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/socket/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/group/CombinedIterator.java
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  jar/io/netty/channel/EventLoopException.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/ExtendedClosedChannelException.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
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@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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This is a Makefile stub which handles the creation of BSD shared libraries.

In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)

install-strip: install

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n-$(LDCONFIG)

install-strip: install
install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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that's the one you should use. If there is some reason why you'd like
a more recent version that is still in ALPHA testing (i.e., either
using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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1.173 vorbis-tools 1.4.0-13.el7

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Segher Boessenkool <segher@xiph.org>
Stan Seibert <volsung@xiph.org>
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<signature of Ty Coon>, 1 April 1989
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1.181 qpdf 5.0.1-3.el7

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[[jboss_developer_contributing_guide]]
= JBoss Developer Contributing Guide

[IMPORTANT]
=====

The most current and up-to-date information about how to contribute a quickstart can be found in the
This document contains information targeted for developers who want to contribute to Red Hat JBoss Enterprise Application Platform developer projects.

* xref:join_the_mailing_list[Join the Mailing list]: Sign up for the JBoss developer mailing list.
* xref:contribute_a_quickstart[Contribute a Quickstart]: Find out how to contribute a quickstart.
* xref:create_a_quickstart_readme_file[Create a Quickstart `README.adoc` File]: Instructions on how to create a well structured and useful `README.adoc` file.
* xref:build_the_quickstart_readme_files[Build the README.html Files]: Build the README HTML file from its AsciiDoc source.
* xref:create_a_quickstart_cheat_sheet[Create a Quickstart Cheat Sheet]: Learn how to create a `cheat sheet` for your quickstart.
* xref:copy_a_quickstart_to_another_repository_and_preserve_its_history[Copy a Quickstart to Another Repository and Preserve Its History]: Copy a quickstart from another location and preserve the commit history.

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---

== Purpose of the Quickstarts

. To demonstrate Java EE technologies.
. To provide developers with working examples and instructions that are easy to follow.
. To provide code examples to be copied by developers and used as the basis for their own projects.

---

== Basic Steps

To contribute to the quickstarts, fork the https://github.com/wildfly/quickstart[WildFly quickstart] repository to your own GitHub, clone your fork, check out a topic branch from the `master` branch, commit your work and push to your own repository, and submit pull requests back to the `master` branch.

If you don't have the GitHub client (`git`), get it from: <http://git-scm.com/>

This document details the steps needed to contribute to the JBoss EAP / WildFly quickstarts. For other Red Hat product quickstarts, you need to replace the GitHub repository URL with the correct repository location.

. Fork the https://github.com/wildfly/quickstart[WildFly quickstart] repository for the appropriate product. This creates the project under your own GitHub ID. The following table lists the quickstart repository URLs and the resulting GitHub URL created by the fork.

+ [Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 1361](https://github.com/wildfly/quickstart/blob/master/CONTRIBUTING.adoc#jboss-developer-contributing-guide_[JBoss Developer Contributing Guide_], which is located in the WildFly quickstart GitHub repository.

== Join the Mailing list

To monitor and participate in the latest development discussions, join the JBoss developer mailing list here: https://lists.jboss.org/mailman/listinfo/jbossdeveloper

== Contribute a Quickstart

---

== Copy a Quickstart to Another Repository and Preserve Its History

---

### Purpose of the Quickstarts

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+
Clone your forked repository. This creates and populates a directory on your local file system, for example `quickstart` with the default remote repository name `origin`.

```
# Clone your forked repository
# This creates and populates a directory on your local file system
# for example `quickstart` with the default remote repository name `origin`.

# Navigate to the newly created directory

# Add the remote `upstream` repository so you can fetch any changes to the original forked repository

# Get the latest files from the `upstream` repository

# Check out a local topic branch to work with your new quickstart, features, changes, or fixes

# IMPORTANT: Always work with the current developer branch of the quickstart repository. The is the branch that automatically displays in the dropdown when you browse to product quickstart directory. The default developer branch for the https://github.com/wildfly/quickstart[WildFly quickstarts] is the `master` branch.
* Fetch the latest source from Git, then check out the latest source code from the development branch of the upstream repository into your own branch using the following syntax.

```
---
 git fetch upstream
 git checkout -b __TOPIC_BRANCH_NAME__ upstream/master
---
```

For example:

```
---
 git fetch upstream
 git checkout -b abc-quickstart upstream/master
---
```

* If you are fixing a Bugzilla or JIRA, it is a good practice to use the number in the branch name. For new quickstarts or other fixes, try to use a good description for the branch name. The following are examples of Git checkout commands:

```
---
 git checkout -b Bz-98765432 upstream/master
 git checkout -b JDF-9876543 upstream/master
 git checkout -b add-xyz-quickstart upstream/master
---
```

. Contribute new code or make changes to existing files. Make sure that you follow the xref:general_guidelines[General Guidelines] below.

. Test your changes in 2 ways. Be sure to fix any checkstyle or build issues before you continue.
* Run the Maven command line to build and deploy the quickstart.
* Import the quickstart into {JBDSProductName} and make sure it builds and deploys with no errors or warnings.

. Use the `git add` command to add new or changed file contents to the staging area.
* If you create a new quickstart, you can add files using the subfolder and file names. The following is an example of new quickstart folders and files you might want to stage:

```
---
 git add src/
 git add pom.xml
 git add README.adoc
---
```

NOTE: It is probably best not to add the entire quickstart root folder because you might unintentionally add classes or other target files that should not be in source control.
* If you only modified a few files, use `git add __FILE_NAME__` for every file you create or change. For example:

```bash
+ git add README.adoc
```

. Use the `git status` command to view the status of the files in the directory and in the staging area and ensure that all modified files are properly staged:

```bash
+ git status
```

. Commit your changes to your local topic branch.

```bash
+ git commit -m 'Description of change...'
```

. Update your branch with any changes made upstream since you started.

* Fetch the latest changes from upstream.

```bash
+ git fetch upstream
```

* Rebase to apply any updates to your branch.

```bash
+ git rebase upstream/master
```

* If anyone has committed changes to files that you have also changed, you might see conflicts. Resolve the conflicted files, add them using `git add`, and continue the rebase:

```bash
+ git add __CONFLICTED_FILE_NAME__
git rebase --continue
```

* If there were conflicts, it is a good idea to test your changes again to make they still work.

. Push your local topic branch to your GitHub forked repository. This creates a branch on your Git fork repository with the same name as your local topic branch name.

```bash
+ git push
```
NOTE: The above command assumes your own remote Git repository is named `origin`. You can verify your forked remote repository name using the command `git remote -v`.

Browse to the __TOPIC_BRANCH_NAME__ branch on your forked Git repository and https://help.github.com/articles/creating-a-pull-request/[create a Pull Request]. Give it a clear title and description.

* The sample project should be formatted using the JBoss EAP profiles found at <http://github.com/jboss/ide-config/tree/master/>

* Code should be well documented with good comments. Please add an author tag (@author) to credit yourself for writing the code.

* You should use readable variable names to make it easy for users to read the code.

* The package must be `org.jboss.quickstarts.<product-type>`, for example: `org.jboss.quickstarts.eap`, `org.jboss.quickstarts.jdg`, `org.jboss.quickstarts.brms`, or `org.jboss.quickstarts.fuse`.

* The quickstart project or folder name should match the quickstart name. Each sample project should have a unique name, allowing easy identification by users and developers.

* The quickstart project or folder name should be located in the root directory of the product quickstarts repository and should not be nested under other quickstarts or folders. For example, if you create quickstart “foo” for the JBoss EAP quickstarts, it should appear here: `__YOUR_PATH__/quickstart/foo`.

* The quickstart directory structure should follow standard Java project rules:

  ** All directories and packages containing Java source files should be placed in a `src/main/java` directory,
  ** All Java source files should use package names.
  ** Index pages, JSF, and HTML files should be placed in a `src/main/webapp` directory.
  ** Any `beans.xml`, `faces-config.xml`, and other related configuration files should be placed in a `src/main/webapp/WEB-INF` directory.
  ** Resources such as images and stylesheets should be placed in the `src/main/webapp/resources` directory.

  * The `<name>` in the quickstart `pom.xml` file should follow the template: `$('qs.name.prefix')__QUICKSTART_NAME__ - __OPTIONAL_SUBFOLDER_NAME__` where:

  ** `$('qs.name.prefix')` is a property defined in the parent POM file that specifies the target product information, for example `JBoss EAP Quickstart:`.
  ** `__QUICKSTART_NAME__` is the quickstart folder name
  ** `__OPTIONAL_SUBFOLDER_NAME__` is the name of any nested subfolder that contains a `pom.xml` file.

The following are a few examples of quickstart pom files and the correct name tags:
<table>
<thead>
<tr>
<th>Quickstart POM File</th>
<th>&lt;name&gt; Element Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>greeter/pom.xml</td>
<td><code>${qs.name.prefix} greeter</code></td>
</tr>
<tr>
<td>kitchensink-ear/pom.xml</td>
<td><code>${qs.name.prefix} kitchensink-ear</code></td>
</tr>
<tr>
<td>kitchensink-ear/ear/pom.xml</td>
<td><code>${qs.name.prefix} kitchensink-ear - ear</code></td>
</tr>
<tr>
<td>kitchensink-ear/ejb/pom.xml</td>
<td><code>${qs.name.prefix} kitchensink-ear - ejb</code></td>
</tr>
<tr>
<td>kitchensink-ear/web/pom.xml</td>
<td><code>${qs.name.prefix} kitchensink-ear - web</code></td>
</tr>
</tbody>
</table>

* The `<artifactId>` in the quickstart `pom.xml` file should match the quickstart name. For example, the `<artifactId>` for the `greeter` quickstart in the EAP project is `greeter`.

* The quickstart parent POM file now includes `<repositories/>` and `<pluginRepositories/>` elements to make it easier for developers to build the quickstarts without requiring additional Maven configuration. The quickstart `pom.xml` file contains entries for the following repositories.

  + [[eap_maven_repositories]]

<table>
<thead>
<tr>
<th>Repository Description</th>
<th>Repository ID and URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>The online JBoss EAP product repository</td>
<td>ID: jboss-enterprise-maven-repository</td>
</tr>
<tr>
<td>URL: <a href="https://maven.repository.redhat.com/ga/">https://maven.repository.redhat.com/ga/</a></td>
<td></td>
</tr>
<tr>
<td>The JBoss developer early access repository</td>
<td>ID: jboss-enterprise-maven-repository-ea</td>
</tr>
<tr>
<td>URL: <a href="https://maven.repository.redhat.com/earlyaccess/all/">https://maven.repository.redhat.com/earlyaccess/all/</a></td>
<td></td>
</tr>
</tbody>
</table>

* If you create a quickstart that uses a database table, make sure the name you use for the table is unique across all quickstarts.

* The project must follow the structure used by existing quickstarts such as the `numberguess` quickstart. A good starting point would be to copy the https://github.com/wildfly/quickstart/tree/11.x/numberguess[`numberguess`] quickstart project.

* You should be able to import the sample project into [JBDSProductName]/JBoss Tools and deploy it from there.

* Maven POM files must be used. No other build system is allowed unless the purpose of the quickstart is to show another build system in use. If using Maven it should:
** Not inherit from another POM except for the top-level parent POM.
** Maven POMs must use the Java EE spec BOM/POM imports
** The POMs must be commented, with a comment each item in the POM
** Import the various BOMs defined in the xref:eap_maven_repositories[JBoss EAP repositories]. You should not declare dependencies directly. If you do need additional artifacts, contact the Quickstart team to get them added to a BOM.
** Use the WildFly Maven Plugin to deploy the example.

* The sample project must contain a `README.adoc` file using the `template/README.adoc` file as a guideline.

** Many common instructions are included in AsciiDoc files located in the `https://github.com/wildfly/quickstart/tree/master/shared-doc[shared-doc/]` folder of the quickstart repository. Include those files if they contain the correct instructions for your quickstart.
** Be aware that some of these AsciiDoc include files require that you define a document attribute to determine how to generate the instructions.
** The `template/README.adoc` file shows the basic table of contents layout.
** When in doubt, try to find an existing quickstart that is similar to yours that you can use for guidance.
** Be sure to xref:build_the_quickstart_readme_files[build the README.html file] from its AsciiDoc source to make sure it renders correctly.

* Do not forget to add your quickstart to the `modules` section in the parent `pom.xml` file.

* The project must target Java EE 7 or Java EE 8.
** CDI should be used as the programming model
** Avoid using a `web.xml` file if possible. Use a `faces-config.xml` to activate JSF if needed.
** Any tests should use Arquillian.

* If the quickstart persists to a database, you must use a unique datasource JNDI name and connection URL for the application and for any Arquillian tests that it provides. Do not use the JNDI name `java:jboss/datasources/ExampleDS`. Failure to use unique names can result in a `DuplicateServiceException` when more than one quickstart is deployed to the same server.

* Be sure to test the quickstart in `{JBDSProductName}`, which strictly enforces Java EE coding rules!

* If possible, create a cheat sheet for the quickstart to guide users and developers through the example. See xref:create_a_quickstart_cheat_sheet[Create a Quickstart Cheat Sheet] for more information.

[|kitchensink_variants|

---

Kitchensink variants

There are multiple quickstarts based on the `kitchensink` quickstarts example. Each showcases different technologies and techniques including pure Java EE, JSF, HTML5, and GWT.

If you wish to contribute a kitchensink variant is it important that you follow the look and feel of the original so that useful comparisons can be made. This does not mean that variants can not expand, and showcase additional functionality. Multiple variants already do that. These include mobile interfaces, push updates, and more.
Below are rules for the *look and feel* of the variants:

* Follow the primary layout, style, and graphics of the original.

* Projects can have three to four lines directly under the JBoss EAP banner in the middle section to describe what makes this variant different. How projects use that space is up to them, but options include use of content such as as plain text, bullet points, and so on.

* Projects can have their logo in the left side of the banner. The sidebar area can contain a section with links to the related projects, for example a wiki or tutorials. This logo should be below any JBoss EAP link areas.

If appropriate for the technology, the application should expose RESTful endpoints following the example of the original `kitchensink` quickstart. This should also include the RESTful links in the member table.

### License Information and Contributor Agreement

JBoss Developer Framework is licensed under the Apache License 2.0, as we believe it is one of the most permissive Open Source license. This allows developers to easily make use of the code samples in JBoss Developer Framework.

There is no need to sign a contributor agreement to contribute to JBoss Developer Framework. You just need to explicitly license any contribution under the AL 2.0. If you add any new files to JBoss Developer Framework, make sure to add the correct header.

The following sections contain the correct header for various file types that you can copy and paste into your source files.

===== Java, Javascript and CSS files

[sOURCE,java,options="nowrap"]

```java
/**
 * JBoss, Home of Professional Open Source
 * Copyright 2018, Red Hat, Inc. and/or its affiliates, and individual contributors by the @authors tag. See the copyright.txt in the distribution for a full listing of individual contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0
 * Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
 */
```

```
=== HTML, XML, XSD and XHTML files

[source,xml,options="nowrap"]

---

<!--
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Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
-->

---

=== Properties files and Bash Scripts

[source,options="nowrap"]

---

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# Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

---

=== SQL files

[source,options="nowrap"]

---

--
= Create a Quickstart README File

The quickstart `README.adoc` file must follow a strict format that is consistent across all of the quickstarts. This not only looks more professional, it also makes it much easier for developers to try out the quickstarts.

A template for creating a `README.adoc` file for a new quickstart is located in the
https://github.com/wildfly/quickstart/tree/master/template[template] folder of the WildFly and JBoss EAP quickstarts. It includes instructions for creating the required metadata as well as the content.
The quickstart `shared-doc` folder contains files with instructions for common procedures that you can include in your project's `README.adoc` file. Some of these procedures can be customized by defining document attributes.

The easiest approach to get started with a new README file is to copy the `README.adoc` file for a quickstart that uses similar instructions, and then edit the file for the new quickstart. Be sure to xref:build_the_quickstart_readme_files[build the README.html file] to verify that the `README.adoc` file is formatted and renders correctly.

[[build_the_quickstart_readme_files]]

== Build the README.html Files

To build the quickstart `README.html` file from the source `README.adoc` file, navigate to the quickstart directory and run the following command.

[source]
----
$ mvn clean generate-resources -Pdocs
----

TIP: You can build _all_ of the quickstart README files by running the above command in the root folder of the quickstarts. This also builds a table in the root README.html file that contains information about and links to each of the available quickstarts.

If you see errors like `Non-resolvable import POM` or `Could not resolve dependencies for project` when you build the `README.html` file, it means the quickstart uses a newly implemented WildFly application server feature and the artifacts have not yet been published to Maven. If that happens, you need to do the following.

. Build the server using the following command.

[source,options="nowrap"]
----
$ mvn clean install -DskipTests -Denforcer.skip=true -Dcheckstyle.skip=true
----

. Build the BOMs using the following command.

[source,options="nowrap"]
----
$ mvn clean install -DskipTests -Denforcer.skip=true -Dcheckstyle.skip=true
----

You should now be able to build the quickstarts.

[[create_a_quickstart_cheat_sheet]]

== Create a Quickstart Cheat Sheet
You can create a cheat sheet using the Eclipse Wizard or you can copy and modify an existing cheat sheet from another quickstart. This section describes how to create a cheat sheet using the Eclipse wizard.

IMPORTANT: Be sure your project folder is located outside of the Eclipse workspace before you begin this process.

. Import your quickstart into `{JBDSProductName}`.
  .. From the menu, choose `File` --> `Import` --> `Maven` --> `Existing Maven Projects`, then click `Next`.
  .. Navigate to your quickstart, select it, then click `OK`.
  .. Click `Finish`.
. Create the cheat sheet.
  .. Select the imported quickstart project.
  .. From the menu, choose `File` --> `New` --> `Other` --> `User Assistance` --> `Cheat Sheet`, then click `Next`.
  .. Select the quickstart folder, give it a name `cheatsheet.xml`, and choose `Simple Cheat Sheet`.
  .. Click `Finish`. When it prompts you to open the cheatsheet for the quickstart project, click `Yes`.
. Populate the cheatsheet with useful information to help a user understand the quickstart.
  .. Expand the `Title` in the content section on the left.
  .. Select the `Title` field and modify it to something useful, for example: `helloworld`.
  .. Select the `intro` field and add introduction text to the `Body`, for example:

```xml
<command
  required="true"
  returns="currentProject"
  serialization="org.jboss.tools.project.examples.cheatsheet.getProjectForCheatsheet"/>
```

This command allows you to use the variable `$(currentProject)` instead of a hard-coded path name and ensures
your cheat sheet will work regardless of the project location.

. Add an `item` for each file or class you want to describe.
* This is dependent on the quickstart features you plan to demonstrate.
* Provide a good description.
* Add subitems to describe code sections and provide the line numbers that are referenced.
. Test your cheat sheet by opening it in JDBS.
. Go through each step and make sure the descriptions are valid.
. Click on each link to make sure it opens the file and highlights the correct lines of code.
. When you finish testing the cheat sheet, rename the file from `.cheatsheet.xml` to `.cheatsheet.xml` and make sure it is located in the root directory of the quickstart.
. Add the `.cheatsheet.xml` file using `git add`, commit the change, push it to your forked repository, and issue a pull request.
. If your cheat sheet is for the quickstart based on an archetype, it automatically generates the cheat sheet for the archetype. However, you must add an `<include>.cheatsheet.*</include>` to the fileset for the root directory in the corresponding archetype's `archetype-metadata.xml` file. See the `jboss-javae6-webapp-archetype` archetype for an example.

[[create_a_quickstart_cheat_sheet_general_guidelines]]

=== Quickstart Cheatsheet General Guidelines

* If your project folder is located in the Eclipse workspace when you generate your cheat sheet using the Eclipse wizard, it will generate an invalid project name and attempts to open source code will fail. Be sure your project folder is located outside the Eclipse workspace before you begin.
* The cheat sheet should be created in the root of the quickstart directory and named `.cheatsheet.xml`. Eclipse does not let you name the file with a leading `.` so you need to rename it after it is created.
* Make sure you add the 'Get current project' command and use the replaceable `${currentProject}` value to avoid hard-coding the project path. This ensures that if the quickstart folder is moved, the cheat sheet will work as expected.
* Do not use the `<action>` tag if it can be avoided. It is more fragile than the `<command>` tag, which uses parameters names instead of indexes.
* Try to highlight the most important features and code for the quickstart. Pay particular attention to areas that might confuse developers. Cheat sheets require that users execute or skip each step, so you don't want to bore developers with the code that has no impact on the purpose of the quickstart.
* Make sure `<xml version="1.0" encoding="UTF-8"?>` is the first line in the `.cheatsheet.xml` file, before the license information. This enables the cheat sheet to open automatically when you import the project into {JBDSProductName}.

[[create_a_quickstart_cheat_sheet_find_help]]

=== Find Quickstart Cheatsheet Help

You can find additional help about cheat sheets at the following locations:

NOTE: The following instructions are based on information in this blog: http://blog.neutrino.es/2012/git-copy-a-file-or-directory-from-another-repository-preserving-history

This example copies the `xyz-quickstart` quickstart that is currently located in the `jboss-sandbox-quickstart` repository into the WildFly `quickstart` repository, preserving its commit history.

1. Navigate to the parent directory of the quickstart you want to copy.

   ```bash
   $ cd ~/jboss-sandbox-quickstarts
   ```

2. Make sure you have downloaded the latest source from the sandbox repository that contains the quickstart and then check out a branch to work in.

   ```bash
   $ git fetch upstream
   $ git checkout -b copy-xyz-quickstart upstream/master
   ```

3. Create a temporary directory to contain the quickstart patch files.

   ```bash
   $ mkdir -p ~/temp/qsPatchFolder
   ```

4. Create a `QS_SOURCE` environment variable that defines the quickstart source path.

   ```bash
   $ export QS_SOURCE=~/jboss-sandbox-quickstarts/xyz-quickstart/
   ```

5. Execute the following command to create the quickstart patch files in the temporary quickstart patch folder.

   ```bash
   $ git format-patch -o ~/temp/qsPatchFolder $(git log $QS_SOURCE|grep ^commit|tail -1|awk '{print $2}')^..HEAD $QS_SOURCE
   ```
. Navigate to parent directory where you want to move the quickstart.

$ cd ~/quickstart

. Fetch the latest source code and check out a branch to work in.

$ git fetch upstream
$ git checkout -b merge-xyz-quickstart upstream/11.x

. Merge the patches into the destination directory.

$ git am ~/temp/qsPatchFolder/*.patch

. Push the changes to your own Git.

* Verify that the target quickstarts directory now contains the `xyz-quickstart` quickstart folder and files.
* Verify that the commit history is included.

. Issue a pull to the upstream repository, verify it is correct, and merge.

No license file was found, but licenses were detected in source scan.

JBoss Developer Contributing Guide
===================================

This document contains information targeted for developers who want to contribute to Red Hat JBoss Enterprise Application Platform developer projects.

* [Join the Mailing list](#join-the-mailing-list): Sign up for the JBoss developer mailing list.
* [Contribute a Quickstart](#contribute-a-quickstart): Find out how to contribute a quickstart.
* [Create a Quickstart Cheat Sheet](#create-a-quickstart-cheat-sheet): See how to create a 'cheat sheet' for your quickstart.
* [Copy a Quickstart to Another Repository and Preserve Its History](#copy-a-quickstart-to-another-repository-and-preserve-its-history): Copy a quickstart from another location and preserve the commit history.
* [Administrative Tasks](#administrative-tasks): Administrative tasks such as keeping the development and product branches synchronized, building the README.html files, and updating JBoss Central and jboss.org.
Join the Mailing list

---------------------

To monitor and participate in the latest development discussions, join the JBoss developer mailing list here:
<https://lists.jboss.org/mailman/listinfo/jbossdeveloper>

Contribute a Quickstart

---------------

### Purpose of the quickstarts

- To demonstrate Java EE 6 and Java EE 7 technologies
- To provide developers with working examples and instructions that are easy to follow.
- To allow examples to be copied by developers and used as the basis for their own projects.

### Basic Steps

To contribute to the quickstarts, fork the quickstart repository to your own Git, clone your fork, checkout code from the latest `-develop` branch, commit your work on topic branches, and submit pull requests back to the latest `-develop` branch.

If you don't have the GitHub client (`git`), get it from: <http://git-scm.com/>

This document details the steps needed to contribute to the JBoss EAP / WildFly quickstarts. For other quickstarts, you need to replace the GitHub repository URL with the correct repository location.

1. Fork the quickstart repository for the appropriate product. This creates the project in your own Git. The following table lists the product quickstart repository URLs and the resulting GitHub URL created by the fork.

<table>
<thead>
<tr>
<th><strong>Product Repository URL</strong></th>
<th><strong>Forked Repository URL</strong></th>
</tr>
</thead>
</table>
2. Clone your forked repository. This creates and populates a directory, for example `quickstart/` on your local file system with the default remote repository name `origin`.
   For example:

   ```
git clone https://github.com/YOUR_USER_NAME/quickstart.git
```

3. Change to the newly created directory, for example

   ```
cd quickstart/
```

4. Add the remote `upstream` repository so you can fetch any changes to the original forked repository.

   ```
git remote add upstream https://github.com/wildfly/quickstart.git
```

5. Get the latest files from the `upstream` repository.

   ```
git fetch upstream
```

6. Create a local topic branch to work with your new quickstart, features, changes, or fixes.

   * _IMPORTANT:_ Always work with the current developer branch of the quickstart repository. This is the branch that automatically displays in the dropdown when you browse to product quickstart directory, for example: `<https://github.com/wildfly/quickstart>`

   * Checkout the latest source code from the current `-develop` branch into your own branch using the following syntax:

     ```
git checkout -b <topic-branch-name> upstream/<current-development-branch>
```

   * If you are fixing a Bugzilla or JIRA, it is a good practice to use the number in the branch name. For new quickstarts or other fixes, try to use a good description for the branch name.

   * The following are examples of Git checkout commands:

     ```
git checkout -b Bz-98765432 upstream/11.x
     git checkout -b JDF-9876543 upstream/11.x
     git checkout -b add-xyz-quickstart upstream/11.x
```

7. Contribute new code or make changes to existing files. Make sure that you follow the [General Guidelines](#general-guidelines) below.

8. To verify if your code followed the General Guidelines you can run [QS Tools](http://jboss-developer.github.io/maven-qstools-plugin/) on your project.
  * To run QS Tools, go to your quickstart project root and execute:

    ```
mvn -U org.jboss.maven.plugins:maven-qstools-plugin:check
```

   This will generate a report on `QUICKSTART_HOME/target/site/qschecker.html`. Review the report to determine if your quickstart project violates any item in the *General Guidelines*.

9. Test your changes in 2 ways.
   * Run the Maven command line to build and deploy the quickstart.
   * Import the quickstart into Red Hat JBoss Developer Studio and make sure it builds and deploys with no errors or warnings.
10. Use the `git add` command to add new or changed file contents to the staging area.
   * If you create a new quickstart, you can add files using the subfolder and file names. The following is an example of new quickstart folders and files you may want to stage:

   ```bash
   git add src/
   git add pom.xml
   git add README.md
   `_Note:_ It is probably best not to add the entire quickstart root folder because you may unintentionally add classes or other target files that should not be in source control.
   * If you only modified a few files, use `git add <filename>` for every file you create or change. For example:

   ```bash
   git add README.md
   `_Note:_ It is probably best not to add the entire quickstart root folder because you may unintentionally add classes or other target files that should not be in source control.
   * If you only modified a few files, use `git add <filename>` for every file you create or change. For example:

   ```bash
   git add README.md
   ```

11. Use the git status command to view the status of the files in the directory and in the staging area and ensure that all modified files are properly staged:

   ```bash
   git status
   ```

12. Commit your changes to your local topic branch.

   ```bash
   git commit -m 'Description of change...'
   ```

13. Update your branch with any changes made upstream since you started.
   * Fetch the latest changes from upstream

   ```bash
   git fetch upstream
   ```
   * Apply those changes to your branch

   ```bash
   git rebase upstream/<current-development-branch>
   ```
   * If anyone has committed changes to files that you have also changed, you may see conflicts. Resolve the conflicted files, add them using `git add`, and continue the rebase:

   ```bash
   git add <conflicted-file-name>
   git rebase --continue
   ```
   * If there were conflicts, it is a good idea to test your changes again to make they still work.

14. Push your local topic branch to your GitHub forked repository. This will create a branch on your Git fork repository with the same name as your local topic branch name.

   ```bash
   git push origin HEAD
   `_Note:_ The above command assumes your remote repository is named 'origin'. You can verify your forked remote repository name using the command `git remote -v`.
   ```

15. Browse to the <topic-branch-name> branch on your forked Git repository and [open a Pull Request](http://help.github.com/send-pull-requests/). Give it a clear title and description.

### General Guidelines

* The sample project should be formatted using the JBoss AS profiles found at <http://github.com/jboss/ide-config/tree/master/>
- Code should be well documented with good comments. Please add an author tag (@author) to credit yourself for writing the code.
- You should use readable variable names to make it easy for users to read the code.

* The package must be `org.jboss.quickstarts.<product-type>`, for example: org.jboss.quickstarts.eap, org.jboss.quickstarts.wfk, org.jboss.quickstarts.jdg, org.jboss.quickstarts.brms, org.jboss.quickstarts.fuse, etc.

* The quickstart project or folder name should match the quickstart name. Each sample project should have a unique name, allowing easy identification by users and developers.

* The quickstart project or folder name should be located in the root directory of the product quickstarts repository and should not be nested under other quickstarts or folders. For example, if you create quickstart "foo" for the JBoss EAP quickstarts, it should appear here: `YOUR_PATH/quickstart/foo`.

* The quickstart directory structure should follow standard Java project rules:

  - All directories and packages containing Java source files should be placed in a `src/main/java/` directory,
  - All Java source files should use package names.
  - Index pages, JSF, and HTML files should be placed in a `src/main/webapp/` directory.
  - Any `beans.xml`, `faces-config.xml`, and other related configuration files should be placed in a `src/main/webapp/WEB-INF/` directory.
  - Resources such as images and stylesheets should be placed in the `src/main/webapp/resources` directory.

* The `<name>` in the quickstart `pom.xml` file should follow the template: `JBoss <target-product> Quickstart: <quickstart-name> < - optional-subfolder-name>` where `target-product` is the `Target Product` metadata specified in the README.md file, `quickstart-name` is the quickstart folder name, and `optional-subfolder-name` is the name of any nested subfolder containing a `pom.xml` file. The following are a few examples of quickstart pom files and the correct name tags:

  - greeter/pom.xml ==> `JBoss EAP Quickstart: greeter`
  - helloworld-errai/pom.xml ==> `JBoss WFK Quickstart: helloworld-errai`
  - kitchensink-ear/pom.xml ==> `JBoss EAP Quickstart: kitchensink-ear`
  - kitchensink-ear/ear/pom.xml ==> `JBoss EAP Quickstart: kitchensink-ear - ear`
  - kitchensink-ear/ejb/pom.xml ==> `JBoss EAP Quickstart: kitchensink-ear - ejb`
  - kitchensink-ear/web/pom.xml ==> `JBoss EAP Quickstart: kitchensink-ear - web`

* The `<artifactId>` in the quickstart `pom.xml` file should follow the template: `jboss-<target-product>-<quickstart-name>`. For example, the `<artifactId>` for the `greeter` quickstart in the EAP project is `jboss-greeter`. The `<artifactId>` for `errors` quickstart in the Fuse project is `jboss-fuse-errors`.

* The quickstart POM files now include `<repositories/>` and `<pluginRepositories/>` elements to make it easier for developers to build the quickstarts without requiring additional Maven configuration. Each quickstart `pom.xml` file contains entries for the following repositories.

<table>
<thead>
<tr>
<th><strong>Repository ID</strong></th>
<th><strong>Repository URL</strong></th>
<th><strong>Repository Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>jboss-enterprise-maven-repository</td>
<td><a href="https://maven.repository.redhat.com/ga/">https://maven.repository.redhat.com/ga/</a></td>
<td>The JBoss EAP product repository</td>
</tr>
</tbody>
</table>
See the `template/pom.xml` file for an example of how to configure the `<repositories/>` and `<pluginRepositories/>` elements in a quickstart `pom.xml` file.

* If you create a quickstart that uses a database table, make sure the name you use for the table is unique across all quickstarts.

* The project must follow the structure used by existing quickstarts such as [numberguess](https://github.com/wildfly/quickstart/tree/11.x/numberguess). A good starting point would be to copy the `numberguess` project.

* The sample project should be importable into JBoss Developer Studio/JBoss Tools and be deployable from there.

* Maven POMs must be used. No other build system is allowed unless the purpose of the quickstart is to show another build system in use. If using Maven it should:

  - Not inherit from another POM (no parent POM)
  - Maven POMs must use the Java EE spec BOM/POM imports
  - The POMs must be commented, with a comment each item in the POM
  - Import the various BOMs, either directly from a project, or from [JBoss BOMs](http://www.jboss.org/developer-materials/#!formats=jbossdeveloper_bom&sys_type=jbossdeveloper_bom), to determine version numbers. You should aim to have no dependencies declared directly. If you do, work with the jdf team to get them added to a BOM.
  - Use the WildFly Maven Plugin to deploy the example

* The sample project must contain a `README.md` file using the `template/README.md` file as a guideline

* Don't forget to update the `pom.xml` in the quickstart root directory. Add your quickstart to the `modules` section.

* The project must target Java EE 7

  - CDI should be used as the programming model
  - Avoid using a web.xml if possible. Use faces-config.xml to activate JSF if needed.
  - Any tests should use Arquillian.

* If the quickstart persists to a database, you must use a unique datasource JNDI name and connection URL for the application and for any Arquillian tests that it provides. Do not use the JNDI name `java:jboss/datasources/ExampleDS`. Failure to use unique names can result in a `DuplicateServiceException` when more than one quickstart is deployed to the same server.

* Be sure to test the quickstart in JBoss Developer Studio, which strictly enforces Java EE coding rules!

* If possible, create a cheat sheet for the quickstart to guide users and developers through the example. See [Create a Quickstart Cheat Sheet](#create-a-quickstart-cheat-sheet) for more information.
### Kitchensink variants

There are multiple quickstarts based on the kitchensink example. Each showcases different technologies and techniques including pure EE6, JSF, HTML5, and GWT.

If you wish to contribute a kitchensink variant is it important that you follow the look and feel of the original so that useful comparisons can be made. This does not mean that variants can not expand, and showcase additional functionality. Multiple variants already do that. These include mobile interfaces, push updates, and more.

Below are rules for the *look and feel* of the variants:

* Follow the primary layout, style, and graphics of the original.

* Projects can have 3-4 lines directly under the JBoss EAP banner in the middle section to describe what makes this variant different.
  * How projects use that space is up to them, but options include plain text, bullet points, etc....

* Projects can have their logo in the left side of the banner.
  * The sidebar area can contain a section with links to the related projects, wiki, tutorials, etc...
    * This should be below any JBoss EAP link areas.

If appropriate for the technology the application should expose RESTful endpoints following the example of the original kitchensink quickstart. This should also include the RESTful links in the member table.

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```java
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 *
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```
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*/

### HTML, XML, XSD and XHTML files

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-->

### Properties files and Bash Scripts

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### SQL files

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Create a Quickstart Cheat Sheet

-------------------

### Purpose of the Cheat Sheets

- Cheat sheets function as a tutorial and provide a step by step guide through a quickstart.
- They provide a way to step through and explain the code in an interactive way.
- They can provide an in-depth analysis of specific sections of code.

### Basic Steps to Create a Cheat Sheet

You can create a cheat sheet using the Eclipse Wizard or you can copy and modify an existing cheat sheet from another quickstart. This section describes how to create a cheat sheet using the Eclipse wizard.

>Note:_ Be sure your project folder is located outside of the Eclipse workspace before you begin this process.
1. Import your quickstart into JBoss Developer Studio (JDBS)
   1. From the menu, choose `File` --> `Import` --> `Maven` --> `Existing Maven Projects`, then click `Next`.
   2. Navigate to your quickstart, select it, then click `OK`.
   3. Click `Finish`.

2. Create the cheat sheet.
   1. Select the imported quickstart project.
   2. From the menu, choose `File` --> `New` --> `Other` --> `User Assistance` --> `Cheat Sheet`, then click `Next`.
   3. Select the quickstart folder, give it a name `cheatsheet.xml`, and choose `Simple Cheat Sheet`.
   4. Click `Finish`. When it prompts you to open the cheatsheet for the quickstart project, click `Yes`.

3. Populate the cheatsheet with useful information to help a user understand the quickstart.
   1. Expand the `Title` in the content section on the left.
   2. Select the `Title` field and modify it to something useful, for example: `helloworld`.
   3. Select the `intro` field and add introduction text to the `Body`, for example: `This quickstart demonstrates the use of CDI 1.0 and Servlet 3.0. It is a simple application that can be used to verify the JBoss EAP server is configured and running correctly.`.
   4. Select `item`, then under `Command`, click `browse` and select `Get current project` under `Uncategorized`.

This adds the following XML to the cheat sheet:

```xml
<command
    required="true"
    returns="currentProject"
    serialization="org.jboss.tools.project.examples.cheatsheet.getProjectForCheatsheet"/>
```

This command allows you to use the variable `$currentProject` instead of a hard-coded path name and ensures your cheat sheet will work regardless of the project location.

5. Add an `item` for each file or class you want to describe.
   * This is dependent on the quickstart features you plan to demonstrate.
   * Provide a good description.
   * Add subitems to describe code sections and provide the line numbers that are referenced.

4. Test your cheat sheet by opening it in JDBS.
   1. Go through each step and make sure the descriptions are valid.
   2. Click on each link to make sure it opens the file and highlights the correct lines of code.

5. When you finish testing the cheat sheet, rename the file from `cheatsheet.xml` to `.cheatsheet.xml` and make sure it is located in the root directory of the quickstart.

6. Add the `.cheatsheet.xml` file using `git add`, commit the change, push it to your forked repository, and issue a pull.

7. If your cheat sheet is for the quickstart based on an archetype, it will automatically generate the cheat sheet for the archetype. However, you must add an `<include>.cheatsheet.</include>` to the fileset for the root directory in the corresponding archetype's `archetype-metadata.xml` file. See the `jboss-javaee6-webapp-archetype` archetype for an example.

### General Guidelines

* If your project folder is located in the Eclipse workspace when you generate your cheat sheet using the Eclipse wizard, it will generate an invalid project name and attempts to open source code will fail. Be sure your project folder is located outside the Eclipse workspace before you begin.
* The cheat sheet should be created in the root of the quickstart directory and named `.cheatsheet.xml`. Eclipse will not let you name the file with a leading `.`., so you will need to rename it after it is created.
* Make sure you add the `Get current project` command and use the replaceable `"${currentProject}"` value to avoid hard-coding the project path. This ensures that if the quickstart folder is moved, the cheat sheet will work as expected.
* Do not use the `"<action>` tag if it can be avoided. It is more fragile than the `"<command>` tag, which uses parameters names instead of indexes.
* Try to highlight the most important features and code for the quickstart. Pay particular attention to areas that might confuse developers. Cheat sheets require that users execute or skip each step, so you don't want to bore developers with the code that has no impact on the purpose of the quickstart.
* Make sure `"<?xml version="1.0" encoding="UTF-8"?>` is the first line in the `.cheatsheet.xml` file, before the license information. This enables the cheat sheet to open automatically when you import the project into JBoss Developer Studio.

### Find Help

You can find additional help about cheat sheets at the following locations:

* [Recommended Work Flow for Cheat Sheet Development](http://www.eclipse.org/pde/pde-ui/articles/cheat_sheet_dev_workflow/)
* [Max's cheat sheet example](https://github.com/maxandersen/cheatsheet-helloworld)

Copy a Quickstart to Another Repository and Preserve Its History

The following instructions are based on information in this blog: <http://blog.neutrino.es/2012/git-copy-a-file-or-directory-from-another-repository-preserving-history/>

1. Navigate to the parent directory of the quickstart you want to move.
   
   cd ~/jboss-sandbox-quickstarts

2. Make sure you have downloaded the latest source, then checkout a branch to work in. For example:
   
   git fetch upstream
   git checkout -b copy-xyz-quickstart upstream/master

2. Create a temporary directory to contain the quickstart patch files.
   
   mkdir -p ~/temp/qsPatchFolder

3. Create a `"QS_SOURCE"` environment variable that defines the quickstart source path.
export QS_SOURCE=~/.jboss-sandbox-quickstarts/xyz-quickstart/

4. Execute the following command to create the quickstart patch files in the temporary quickstart patch folder.

   git format-patch -o ~/temp/qsPatchFolder $(git log $QS_SOURCE|grep "commit"|tail -1|awk '{print $2}')^..HEAD $QS_SOURCE

5. Navigate to quickstarts parent directory where you want to move the quickstart.

   cd ~/quickstart

6. Checkout a branch to work in.

   git fetch upstream
   git checkout -b merge-xyz-quickstart upstream/11.x

7. Merge the patches into the destination directory.

   git am ~/temp/qsPatchFolder/*.patch

8. Push the changes to your own Git.

   * Verify that the target quickstarts directory now contains the `xyz-quickstart` folder and files.
   * Verify that the commit history is included.

9. Issue a pull to the upstream repository.

Administrative Tasks
---------------------

### Create a Product Branch from the Development Branch

During the initial development phase of the product, generally all updates are only done to the current development branch, for example, `11.x`. However, when it is close to time to begin doing product builds, we need to create a new product branch from the development branch to use to build the product quickstarts.

These are the steps to create the new product branch.

1. Update the existing `7.1.x-develop` branch to make sure it is current.
   
   a. Update the `<version>` in the `pom.xml` files to use `7.1.0-SNAPSHOT`.

      `<version>7.1.0-SNAPSHOT</version>`

   c. Change the `7.0` references to `7.1` in the `guide/KitchensinkQuickstart.asciidoc` file.

   d. Commit these changes to the `7.1.x-develop` branch so it is using the correct versions.
2. Create the new product branch from the `7.1.x-develop` branch.

   a. Checkout out a new topic branch from the updated `upstream/7.1.x-develop` branch and name it by removing the `-develop`.

      ```
      git fetch upstream
      git checkout -b 7.1.x upstream/7.1.x-develop
      ```

   b. Edit the `.gitignore` file to remove the `README.html` entry. Use `git add` to add the modified file.

   c. Build the README.html files.

      ```
      dist/release-utils.sh -m
      ```

   d. Add the README.html files to the branch using `git add`.

   e. Commit the changes and push the new branch upstream.

      ```
      git push upstream HEAD:7.1.x
      ```

3. Update the new product branch to use the correct `jboss.spec.javaee.7.0` version and commit and push the changes to `upstream/7.1.x`.

   ```
   Replace: <version.jboss.spec.javaee.7.0>1.0.3.Final</version.jboss.spec.javaee.7.0>
   With:    <version.jboss.spec.javaee.7.0>1.0.3.Final-redhat-4</version.jboss.spec.javaee.7.0>
   ```

### Managing the Development and Product Branches

Once you have created the product branch, you must apply all fixes to both branches. Use the following procedure to update the branches.

1. Check out a topic branch from the current upstream development branch.

   ```
   git fetch upstream
   git checkout -b JBEAP-1234 upstream/11.x
   ```

2. Make the fixes and push the commit to the `7.1.x-develop` branch.

3. Check out a topic branch from the upstream development branch.

   ```
   git fetch upstream
   git checkout -b JBEAP-1234-7.1.x upstream/7.1.x
   ```

4. Find the commit number in the `-devel` branch and cherry-pick the fix to the `7.1.x` branch.

   ```
   git cherry-pick <commit-number>
   ```
5. If the fix affects any `README.md` files, you must rebuild the HTML files by running the following command from the root directory of the quickstarts.

```
dist/release-utils.sh -m
```

Add any changed `README.html` files and add them to the commit.

6. Push the changes to the `7.1.x` branch.

### Set Up Your Environment to Build the README.html Files

The quickstart README.md files are converted to HTML using markdown. We recommend using redcarpet, as that is what GitHub uses, but you can use any markdown tool really.

There are two scripts, `dist/github-flavored-markdown.rb`, that will convert an individual file, and `dist/release-utils.sh -m`, that will convert all the files. This script also builds a table in the root README.html file that lists and describes all of the quickstarts.

To setup the environment you need to follow these steps.

1. These scripts require the following packages. Install them if you do not already have them.

   ```
sudo dnf install ImageMagick
   sudo dnf install ImageMagick-devel
   ```

2. If you have not yet done so, install Ruby Version Manager (RVM).

   * Follow the instructions here to install RVM: https://rvm.io/rvm/install

   * Add the following line to your `~/.bash_profile`:

     ```
source ~/.profile
     ```

   * Add the following lines to your `~/.bashrc` file:

     ```
     export PATH=$PATH:$HOME/.rvm/bin # Add RVM to PATH for scripting
     [[ -s "~/.rvm/scripts/rvm" ]] && source "~/.rvm/scripts/rvm" # Load RVM into a shell session *as a function*
     ```

3. Install Ruby and use the installation.

   * To list the available rubies:

     ```
     rvm list known
     ```

   * To install ruby-2.3.0
rvm install 2.3.0

* Use this version

rvm use 2.3.0

4. Create and use a gemset for the GitHub Markdown

    rvm gemset create githubmarkdown
    rvm gemset use githubmarkdown

5. Install the gems needed for the script

    gem install redcarpet
    gem install nokogiri
    gem install pygments.rb
    gem install fileutils

6. To build the files, be sure to use this version of ruby with this gemset.

    rvm use 2.3.0
    rvm gemset use githubmarkdown

Then run the following command from the root directory of the quickstarts.

    dist/release-utils.sh -m

### Request JBoss Central and jboss.org Update to the Latest Release

The following instructions are based on information: <https://github.com/jboss-developer/www.jboss.org/blob/master/CONTRIBUTING.md#updating-developer-materials-versions/>

1. Be sure to tag the release.

2. Open a JIRA for the Red Hat Developer (RHD) project asking them to update JBoss Central and jboss.org sites to point to the latest tagged release:

    https://issues.jboss.org/secure/RHD/CreateIssue.jspa

Found in path(s):
* /opt/cola/permits/1077223797_1602673082.4/0/jboss-developer-shared-resources-master-zi
  p/jboss-developer-shared-resources-master/guides/CONTRIBUTING.md

1.186 libgnomekbd 3.26.0-3.el7
1.186.1 Available under license:

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[This is the first released version of the library GPL. It is
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* /opt/cola/permits/1077227140_1601875516.12/0/stax2-api-3-1-1-redhat-3-sources-
  jar/org/codehaus/stax2/ri/Typed/CharArrayBase64Decoder.java
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1.201 evolution-data-server 3.28.5-3.el7

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1.203 gnome-packagekit 3.28.0-1.el7

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- Generated with glade 3.20.0 -->
<interface>
  <requires lib="gtk+" version="3.18"/>
  <object class="GtkWindow" id="dialog_eula">
    <property name="can_focus">False</property>
    <property name="border_width">18</property>
    <child>
      <object class="GtkGrid">
        <property name="visible">True</property>
      </object>
    </child>
  </object>
</interface>
```
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
the various releases.

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Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("\"%s\", %d, \"%s\", %#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_filestat, "fstat", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(""%s"","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(""%s"", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s"",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockcall, "munlockcall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_next, "next", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s"",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,""%s"",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openv, "openv", "%s(""%s"", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)\n\n", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s\(\"%s\",%p,%d)\n\n", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s\(\"%s\",\"%s\")\n\n", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)\n\n", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setssockopt, "setssockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)\n\n", NULL, NULL },
\{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_socket, "socket", "\%s(\%d,\%d,\%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_stat, "stat", "\%s(\"%s\",\%p)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_statfs, "statfs", "\%s(\"%s\",\%p)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_symlink, "symlink", "\%s(\"%s\",\"%s\")\", NULL, NULL },
\{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_sysexec, "sysexec", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_create, "thr_create", "\%s(\%#x, \%#x, \%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "\%s(\%#x)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "\%s(\%d, \%#x)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "\%s(\%d, \%d, \%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_new, "thr_new", "\%s(\%#x, \%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_self, "thr_self", "\%s(\%#x)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "\%s(\%d, \"%s\")\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "\%s(\%d, \%#x)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "\%s(\%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_umask, "umask", "\%s(\%#o)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_unlink, "unlink", "\%s(\"%s\")\", NULL, NULL },
\{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
\{ TARGET_FREEBSD_NR_write, "write", "\%s(\%d,\%#x,\%d)\", NULL, NULL },
\{ TARGET_FREEBSD_NR_writev, "writev", "\%s(\%d,\%p,\%#x)\", NULL, NULL }

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c7 Sep 2007 10:01:21 -00001.1
@ -52.7 +52.11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
    +if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
        +x86emu_dump_xregs();
    +} else {
        +x86emu_dump_regs();
    
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+void x86emuOp2_bswap(u8 op2) +{ +  /* byte swap 32 bit register */ +  START_OF_INSTR(); +  DECODE_PRINTF("BSWAP\t"); +  switch (op2) { +    case 0xc8: +      DECODE_PRINTF("EAX\n"); +      M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX); +      break; +    case 0xc9: +      DECODE_PRINTF("ECX\n"); +      M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX); +      break; +    case 0xca: +      DECODE_PRINTF("EDX\n"); +      M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX); +      break; +    case 0xcb: +      DECODE_PRINTF("EBX\n"); +      M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX); +      break; +    case 0xcc: +      DECODE_PRINTF("ESP\n"); +      M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP); +      break; +    case 0xcd: +      DECODE_PRINTF("EBP\n"); +      M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP); +      break; +    case 0xce: +      DECODE_PRINTF("ESI\n"); +      M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI); +      break; +    case 0xcf: +      DECODE_PRINTF("EDI\n"); +      M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI); +      break; +  } +  TRACE_AND_STEP(); +  DECODE_CLEAR_SEGOVR(); +  END_OF_INSTR(); +}
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
    push_word(imm);
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    }
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
+        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
`DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
-        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
-        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
    M.x86.R_CX = 0;
} while (count--) {
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();`
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_DATA) ) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
        if (M.x86.intr & INTR_HALTED)
            break;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
} else {
    trace_and_step();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                if ( (M.x86.mode & SYSMODE_PREFIX_DATA) ) {
                    val1 = fetch_data_long(M.x86.R_SI);
                    val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                }
                if (M.x86.intr & INTR_HALTED)
                    break;
                M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
            }
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
        }
    }
}
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+     if (M.x86.intr & INTR_HALTED)
+           break;
+     }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+     if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+   M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--)
@@ -2795,6 +2826,8 @@
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
} M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+    break;
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        inc = 1;
        while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            /* move them until CX is ZERO. */
            count = M.x86.R_CX;
            while (count--) {
                M.x86.R_AX = fetch_data_word(M.x86.R_SI);
                M.x86.R_SI += inc;
                if (M.x86.intr & INTR_HALTED)
                    break;
            }
        } else {
            DECODE_CLEAR_SEGOVR();
            END_OF_INSTR();
        }
    }
}
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R ES, M.x86.R DI);
  cmp_byte(M.x86.R AL, val2);
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  else
  + M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
  + if (M.x86.intr & INTR_HALTED)
  + break;
}  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R ES, M.x86.R DI);
  cmp_byte(M.x86.R AL, val2);
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  else
  + M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
  + if (M.x86.intr & INTR_HALTED)
  + break;
}  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX) != 0) {

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_long(M.x86.R_EAX, val);
}
@@ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            }
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+                break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETh");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("REFt");
  imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_CS = pop_word();
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("REFn");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_CS = pop_word();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
-  M.x86.R_CX -= 1;

- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
  + if (M.x86.mode & SYSMODE_PREFIX_ADDR)
    + M.x86.R_ECX -= 1;
  + else
    + M.x86.R_CX -= 1;
  + if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
    !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
  ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
  ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
  M.x86.R_IP = target;
  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:\", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,12 +4433,14 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
    case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5:        /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s32)d * (s64)(s32)s;
 *
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#elsedef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
 *
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
-
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
```
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);
    -return inb(addr);
    +return 0;
    }

/***************************************************************************/
@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
    -return inw(addr);
    +return 0;
    }

/***************************************************************************/
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
    -return inl(addr);
    +return 0;
    }

/***************************************************************************/
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
    }

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
    }

@@ -295,7 +288,6 @@
    DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);)
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
  printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+  # define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
  x86emu_dump_regs();
if (DEBUG_TRACECALL())
  -printf("%04x:%04x: %s\n", u, v, n);
+  printk("%04x:%04x: RET %s %04x:%04x\n", u, v, s, w, x);
+  # define  JMP_TRACE(u,v,w,x,s)
+      if (DEBUG_TRACEJMPREGS())
+          x86emu_dump_regs();
+      if (DEBUG_TRACEJMP())
+          printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
+    # define CALL_TRACE(u,v,w,x,s)
-    # define RETURN_TRACE(n,u,v)
+    # define RETURN_TRACE(u,v,w,x,s)
+    # define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
+ //phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+ //the 32bit ECX register as or the 16bit CX register as count register
+ SYSMODE_32BIT_REP
+ SYSMODE_SEGOVR_GS |
+ SYSMODE_SEGOVR_SS |
+ SYSMODE_PREFIX_DATA |
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR |
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH 0x1
#define INTR_ASYNC 0x2

/*
   u32 mode;
   volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG

-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+#include <stdio.h>
 #define printk printf
 #endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F 0x004000
 #define DEBUG_DECODE_NOPRINT_F 0x008000
 #define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
 #define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

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This is the software license for Capstone disassembly framework.

Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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* /opt/cola/permits/1126576563_1611734333.38/0/redmine-java-api-2-2-0-sources-jar/com/taskadapter/redmineapi/RedmineManager.java

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.216 vim 7.4.629-6.el7

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*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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=== begin of license ===

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2) The modified Vim must be distributed in one of the following five ways:
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their
family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar”. Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
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Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse

If that doesn't work:
Rabobank Lisse, account 3765.05.117
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
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Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
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Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorg.uku.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
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Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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END OF TERMS AND CONDITIONS

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; see init_nicstart() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
 * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
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single nxt200x frontend driver.

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1.238 jaxb-core 2.1.8

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK: // %bb.0:
; CHECK-NEXT: ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT: mov v0.d[1], v0.d[0]
; CHECK-NEXT: ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
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```cpp
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
}
```
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: subq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 48
; CHECK-NEXT: .cfi_offset %rbx, -16
; CHECK-NEXT: movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
; CHECK-NEXT: movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT: callq __gttf2
; CHECK-NEXT: movl %eax, %ebx
; CHECK-NEXT: movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT: movaps {{[-0-9]+}}(%r{[sb]})p, %xmm1 # 16-byte Reload
; CHECK-NEXT: callq __subtf3
; CHECK-NEXT: testl %ebx, %ebx
; CHECK-NEXT: jg .LBB0_2
; CHECK-NEXT: # %bb.1:
; CHECK-NEXT: xorps %xmm0, %xmm0
; CHECK-NEXT: .LBB0_2:
; CHECK-NEXT: addq $32, %rsp
define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:   retq
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestCopysign:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm1
  ; CHECK-NEXT:   andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:   orps %xmm1, %xmm0
  ; CHECK-NEXT:   retq
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  ; CHECK-LABEL: TestFneg:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   pushq %rax
  ; CHECK-NEXT:   .cfi_def_cfa_offset 16
  ; CHECK-NEXT:   movaps %xmm0, %xmm1
  ; CHECK-NEXT:   callq __multf3
  ; CHECK-NEXT:   xorps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT:   popq %rax
  ; CHECK-NEXT:   .cfi_def_cfa_offset 8
  ; CHECK-NEXT:   retq
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}

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define internal void @innerSmall() "min-legal-vector-width"="128" {  
  ret void  
}

define internal void @innerLarge() "min-legal-vector-width"="512" {  
  ret void  
}

define internal void @innerNoAttribute() {  
  ret void  
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {  
  call void @innerLarge()  
  ret void  
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {  
  call void @innerLarge()  
  ret void  
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {  
  call void @innerSmall()  
  ret void  
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {  
  call void @innerNoAttribute()  
  ret void  
}

; CHECK: define void @outerNoAttribute() {
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; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-NEXT:  %[[C3:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %11
; CHECK-NEXT:  %[[C4:const[0-9]??]] = bitcast i32 805874727 to i32
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %10, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]??]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %1, i8* %13
; CHECK-NEXT:  %[[C3:const[0-9]??]] = bitcast i32 805874727 to i32
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 2
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 2
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 2
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 2
  %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 2
  %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 2
  ret void
}
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Developed by:

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==============================================================================

clang-tidy CERT Files

==============================================================================

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 2145
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>*readonly %arg1) #0 {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
; bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  bb:
  CHECK-NEXT:  store <8 x i64> %arg, <8 x i64>* %arg
  ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  bb:
  CHECK-NEXT:  alloca <8 x i64>, align 32
  CHECK-NEXT:  alloca <8 x i64>, align 32
  CHECK-NEXT:  bitcast <8 x i64>* [[TMP:%.*]] to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP]], i8 0, i64 32, i1 false)
  CHECK-NEXT:  load <8 x i64>, <8 x i64>* [[TMP]], align 2
  CHECK-NEXT:  ret void
}
}

bb:
%tmp = load <8 x i64>, <8 x i64>* [[TMP]], align 2
%tmp = load <8 x i64>, <8 x i64>* [[TMP2]], align 2
bb:
%tmp = load <8 x i64>, <8 x i64>* [[TMP3]], align 2
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
 ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
 ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
 ; CHECK-NEXT: ret void
 ;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
 ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
 ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
 ; CHECK-NEXT: bb:
 ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
 ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
 ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
 ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
 ; CHECK-NEXT: [[TMP.VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
 ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP.VAL]])
 ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
 ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
 ; CHECK-NEXT: ret void
 ;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void  
}  

; This should not promote  
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg, 
<8 x i64>* readonly %arg1) #1 {  
; CHECK-LABEL: define ([^@]+)@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256  
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])  
; CHECK-NEXT: bb:  
; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]  
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]  
; CHECK-NEXT: ret void  
;  
bb:  
%tmp = load <8 x i64>, <8 x i64>* %arg1  
store <8 x i64> %tmp, <8 x i64>* %arg  
ret void  
}  

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {  
; CHECK-LABEL: define ([^@]+)@avx512_legal256_prefer256_call_avx512_legal512_prefer256  
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])  
; CHECK-NEXT: bb:  
; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*  
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)  
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x 
i64>* [[TMP2]], <8 x i64>* [[TMP]])  
; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32  
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2  
; CHECK-NEXT: ret void  
;  
bb:  
%tmp = alloca <8 x i64>, align 32  
%tmp2 = alloca <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x 
i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void  
}  

; This should not promote  
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg,
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: ("<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg #4 {
  ; CHECK-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (8 x i64)* [[ARG:.*]]
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:.*]] =alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:.*]] =alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:.*]] =bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:.*]] =load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:.*]] =load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
  ; bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64> %arg) #3 {
; CHECK-LABEL: define {[^@]+}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64> [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
}

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64> %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define {[^@]+}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {[^@]+}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
}
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, i32* [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK, CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalize not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa32(%rdi), %ymm1  
; CHECK-NEXT: vpadd32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0  
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
%d = load <16 x i32>, <16 x i32>* %a  
%e = load <16 x i32>, <16 x i32>* %b  
%f = add <16 x i32> %d, %e  
store <16 x i32> %f, <16 x i32>* %c  
ret void  
}  

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: add512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
%d = load <16 x i32>, <16 x i32>* %a  
%e = load <16 x i32>, <16 x i32>* %b  
%f = add <16 x i32> %d, %e  
store <16 x i32> %f, <16 x i32>* %c  
ret void  
}  

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {  
; CHECK-LABEL: avg_v64i8_256:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm0  
; CHECK-NEXT: vmovdqa32(%rsi), %ymm1  
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0  
; CHECK-NEXT: vpavgb (%rdi), %ymm1, %ymm1  
; CHECK-NEXT: vmovdqu %ymm1, (%rax)  
; CHECK-NEXT: vmovdqu %ymm0, (%rax)  
; CHECK-NEXT: vzeroupper
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <32 x i16>* %CPtr) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: pmaddwd_32_256:  
    ; CHECK:      # %bb.0:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm0, %ymm1  
    ; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0  
    ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
    ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %A = load <32 x i16>, <32 x i16>* %APtr  
    %B = load <32 x i16>, <32 x i16>* %BPtr  
    %a = sext <32 x i16> %A to <32 x i32>  
    %b = sext <32 x i16> %B to <32 x i32>  
    %m = mul nsw <32 x i32> %a, %b  
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>  
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
    %ret = add <16 x i32> %odd, %even  
    store <16 x i32> %ret, <16 x i32>* %CPtr  
    ret void  
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  movl %edx, %eax
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:  xorl %ecx, %ecx
    ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:  .p2align 4, 0x90
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; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %2, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, %i32 17, %i32 18, %i32 19, %i32 20, %i32 21, %i32 22, %i32 23, %i32 24, %i32 25, %i32 26, %i32 27, %i32 28, %i32 29, %i32 30, %i32 31, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 undef, %i32 unde...
; CHECK-NEXT:   vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:   vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:   vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:   vmovd %xmm0, %eax
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
entry:
  %3 = zext i32 %2 to i64
  br label %vector.body
vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %6 = sext <32 x i8> %4 to <32 x i8>* %5, align 1
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %6 = sext <32 x i8> %7 to <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %6 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body
middle.block:
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef, <32 x i32> %i32 undef
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %ymm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %ymm2, %ymm2
; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 %ymm0, %ymm0, %ymm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,2,3]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vmovd %ymm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
    br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body
middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> undef, <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef, <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> undef, <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> undef, <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK:     # %bb.0: # %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT: .LBB11_1: # %vector.body
 ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
entry:
br label %vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k1, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:

define void @sbtol64f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbtol64f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtQ2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtQ2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtQ2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtQ2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtQ2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitiliazer
    %l = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
    ret void
}

define void @ubtol64f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubtol64f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtQ2pd %xmm0, %zmm1
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtQ2pd %xmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f64_512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:    vpmovw2m %ymm0, %k0  
; CHECK-NEXT:    vpmovm2d %k0, %zmm0  
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0  
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1  
; CHECK-NEXT:    vextracti64x4 %1, %zmm0, %ymm0  
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0  
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)  
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)  
; CHECK-NEXT:    vzeroupper  
; CHECK-NEXT:    retq  
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x double>  
store <16 x double> %1, <16 x double>* %res  
ret void  
}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {      
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vpmovdqu16 %ymmm0, %ymmm0 {%k1} {z}
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    ret <16 x i16> %select
}
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm3 =
  ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 =
  ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpackuswb %ymm0, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm2 =
  ymm2[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm0 =
  ymm0[0,0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm0, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT: vmovdqa 32(%rdx), %ymm1
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-AVX512-LABEL: mul512:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    ; CHECK-AVX512-NEXT: zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36]
    ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    ; CHECK-AVX512-NEXT: zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36]
    ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vpmullw %zmm3, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vpmullw %zmm3, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vzeroupper
    ; CHECK-AVX512-NEXT: retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}
def mload_v4i32(%trigger, %addr, %dst) {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

This threw an assertion at one point.

define <4 x i32> @mload_v4i32(%trigger, %addr, %dst) "min-legal-vector-width"="256" {
  CHECK-LABEL: mload_v4i32:
  CHECK:
; CHECK-NEXT:  vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:  vbldnmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:  retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqd %ymm0, %xmm0
; CHECK-NEXT:  vpmovqd %ymm1, %xmm1
; CHECK-NEXT:  vpmovqd %ymm2, %xmm2
; CHECK-NEXT:  vpmovqd %ymm3, %xmm3
; CHECK-NEXT:  vinsrti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:  vpmovqd %ymm2, %xmm1
; CHECK-NEXT:  vpmovqd %ymm3, %xmm2
; CHECK-NEXT:  vinsrti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqb %ymm3, %xmm3
; CHECK-NEXT:  vpmovqb %ymm2, %xmm2
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm2 = xmm2[0], xmm3[0], xmm2[1], xmm3[1]
; CHECK-NEXT:  vpmovqb %ymm1, %xmm1
; CHECK-NEXT:  vpmovqb %ymm0, %xmm0
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm0 = xmm0[0], xmm1[0], xmm0[1], xmm1[1]
; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0], xmm2[0]
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i8:
    ; CHECK:   # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i8:
    ; CHECK:   # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovqb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovqb %ymm0, %xmm0
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i16:
    ; CHECK:   # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovqw %ymm1, %xmm1
    ; CHECK-NEXT: vpmovqw %ymm0, %xmm0
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
    ; CHECK:   # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovqw %ymm1, %xmm1
    ; CHECK-NEXT: vpmovqw %ymm0, %xmm0
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i32>
ret <8 x i32> %b
}
; CHECK-LABEL: trunc_v8i64_v8i32_zeroses:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:  vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroses(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {   
; CHECK-LABEL: trunc_v16i32_v16i16_zeroses:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:  vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroses(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" { 
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroses:
; CHECK-AVX512:  # %bb.0:
; CHECK-AVX512-NEXT:  vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
; 
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroses:
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:  vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i32_sign:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT: vpsraq $48, (%rdi), %ymm1
    ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
    ; CHECK-NEXT: vpmovqd %ymm0, %xmm0
    ; CHECK-NEXT: vinserti128 $1, %xmm0, %ymm1, %ymm0
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = ashr <8 x i64> %a, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48
    %c = trunc <8 x i64> %b to <8 x i32>
    ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i16_sign:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa {1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31}
    ; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
    ; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = ashr <16 x i32> %a, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16,
    %c = trunc <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
    ; CHECK-AVX512:    # %bb.0:
    ; CHECK-AVX512-NEXT: vpsraw $8, 32(%rdi), %ymm0
    ; CHECK-AVX512-NEXT: vpsraw $8, (%rdi), %ymm1
    ; CHECK-AVX512-NEXT: vpcksswb %ymm0, %ymm1, %ymm0
    ; CHECK-AVX512-NEXT: vpermi2w {1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31}
    ; CHECK-AVX512-NEXT: retq
    ;
    ; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
    ; CHECK-VBMI:    # %bb.0:
    ; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-VBMI-NEXT: vmovdqa {1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63}
    ; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
    ; CHECK-VBMI-NEXT: retq
    %a = load <32 x i16>, <32 x i16>* %x
}
\%b = ashr <32 x i16> \%a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
\%c = trunc <32 x i16> \%b to <32 x i8>
ret <32 x i8> \%c
}

define void @zext_v16i8_v16i64(<16 x i8> \%x, <16 x i64>* \%y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:
; CHECK-NEXT: vpmovzxbw {{.*#}} ymm1 =
 xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,
xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT: vpshufd {{.*#}} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#}} ymm2 =
 xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {{.*#}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#}} ymm3 =
 xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT: vpmovzxwq {{.*#}} ymm1 =
 xmm1[0],zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT: vpmovzxwq {{.*#}} ymm0 =
 xmm0[0],zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero
; CHECK-NEXT: vpmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vpmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT: vpmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT: vpmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
\%a = zext <16 x i8> \%x to <16 x i64>
store <16 x i64> \%a, <16 x i64>* \%y
ret void
}

define void @sext_v16i8_v16i64(<16 x i8> \%x, <16 x i64>* \%y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:
; CHECK-NEXT: vpmovzxbw %ymm0, (%rdi)
; CHECK-NEXT: vpmovzxwq %ymm1, 64(%rdi)
; CHECK-NEXT: vpmovzxwq %ymm3, 96(%rdi)
; CHECK-NEXT: vpmovzxwq %ymm2, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
\%a = zext <16 x i8> \%x to <16 x i64>
store <16 x i64> \%a, <16 x i64>* \%y
ret void
}
%a = icmp eq <8 x i32> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:  vpmovuswb %ymm0, %xmm0
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:  vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  retq
}
define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftrd $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $3, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $61, %k2, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $5, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $60, %k2, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
}
; CHECK-NEXT: movabsq $-17179869185, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $3, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $29, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $2, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $28, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-68719476737, %rax # imm = 0xFFFFFFFF6FFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $5, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $27, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFF6DFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $4, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $26, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-274877906945, %rax # imm = 0xFFFFFFFF6CFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $7, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $25, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-549755813889, %rax # imm = 0xFFFFFFFF6EFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $6, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $24, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFF7EFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-219902325553, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $8, %k1, %k2
; CHECK-NEXT:  kshiftrd $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $22, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4398046511105, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $11, %k1, %k2
; CHECK-NEXT:  kshiftrq $21, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8796093022209, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $10, %k1, %k2
; CHECK-NEXT:  kshiftrq $20, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-17592186044417, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $13, %k1, %k2
; CHECK-NEXT:  kshiftrq $19, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-35184372088833, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $12, %k1, %k2
; CHECK-NEXT:  kshiftrq $18, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-70368744177665, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $15, %k1, %k2
; CHECK-NEXT:  kshiftrq $17, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-140737488355329, %rax # imm = 0xffffffffffffffff
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $14, %k1, %k2
; CHECK-NEXT:  kshiftrq $63, %k2, %k2
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: v64i1_inline_asm:
 ; CHECK:     # %bb.0:
 ; CHECK-NEXT: kmovq [.*](%rip), %k0
 ; CHECK-NEXT: #APP
 ; CHECK-NEXT: #NO_APP
 ; CHECK-NEXT: kmovq %k0, [.*](%rip)
 ; CHECK-NEXT: movl [[[0-9]+]](%rsp), %eax
 ; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %y.ptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: cmp_v8i64_sext:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  %x = load <8 x i64>, <8 x i64>* %xptr
  %y = load <8 x i64>, <8 x i64>* %y.ptr
  %cmp = icmp slt <8 x i64> %x, %y
  %ext = sext <8 x i1> %cmp to <8 x i64>
  store <8 x i64> %ext, <8 x i64>* %zptr
  ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %y.ptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: cmp_v8i64_zext:
  ; CHECK:  # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <8 x i64>, <8 x i64>* %xptr
  %y = load <8 x i64>, <8 x i64>* %y.ptr
  %cmp = icmp slt <8 x i64> %x, %y
  %ext = zext <8 x i1> %cmp to <8 x i64>
  store <8 x i64> %ext, <8 x i64>* %zptr
  ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: var_rotate_v16i8:

; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa {{.*#+}} xmm2 = [8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8,8.8]
; CHECK-NEXT:  vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
  xmm1[0], zero, xmm1[1], zero, xmm1[2], zero, xmm1[3], zero, xmm1[4], zero, xmm1[5], zero, xmm1[6], zero, xmm1[7], zero,
  o, xmm1[8], zero, xmm1[9], zero, xmm1[10], zero, xmm1[11], zero, xmm1[12], zero, xmm1[13], zero, xmm1[14], zero, xmm1[15], zero
; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm0 =
  xmm0[0], zero, xmm0[1], zero, xmm0[2], zero, xmm0[3], zero, xmm0[4], zero, xmm0[5], zero, xmm0[6], zero, xmm0[7], zero,
  o, xmm0[8], zero, xmm0[9], zero, xmm0[10], zero, xmm0[11], zero, xmm0[12], zero, xmm0[13], zero, xmm0[14], zero, xmm0[15], zero
; CHECK-NEXT:  vpsllvw %ymm1, %ymm0, %ymm1
; CHECK-NEXT:  vpmovzxvw {{.*#++}} ymm2 =
  xmm2[0], zero, xmm2[1], zero, xmm2[2], zero, xmm2[3], zero, xmm2[4], zero, xmm2[5], zero, xmm2[6], zero, xmm2[7], zero,
  o, xmm2[8], zero, xmm2[9], zero, xmm2[10], zero, xmm2[11], zero, xmm2[12], zero, xmm2[13], zero, xmm2[14], zero, xmm2[15], zero
; CHECK-NEXT:  vpsrlvw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:  vpord %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vpor %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT:  vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT:  vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT:  vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT:  vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT:  vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:  vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT:  vpaddb %ymm0, %ymm0, %ymm3
; CHECK-NEXT:  vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:  vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    %splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %splat
    %shl = shl <32 x i8> %a, %splat8
    %lshr = lshr <32 x i8> %a, %splat8
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    %splat8 = sub <32 x i8> %b, <32 x i8> undef, <32 x i32> zeronitializer
    %splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeronitializer
    %shl = shl <32 x i8> %a, %splat8
    %lshr = lshr <32 x i8> %a, %splat8
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}
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target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit |
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i: ; preds = %while.body
unreachable

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
]
target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{^[|^@]+} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [(TMP:.*]) = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [(TMP)], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS_TUNIT_NPM-LABEL: define
{^[|^@]+} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:.*]])
; IS_TUNIT_NPM-NEXT: bb:
; IS_TUNIT_NPM-NEXT: [(ARG1_PRIV:.*]) = alloca <8 x i64>, align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [(TMP0)], <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: [(TMP:.*]) = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS_TUNIT_NPM-NEXT: store <8 x i64> [(TMP)], <8 x i64>* [[ARG]], align 64
; IS_TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {

; IS_TUNIT_OPM-LABEL: define {^[|^@]+} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS_TUNIT_OPM-NEXT: bb:
; IS_TUNIT_OPM-NEXT: [(TMP:.*]) = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [(TMP2:.*]) = alloca <8 x i64>, align 32
; IS_TUNIT_OPM-NEXT: [(TMP3:.*]) = bitcast <8 x i64>* [[TMP3]] to i8*
; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS_TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__UNIT_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_OPM-NEXT:   ret void

; IS__UNIT_NPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__UNIT_NPM-SAME:  (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__UNIT_NPM-NEXT:   bb:
; IS__UNIT_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT:   [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT:   store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT:   ret void

; IS__CGSCC_OPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME:  (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT:   bb:
; IS__CGSCC_OPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
; IS__UNIT_NPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT:   ret void

; IS__CGSCC_NPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME:  (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:   bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:   ret void

; IS__CGSCC_NPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME:  (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:   bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

   bb:
   %tmp = alloca <8 x i64>, align 32
   %tmp2 = alloca <8 x i64>, align 32
   %tmp3 = bitcast <8 x i64>* %tmp to i8*
   call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
   call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
   %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
   store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
   ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

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define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

}; This should promote

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

  NOT_TUNIT_NPM-LABEL: define
  {{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256

  NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture noreturn nullnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture noreturn nullnull writeonly align 64 dereferenceable(64) [[ARG1:%.*]])

  NOT_TUNIT_NPM-NEXT: bb:

  NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64

  NOT_TUNIT_NPM-NEXT: ret void

  };

};

IS__TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256

IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture noreturn nullnull writeonly align 64 dereferenceable(64) [[ARG0:%.*]], <8 x i64>* [[TMP0]])

IS__TUNIT_NPM-NEXT: bb:

IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64

IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; IS__CGSCC_OPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS__CGSCC_OPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP3]])
; IS__CGSCC_OPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:   ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:   bb:
; IS__CGSCC_NPM-NEXT:   [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:   [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:   call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:   call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull
readonly align 64 dereferenceable(64) [[TMP3]])
; IS__CGSCC_NPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:   ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* %arg1 { 
  
  define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* %arg1 (8 x i64)* %arg1 
  store <8 x i64> %tmp, <8 x i64>* %arg1 
  ret void 
}

; NOT_TUNIT_NPM-NEXT: bb: 
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64 
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64 
; NOT_TUNIT_NPM-NEXT: ret void 

; IS__TUNIT_NPM-LABEL: define 
{[[^@]+]} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512 
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) 
; IS__TUNIT_NPM-NEXT: bb: 
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64 
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64 
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64 
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64 
; IS__TUNIT_NPM-NEXT: ret void 

bb: 
%tmp = load <8 x i64>, <8 x i64>* %arg 
store <8 x i64> %tmp, <8 x i64>* %arg 
ret void 
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* %arg) #1 { 
  
  define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* %arg (8 x i64)* %arg 
  store <8 x i64> %tmp, <8 x i64>* %arg 
  ret void 
}
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bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[TMP2]])
%tmp4 = load <8 x i64>, <8 x i64>* [[TMP2]], <8 x i64>* [[ARG]], align 2
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TYP2]], <8 x i64>* [[ARG]], align 2)
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store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; NOT_TUNIT_NPM-LABEL: define
    {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT: ret void
    
    ; IS_TUNIT_NPM-LABEL: define
    {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; IS_TUNIT_NPM-NEXT: bb:
    ; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS_TUNIT_NPM-NEXT: ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ;
    ; IS_TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS_TUNIT_OPM-NEXT: bb:
    ; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS_TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS_TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS_TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_call_avx512_legal1252_prefer256(8 x i64)* %tmp2, 8 x i64)* %tmp
%tmp4 = load 8 x i64>, <8 x i64>* %tmp2, align 32
store 8 x i64> %tmp4, 8 x i64>  %arg, align 2
ret void
}

bb:
%tmp = load 8 x i64>, 8 x i64>* %tmp4, 8 x i64>* %arg, 8 x i64>*%arg1, 8 x i64>*%arg2)
ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>*%arg, <8 x i64>*%arg1) #2 {  

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_call_avx512_legal1252_prefer256(8 x i64)* %tmp2, 8 x i64)* %tmp
%tmp4 = load 8 x i64>, <8 x i64>* %tmp2, align 32
store 8 x i64> %tmp4, 8 x i64>* %arg, align 2
ret void
}

bb:
%tmp = load 8 x i64>, <8 x i64>* %tmp4, 8 x i64>* %arg, align 2
store 8 x i64> %tmp4, 8 x i64>*%arg, 8 x i64>*%arg1) #2
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {

bb:
%tmp = load 8 x i64>, <8 x i64>*%arg1
store 8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {

bb:
%tmp = load 8 x i64>, <8 x i64>*%arg1
store 8 x i64> %tmp, <8 x i64>* %arg
ret void
}
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:    ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nofree nonfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nofree nonfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonfree nonnull readonly align 64
dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nofree nonfree nonnull readonly align 64
dereferenceable(64) [[TMP]])

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; IS__CGSCC_NPM-NEXT:     [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:     [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:     call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:     call fastcc void
@calleev512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocaapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:     [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:     store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:     ret void

bb:

%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {

; NOT_TUNIT_NPM-LABEL: define
({{[^@]+}}) @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nocaapture nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocaapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:

; NOT_TUNIT_NPM-NEXT:     [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:     store <8 x i64> [[TMP]], <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:     ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:.%.*]], <8 x i64>* [[TMP0:.%.*]])
; IS__TUNIT_NPM-NEXT: bb:

; IS__TUNIT_NPM-NEXT:     [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:     store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:     [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:     store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:     ret void

bb:
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ; IS__TUNIT_OPM-LABEL: define {[^@]+} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* noclaim writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
    ; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_OPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noclaim nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noclaim nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__TUNIT_OPM-NEXT:  ret void
    ; IS__TUNIT_NPM-LABEL: define {[^@]+} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noclaim writeonly [[ARG:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
    ; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_NPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__TUNIT_NPM-NEXT:  ret void
    ; IS__CGSCC_OPM-LABEL: define {[^@]+} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__CGSCC_OPM-SAME: (<8 x i64>* noclaim writeonly align 2 dereferenceable(64) [[ARG:%.*]])
    ; IS__CGSCC_OPM-NEXT: bb:
    ; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
    ; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noclaim nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noclaim nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
    ; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__CGSCC_OPM-NEXT:  ret void
}

%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME:    (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:        [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:        [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:        [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS__CGSCC_NPM-NEXT:        call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:        call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:        [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:        store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:        ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
;
; NOT_TUNIT_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME:    (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG1:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT:    bb:
; NOT_TUNIT_NPM-NEXT:        [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:        store <8 x i64> [[TMP]], <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:        ret void
;
define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(%arg) #3 {
  %tmp = load <8 x i64>, %arg
  store <8 x i64>, %tmp, %arg
  ret void
}

@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256:

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(%arg) #3 {
  %tmp = load <8 x i64>, %arg
  store <8 x i64>, %tmp, %arg
  ret void
}

@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256:

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(%arg) #3 {
  %tmp = load <8 x i64>, %arg
  store <8 x i64>, %tmp, %arg
  ret void
}
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked 
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is 
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1, 
                                      metadata !"fpexcept.strict")
  strictfp
  ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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==============================================================================
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
define void @zext512() "min-legal-vector-width"="512" {  
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}
<8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
open source used in field network director for virtual machine installation 4.7.1

; skx512-next: cost model: found an estimated cost of 0 for instruction: ret void
;
%a = zext <8 x i16> undef to <8 x i64>
%b = zext <8 x i32> undef to <8 x i64>
%c = zext <16 x i8> undef to <16 x i32>
%d = zext <16 x i16> undef to <16 x i32>
%e = zext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext256() "min-legal-vector-width"="256" {
  ; vec256-label: '@sext256'
  ; vec256-next: cost model: found an estimated cost of 3 for instruction: %a = sext <8 x i8> undef to <8 x i64>
  ; vec256-next: cost model: found an estimated cost of 3 for instruction: %b = sext <8 x i16> undef to <8 x i64>
  ; vec256-next: cost model: found an estimated cost of 3 for instruction: %c = sext <8 x i32> undef to <8 x i64>
  ; vec256-next: cost model: found an estimated cost of 4 for instruction: %d = sext <16 x i8> undef to <16 x i32>
  ; vec256-next: cost model: found an estimated cost of 3 for instruction: %e = sext <16 x i16> undef to <16 x i32>
  ; vec256-next: cost model: found an estimated cost of 3 for instruction: %f = sext <32 x i8> undef to <32 x i16>
  ; vec256-next: cost model: found an estimated cost of 0 for instruction: ret void
  ;
  ; avx512vl512-label: '@sext256'
  ; avx512vl512-next: cost model: found an estimated cost of 1 for instruction: %a = sext <8 x i8> undef to <8 x i64>
  ; avx512vl512-next: cost model: found an estimated cost of 1 for instruction: %b = sext <8 x i16> undef to <8 x i64>
  ; avx512vl512-next: cost model: found an estimated cost of 1 for instruction: %c = sext <8 x i32> undef to <8 x i64>
  ; avx512vl512-next: cost model: found an estimated cost of 1 for instruction: %d = sext <16 x i8> undef to <16 x i32>
  ; avx512vl512-next: cost model: found an estimated cost of 1 for instruction: %e = sext <16 x i16> undef to <16 x i32>
  ; avx512vl512-next: cost model: found an estimated cost of 3 for instruction: %f = sext <32 x i8> undef to <32 x i16>
  ; avx512vl512-next: cost model: found an estimated cost of 0 for instruction: ret void
  ;
  ; skx512-label: '@sext256'
  ; skx512-next: cost model: found an estimated cost of 1 for instruction: %a = sext <8 x i8> undef to <8 x i64>
  ; skx512-next: cost model: found an estimated cost of 1 for instruction: %b = sext <8 x i16> undef to <8 x i64>
  ; skx512-next: cost model: found an estimated cost of 1 for instruction: %c = sext <8 x i32> undef to <8 x i64>
  ; skx512-next: cost model: found an estimated cost of 1 for instruction: %d = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

} define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL256-LABEL: 'sext512'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'sext512'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'sext512'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'sext512'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc256'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>


define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'zext256_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vX1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vX1'
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%V2i64 = zext <2 x i1> undef to <2 x i64>
%V4i64 = zext <4 x i1> undef to <4 x i64>
%V8i64 = zext <8 x i1> undef to <8 x i64>
%V2i32 = zext <2 x i1> undef to <2 x i32>
%V4i32 = zext <4 x i1> undef to <4 x i32>
%V8i32 = zext <8 x i1> undef to <8 x i32>
%V16i32 = zext <16 x i1> undef to <16 x i32>
%V2i16 = zext <2 x i1> undef to <2 x i16>
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>
%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'sext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
  ; AVX-NEXT: AVX512VL256-LABEL: 'sext256_vXi1'
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; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

SKX512-NEXT: 'sext256_vXi1'
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to
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; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i16 = sext <64 x i1> undef to <64 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; %I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>

%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

```
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
```
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8
x i1
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>
ret i32 undef
}
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The Red Hat VDO Team:
Principal Engineer/Lead Architect:
  J. corwin Coburn <corwin@redhat.com>

Primary Authors:
  Joseph Chapman <jochapma@redhat.com>
  Sweet Tea Dorminy <sweettea@redhat.com>
  Thomas Jaskiewicz <tjaskiew@redhat.com>
  Bruce Johnston <bjohnsto@redhat.com>
  Ken Raeburn <raeburn@redhat.com>
  Michael Sclafani <sclafani@redhat.com>
  Matthew Sakai <msakai@redhat.com>
  Joseph Shimkus <jshimkus@redhat.com>
  John Wiele <jwiele@redhat.com>

Support, Testing, Documentation, and other things too numerous to mention:
  Chung Chung <cchung@redhat.com>:
  Bryan Gurney <bgurney@redhat.com>
  *Simon J. Hernandez <sihernan@redhat.com>
  Jakub Krysl <jkryst@redhat.com>
  Marek Suchanek <msuchane@redhat.com>

Project Management & Technical Direction:
  Jered Floyd <jered@redhat.com>
  Louis Imershein <limershe@redhat.com>
  Dennis Keele <dkeele@redhat.com>
  Andrew Walsh <awalsh@redhat.com>

*former team members
Other Contributors:
Ji-Hyeon Gim <potatogim@potatogim.net>:
   Updates for FC26/Kernel 4.13

VDO was originally created at Permabit Technology Corporation, and was subsequently acquired and open-sourced by Red Hat.

Former Members of the Permabit VDO Team:
Engineers:
   Mark Amidon
   David Buckle
   Jacky Chu
   Joel Hoff
   Dimitri Kountourogianni
   Alexis Layton
   Michael Lee
   Rich Macchi
   Dave Paniriti
   Karl Ramm
   Hooman Vassef
   Assar Westurlund

Support, Testing, Documentation, etc.
   Carl Alexander
   Mike Chu
   Mark Iskra
   Farid Jahanmir
   Francesca Koulikov
   Erik Lattimore
   Jennifer Levine
   Randy Long
   Steve Looby
   Uche Onyekwuluje
   Catherine Powell
   Jeff Pozz
   Sarmad Sada
   John Schmidt
   Omri Schwarz
   Jay Splaine
   John Welle
   Mary-Anne Wolf
   Devon Yablonski
   Robert Zupko

Interns:
   Ari Entlich
   Lori Monteleone
Project Management & Technical Direction:
Michael Fortson

Other Past Perimabit Contributors (for early work on the index):
James Clough
Dave Golombek
Albert Lin
Edwin Olson
Dave Pinkney
Rich Brennan

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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portion of it, either verbatim or with modifications and/or translated
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included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
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such a program is covered only if its contents constitute a work based
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writing it). Whether that is true depends on what the Library does
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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user can modify the Library and then relink to produce a modified
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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That's all there is to it!

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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1.250 string-template 3.2.1

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/misc/JTreeStringTemplatePanel.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/misc/StringTemplateTreeView.java

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
}
/** A parser used to break up a single template into chunks, text literals
 * and attribute expressions.
 */
class TemplateParser extends Parser;
{
protected StringTemplate self;

public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if ( group==StringTemplate.defaultGroup ) {
        self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    }
    else {
        self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
    }
}

template[StringTemplate self]
{
    this.self = self;
}

: (  s:LITERAL  {self.addChunk(new StringRef(self,s.getText()));}
    |  nl:NEWLINE
     {if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
        self.addChunk(new NewlineRef(self,nl.getText()));
    }
action[StringTemplate self]
  : a:ACTION
  |
  |
  |   action[self]
  |   )*
  |
  |
  |

action[StringTemplate self]
  : a:ACTION
  {
    String indent = ((ChunkToken)a).getIndention();
    ASTExpr c = self.parseAction(a.getText());
    c.setIndention(indent);
    self.addChunk(c);
  }

  |   i:IF
  |
  {|
    ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
    // create and precompile the subtemplate
    StringTemplate subtemplate =
      new StringTemplate(self.getGroup(), null);
    subtemplate.setEnclosingInstance(self);
    subtemplate.setName(i.getText()+'_subtemplate');
    self.addChunk(c);
  }

  template[subtemplate] {if ( c!=null ) c.setSubtemplate(subtemplate);}

  (    ei:ELSEIF
  |
  {|
    ASTExpr ec = self.parseAction(ei.getText());
    // create and precompile the subtemplate
    StringTemplate elseifSubtemplate =
      new StringTemplate(self.getGroup(), null);
    elseifSubtemplate.setEnclosingInstance(self);
    elseifSubtemplate.setName(ei.getText()+'_subtemplate');
  }

  template[elseifSubtemplate]

  {if ( c!=null ) c.addElseIfSubtemplate(ec, elseifSubtemplate);}
  )*

  (    ELSE
  |
  {|
    // create and precompile the subtemplate
    StringTemplate elseSubtemplate =
      new StringTemplate(self.getGroup(), null);
elseSubtemplate.setEnclosingInstance(self);
elseSubtemplate.setName("else_subtemplate");
}

template[elseSubtemplate]
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}

ENDIF

|rr:REGION_REF
|
{ // define implicit template and
    // convert <@r()> to <region__enclosingTemplate__r()>
String regionName = rr.getText();
String mangledRef = null;
boolean err = false;
    // watch out for <@super.r()>; that does NOT def implicit region
    // convert to <super.region__enclosingTemplate__r()>
if ( regionName.startsWith("super." ) ) {
    //System.out.println("super region ref “+regionName);
String regionRef =
    regionName.substring("super.".length(),regionName.length());
String templateScope =
    self.getGroup().getUnMangledTemplateName(self.getName());
StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
if ( scopeST==null ) {
    self.getGroup().error("reference to region within undefined template: “+
templateScope);
    err=true;
}
if ( !scopeST.containsRegionName(regionRef) ) {
    self.getGroup().error("template “+templateScope+” has no region called “+
regionRef);
    err=true;
}
else {
    mangledRef =
    self.getGroup().getMangledRegionName(templateScope,regionRef);
    mangledRef = "super.”+mangledRef;
}
}
else {
    //System.out.println("region ref “+regionName);
StringTemplate regionST =
    self.getGroup().defineImplicitRegionTemplate(self,regionName);
mangledRef = ”super.”+mangledRef;
}
}
if ( !err ) {
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rr).getIndentation();
    ASTExpr c = self.parseAction(mangledRef+"()");  
    c.setIndentation(indent);
    self.addChunk(c);
}
}

|rd:REGION_DEF|
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
if ( indexOfDefSymbol>=1 ) {
    String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
    String template =
        combinedNameTemplateStr.substring(indexOfDefSymbol+3, combinedNameTemplateStr.length());
    StringTemplate regionST =
        self.getGroup().defineRegionTemplate(self,
            regionName, 
            template, 
            StringTemplate.REGION_EMBEDDED);
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rd).getIndentation();
    ASTExpr c = self.parseAction(regionST.getName()+"()");  
    c.setIndentation(indent);
    self.addChunk(c);
}
else {
    self.error("embedded region definition screwed up");
}
}

/** Break up an input text stream into chunks of either plain text
* or template actions in "$...$". Treat IF and ENDIF tokens
* specially.
*/
class DefaultTemplateLexer extends Lexer;

options {
    k=7; // see "$endif$"
    charVocabulary = '\u0001'..'uFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
    LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
    LA(i+5)=='f'&&LA(i+6)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&
    LA(i+5)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
: {LA(1)!=''&&LA(1)!='
'}? ( options { generateAmbigWarnings=false;}
    { int loopStartIndex=text.length();
      int col=getColumn();
    }
    : '\!' '\$' // allow escaped delimiter
    | '\!' '\!' // always replace \ with \
    | '\!' '\~' '\$' // otherwise ignore escape char
    | ind:INDENT
    { if ( col==1 && LA(1)=='$' ) {
      // store indent in ASTExpr not in a literal
      currentIndent=ind.getText();
      text.setLength(loopStartIndex); // reset length to wack text
    }
else currentIndent=null;
}
| ~('$'\r'\n')
)+
{if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
;

NEWLINE
:('\r')? 'n' {newline(); currentIndent=null;}
;

ACTION
options {
generateAmbigWarnings=false; // $EXPR$ is ambig with $!...$ 
}
{
    int startCol = getColumn();
    :
        LINE_BREAK {$setType(Token.SKIP);}
        // Match escapes not in a string like <\u0005>
        StringBuffer buf = new StringBuffer(); char uc = '\u0005';
        '$'! (uc=ESC_CHAR {buf.append(uc);})+$'
        {$setText(buf.toString()); $setType(LITERAL);}
        | COMMENT {$setType(Token.SKIP);}
        |   (options {
            generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
        }:
            '$'! "if" ('!' )* "(" IF_EXPR ")" '$'! {$setType(TemplateParser.IF);}
            ( ('\r')? 'n'! [newline();])? // ignore any newline right after an IF
            | '$'! "elseif" ('!' )* "(" IF_EXPR ")" '$'! {$setType(TemplateParser.ELSEIF);}
            ( ('\r')? 'n'! [newline();])? // ignore any newline right after an IF
            |   '$'! "else" '$'! {$setType(TemplateParser.ELSE);}
            ( ('\r')? 'n'! [newline();])? // ignore any newline right after an ELSE
            |   '$'! "endif" '$'! {$setType(TemplateParser.ENDIF);}
            ( [startCol==1]? ('\r')? 'n'! [newline();])? // ignore after ENDIF if on line by itself
            | // match $@foo()$ => foo
            | // match $@foo$...$@end$ => foo:==...
            |   '$'! '@'! (~('$'|'('))+( ('(")! '$'! {$setType(TemplateParser.REGION_REF);}
            |   '$'!
            {$setType(TemplateParser.REGION_DEF);
        String t=$getText;
        $setText(t+"=");
    )
    ( options {greedy=true;} : ('\r')? 'n'! [newline();])?
    {boolean atLeft = false;}
}
protected
ESC_CHAR returns [char uc='\u0000']
:\"\n\! {uc = 'n';}
[\"\r\! {uc = 'r';}
[\"\t\! {uc = 't';}
[\"\! {uc = '\';}
[\"\u\! a:HEX! b:HEX! c:HEX! d:HEX!]
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);} :
protected
ESC : '\'. // ('$'|'n'|'t'|'"'|'\'|'{'|'}')
:
protected
HEX: '0'..'9'|'A'..'F'|'a'..'f'
:
protected
SUBTEMPLATE
: '{' (SUBTEMPLATE|ESC|~'}')* '}'
:
protected
NESTED_PARENS
: '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'
:
protected
INDENT
: ( options {greedy=true;}: ' ' | '\t')+ :
protected
COMMENT
{
    int startCol = getColumn();
}
: "$!"
(options {greedy=false;}

protected

```java
    "\\$" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?
    ;
```

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/template.g
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/action.g
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/eval.g
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/AttributeRenderer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/NewlineRef.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/StringTemplateErrorListener.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/StringTemplateToken.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/Expr.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/ConditionalExpr.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/StringTemplate.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/ChunkToken.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/StringTemplateGroup.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/StringTemplateWriter.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/StringRef.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/StringTemplateAST.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/AutoIndentWriter.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/NoIndentWriter.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
  jar/org/antlr/stringtemplate/language/ASTExpr.java
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/*** Match an ST group interface. Just a list of template names with args.
* Here is a sample interface file:
*
*interface nfa;
*nfa(states,edges);
*optional state(name);
*/
class InterfaceParser extends Parser;

options {
    k=3;
}
```
protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
    if ( groupI!=null ) {
        groupI.error("template group interface parse error", e);
    }
    else {
        System.err.println("template group interface parse error: "+e);
        e.printStackTrace(System.err);
    }
}

groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface" name:ID {groupI.setName(name.getText());} SEMI
    ( template[groupI ]+ )
 ;

template[StringTemplateGroupInterface groupI]
{
    LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
    String templateName=null;
}
:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
    {templateName = name.getText();
     groupI.defineTemplate(templateName, formalArgs, opt!=null);
    }
 ;

args returns [LinkedHashMap args=new LinkedHashMap()]
    :a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}
        ( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )* 
 ;

class InterfaceLexer extends Lexer:

    options {
        k=2;
        charVocabulary = \u0000..\uFFFE;
    }

    ID:('a'..'z'|'A'..'Z'|_)+ ('a'..'z'|'A'..'Z'|0..'9'|_)*
 ;
LPAREN: '(';
RPAREN: ')';
COMMA: ',,'
SEMI: ';;
COLON: ':';

// Single-line comments
SL_COMMENT  :
   /*"*/
   (¬("\n"|\r
)* ("\r")? "\n")?
   {$setType(Token.SKIP); newline();}
   ;

// multiple-line comments
ML_COMMENT  :
   "/*
   ( options {
      greedy=false;
   } :
   (\r)? "\n" {newline();}
   | .
   )*"
   "*/
   {$setType(Token.SKIP);}
   ;

// Whitespace -- ignored
WS  :
   (   ' ' |
   \t |
   \f |
   (\r)? "\n" { newline(); }
   )+
   {$setType(Token.SKIP);}
   ;

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** Break up an input text stream into chunks of either plain text
* or template actions in "<...>". Treat IF and ENDIF tokens
* specially.
*/
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>
    charVocabulary = "\u0001".."\uFFE";
}

{ 
    protected String currentIndent = null;
    protected StringTemplate self;

    public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
        this(r);
        this.self = self;
    }

    public void reportError(RecognitionException e) {

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
        LA(i+5)=='>';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
        LA(i+5)=='>';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='>';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL:
   {LA(1)!=''&&LA(1)!='
'}?
   ( options { generateAmbigWarnings=false; } { int loopStartIndex=text.length();
        int col=getColumn();
    } : '\!' '<' // allow escaped delimiter
        | '\!' '>'
        | '\!' '\'
        | '\!' '(' // otherwise ignore escape char
        | ind:INDENT
    )
    if ( col==1 && LA(1)=='<' ) {
        // store indent in ASTExpr not in a literal
        currentIndent=ind.getText();
        text.setLength(loopStartIndex); // reset length to wack text
    }
    else currentIndent=null;
}| ~('+'</' | \n')
)+
   {if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
;
protected
ESC_CHAR returns [char uc=\u0000]
   :"\n"! {uc = '\n';}
   |"\r"! {uc = '\r';}
   |"\t"! {uc = '\t';}
   |"\ "! {uc = '';}
   |"\u"! a:HEX! b:HEX! c:HEX! d:HEX!
   {uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}
;

// just used to skip stuff (not part of unicode escape stuff)
protected
ESC :   '\' . // ('<'|'>'|'\n'|'\t'|'\'|'\r'|':'|'{'|'}')\n
;

protected
HEX:0..'9'|A..'F'|a..'f'
;

protected
SUBTEMPLATE
   :   '{' (SUBTEMPLATE|ESC|~'}')* '}'
;

protected
NESTED_PARENS
   :   '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')
;

protected
COMMENT
{
   int startCol = getColumn();
}
   :   "<!
   (options {greedy=false;}
   :('\r')? '\n' {newline();}
   |.*
   )* "!" ( {startCol==1}? ('\r')? '\n' {newline();} )?
;

protected
LINE_BREAK
:  "<\\\\|>" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?
;

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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
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   */
  package org.antlr.stringtemplate.language;
  import org.antlr.stringtemplate.*;
  import java.util.*;
}

/** Match a group of template definitions beginning
 *  * with a group name declaration. Templates are enclosed
 *  * in double-quotes or <<<...>>> quotes for multi-line templates.
 *  * Template names have arg lists that indicate the cardinality
 *  * of the attribute: present, optional, zero-or-more, one-or-more. */
* Here is a sample group file:

```plaintext

group nfa;

// an NFA has edges and states
nfa(states, edges) ::= <<
digraph NFA {
  rankdir=LR;
  <states; separator="\n">
  <edges; separator="\n">
}
>>

state(name) ::= "node [shape = circle]; <name>;"

/*/  
class GroupParser extends Parser;

options {
  k=3;
}

protected StringTemplateGroup group;

public void reportError(RecognitionException e) {
  if ( group!=null ) {
    group.error("template group parse error", e);
  }
  else {
    System.err.println("template group parse error: "+e);
    e.printStackTrace(System.err);
  }
}

group[StringTemplateGroup g]
{
  this.group = g;
}
:"group" name:ID {g.setName(name.getText());}
( COLON s:ID {g.setSuperGroup(s.getText());} )?
  ( "implements" i:ID {g.implementInterface(i.getText());} )
  (COMMA i2:ID {g.implementInterface(i2.getText());} )*?
  SEMI
  ( template[g] | mapdef[g] )+

;
template[StringTemplateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
    String templateName=null;
    int line = LT(1).getLine();
}
(AT scope:ID DOT region:ID
{
    StringName=g.getMangledRegionName(scope.getText(),region.getText());
    if ( g.isDefinedInThisGroup(templateName) ) { 
        g.error("group "+g.getName()+" line "+line+": redefinition of template region: @"+
            scope.getText()+"."+region.getText());
        st = new StringTemplate(); // create bogus template to fill in
    } else {
        boolean err = false;
        // @template.region() ::= "...
        StringTemplate scopeST = g.lookupTemplate(scope.getText());
        if ( scopeST==null ) {
            g.error("group "+g.getName()+" line "+line+": reference to region within undefined template: "+
                scope.getText());
            err=true;
        }
        if ( !scopeST.containsRegionName(region.getText()) ) {
            g.error("group "+g.getName()+" line "+line+": template "+scope.getText()+" has no region called "+
                region.getText());
            err=true;
        }
        if ( err ) {
            st = new StringTemplate();
        } else {
            st = g.defineRegionTemplate(scope.getText(),
                region.getText(),
                null,
                StringTemplate.REGION_EXPLICIT);
        }
    }
    [name:ID {templateName = name.getText();}]
    if ( g.isDefinedInThisGroup(templateName) ) { 
        g.error("redefinition of template: "+templateName);
        st = new StringTemplate(); // create bogus template to fill in
    } }
else {
  st = g.defineTemplate(templateName, null);
}
}

{if ( st!=null ) {st.setGroupFileLine(line);}}
LPAREN
  (args[st]|{st.defineEmptyFormalArgumentList();})
RPAREN
DEFINED_TO_BE
(t:STRING {st.setTemplate(t.getText());}
| bt:BIGSTRING {st.setTemplate(bt.getText());})
)
  alias:ID DEFINED_TO_BE target:ID
  {g.defineTemplateAlias(alias.getText(), target.getText());}
;

args[StringTemplate st]
  :arg[st] ( COMMA arg[st] )*
;

arg[StringTemplate st]
  {StringTemplate defaultValue = null;
   :
   (ASSIGN s:STRING
    {defaultValue=new StringTemplate("$_val$_");
      defaultValue.setAttribute("_val_", s.getText());
      defaultValue.defineFormalArgument("_val_");
      defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
    }
   |ASSIGN bs:ANONYMOUS_TEMPLATE
    {defaultValue=new StringTemplate(st.getGroup(), bs.getText());
      defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
    }
  )?
  {st.defineFormalArgument(name.getText(), defaultValue);}
  :
/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
  : OPTIONAL {cardinality=FormalArgument.OPTIONAL;}
  | STAR   {cardinality=FormalArgument.ZERO_OR_MORE;}
  | PLUS   {cardinality=FormalArgument.ONE_OR_MORE;}
*/
mapdef[StringTemplateGroup g]
{
    Map m=null;
}

:name:ID
    DEFINED_TO_BE m=map
    {
        if ( g.getMap(name.getText())!=null ) {
            g.error("redefinition of map: "+name.getText());
        }
        else if ( g.isDefinedInThisGroup(name.getText()) ) {
            g.error("redefinition of template as map: "+name.getText());
        }
        else {
            g.defineMap(name.getText(), m);
        }
    }

map returns [Map mapping=new HashMap()]
    LBRACK mapPairs[mapping] RBRACK

mapPairs [Map mapping]
    : keyValuePair[mapping] (COMMA keyValuePair[mapping])*
        (COMMA defaultValuePair[mapping])?
            [defaultValuePair[mapping]]
    ;

defaultValuePair[Map mapping]
    {
        StringTemplate v = null;
    }
    :
        "default" COLON v=keyValue
            {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);};
    :

keyValuePair[Map mapping]
    {
        StringTemplate v = null;
    }
    :key:STRING COLON v=keyValue {mapping.put(key.getText(), v);}
keyValue returns [StringTemplate value=null]

`s1:BIGSTRING{value = new StringTemplate(group,s1.getText());}
`s2:STRING{value = new StringTemplate(group,s2.getText());}
[k:ID{value = ASTExpr.MAP_KEY_VALUE;}
  {value = null;}
];

class GroupLexer extends Lexer;

options {
  k=2;
  charVocabulary = \u0000..\uFFFE;
  testLiterals=false;
}

ID
options {
  testLiterals=true;
}
:('a'..'z'|'A'..'Z'|'\_') ('a'..'z'|'A'..'Z'|'0'..'9'|'\-'|'\_')*

STRING
:\"[('\\'! ( '\\'! '\" | '\\' ~'\" | ~'\" )* '\"]!

BIGSTRING
:\"<\"!
  (options {greedy=true;}:{'\r'}?\n! {'newline();}? // consume 1st \n (options {greedy=false;}) // stop when you see the >>
  :[LA(3)=='>'&LA(4)=='>']? '\r'! \n! {'newline();}? // kill last \r
  [LA(2)=='>'&LA(3)=='>']? \n! {'newline();} // kill last \n
  ['\v']? \n! {'newline();} // else keep
  \n! '>' // > escape
|.
)*
  ">>"!

ANONYMOUS_TEMPLATE
{
  List args=null;
  StringTemplateToken t = null;
  }
  :'!'  // stop when you see the >>
  :('\v')? \n! {'newline();} // else keep
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[\n\|']  // \} escape
|
)*
   ']'!
;

AT: '@';
LPAREN: '(';
RPAREN: ')';
LBRACK: '[';
RBRACK: ']';
COMMA: ',';
DOT: '.';
DEFINED_TO_BE: '::=';
SEMI: ';';
COLON: ':';
STAR: '*';
PLUS: '+';
ASSIGN: '=';
OPTIONAL: '?';

// Single-line comments
SL_COMMENT
   : "/'"
     (~("\n\'|\r\n\r")* ((\r)? \n)?
       {setType(Token.SKIP); newline();}
   ;

// Multiple-line comments
ML_COMMENT
   : "/*"
     (options {
       greedy=false;
     }
     : ('\r')? \n' {newline();}
     | .
     )"*
       "*/"
       {setType(Token.SKIP);}  
   ;

// Whitespace -- ignored
WS   : (  ' '  
     | '\\'  
     | '\f'  
     | ('\r')? \n' { newline(); }
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Otherwise, if the work is a derivative of the Library, you may 
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Any executables containing that work also fall under Section 6, 
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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**1.261 clutter-gst3 3.0.26-1.el7**

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Version 2.1, February 1999

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1.263 javax-ws-rs-api 2.0-m10

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1.264 python-blivet 0.61.15.74-1.el7

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src/gzip/zutil.h
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Glenn Randers-Pehrson
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1.268 ftplet-api 1.1.1

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1.282 libjpeg-turbo 1.2.90-8.el7
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* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfmmx fst.asm
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 * jversion.h
 *
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 *
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 */

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/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
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 *
 */

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/*
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 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 *
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
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*/
* cdjpeg.h
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*
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
/*
 * jpegcomp.h
 *
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 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

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 *
 * This file contains output colorspace conversion routines.
 */

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 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdmarker.c
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/*
 * wrppm.c
 *
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 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrppm.c
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This file contains 2-pass color quantization (color mapping) routines. These routines provide selection of a custom color map for an image, followed by mapping of the image to that color map, with optional Floyd-Steinberg dithering. It is also possible to use just the second pass to map to an arbitrary externally-given color map.

Note: ordered dithering is not supported, since there isn't any fast way to compute intercolor distances; it's unclear that ordered dither's fundamental assumptions even hold with an irregularly spaced color map.

Found in path(s):

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/*
 * jinclude.h
 *
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 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
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 * For conditions of distribution and use, see the accompanying README file.
 */
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/cderror.h
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USING THE IJG JPEG LIBRARY

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This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying
to program with the library. The sections on advanced features can be read
if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image
files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested, then the decompression
library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.
The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (e.g., a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc. is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See “Library compile-time options”, later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
... cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components
Number of color channels (samples per pixel)
in_color_space
Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */
    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen. In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of
the previous state of the object). Or you can call jpeg_destroy(), which
works for either compression or decompression objects --- this may be more
convenient if you are sharing code between compression and decompression
cases. (Actually, these routines are equivalent except for the declared type
of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy()
should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing
it is your responsibility --- jpeg_destroy() won't. Ditto for the error
handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up
in either of two ways:

* If you don't need the JPEG object any more, just call
  jpeg_destroy_compress() or jpeg_destroy() to release memory. This is
  legitimate at any point after calling jpeg_create_compress() --- in fact,
  it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call
  jpeg_abort() which works on both compression and decompression objects.
  This will return the object to an idle state, releasing any working memory.
  jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your
responsibility; neither of these routines will call term_destination().
(See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG
object that has reported an error by calling error_exit (see "Error handling"
for more info). The internal state of such an object is likely to be out of
whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.
This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);
Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

    jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width` image width and height, as scaled
- `output_height`
- `out_color_components` # of color components in out_color_space
- `output_components` # of color components returned per pixel
- `colormap` the selected colormap, if any
- `actual_number_of_colors` number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes
you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmennobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
-------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must
already be set in cinfo). Many applications will only need to use
this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See
“Special color spaces”, below, before using this. A large number of
parameters, including all per-component parameters, are set by this
routine; if you want to twiddle individual parameters you should call
jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorspace(). This is actually a subroutine of
jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated
quality setting. The quality value is expressed on the 0..100 scale
recommended by IJG (cjpeg's "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorscape() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

```
jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

  cinfo->comp_info[0].v_samp_factor = 1;
  cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see “Abbreviated datastreams”, below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width
Width and height of image
JDIMENSION image_height
int num_components
Number of color components
J_COLOR_SPACE jpeg_color_space
Colorspace of image
boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version
Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit
Resolution data from JFIF marker
UINT8 X_density
UINT8 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.
J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE  no dithering: fast, very low quality
JDITHER_ORDERED  ordered dither: moderate speed and quality
JDITHER_FS  Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
JDIMENSION output_height
int out_color_components
int output_components
int rec_outbuf_height

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.
The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colors() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jpegparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcicolor.c currently supports

- YCbCr => RGB
- YCbCr => GRAYSCALE
- RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
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(error.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

- **error_exit (j_common_ptr cinfo)**
  Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
  Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

- **output_message (j_common_ptr cinfo)**
  Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

- **format_message (j_common_ptr cinfo, char * buffer)**
  Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

- **emit_message (j_common_ptr cinfo, int msg_level)**
  Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h: ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data: you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- **term_destination (j_compress_ptr cinfo)**
  Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)  
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)  
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)  
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart(j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmaker.c if you think you'd like to implement your own resync
procedure.

term_source(j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
---------------
Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress.
more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE. The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

- You can limit buildup of unprocessed data in your input buffer.
- You can eliminate extra display passes by paying attention to the state of the library's input processing.
The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without
paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
            cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call
A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it’s probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn’t let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

enable_1pass_quant
Fixed color cube colormap
enable_external_quant
externally-supplied colormap
enable_2pass_quant	two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
colormap than was used on the prior pass, you must call
jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.

* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream.
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

    if (cinfo.quant_tbl_ptrs[n] == NULL)
        cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
    quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL */
    for (i = 0; i < 64; i++) {
        /* Qtable[] is desired quantization table, in natural array order */
        quant_ptr->quantval[i] = Qtable[i];
    }
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn’t flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It’s probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but
we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.
For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the
markers of interest will typically be near the head of the file and so will
be scanned by jpeg_read_header. Once you've established a marker handling
method, it will be used for the life of that decompression object
(potentially many datastreams), unless you change it. Marker handling is
determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

jpeg_save_markers(cinfo, marker_code, length_limit)

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.
To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
After `jpeg_start_compress()` has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
```
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then `jpeg_start_compress()` will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to `jpeg_write_raw_data()`, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, `jpeg_write_raw_data()` will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before `jpeg_start_decompress()` (it is set FALSE by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large.
enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

-----------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.
It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framewish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- `long pass_counter; /* work units completed in this pass */`
- `long pass_limit; /* total number of work units in this pass */`
- `int completed_passes; /* passes completed so far */`
- `int total_passes; /* total number of passes expected */`

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as...
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management

-------------------

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works...
with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays"; only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
-----------------------------

A number of compile-time options are available by modifying jmocrefg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both
precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORTEXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
-----------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)
The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
----------------------------------
The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/libjpeg.txt

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/*
 * jidctflt.c
 */
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/8jjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctflt.c

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/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tnG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmemsys.h
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/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jchuff.h
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/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
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ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/ jdmrgext.c
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/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
 * /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive- ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdmaster.c
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/ *
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
 * /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive- ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcprepct.c
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/ *
 * wrbmp.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.

* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.

* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrbmp.c
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/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
*   * pool-based allocation and freeing of memory;
*   * policy decisions about how to divide available memory among the virtual arrays;
*   * control logic for swapping virtual arrays between main memory and backing storage.
* The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.
* This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmemmgr.c
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  *
  * This file contains 1-pass color quantization (color mapping) routines.
  * These routines provide mapping to a fixed color map using equally spaced
  * color values. Optional Floyd-Steinberg or ordered dithering is available.
  */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jquant1.c
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* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcgrymasm.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdcolss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdcolmx.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdcolmmx.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdmrgmmx.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdmgmmasm.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcquant.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcquant3dn.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jmmxred.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdcolmmx.asm
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*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/turbojpeg-jni.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java

No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper
-----------------------

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------
The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

/*
 * transsupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
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  * 2. Altered source versions must be plainly marked as such, and must not be
  * 3. This notice may not be removed or altered from any source distribution.

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

/*
 * jddctmgr.c
 *
*Found in path(s):
*/
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* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.         *
* There is no trace of the LZW algorithm in this file.                  *
******************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

/*
 * This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.

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CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

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Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file contains the main buffer controller for decompression.
The main buffer lies between the JPEG decompressor proper and the
post-processor; it holds downsampled data in the JPEG colorspace.

Note that this code is bypassed in raw-data mode, since the application
supplies the equivalent of the main buffer in that case.

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This file contains the main buffer controller for decompression.
The main buffer lies between the JPEG decompressor proper and the
post-processor; it holds downsampled data in the JPEG colorspace.

Note that this code is bypassed in raw-data mode, since the application
supplies the equivalent of the main buffer in that case.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*
* jdcolor.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*
* djpeg.c
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* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate
baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo
is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform
libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward
TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-
bitr
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by
Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and
in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG
compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/ReadMe.rtf
No license file was found, but licenses were detected in source scan.

*/
* jmennobs.c
* *
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.

* This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().

* This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images.

* Note that the max_memory_to_use option is ignored by this implementation.

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmnnobs.c

No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdgif.c

No license file was found, but licenses were detected in source scan.

# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#!/bin/sh

if [ ! "`id -u" = "0" ]; then
    echo "ERROR: This script must be executed as root"
    exit -1
fi

PACKAGE=@PACKAGE_NAME@  
MACPACKAGE=com.$PACKAGE.$PACKAGE  
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
    LSBOM='lsbom -s -f -l "$RECEIPT"/Contents/Archive.bom'
else
    LSBOM='pkgutil --files "$MACPACKAGE"
fi

mylsbom()
{
    $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...  
EXITSTATUS=0  
pushd /
mylsbom | while read file; do
if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
echo Removing package receipt ...
rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
echo Forgetting package $MACPACKAGE ...
pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPv9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
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*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcapistd.c

No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
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 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead scan script from text file
 * -quality N,[N,...] Set quality ratings
 * -qslots N,[N,...] Set component quantization table selectors
 * -sample HxV,[HxV,...] Set component sampling factors
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdswitch.c

No license file was found, but licenses were detected in source scan.
/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
 * we suggest using an external filtering program such as pnmconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
 * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
 * where SF = (smoothing_factor / 1024).
 * Currently, smoothing is only supported for 2h2v sampling factors.
 */
Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

From c51b66e6beace2adec0cfbe42d25cb418ed0e02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific JERR_PPM_TOOLARGE enum value.

Fixes #258

---
cderror.h | 5 +++--
rdbmp.c | 7 ++++++-
rdppm.c | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* @@ -48,6 +48,7 @@
#ifdef PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +74,8 @@
ifdef PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
+ * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
+
 } bmap_source_struct;

@@ -124,6 +125,7 @@
 outptr = source->pub.buffer[0];
 for (col = cinfo->image_width; col > 0; col--) {
   t = GETJSAMPLE(*inptr);
+   if (t >= cmaplen)
+      ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
   *outptr++ = colormap[0][t];
   *outptr++ = colormap[1][t];
   *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@

((i_common_ptr) cinfo, JOOL:image,
(JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
/* and read it from the file */
read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
        JSAMPROW pixrow;/* FAR pointer to same */
        size_t buffer_width;/* width of I/O buffer */
        JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-       int maxval;
+       unsigned int maxval;
    } ppm_source_struct;
}

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
    }

    if (val > maxval)
-       ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+       ERREXIT(cinfo, JERR_PPM_OUTOF RANGE);

        return val;
    }
--
2.17.2

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORI9tmG/libjpeg-turbo12-CVE-2018-14498.patch

No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains Huffman entropy decoding routines.
 * *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
   ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains Huffman entropy encoding routines.
* *
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
   ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/ *
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* *
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
* 
* Rescaling a PPM that has a maxval unequal to MAXISAMPLE is not
* currently implemented.
* */
/* Portions of this code are based on the PBPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.
/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1p9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *cjpeg [options] inputfile outputfile
 *cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
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Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

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* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downsampled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
* /

Found in path(s):
*/
 */
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
*/
* jcparam.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/ *
* jcinit.c
*

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/ *
* jedctmgr.c
*

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
* */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcdctmgr.c

No license file was found, but licenses were detected in source scan.

/ *
* jccolor.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
* */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jccolor.c

No license file was found, but licenses were detected in source scan.

/ *
* jidctred.c
* 
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* 
* The implementation is based on the Loeffler, Lichtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
of the normal LL&M code, then simplifying as much as possible.

1x1 is trivial: just take the DC coefficient divided by 8.

See jidctint.c for additional comments.

/*

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*

* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
  * some other language.
* A set of error-reporting macros are defined too. Some applications using
  * the JPEG library may wish to include this file to get the error codes
  * and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#--Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API.  libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru.  The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/%{__lib}/doc exampledir=/opt/%{name}/doc
rm - f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}//*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean

rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpegint.h

No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdapimin.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.090/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctfst.c

No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.
These images are (c) their respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.
/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/114833252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples
%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jmmsxint.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jmmsxint-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jmmsxint-64.asm
No license file was found, but licenses were detected in source scan.
/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdcoefct.c

No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library.  These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c.  But also see jparam.c for
 * parameter-setup helper routines, jomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcapimin.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE
This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
- * A subroutine library for JPEG compression and decompression.
- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

Cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.
The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
  * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
  * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.
The decompressor library contains the following main elements:

**JPEG proper:**
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

**Postprocessing:**
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***
It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create
different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
           |                |
    --------------- controller ---------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a
higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
       |-- Downsampling

Main controller --|
       |-- Forward DCT, quantize
   |-- Coefficient controller --|
       |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted
by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the
library knows how to write to a stdio stream or to a memory buffer;
for other behaviors, the surrounding application may provide its own
destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
(with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
determines handling of nonfatal errors. The surrounding application may
override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
This object represents an optional callback to the surrounding application:
if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are
defined as separate objects in order to simplify application-specific
customization of the JPEG library. A surrounding application may override
individual methods or supply its own all-new implementation of one of these
objects. The object interfaces for these objects are therefore treated as
part of the application interface of the library, whereas the other objects
are internal to the library.

The error handler and memory manager are shared by JPEG compression and
decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 | |-- Coefficient controller --|
 | |-- Dequantize, Inverse DCT
Main controller --|
 | |-- Upsampling
 | |-- Postprocessing controller --| |-- Colorspace conversion
 | |-- Color quantization
 | |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects
shown are:

* Main controller: buffer controller for the subsampled-data buffer, which
holds the output of JPEG decompression proper. This controller's primary
task is to feed the postprocessing procedure. Some upsampling algorithms
may require context rows above and below the current row group; when this
is true, the main controller is responsible for managing its buffer so as
to make context rows available. In the current design, the main buffer is
always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data.
This controller handles MCU disassembly, including deletion of any dummy
DCT blocks at the right or bottom edge. When reading a multiscan JPEG
file, this controller is responsible for buffering the full image.
(Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of
subsampled data is processed per call, even when the source JPEG file is
noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call.
For progressive JPEG decoding, the coefficient controller supplies the prior
coefficients of each MCU (initially all zeroes), which the entropy decoder
modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we
merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used
that emit fewer samples per DCT block, not the full 8x8. Works on one DCT
block at a time.

* Postprocessing controller: buffer controller for the color quantization
input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this
controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more
general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module, this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module
also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color
conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space,
and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an
externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.
Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.
*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.
This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT: lasts until master record is destroyed
* JPOOL_IMAGE: lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage
The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)
during the initial setup phase, i.e., in their jinit_xxx routines.

2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
allocated during initial setup.

3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available
   for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
ever-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoefct.c for progressive
JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end. The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines
  (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image
descriptor.
This implies that control modules must avoid making copies of the image
height, and must re-test for termination after each MCU row. This would
be easy enough to do.
In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

*/
* jinput.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
* jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
Found in path(s):
* /opt/cola/permits/1148333252_1619430319.090/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.090/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.090/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/ *
* jctrans.c
* *
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/ *
* jmorecfg.h
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/ *
* jsimd_x86_64.c
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmaintct.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/
/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#ifndef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.
A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don’t use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.
Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORLP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

;--------------------------------------------------------------------------------------------------------------

; pseudo-registers to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1

%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8
ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly
divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
===============

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).
[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo’s accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was
enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0 =====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)

================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See
README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 3003
[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmGr/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 * Redistributions of source code must retain the above copyright notice,
 * this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
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 * and/or other materials provided with the distribution.
 * Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
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 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcuestest.c
* This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Modifications:
  * Copyright (C) 2009, 2011, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains code for merged upsampling/color conversion.
  *
  * This file combines functions from jdsample.c and jdcolor.c;
  * read those files first to understand what's going on.
  *
  * When the chroma components are to be upsampled by simple replication
  * (ie, box filtering), we can save some work in color conversion by
  * calculating all the output pixels corresponding to a pair of chroma
  * samples at one time. In the conversion equations
  * \[ R = Y + K1 \times Cr \]
  * \[ G = Y + K2 \times Cb + K3 \times Cr \]
  * \[ B = Y + K4 \times Cb \]
  * only the Y term varies among the group of pixels corresponding to a pair
  * of chroma samples, so the rest of the terms can be calculated just once.
  * At typical sampling ratios, this eliminates half or three-quarters of the
  * multiplications needed for color conversion.
  *
  * This file currently provides implementations for the following cases:
  * \( \text{YCbCr} \Rightarrow \text{RGB} \) color conversion only.
  * Sampling ratios of 2h1v or 2h2v.
  * No scaling needed at upsample time.
  * Corner-aligned (non-CCIR601) sampling alignment.
  * Other special cases could be added, but in most applications these are
  * the only common cases. (For uncommon cases we fall back on the more
  * general code in jdsample.c and jdcolor.c.)
  */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 */

* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 */

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 */

* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
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*  
* This file contains upsampling routines.
*  
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*  
* An excellent reference for image resampling is
*/

* libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
  to include only information relevant to libjpeg-turbo, to wordsmith certain
  sections, and to remove impolitic language that existed in the libjpeg v8
  README. It is included only for reference. Please see README-turbo.txt for
  information specific to libjpeg-turbo.
The Independent JPEG Group's JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.
If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

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2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of Compuserve Incorporated. GIF(sm) is a Service Mark property of Compuserve Incorporated."

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================
The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/README

No license file was found, but licenses were detected in source scan.

/*
* jdct.h
* *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This include file contains common declarations for the forward and
inverse DCT modules. These declarations are private to the DCT managers
(jdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
The individual DCT algorithms are kept in separate files to ease
machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permissions/1148333252_1619430319.090/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.
/*
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
*/

/*
 * cdjpeg.c
 */
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jpeglib.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; Permission is granted to anyone to use this software for any purpose,
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; in a product, an acknowledgment in the product documentation would be
; appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;===============================================================================
;
; System-dependent configurations

ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
 ; * Microsoft Visual C++
 ; * MinGW (Minimalist GNU for Windows)
 ; * CygWin
 ; * LCC-Win32

 ; -- segment definition --

ifdef __YASM_VER__
 %define SEG_TEXT .text align=16
 %define SEG_CONST .rdata align=16
#else
 %define SEG_TEXT .text align=16 public use32 class=CODE
 %define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

eelifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
 ; * Microsoft Visual C++

 ; -- segment definition --

ifdef __YASM_VER__
 %define SEG_TEXT .text align=16
 %define SEG_CONST .rdata align=16
#else
 %define SEG_TEXT .text align=16 public use64 class=CODE
 %define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
 %define EXTN(name) name			; foo() -> foo

eelifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)--------
 ; * Borland C++ (Win32)

 ; -- segment definition --
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; -----(nasm -elf[64] -DELF ...)----------
; * Linux
; * BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name			; foo() -> foo

%elifdef AOUT; -----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; BSD-style a.out supports PIC

%elifdef MACHO; -----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
; define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ---(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER qword ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; ---------------------------------------------------------------------------
;  External Symbol Name
;
%ifndef EXTN
%define EXTN(name)   _ %+ name		; foo() -> _foo
%endif

; ---------------------------------------------------------------------------
;  Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%define PIC
%endif

%ifndef PIC ; -------------------------------------------
%ifdef GOT_SYMBOL,_MACHO_PIC_
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got, sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call $_geteip
add ecx, byte (%%ref - $)
jmp short %%adjust
%$_geteip:
move cx, POINTER [esp]
ret

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 3022
push ebp
xor ebp, ebp ; ebp = 0
%ifidni %1, ebx ; (%1 == ebx)
    lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C ; 8D,9C
jmp near const_base ; E9,(const_base-%ref)
%ref:
%else ; (%1 != ebx)
    lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C ; 8D,8C
jmp near const_base ; E9,(const_base-%ref)
%ref: mov %1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%endif ; GOT_SYMBOL != _MACHO_PIC_ ----------------
%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff
%imacro get_GOT 1
extern GOT_SYMBOL
call %geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %done
%geteip:
mov %1, POINTER [esp]
ret
%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ -----------------
%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1, %2
%endmacro

%else; !PIC -----------------------------------------
%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -----------------------------------------

; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ";.balign n,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
  times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1)
    db 0x90 ; nop
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 : lea ebx,[ebx+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 : lea ebp,[ebp+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6
    db 0x8D,0xAD,0x00,0x00,0x00 : lea ebp,[ebp+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4
    db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3
    db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2
    db 0x8B,0xED ; mov ebp,ebp
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1
    db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifndef WIN64
%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/
/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.
/
* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the ”normal” portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, 
NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as 
fast as libjpeg, all else being equal. On other types of systems,
libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue 
of its highly-optimized Huffman coding routines. In many cases, the 
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG 
codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less 
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features 
colorspace extensions that allow it to compress from/decompress to 32-bit and 
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java 
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated 
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and 
VirtualGL projects made numerous enhancements to the codec in 2009, and in 
early 2010, libjpeg-turbo spun off into an independent project, with the goal 
of making high-speed JPEG compression/decompression technology available to a 
broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features color space extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

** License

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
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*******************************************************************************
** Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=================================
Installation Directory
=================================

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:/libjpeg-turbo[-gcc][-64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=================================
Replacing libjpeg at Run Time
=================================

Un*x
If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

\[ \text{CPATH}=/opt/libjpeg-turbo/include \]
and
\[ \text{LIBRARY\_PATH}=/opt/libjpeg-turbo/{lib} \]

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

\[ \text{CPATH}=/c/libjpeg-turbo-gcc[64]/include \]
and
\[ \text{LIBRARY\_PATH}=/c/libjpeg-turbo-gcc[64]/lib \]

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.)

On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.
To force a Un*x or MinGW application to link against the static version of
libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command
line.

To build Visual C++ applications using libjpeg-turbo, add
c:/libjpeg-turbo[64]\include to the system or user INCLUDE environment
variable and c:/libjpeg-turbo[64]\lib to the system or user LIB environment
variable, and then link against either jpeg.lib (to use the DLL version of
libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colorspace Extensions
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed
directly from (and decompressed directly to) buffers that use BGR, BGRX,
RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new
colorspace constants:

JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space
(decompression) to one of these values will cause libjpeg-turbo to read the
red, green, and blue values from (or write them to) the appropriate position in
the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile
time with:

#ifndef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation
that does not support them will result in a "Bogus input colorspace" error.
Applications can trap this error in order to test whether run-time support is
available for the colorspace extensions.
When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#define JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

======================================================================

In-Memory Source/Destination Managers
======================================================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating
the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============
Fast Integer Forward DCT at High Quality Levels
===============

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in Targa format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/114833252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jcphuff.c
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines for progressive JPEG.
* We do not support output suspension in this module, since the library
* currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/cola/permits/114833252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcomapi.c
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface routines that are used for both
* compression and decompression.
Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

*/

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/*@
 * Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/*@
 * Does your compiler support the declaration "unsigned char"?
 * How about "unsigned short"?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/*@
 * Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
#define void char */
/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* define const */

/* Define this if an ordinary "char" type is unsigned. */
/* If you're not sure, leaving it undefined will work at some cost in speed. */
/* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */
/* undef CHAR_IS_UNSIGNED */

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
/* define HAVE_STDDEF_H */

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
/* define HAVE_STDLIB_H */

/* Define this if your system does not have an ANSI/SysV <string.h>, */
/* but does have a BSD-style <strings.h>. */
/* undef NEED_BSD_STRINGS */

/* Define this if your system does not provide typedef size_t in any of the */
/* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in */
/* <sys/types.h> instead. */
/* undef NEED_SYS_TYPES_H */

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, */
/* unless you are using a large-data memory model or 80386 flat-memory mode. */
/* On less brain-damaged CPUs this symbol must not be defined. */
/* (Defining this symbol causes large data structures to be referenced through */
/* "far" pointers and to be allocated with a special version of malloc.) */
/* undef NEED_FAR_POINTERS */

/* Define this if your linker needs global names to be unique in less */
/* than the first 15 characters. */
/* undef NEED_SHORT_EXTERNAL_NAMES */

/* Although a real ANSI C compiler can deal perfectly well with pointers to */
/* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI */
/* and pseudo-ANSI compilers get confused. To keep one of these bozos happy, */
/* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you */
/* actually get "missing structure definition" warnings or errors while */
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifndef _WIN32
#ifndef __RPCNDR_H__/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifndef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */
/* Define this if you want to name both input and output files on the command line, rather than using stdout and optionally stdin. You MUST do this if your system can't cope with binary I/O to stdin/stdout. See comments at head of cjpeg.c or djpeg.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files. * This is crucial under MS-DOS, where the temporary "files" may be areas of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb"). * This is necessary on systems that distinguish text files from binary files, * and is harmless on most systems that don't. If you have one of the rare systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEGL_DJPEG */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.e17-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/fjconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBPLUS library, which is:
**
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**
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*/

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* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdppm.c

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1.284.webkit 2.4.11-2.el7

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freedom to share and change it. By contrast, the GNU General Public
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This license, the Library General Public License, applies to some
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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That's all there is to it!

1.285 python-smbc 1.0.13-8.el7
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1.292 gnome-shell-extensions 3.28.1-7.el7

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW    General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES  Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO       Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc  How to configure and install the IJG software.
usage.doc    Usage instructions for cjpeg, djpeg, jpegtran,
             rdjpgcom, and wrjpgcom.
*.1          Unix-style man pages for programs (same info as usage.doc).
wizard.doc   Advanced usage instructions for JPEG wizards only.
change.log   Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc  How to use the JPEG library in your own programs.
example.c    Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren’t implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear...
whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration
* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffi@colmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package
* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings
* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `~SSLContext.load_verify_locations()`.

* Keichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.300 ibus-m17n 1.3.4-13.el7

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 */

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* /opt/ws_local/PERMITS_SQL/1046144794_1589880088.21/0/junixsocket-common-2.3.2-sources-jar/org/newsclub/net/unix/Closeables.java
* /opt/ws_local/PERMITS_SQL/1046144794_1589880088.21/0/junixsocket-common-2.3.2-sources-jar/org/newsclub/net/unix/AFUNIXSocket.java
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1.306 gnome-initial-setup 3.28.0-2.el7

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<interface>
  <!-- interface-requires gtk+ 3.0 -->
  <template class="GisEulaPage" parent="GisPage">
    <property name="needs-accept">True</property>
    <child>
      <object class="GtkBox" id="box">
        <property name="visible">True</property>
        <property name="orientation">vertical</property>
        <property name="can_focus">False</property>
        <property name="halign">fill</property>
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* /opt/cola/permits/1126579332_1611695837.52/0/stilts-stomp-api-0-1-26-redhat-3-sources.jar/org/projectodd/stilts/stomp/InvalidTransactionException.java
* /opt/cola/permits/1126579332_1611695837.52/0/stilts-stomp-api-0-1-26-redhat-3-sources.jar/org/projectodd/stilts/stomp/NotConnectedException.java
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* /opt/cola/permits/1126579332_1611695837.52/0/stilts-stomp-api-0-1-26-redhat-3-sources-jar/META-INF/maven/org.projectodd.stilts/stilts-stomp-api/effective-pom.xml

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**1.308 flatpak 1.0.9-8.el7_7**

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.309 jboss-as-clustering-singleton

7.3.0.Final-redhat-14

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1.311 startup-notification 0.12-8.el7

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/terminal/Size.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/utils/NonBlockingReaderImpl.java
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/utils/NonBlocking.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/terminal/BasicTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources.jar/org/jline/terminal/impl/AbstractTerminal.java
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jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/Curses.java
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/impl/NonBlockingPumpReader.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/PumpReader.java
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
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black
maroon
green
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a
skyblue2
chartreuse2a
darkolivegreen3a
palegreen3a
darkseagreen3
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skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
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red3
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mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
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mediumorchid3
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rosybrown
grey63
mediumpurple2a
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gold3
darkkhaki
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grey69
lightsteelblue3
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/OSUtils.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
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can_change, ccc, cc
cceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
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cr_cancels_micro_mode, crxm, YB
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max_micro_address, maddr, Yd
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output_res_horz_inch, orhi, Yk
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change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
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clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
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cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, Il
cursor_up, cuu1, up
cursor_visible, cvvis, vs
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delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
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form_feed, ff, ff
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d_key_snext, kNXT, %c
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d_key_sprevious, kPRV, %e
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d_key_sright, kRIT, %i
d_key_srsume, kRES, %j
d_key_ssave, kSAV, %1
d_key_ssuspend, kSPD, %2
d_key_stab, khts, kT
d_key_sundo, kUND, %3
d_key_suspend, kspd, &7
d_key_undo, kund, &8
d_key_up, kcuu1, ku
d_keypad_local, rmkx, ke
d_keypad_xmit, smkx, ks
lab_f0, lf0, l0
d_lab_f1, lf1, l1
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d_lab_f7, lf7, l7
d_lab_f8, lf8, l8
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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orig_pair, op, op
pad_char, pad, pc
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parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro, mcud, Zf
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save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
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set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
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set1_des_seq, s1ds, s1
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set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
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set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
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enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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1.322 json-cpp 1.9.4

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1.324 gtk 3.22.30-3.el7

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
  * in C (faster - it is executed many times during system startup).
  *
  * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
  * public domain.

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> > > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?
Thanks again,

/~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
the technique Jimenez's MLAA in the config options of Mesa. We did that
just to allow them to solve license issues. This exception should be for
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of
license complications. Hope current one is good for Fedora, if not
please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing
Fedora (a popular distribution of Linux) for license compliance and I
came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following
   statement:
   *
   * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
   * Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
   *
   * Only for use in the Mesa project, this point 2 is filled by naming the
   * technique Jimenez's MLAA in the Mesa config options.
That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.330 python-subprocess32 3.2.6-14.el7
1.330.1 Available under license:
A. HISTORY OF THE SOFTWARE
===========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
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1.331 libxcursor 1.1.15-1.el7

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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
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1.344 dmraid 1.0.0.rc16-28.el7

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1.347 cronie 1.4.11-23.el7

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1.348 commons-compress 1.5

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1.349 jboss-sasl 1.0.3.Final-redhat-1

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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/stax/ValidatingStaxWriter.java

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Ajay Joshi <jaj@google.com>
Balzs Dan <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlere@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
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Ji Sigursson <joj@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
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Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrkr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
Sigurur geirsson <sigg@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

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1.355 stix-fonts 1.1.0-5.el7

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%global fontname stix
%global fontconf 61-%{fontname}

%global archivename STIXv%{version}

%global common_desc \nThe mission of the Scientific and Technical Information Exchange (STIX) font \ncreation project is the preparation of a comprehensive set of fonts that serve \nthe scientific and engineering community in the process from manuscript \ncreation through final publication, both in electronic and print formats.

Name: %{fontname}-fonts
Version: 1.1.0
Release: 5%{?dist}
Summary: Scientific and engineering fonts

Group: User Interface/X
License: OFL
URL: http://www.stixfonts.org/
Source0: http://downloads.sourceforge.net/stixfonts/%{archivename}.zip
Source10: stix-fonts-fontconfig.conf
Source11: stix-fonts-math-fontconfig.conf

BuildArch: noarch
BuildRequires: fontpackages-devel
Requires: fontpackages-filesystem

Obsoletes: stix-fonts-doc < 1.1.0

%description
%common_desc

This package includes base Unicode fonts containing most glyphs for standard use in the usual four styles.

%_font_pkg -f %{fontconf}.conf STIX-*otf
%doc License/*.pdf *.pdf

%package -n %{fontname}-math-fonts
Summary: Scientific and engineering fonts, PUA glyphs
Requires: %{name} = %{version}-%{release}
Obsoletes: stix-integrals-fonts < 1.1.0
Obsoletes: stix-pua-fonts < 1.1.0
Obsoletes: stix-sizes-fonts < 1.1.0
Obsoletes: stix-variants-fonts < 1.1.0

%description -n %{fontname}-math-fonts
%common_desc

This package includes one symbol font completing the four faces in the main %{name} package. It replaces the heap of confusing fontlets in the first Stix release.

%_font_pkg -n math -f %{fontconf}-math.conf STIXMath*otf

%prep
%setup -q -c

%build

%install
rm -fr %{buildroot}
install -m 0755 -d %{buildroot} %{_fontdir}
install -m 0644 -p Fonts/STIX-Word/*.otf %{buildroot} %{_fontdir}
install -m 0755 -d %{buildroot} %{_fontconfig_templatedir} \%
%{buildroot} %{_fontconfig_confdir}
install -m 0644 -p %{SOURCE10} \%
%{buildroot} %{_fontconfig_templatedir}/%{fontconf}.conf
install -m 0644 -p %{SOURCE11} \

for fconf in %{fontconf}.conf \
    %{fontconf}-math.conf ; do \
    ln -s %{_fontconfig_templatedir}/$fconf \
    %{buildroot}%{_fontconfig_confdir}/$fconf \
    done

%clean
rm -fr %{buildroot}

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.1.0-5
  - Mass rebuild 2013-12-27

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Thu Nov 08 2012 Stanislav Ochotnicky <sochotnicky@redhat.com> - 1.1.0-3
  - Upstream changed their tarball with new pdf, rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sun Jul 8 2012 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 1.1.0-1
  Update to new stable release
  Major refactoring now that some sanity prevailed upstream in font naming
  Be careful if you used the old font family names

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 25 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 1.0.0-1
  Update to non-beta release
  Switch licensing to OFL
  Add -doc subpackage

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - 0.9-13
  Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild
* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
- 0.9-12
Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Feb 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-11
prepare for F11 mass rebuild, new rpm and new fontpackages

* Fri Jan 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-10
Convert to new naming guidelines

* Sun Nov 23 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-9
rpm-fonts renamed to fontpackages

* Fri Nov 14 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-8
Rebuild using new rpm-fonts

* Fri Jul 11 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-7
Fedora 10 alpha general package cleanup

* Thu Nov 1 2007 Nicolas Mailhot <nicolas.mailhot at laposte.net>
- 0.9-6
Add some fontconfig aliasing rules
- 0.9-4
Initial experimental packaging

Found in path(s):
* /opt/cola/permits/1141013441_1614921652.47/0/stix-fonts-1.1.0-5.el7-1.src.rpm-cosi-expand-archive-
  fSeyKmQq/stix-fonts.spec

**1.356 khmeros-fonts 5.0-17.el7**

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1.357 jboss-as-clustering-jgroups 7.3.0.Final-redhat-14

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1.358 xorg-x11-drv-ati 19.0.1-2.el7

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.368 ghostscript-fonts 5.50-32.el7
1.368.1 Available under license:

Date: Mon, 21 Jul 2008 11:43:35 -0600
From: Kevin Hartig <kevin.hartig@gmail.com>
To: "Tom "spot" Callaway" <tcallawa@redhat.com>
Subject: Re: Licensing question

Hi Tom,

You found the right person. :-)
All the addresses listed except kevin.hartig@gmail.com are no longer valid.

I'd be happy to relicense the fonts under SIL Open Font License. What do I need to do in order to bundle the new license with the font?

-kevin.

Tom "spot" Callaway wrote:
> Hi,
> 
> I'm looking for the Kevin Hartig who is listed as the copyright holder
> for the Calligraphic-Hiragana (fhirw.gsf) and Calligraphic-Katakana
> (fkarw.gsf) Fonts. Are you that Kevin?
> 
> If so, your fonts are currently included in the Ghostscript Font
> collection under the following license terms:
> 
> These copyrighted fonts were developed by Kevin Hartig. Permission is
> granted to freely distribute them in entirety along with this
> statement.
> This is shareware. If you decide to use these fonts please contribute
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> development.
> Questions and comments may be sent to:
We would like to include these fonts in Fedora (a popular distribution of Linux), but the license is not a Free License. Would you be willing to relicense your fonts under a Free License?

We recommend the SIL Open Font License (http://scripts.sil.org/OFL_web), but we have a list of acceptable Font Licenses here:

http://fedoraproject.org/wiki/Licensing/Fonts

Thanks in advance, and apologies if you are not the copyright holder,

Tom Callaway, Fedora Legal

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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1.369 tiny-xml 2.6.2-6

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* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/docs/tinyxml_8h_source.html

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TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.


There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
<!DOCTYPE Archiv [
<!ELEMENT Comment (#PCDATA)>
because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>
  <li> <b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++. </li>
  <li> <b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling. </li>
</ul>

<h2> Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.
Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINXXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

- If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8.
- If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.
- Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML_ENCODING_LEGACY ) or LoadFile( filename, TIXML_ENCODING_LEGACY ). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.
It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding
of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can
handle all languages, at the same time, as long as the XML is encoded
in UTF-8. That can be a little tricky, older programs and operating systems
tend to use the "default" or "traditional" code page. Many apps (and almost all
modern ones) can output UTF-8, but older or stubborn (or just broken) ones
still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.
Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The <a href="http://skew.org/xml/tutorial/">Skew.org link</a> does a great
job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian,
and Simplified Chinese. (Hopefully they are translated correctly). The file
"utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that
if you don't have the correct fonts (Simplified Chinese or Russian) on your
system, you won't see output that matches the GIF file even if you can parse
it correctly. Also note that (at least on my Windows machine) console output
is in a Western code page, so that Print() or printf() cannot correctly display
the file. This is not a bug in TinyXML - just an OS issue. No data is lost or
destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special
characters. Namely:

@verbatim
&amp;&
&amp;&lt;&
&amp;gt;>
&amp;quot;"
&amp;apos;
@endverbatim

These are recognized when the XML document is read, and translated to there
UTF-8 equivalents. For instance, text with the XML of:

@verbatim
Far &amp; Away
@endverbatim

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax "&amp;#xA0;" or "&amp;#160;" are both to the non-breaking space character.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE* ). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
- Integrates with standart C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.
C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello_____world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>
Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
                @endverbatim
            Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

            @verbatim
            TiXmlHandle docHandle( &document );
            if ( child2 )
            {
                // do something useful
            @verbatim
Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can tracks the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>
<ul>
<li>tinyxml: tinyxml library, non-STL</li>
<li>tinyxmlSTL: tinyxml library, STL</li>
<li>tinyXmlTest: test app, non-STL</li>
<li>tinyXmlTestSTL: test app, STL</li>
</ul>

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>
Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2>How TinyXML works.</h2>
An example is probably the best way to go. Take:

```xml
<?xml version="1.0" standalone="no">
<!-- Our to do list data -->
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold></Item>
<Item priority="2"> Do bills</Item>
</ToDo>
```

Its not much of a To Do list, but it will do. To read this file
(say "demo.xml") you would create a document, and parse it in:
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@verbatim
<?xml version="1.0" standalone="no">
@endverbatim

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->
@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

@verbatim
Go to the
@endverbatim

A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.
@verbatim
@bold
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim
TiXmlDocument"demo.xml"
TiXmlDeclaration"version='1.0'" "standalone=no"
TiXmlComment" Our to do list data"
TiXmlElement"ToDo"
TiXmlElement"Item" Attributes: priority = 1
TiXmlText"Go to the "
TiXmlElement"bold"
TiXmlText"Toy store!"
TiXmlElement"Item" Attributes: priority=2
TiXmlText"Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

<h2> License </h2>

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.


I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton

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3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/tinyxmlparser.cpp

No license file was found, but licenses were detected in source scan.

/*
 www.sourceforge.net/projects/tinyxml
 Original code by Lee Thomason (www.grinninglizard.com)

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/tinyxml.h
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/tinyxml.cpp
No license file was found, but licenses were detected in source scan.

<p>TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.</p>

<p>TinyXML is released under the zlib license:</p>

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/docs/index.html

No license file was found, but licenses were detected in source scan.

/*
 www.sourceforge.net/projects/tinyxml

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/tinystr.cpp
* /opt/ws_local/PERMITS_SQL/1025049081_1591388573.71/0/tinyxml-2-6-2-tar-gz/tinyxml/tinystr.h
VIM REFERENCE MANUAL    by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

 === begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:
   1) This license text must be included unmodified.
   2) The modified Vim must be distributed in one of the following five ways:
      a) If you make changes to Vim yourself, you must clearly describe in
         the distribution how to contact you. When the maintainer asks you
         (in any way) for a copy of the modified Vim you distributed, you
         must make your changes, including source code, available to the
         maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the
maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned
under c), you can distribute it without the source code for the
changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute
the changes to the Vim maintainer without fee or restriction, and
permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding modified Vim, or as long
as possible.

e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.

3) A message must be added, at least in the output of the ".:version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================

Kibaale Children's Centre *KCC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.
The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I’m raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation
Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.
Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland. Postbank, nr. 4548774 IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q The e-mail address for sending the money to is: Bram@iccf-holland.org For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774 Swift code: INGB NL 2A IBAN: NL95 INGB 0004 5487 74 under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117 Swift code: RABO NL 2U under the name "Bram Moolenaar", Lisse Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland
This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
/*
 * Copyright (C) 1989-95 GROUPE BULL
 *
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 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 * sell copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
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 * The above copyright notice and this permission notice shall be included in
 * all copies or substantial portions of the Software.
 *
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 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
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 */

Arnaud LE HORS      BULL Research FRANCE -- Koala Project
                  (XPM - X PixMap format version 2 & 3)
                  Internet:  lehors@sophia.inria.fr
Surface Mail:       Arnaud LE HORS, INRIA - Sophia Antipolis,
                  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.371 restreasy-jax-rs 2.3.7.Final-redhat-2
1.371.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**
 * Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught
 * internally
 * by the Resteasy runtime and wrapped with an instance of WriterException.
 * *
 * If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their
interceptors, then write an exception
* mapper for WriterException.
 *
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
 *
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/org/jboss/resteasy/spi/WriterException.java
No license file was found, but licenses were detected in source scan.

/**
 * Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught
 * internally
 * by the Resteasy runtime and wrapped with an instance of ReaderException.
 * 
 * If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an
 * exception
 * mapper for ReaderException.
 * 
 * Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
 *
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/org/jboss/resteasy/spi/ReaderException.java
No license file was found, but licenses were detected in source scan.

/**
 * Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * 
 * Example:</p>
 * <p>
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <br/>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * 
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>
* </p>
* <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64 set to this behavior now, although earlier versions
* broke lines by default.</p>
* </p>
* <p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
* </p>
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* <p>to compress the data before encoding it and then making the output have newline characters.</p>
* </p>
* <p>Also...</p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* </p>
* </p>
* Change Log:
* </p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* </ul>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* </ul>
* <li>v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* </li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
* method.</li>
* </li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* </li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the { {@link #encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff)."
<ul><li>v2.3.1 - Added [link #encodeBytesToBytes(byte[], int, int, int)] and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.</li></ul>
<ul><li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:</li></ul>
<ul><li>Does not break lines, by default. This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>.</li></ul>
<ul><li>Threw exceptions instead of returning null values. Because some operations (especially those that may permit the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and thought, I've changed the behavior of the methods to throw java.io.IOException exceptions rather than return null if ever there's an error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done this way to begin with.</li></ul>
<ul><li>Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were ever there.</li></ul>
<ul><li>Threw NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed arrays are null or offsets are invalid.</li></ul>
<ul><li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before for people who were thorough in their own projects and then had gobs of javadoc warnings on this file.</li></ul>
<ul><li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~&lt; 40 bytes).</li></ul>
<ul><li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:</li></ul>
<ul><li>The default is RFC3548 format.</li></ul>
<ul><li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. <a href="http://www.faqs.org/rfcs/rfc3548.html">http://www.faqs.org/rfcs/rfc3548.html</a></li></ul>
<ul><li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in <a href="http://www.faqs.org/qa/rfc2-1940.html">http://www.faqs.org/qa/rfc2-1940.html</a></li></ul>
<ul><li>Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a> for contributing the new Base64 dialects.</li></ul>
<ul><li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li></ul>
<ul><li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  * encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options.
  * Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (int's that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using decode(String s, boolean gzipCompressed )
  * Added the ability to "suspend" encoding in the Output Stream so
  * you can turn on and off the encoding if you need to embed base64
  * data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream passes on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

I am placing this code in the Public Domain. Do with it as you will.
This software comes with no guarantees or warranties but with
plenty of well-wishing instead!
Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.

@author Robert Harder
@author rob@iharder.net
@version 2.3.7

Found in path(s):
/opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources.jar/org/jboss/resteasy/util/Base64.java
No license file was found, but licenses were detected in source scan.

Apache License, Version 2.0
http://www.apache.org/licenses/LICENSE-2.0

Found in path(s):
/opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources.jar/META-
1.372 perl-time-local 1.2300-2.el7

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*/opt/cola/permits/1111238447_160786017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/RecordOperation.java
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  jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java

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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/jboss/JBossWorkManagerUtils.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/OC4JJtaTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java

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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/work/DelegatingWork.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/transaction/TransactionSystemException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAware.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
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  jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
  /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
  jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
  /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
  jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
  /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
  jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
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1.389 newt 0.52.15-4.el7

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1.394 nhn-nanum-fonts 3.020-9.el7

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---
* <http://blog.naver.com/MyBlog.nhn>
* <#>
* N <http://ndrive.naver.com/>
* <https://nid.naver.com/user/help.nhn?todo=main>

<https://nid.naver.com/nidlogin.login>

* <http://www.naver.com/>
* me <http://me.naver.com>/0/ <#>
* <http://mail2.naver.com/>
* <http://section.cafe.naver.com/>
* <http://blog.naver.com/>
* <#>

//-//-<http://moneybook.naver.com>
<http://health.naver.com>
<http://game.naver.com>
<http://traffic.map.naver.com>
<http://weather.naver.com>
<http://news.naver.com>
/ <http://comic.naver.com>
<http://music.naver.com>

<http://tools.naver.com/service/mediaplayer/index.nhn>
<http://me2day.net>

//-//-<http://tools.naver.com/service/vaccine/index.nhn>
<http://land.naver.com>
<http://boom.naver.com>
<http://dic.naver.com>
<http://news.naver.com/sports>
<http://movie.naver.com>
<http://wingbus.naver.com>
<http://www.wingspoon.com>

//-//-<http://auto.naver.com>
<http://file.naver.com>
<http://stock.naver.com>
<http://map.naver.com>
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Version 1.1 - 26 February 2007
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1.395 perl-scalar-list-utils 1.27-248.el7

1.395.1 Available under license:

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This distribution is a replacement for the built-in distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the Perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```perl
perl Makefile.PL
make
make test
make install
```

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing.

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Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMq/Scalar-List-Utils-1.27/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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=cut

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMaq/Scalar-List-Utils-1.27/lib/List/Util/XS.pm

No license file was found, but licenses were detected in source scan.

---
abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: 0
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils
  version: 1.27

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMq/Scalar-List-Utils-1.27/MYMETA.yml
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=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have
expressed would be nice to have in the perl core, but the usage would
not really be high enough to warrant the use of a keyword, and the size
so small such that being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines. The
subroutines defined are
=over 4

=item blessed EXPR

If EXPR evaluates to a blessed reference the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class = blessed $scalar;       # undef

$ref   = [];                     
$class = blessed $ref;           # undef

$obj   = bless [], "Foo";
$class = blessed $obj;           # "Foo"

=item dualvar NUM, STRING

Returns a scalar that has the value NUM in a numeric context and the value STRING in a string context.

$foo = dualvar 10, "Hello";
$num = $foo + 2;                # 12
$str = $foo . " world";         # Hello world

=item isdual EXPR

If EXPR is a scalar that is a dualvar, the result is true.

$foo = dualvar 86, "Nix";
$dual = isdual($foo);          # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = '10';
$dual = isdual($foo);          # false
$bar = $foo + 0;
$dual = isdual($foo);          # true

Note that although C<$!> appears to be dual-valued variable, it is actually implemented using a tied scalar:

$! = 1;
print("$!\n");               # "Operation not permitted"
$dual = isdual($!);           # false

You can capture its numeric and string content using:
$err = dualvar $!, $!;
$dual = isdual($err);      # true

=item isvstring EXPR

If EXPR is a scalar which was coded as a vstring the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);

=item looks_like_number EXPR

Returns true if perl thinks EXPR is a number. See L<perlapi/looks_like_number>.

=item openhandle FH

Returns FH if FH may be used as a filehandle and is open, or FH is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);           # *STDIN
$fh = openhandle(&*STDIN);          # &*STDIN
$fh = openhandle(*NOTOPEN);         # undef
$fh = openhandle("scalar");        # undef

=item readonly SCALAR

Returns true if SCALAR is readonly.

sub foo { readonly($_[0]) } 

$readonly = foo($bar);              # false
$readonly = foo(0);                 # true

=item refaddr EXPR

If EXPR evaluates to a reference the internal memory address of the referenced value is returned. Otherwise C<undef> is returned.

$addr = refaddr "string";           # undef
$addr = refaddr $var;               # eg 12345678
$addr = refaddr [];                 # eg 23456784

$obj  = bless {}, "Foo";
$addr = refaddr $obj;               # eg 88123488
=item reftype EXPR

If EXPR evaluates to a reference the type of the variable referenced is returned. Otherwise C<undef> is returned.

    $type = reftype "string";    # undef
    $type = reftype \$var;       # SCALAR
    $type = reftype [];         # ARRAY

    $obj  = bless {}, "Foo";
    $type = reftype $obj;       # HASH

=item set_prototype CODEREF, PROTOTYPE

Sets the prototype of the given function, or deletes it if PROTOTYPE is undef. Returns the CODEREF.

    set_prototype \&foo, '$$';

=item tainted EXPR

Return true if the result of EXPR is tainted

    $taint = tainted("constant");   # false
    $taint = tainted($ENV{PWD});    # true if running under -T

=item weaken REF

REF will be turned into a weak reference. This means that it will not hold a reference count on the object it references. Also when the reference count on that object reaches zero, REF will be set to undef.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

    {  
        my $var;
        $ref = \$var;
        weaken($ref);     # Make $ref a weak reference
    }  
    # $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

    my $var;
    my $foo = \$var;
    weaken($foo);    # Make $foo a weak reference
my $bar = $foo;                     # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()>, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

    @object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=head1 Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use C<isvstring> you will need to use a newer release of perl.

=head1 C<NAME> is only available with the XS version of Scalar::Util

C<Scalar::Util> contains both perl and C implementations of many of its functions
so that those without access to a C compiler may still use it. However some of the functions are only available when a C compiler was available to compile the XS version of the extension.

At present that list is: weaken, isweak, dualvar, isvstring, set_prototype

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV’s that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

=head1 COPYRIGHT

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Except weaken and isweak which are

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=cut

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMq/Scalar-List-Utils-1.27/lib/Scalar/Util.pm

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/*

-------------------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.
=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet
Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>
Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define> s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable
For a global function or variable (used in multiple source files),
use:

```c
#define NEED_functionGLOBAL
#define NEED_variableGLOBAL
```

Note that you mustn’t have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parserGLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signalsGLOBAL</td>
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<td>eval_pv()</td>
<td>NEED_eval_pv</td>
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<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flagsGLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mgGLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontextGLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_moduleGLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvfGLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warnerGLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>: 
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

perl ppport.h --api-info=newSVpv

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/ /

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
    quiet   => 0,
    diag    => 1,
    hints   => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
    strip   => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[((\w\.)+)\]/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = ' [\t\ ]';             # horizontal whitespace

# Never use C comments in this file!
my $ecs  = '/\.';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) }
    if ($@) {
        die "Invalid version number format: "$opt{compat-version}"\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: "$opt{compat-version}"\n" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

my %API = map { /^\w+\|[^|]*\|[^|]*\|\w*$/ ? ($1 => { ($2 ? ( base => $2 ) : () ), ($3 ? ( todo => $3 ) : () ), (index($4, 'v') >= 0 ? ( varargs => 1 ) : () ), (index($4, 'p') >= 0 ? ( provided => 1 ) : () ), (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : () ), }) : die "invalid spec: $_" } qw( Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 3829


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PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_DUP|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SV|||
PAD_SV

PERLIO_FUNCS_CAST[5.009003]p
PERLIO_FUNCS_DECL[5.009003]p
PERL_ABS[5.008001]p
PERL_BCDVERSION[5.011004]p
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]p
PERL_HASH[5.004000]p
PERL_INT_MAX[5.004000]p
PERL_INT_MIN[5.004000]p
PERL_LONG_MAX[5.004000]p
PERL_LONG_MIN[5.004000]p
PERL_MAGIC_arylen[5.007002]p
PERL_MAGIC_backref[5.007002]p
PERL_MAGIC_bm[5.007002]p
PERL_MAGIC_collxfrm[5.007002]p
PERL_MAGIC_defelem[5.007002]p
PERL_MAGIC_envelem[5.007002]p
PERL_MAGIC_env[5.007002]p
PERL_MAGIC_ext[5.007002]p
PERL_MAGIC_fm[5.007002]p
PERL_MAGIC_glob[5.011004]p
PERL_MAGIC_isaelem[5.007002]p
PERL_MAGIC_isa[5.007002]p
PERL_MAGIC_mutex[5.011004]p
PERL_MAGIC_nkeys[5.007002]p
PERL_MAGIC_overload_elem[5.007002]p
PERL_MAGIC_overload_table[5.007002]p
PERL_MAGIC_overload[5.007002]p
PERL_MAGIC_pos[5.007002]p
PERL_MAGIC_qr[5.007002]p
SvNVX||
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007002||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force|||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvPV_nomg|5.007002||p
SvPV_renew|5.009003||p
SvPV_set||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbyte_force|5.006000|
SvPVbyte|5.006000|
SvPVbyte|5.006000||p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPVx||
add_data
add_utf16_textfilter
addmad
allocmy
amagic_call
amagic_cmp_locale
amagic_cmp
amagic_i_ncmp
amagic_ncmp
anonymise_cv
any_dup
ao
append_elem
append_list
append_madprops
apply_attr_my
apply_attr_string[5.006001]
apply_attr
apply
atfork_lock[5.007003]
atfork_unlock[5.007003]
av_arylen_p[5.009003]
av_clear
av_create_and_push[5.009005]
av_create_and_unshift_one[5.009005]
av_delete[5.006000]
av_exists[5.006000]
av_extend
av_fetch
av_fill
av_iter_p[5.011000]
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_undef
av_unshift
ax
bad_type
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block_end
block_gimme[5.004000]
block_start
boolSV[5.004000]
boot_core_PerlIO
do_chop
do_close
do_delete_local
do_dump_pad
do_eof
do_exec3
do_execfree
do_exec
do gv_dump[5.006000]
do gvgv_dump[5.006000]
do hv_dump[5.006000]
do ipcct
do ipcget
do join
do kv
do_magic_dump[5.006000]
do_msgrcv
do_msgsnd
do_oddball
do_op_dump[5.006000]
do_op_xmlmdump

do_open9[5.006000]
do_openn[5.007001]
do_open[5.004000]
do_pmop_dump[5.006000]
do_pmop_xmlmdump

do_print

do_readline

do_seek

do_semop

do_shmio

do_smartmatch

do_spawn_nowait

do_spawn

do_sprint

do_sv_dump[5.006000]
do_sysseek

do_tell

do_trans_complex_utf8

do_trans_complex

do_trans_count_utf8

do_trans_count

do_trans_simple_utf8

do_trans_simple

do_trans

do_vecget

do_vecset

do_vop
filter_gets
filter_read
find_and_forget_pmops
find_array_subscript
find_beginning
find_byclass
find_hash_subscript
find_in_my_stash
find_runcv
find_rundefsvoffset
find_script
find_uninit_var
first_symbol
fold_constants
forbid_setid
force_ident
force_list
force_next
force_strict_version
force_version
force_word
forget_pmop
form_nocontext
form
fp_dup
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av
get_context
get_cvn_flags
get_cvs
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_isa_hash
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
op_refcnt_unlock\[5.009002\]
op_xmldump\[\]
open_script\[\]
opt_scalarhv\[\]
pMY_CXT\[5.007003\]
pMY_CXT\[5.007003\]
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pTHX\[5.006000\]
packWARN\[5.007003\]
pack_cat\[5.007003\]
pack_rec\[\]
package_version\[\]
package\[\]
packlist\[5.008001\]
pad_add_anon\[\]
pad_add_name_sv\[\]
pad_add_name\[\]
pad_alloc\[\]
pad_block_start\[\]
pad_check_dup\[\]
pad_comname_type\[\]
pad_fndlex\[\]
pad_fndmy\[5.011002\]
pad_fixup_inner_anons\[\]
pad_free\[\]
pad_leavemy\[\]
pad_new\[\]
pad_peg\[n\]
pad_push\[\]
pad_reset\[\]
pad_setsv\[\]
pad_sv\[\]
pad_swipe\[\]
pad_tidy\[\]
pad_undef\[\]
parse_body\[\]
parse_unicode_opts\[\]
parser_dup\[\]
parser_free\[\]
path_is_absolute\[n\]
peep\[\]
pending_Slabs_to_ro\[\]
perl_alloc_using\[\]
perl_alloc\[n\]
perl_clone_using\[\]
perl_clone\[n\]
perl_construct\[\]
perl_destruct\[5.007003\]
save_destructor
save_freeop
save_freepv
save_freesv
save_generic_pvref
save_generic_svref
save_gp
save_hash
save_hdelete
save_hek_flags
save_helem_flags
save_helem
save_hints
save_hptr
save_int
save_iv
save_lines
save_list
save_long
save_magic
save_mortalizesv
save_nogv
save_op
save_padsv_and_mortalize
save_pptr
save_push32ptr
save_pushptr32ptr
save_pushptrptr
save_pushptr
save_re_context
save_scalar_at
save_scalar
save_set_svflags
save_shared_pvref
save_spref
save_vptr
save_yptr
savepvn
savepvs
savepv
savesharedpvn
savesharedpv
savestack_grow_cnt
savestack_grow
savestack_grow
sawparens
scalar_mod_type
sv_isa
sv_isobject
sv_iv[5.005000]
vsv_kill_backrefs
sv_len_utf8[5.006000]
vsv_len[5.006000]
vsv_magic_portable[5.011005,5.004000]
vsv_magicext[5.007003]
vsv_magic[5.011005,5.004000]
vsv_mortalcopy
svsv_ncmp
svsv_newmortal
svsv_nolocking[5.007003]
vsv_nosharing[5.007003]
vsv_nounlocking
svsv_nv[5.005000]
vsv_peek[5.005000]
vsv_pos_b2u_midway
svsv_pos_b2u[5.006000]
vsv_pos_u2b_cached
svsv_pos_u2b_flags[5.011005]
vsv_pos_u2b_forwards
svsv_pos_u2b_midway
svsv_pvbyten_force[5.006000]
vsv_pvbyten[5.006000]
vsv_pvbyte[5.006000]
vsv_pvn_force_flags[5.007002]
vsv_pvn_force
svsv_pvn_nomg[5.007003,5.005000]
vsv_pvn[5.005000]
vsv_pvutf8n_force[5.006000]
vsv_pvutf8n[5.006000]
vsv_pvutf8[5.006000]
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vsv_recode_to_utf8[5.007003]
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svsv_replace
svsv_report_used
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vsv_setiv
svsv_setnv_mg[5.006000]
vsv_setnv
svsv_setpv_mg[5.004050]
write_no_mem|||
write_to_stderr|||
xmldump_all_perl|||
xmldump_all|||
xmldump_attr|||
xmldump_eval|||
xmldump_form|||
xmldump_indent|||v
xmldump_packsubs_perl|||
xmldump_packsubs|||
xmldump_sub_perl|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {

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for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;

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my $d;
for $d (map { s/\s+//g; $_ } split /\s+/, $1) {
  push @{$depends{$d}}, @deps;
}

$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)$};
}

for (values %depends) {
  my %s;
  $s = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "\Q$opt\E";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base.\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: \njoin(\', ', @{$depends{$f}})\n\n" if exists $depends{$f};
      print "\nShints\n$\" if exists $hints{$f};
      print "\nWARNING:\n$\" if exists $warnings{$f};
      $info++;
    }
    print "No portability information available.\n" unless $info;
    $count++;
  }
  $count or print "Found no API matching \$opt\['api-info'\].\n";
  print \n";
  exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
  }
}
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
push @flags, 'warning' if exists $warnings{$f};
my @flags = @flags ? '['.join(',', @flags).'] : "
print "$f$flags\n"
} exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext:

if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
   if (-f) {
       push @files, $_ unless $seen{$_}++;
   }
   else { warn "$_ is not a file.\n"
   }
else {
   my @new = grep { -f } glob $_
   or warn "$_ does not exist.\n"
   push @files, grep { !$seen{$_}++ } @new;
   }
   }
else {
   }
}
eval {
   require File::Find;
   File::Find::find(sub {
       $File::Find::name =~ /($srcext)$/i
       and push @files, $File::Find::name;
   }, '
   );
}
if ($@) {
   @files = map { glob "*$_" } @srcext;
   }
}

if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*).xs$/ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /Q$ppportE$/i || !/($srcext)$/i;
push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):
|", join "\n|", @out);
}@files = @in;

my $filename;
my $patch_opened = 0;
for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }
  info("Scanning $filename ...");
  my $c = do { local $/; <IN> }; close IN;
  my %file = (orig => $c, changes => 0);
  my $filename
  my $func;

  # Temporarily remove C/XS comments and strings from the code
  my @ccom;
  $c =~ s{
    ( ^$HS*#SHS*include\b[^\r\n]+\b(?:Q$ppport\b[XSUBb]*[^\r\n]*)
      | ^$HS*#SHS*\b(?:define|elif|if(?:def)?)\b[^\r\n]*)
      | ( ^$HS*[^\r\n]*)
      | "[^\r\n]*(?:\[^\r\n]*)"
      | '[^\r\n]*(?:\[^\r\n]*)"
    | / (?:[^\r\n]*)m*:+(?:[^$ccs]^[*]m*:+)+ / /[^\r\n]* )
  }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#eecom$ccce" }mgsex;

  $file{ccom} = @ccom;
  $file{code} = $c;
  $file{has_inc_ppport} = $c =~ /$SHS*#SHS*include[^\r\n]+\bQ$ppport\b/;
for $func (keys %API) {
    my $match = $func;
    $match .= "\$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ Ab?!Perl_?!($match)?) {
        $file{uses_replace}{$func}++ if exists $revreplace{$func} & & $c eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ AbPerl_$func;
    } if (exists $API{$func}{provided}) {
        $file{uses_provided}{$func}++;
        if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            for (@deps) {
                $file{uses_deps}{$func} = \@deps;
                for (@deps) {
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                }
            }
            for ($func, @deps) {
                $file{needs}{$_} = 'static' if exists $need{$_};
            }
        }
    } if (exists $API{$func}{todo} & & $API{$func}{todo} > $opt{compat-version}) {
        if ($c =~ /Ab$func/) {
            $file{uses_todo}{$func}++;
        }
    }
}
while ($c =~ /\$HS*#\$HS*define\$HS+(NEED_\(\w+\)?(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}
for qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}
$files{$filename} = %file;

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

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for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(’, ’, @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with "pp";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}[$func]) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } if ($message) {
            diag($message);
diag($message);

$file{changes} += ($c =~ s/\$HS*\$HS*define\$HS*NEED_\$\{func\}_GLOBAL\$\{func\}\$HS*\$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@ {global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#DEFINE \w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"
    }

if ($pp) {
    $file{changes} += ($c =~ s/\$HS*\$HS*define\$HS*NEED_\w+.*/\$1$pp/ms)
        || ($c =~ s/\$HS*\$HS*include.*/Q$ppport/E/$pp/m)
        || ($c =~ s/\$HS*\$HS*include.*XSUB.*/\$1$pp/m)
        || ($c =~ s/\$HS*\$HS*include.*$/\$pp/);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\$HS*\$HS*include.*Q$ppport/E.*?\$LF/m);
    }
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}
if ($cppc) {
  my $s = $cppc != 1 ? 's' : 'v';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : 'v';
my $warn = $warnings ? " ($warnings warning$s)": ";
info("Analysis completed$warn");
if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'\n")
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      } else {
        error("Cannot open "$newfile" for writing: $!");
      }
    }
  } elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
      }
    }
  }
}
else {
    error("Cannot open \$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(\*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(\*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, "$tmp") {
        print F $str;
        close F;

        if (open F, ">$tmp") {
            print F $str;
            close F;

            if (open F, "$prog $file $tmp") {
                while (<F>) {
                    s/Q$tmp\E/$file.patched/;
                    $diff .= ";
                }
                close F;
                unlink $tmp;
                return $diff;
            }
        }
    }
    unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
    my($func, $seen) = @$_;
    return () unless exists $depends{func};
    $seen = {%{$seen||{}}};
    return () if $seen->{func}++;
    my %s;
    grep !s{$_}++, map { ($_. rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+\.(\d+)\.(\d+)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d+\d{3})\.(\d{3})/;

    $r = int $r;
    $v = int $v;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }

    return ($r, $v, $s);
}

return undef;
}
$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version "$ver\n"
    }
    $s /= 10;
}

$ver = sprintf "%.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_.%02d", $s;

return $ver;
}

return sprintf "%.%.%.%", $r, $v, $s;

sub info
{
$opt{quiet} and return;
print @_ . "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_ . "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_. "\n";
}

sub error
{
print "*** ERROR: ", @_. "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}

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Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

my($pl, $c) = $self =~ /(.*__DATA__)(.*)/ms;
$c =~ s{ / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^\*]/ ) | ( "[^"\\]*(?:\\.[^"\\]*)*" | '\[^'\\]*(?:\\.[^'\\]*)*' ) | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
"
print OUT "$pl$c"
exit 0;
}

__DATA__
#

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMa/Scalar-List-Utils-1.27/ppport.h
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# modify it under the same terms as Perl itself.
=head1 NAME
List::Util - A selection of general-utility list subroutines

=head1 SYNOPSIS

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use List::Util qw(first max maxstr min minstr reduce shuffle sum);

=head1 DESCRIPTION

C<List::Util> contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

By default C<List::Util> does not export any subroutines. The subroutines defined are

=over 4
=item first BLOCK LIST

Similar to C<grep> in that it evaluates BLOCK setting C<$_> to each element of LIST in turn. C<first> returns the first element where the result from BLOCK is a true value. If BLOCK never returns true or LIST was empty then C<undef> is returned.

$foo = first { defined($_) } @list    # first defined value in @list
$foo = first { $_ > $value } @list    # first value in @list which # is greater than $value

This function could be implemented using C<reduce> like this

$foo = reduce { defined($a) ? $a : wanted($b) ? $b : undef } undef, @list

for example wanted() could be defined() which would return the first defined value in @list

=item max LIST

Returns the entry in the list with the highest numerical value. If the list is empty then C<undef> is returned.

$foo = max 1..10                # 10
$foo = max 3,9,12               # 12
$foo = max @bar, @baz           # whatever

This function could be implemented using C<reduce> like this

$foo = reduce { $a > $b ? $a : $b } 1..10

=item maxstr LIST

Similar to C<max>, but treats all the entries in the list as strings
and returns the highest string as defined by the C<gt> operator. If the list is empty then C<undef> is returned.

```perl
$foo = maxstr 'A'..'Z'        # 'Z'
$foo = maxstr "hello","world"  # "world"
$foo = maxstr @bar, @baz      # whatever
```

This function could be implemented using C<reduce> like this

```perl
$foo = reduce { $a gt $b ? $a : $b } 'A'..'Z'
```

=item min LIST

Similar to C<max> but returns the entry in the list with the lowest numerical value. If the list is empty then C<undef> is returned.

```perl
$foo = min 1..10            # 1
$foo = min 3,9,12           # 3
$foo = min @bar, @baz      # whatever
```

This function could be implemented using C<reduce> like this

```perl
$foo = reduce { $a < $b ? $a : $b } 1..10
```

=item minstr LIST

Similar to C<min>, but treats all the entries in the list as strings and returns the lowest string as defined by the C<lt> operator. If the list is empty then C<undef> is returned.

```perl
$foo = minstr 'A'..'Z'      # 'A'
$foo = minstr "hello","world"  # "hello"
$foo = minstr @bar, @baz    # whatever
```

This function could be implemented using C<reduce> like this

```perl
$foo = reduce { $a lt $b ? $a : $b } 'A'..'Z'
```

=item reduce BLOCK LIST

Reduces LIST by calling BLOCK, in a scalar context, multiple times, setting C<$a> and C<$b> each time. The first call will be with C<$a> and C<$b> set to the first two elements of the list, subsequent calls will be done by setting C<$a> to the result of the previous call and C<$b> to the next element in the list.

Returns the result of the last call to BLOCK. If LIST is empty then C<undef> is returned. If LIST only contains one element then that
element is returned and BLOCK is not executed.

```perl
$foo = reduce { $a < $b ? $a : $b } 1..10   # min
$foo = reduce { $a lt $b ? $a : $b } 'aa'..'zz' # minstr
$foo = reduce { $a + $b } 1 .. 10         # sum
$foo = reduce { $a . $b } @bar            # concat
```

If your algorithm requires that `reduce` produce an identity value, then make sure that you always pass that identity value as the first argument to prevent `undef` being returned.

```perl
$foo = reduce { $a + $b } 0, @values;      # sum with 0 identity value
```

=item shuffle LIST

Returns the elements of LIST in a random order

```perl
@cards = shuffle 0..51       # 0..51 in a random order
```

=item sum LIST

Returns the sum of all the elements in LIST. If LIST is empty then `undef` is returned.

```perl
$foo = sum 1..10           # 55
$foo = sum 3,9,12          # 24
$foo = sum @bar, @baz      # whatever
```

This function could be implemented using `reduce` like this

```perl
$foo = reduce { $a + $b } 1..10
```

If your algorithm requires that `sum` produce an identity of 0, then make sure that you always pass `0` as the first argument to prevent `undef` being returned.

```perl
$foo = sum 0, @values;
```

=item sum0 LIST

Similar to `sum`, except this returns 0 when given an empty list, rather than `undef`.

=back

=head1 KNOWN BUGS

With perl versions prior to 5.005 there are some cases where `reduce`
will return an incorrect result. This will show up as test 7 of reduce.t failing.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

# One argument is true

sub any { $_ && return 1 for @_; 0 }

# All arguments are true

sub all { $_ || return 0 for @_; 1 }

# All arguments are false

sub none { $_ && return 0 for @_; 1 }

# One argument is false

sub notall { $_ || return 1 for @_; 0 }

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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 * modify it under the same terms as Perl itself.
 */

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1q5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMq/Scalar-List-Utils-1.27/ListUtil.xs

No license file was found, but licenses were detected in source scan.

Name:           perl-Scalar-List-Utils
Version:        1.27
Release:        248{%{?dist}
Summary:        A selection of general-utility scalar and list subroutines
License:        GPL+ or Artistic
Group:          Development/Libraries
URL:            http://search.cpan.org/dist/Scalar-List-Utils/
Source0:        http://search.cpan.org/CPAN/authors/id/P/PE/PEVANS/Scalar-List-Utils-%{version}.tar.gz

BuildRequires: perl
BuildRequires: perl(base)
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(constant)
BuildRequires: perl(Exporter)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(File::Spec)
BuildRequires: perl(IO::File)
BuildRequires: perl(IO::Handle)
BuildRequires: perl(Math::BigInt)
BuildRequires: perl(overload)
BuildRequires: perl(strict)
BuildRequires: perl(Symbol)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads)
BuildRequires: perl(threads::shared)
BuildRequires: perl(Tie::Handle)
BuildRequires: perl(Tie::Scalar)
BuildRequires: perl(Tie::StdScalar)
BuildRequires: perl(vars)
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)

Requires:       perl(:MODULE_COMPAT_%(eval "\"%{__perl} -V:version\"; echo $version))
Requires:       perl(Carp)

%{?perl_default_filter}
%description
This package contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be
high enough to warrant the use of a keyword, and the size so small such
that being individual extensions would be wasteful.

%prep
%setup -q -n Scalar-List-Utils-%{version}

%build
%{__perl} Makefile.PL INSTALLDIRS=vendor OPTIMIZE=""%{optflags}""
make %{?_smp_mflags}

%install
make pure_install DESTDIR=%{buildroot}

find %{buildroot} -type f -name .packlist -exec rm -f {} \;
find %{buildroot} -type f -name "*.bs" -size 0 -exec rm -f {} \;

%{_fixperms} %{buildroot}/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/List*
%{perl_vendorarch}/Scalar*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.27-248
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.27-247
  - Mass rebuild 2013-12-27

* Wed Jul 31 2013 Petr Pisar <ppisar@redhat.com> - 1.27-246
  - Specify all dependencies

* Fri Jan 04 2013 Iain Arnell <iarnell@gmail.com> 1.27-245
  - update to latest upstream version

* Fri Aug 17 2012 Petr Pisar <ppisar@redhat.com> - 1.25-240
  - Increase release to replace perl sub-package (bug #848961)

* Thu Aug 16 2012 Petr Pisar <ppisar@redhat.com> - 1.25-4
- Correct dependencies

* Tue Aug 14 2012 Daniel Mach <dmach@redhat.com> - 1.25-3.1
- Rebuild for perl 5.16

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.25-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Písar <ppisar@redhat.com> - 1.25-2
- Perl 5.16 rebuild

* Sun Mar 25 2012 Iain Arnell <iarnell@gmail.com> 1.25-1
- update to latest upstream version

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.23-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.23-2
- Perl mass rebuild

* Mon Feb 21 2011 Iain Arnell <iarnell@gmail.com> 1.23-1
- Specfile autogenerated by cpanspec 1.79.

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1qS5Eu5G/perl-Scalar-List-Utils.spec
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1156605084_1619225087.89/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-R1qS5Eu5G/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-H5qtEzMq/Scalar-List-Utils-1.27/META.yml

1.396 jbossws-cxf-server 4.2.3.Final-redhat-1

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1.397 glib 2.56.1-8.el7

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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/Operator.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/BasicCommandSet.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/CompileException.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/AccessorNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/PreFixIncNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/VariableResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/Util/ExecutionStack.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/conversion/UnitConversion.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/optimizers/OptimizerHook.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/res/ExpressionNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/ArraySize.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/Exit.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/res/CompiledDeclareNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/ast/DoNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/integration/impl/SimpleValueResolver.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/integration/impl/ASTLinkedList.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/utils/ASTLinkedList.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/utils/ASTLinkedList.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/IndexedDeclTypedVarNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/Safe.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/Fold.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/And.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/ForEachNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/EndWithValue.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/ForEachNode.java
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  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/ByteVector.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/TraceSignatureVisitor.java
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  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/ClassWriter.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/FieldVisitor.java
  * /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/asm/SignatureWriter.java
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its purpose remains meaningful.

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1.405 compat-exiv2 0.26-1.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.408 sssd 1.16.4-21.el7

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Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
> AFAIK you've been out of the v4l loop, so I assume you
don't know me, this let me start with a shot self introduction:
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but most of them were out of tree, including the gspca driver which is a usb webcam driver framework supporting a lot of different chipsets.

One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don't understand. The out of tree drivers all "fixed" this by doing decompression and video format conversion inside the kernel.

This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those. Both libv4l1 and libv4l2 work by emulating the raw device API, all one needs to do is write v4lx_open instead of plain open when opening the device and them use v4lx_ioctl, etc. on the resulting fd instead of their plain versions. This serves 2 purposes:

1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such as skype).

And now (finally) my question to you, lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel. We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctl.

Fixing this comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. Thus my question is would it be ok to use your v4l1 compat code under the LGPL inside libv4l1?

Thanks & Regards,
Hans
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>
> Hi,
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?
Fine with me.

cheers,
Gerd

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"Mauro Carvalho Chehab" <mchehab@redhat.com>,
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"Huzaifa Sidhpurwala" <huzaifas@redhat.com>
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Hi All,

I'm writing you all because you've contributed patches to the kernels v4l1 ioctl compat code living in v4l1-compat.c

Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil

Thanks & Regards,

Hans

The long story:

I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
> 
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
> 
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
> 
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert doing the actual conversion.
> 
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
> 
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
>    as skype).
> 
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
> compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
> 
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
Hans de Goede wrote:

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v411 ioctl compat code living in v411-compat.c
> Most of you already know me, and know that I'm working on
> making libv411 become independent of the kernel v411 ioctl
> compat code, so that it can be removed from the kernel.

---

Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco
For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

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  jar/org/jboss/shrinkwrap/impl/io/tar/TarGzOutputStream.java
* /opt/cola/permits/1132217426_1613127093.66/0/shrinkwrap-impl-base-1-1-2-redhat-1-sources-
  jar/org/jboss/shrinkwrap/impl/io/tar/TarOutputStream.java
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1.424 setroubleshoot-plugins 3.0.67-4.el7

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1.430 curl 7.29.0-54.el7
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zlib    http://www.gzip.org/zlib/zlib_license.html

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.448 aws-sdk-go 1.8.16

1.448.1 Available under license:

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1.450 python-urlgrabber 3.10-9.el7

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1.460 jsr181-api 1.0-MR1-redhat-6

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 * An initialization parameter
 *
 * @deprecated As of JSR-181 2.0 with no replacement.
 *
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 */

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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/soap/InitParam.java
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/**
 * Customizes a method that is exposed as a Web Service operation.
 * The associated method must be public and its parameters return value,
 * and exceptions must follow the rules defined in JAX-RPC 1.1, section 5.
 *
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 * Customizes the mapping of the return value to a WSDL part and XML element.
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/WebMethod.java

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/**
 * Indicates that the given @WebMethod has only an input message and no output. Typically, a oneway method returns
 * the thread of control to the calling application prior to executing the actual business method. A 181 processor
 * should report an error if an operation marked @Oneway has a return value or Holder parameters, or declares any
 * checked exceptions.
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/Oneway.java

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/**
 * Associates the Web Service with an externally defined handler chain. This annotation is typically used in scenarios
 * where embedding the handler configuration directly in the Java source is not appropriate; for example, where the
 * handler configuration needs to be shared across multiple Web Services, or where the handler chain consists of
 * handlers for multiple transports.
 *
 * It is an error to combine this annotation with the @SOAPMessageHandlers annotation.
 *
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/HandlerChain.java

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/**
 * A single SOAP message handler

* @deprecated As of JSR-181 2.0 with no replacement.
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
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/**
* Specifies the mapping of the Web Service onto the SOAP message protocol.
* 
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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
jar/javax/jws/soap/SOAPBinding.java
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/**
* Customizes the mapping of an individual parameter to a Web Service message part and XML element.
* 
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* */

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* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
jar/javax/jws/WebParam.java
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/**
* Specifies a list of SOAP protocol handlers that run before and after business methods on the Web Service. These
* handlers are called in response to SOAP messages targeting the service.
* <p>
* The @SOAPMessageHandlers annotation is an array of SOAPMessageHandler types. The handlers are run in the
* order in which they appear in the annotation, starting with the first handler in the array.
* 
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/**
 * Marks a Java class as implementing a Web Service, or a Java interface as defining a Web Service interface.
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1.461 activation 1.2.0

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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-<code>Comparable</code>
* **key.* Proper calls will resolve to the version in [@code ImmutableSortedMap], not this dummy version.

* **@throws UnsupportedOperationException always**

* **@deprecated <b>Pass a key of type [@code Comparable} to use [@link ImmutableSortedMap#of(Comparable, Object)].</b>**

*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Present.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Absent.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Optional.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Enums.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/MessageDigestHashFunction.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LongAdder.java
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/
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  jar/com/google/common/base/SmallCharMatcher.java
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  jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Dispatcher.java

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   jar/com/google/common/collection/Count.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/SortedIterables.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/ForwardingSortedMultiset.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/RangeSet.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/GeneralRange.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/RegularImmutableSortedMultiset.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/AbstractRangeSet.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/SortedIterable.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
   jar/com/google/common/collection/ImmutableSortedMultiset.java

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jar/com/google/common/hash/MacHashFunction.java
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jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/Platform.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Ascii.java

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 */
/*
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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jar/com/google/common/util/concurrent/ImmediateFuture.java
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jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/FluentFuture.java
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jar/com/google/common/escape/CharEscaper.java
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jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/CollectionFuture.java
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jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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jar/com/google/common/util/concurrent/TimeLimiter.java
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jar/com/google/common/util/concurrent/TimeoutFuture.java
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jar/com/google/common/util/concurrent/Futures.java

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/**
 * Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular
 * version.
 */

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*\n* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/TypeToInstanceMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LocalCache.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/SettableFuture.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Doubles.java
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1.474 jakarta-inject 2.6.1
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This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

### 1.475 perl-podlators 2.5.1-3.el7

**1.475.1 Available under license:**

No license file was found, but licenses were detected in source scan.

```text
---
abstract: 'Convert POD data to various other formats'
author:
- 'Russ Allbery <rra@stanford.edu>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: podlators
no_index:
directory:
  - t
  - inc
```
requires:
  Encode: 0
  File::Spec: 0.8
  Pod::Simple: 3.06
version: 2.5.1

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwVvIT/podlators-2.5.1/MYMETA.yml

No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl

# pod2man -- Convert POD data to formatted *roff input.
#
# Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (%options, 'center=c=s', 'date=d=s', 'errors=s', 'fixed=s',
  'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
  'lax|l', 'name=n=s', 'nourls', 'official|o', 'quotes=q=s',
  'release|r:s', 'section=s=s', 'stderr', 'verbose|v', 'utf8|u')
or exit 1;
pod2usage (0) if $options{help};
# Official sets --center, but don't override things explicitly set.
if ($options{official} && !defined $options{center}) {
    $options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at
# a time. For each file, we check whether the document was completely empty
# and, if so, will remove the created file and exit with a non-zero exit
# status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;
do {
    @files = splice (@ARGV, 0, 2);
    print "  $files[1]\n" if $verbose;
    $parser->parse_from_file (@files);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $files[0]\n";
        if (defined ($files[1]) and $files[1] ne '-') {
            unlink $files[1] unless (-s $files[1]);
        }
    }
} while (@ARGV);
exit $status;

__END__

=head1 NAME

pod2man - Convert POD data to formatted *roff input
pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>] [B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>] [B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>] [B<--official>] [B<--quotes>=I<quote>] [B<--release]=[I<version>] [B<--section]=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>] [I<input>] [I<output>] ...

pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input from POD source. The resulting *roff code is suitable for display on a terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2man> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

B<--section>, B<--release>, B<--center>, B<--date>, and B<--official> can be used to set the headers and footers to use; if not given, Pod::Man will assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font named C<CW>. If yours is called something else (like C<CR>), use B<--fixed> to specify it. This generally only matters for troff output for printing. Similarly, you can set the fonts used for bold, italic, and bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also takes care of formatting func(), func(n), and simple variable references like $foo or @bar so you don't have to use code escapes for them; complex expressions like C<$fred{'stuff'}> will still need to be escaped, though. It also translates dashes that aren't used as hyphens into en dashes, makes long dashes--like this--into proper em dashes, fixes "paired quotes," and takes care of several other troff-specific tweaks. See L<Pod::Man> for complete information.

=head1 OPTIONS

=over 4
Sets the centered page header to I<string>. The default is "User Contributed Perl Documentation", but also see B<--official> below.

Set the left-hand footer string to this value. By default, the modification date of the input file will be used, or the current date if input comes from C<STDIN>.

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error, but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

The fixed-width font to use for verbatim text and code. Defaults to  
C<CW>. Some systems may want C<CR> instead. Only matters for troff(1) output.

Bold version of the fixed-width font. Defaults to C<CB>. Only matters for troff(1) output.

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to C<CI>. Only matters for troff(1) output.

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to C<CB>. Some systems (such as Solaris) have this font available as C<CX>. Only matters for troff(1) output.
Print out usage information.

=item B<-l>, B--lax>

No longer used. `pod2man` used to check its input for validity as a manual page, but this should now be done by `lpodchecker(1)` instead. Accepted for backward compatibility; this option no longer does anything.

=item B<-n> I<name>, B--name=I<name>

Set the name of the manual page to `I<name>`. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like `C<.../lib/Pod/Man.pm>` is converted into a name like `C<Pod::Man>`. This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

=item B<--nourls>

Normally, LZ<> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L<foo|http://example.com/>

is formatted as:

 foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B--official>

Set the default header to indicate that this page is part of the standard Perl release, if B<--center> is not also given.

=item B<-q> I<quotes>, B--quotes=I<quotes>

Sets the quote marks used to surround C<lt>> text to `I<quotes>`. If `I<quotes>` is a single character, it is used as both the left and right quote; if `I<quotes>` is two characters, the first character is used as the left quote and the second as the right quoted; and if `I<quotes>` is four characters, the first two are used as the left quote and the second two as
the right quote.

I<quotes> may also be set to the special value C<none>, in which case no
quote marks are added around CE<lt>> text (but the font is still changed for
troff output).

=item B<-r>, B<--release>

Set the centered footer. By default, this is the version of Perl you run
B<pod2man> under. Note that some system an macro sets assume that the
centered footer will be a modification date and will prepend something like
"Last modified: ": if this is the case, you may want to set B<-release> to
the last modified date and B<--date> to the version number.

=item B<-s>, B<--section>

Set the section for the C<.TH> macro. The standard section numbering
convention is to use 1 for user commands, 2 for system calls, 3 for
functions, 4 for devices, 5 for file formats, 6 for games, 7 for
miscellaneous information, and 8 for administrator commands. There is a lot
of variation here, however; some systems (like Solaris) use 4 for file
formats, 5 for miscellaneous information, and 7 for devices. Still others
use 1m instead of 8, or some mix of both. About the only section numbers
that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in
which case section 3 will be selected.

=item B<--stderr>

By default, B<pod2man> dies if any errors are detected in the POD input.
If B<--stderr> is given and no B<--errors> flag is present, errors are
sent to standard error, but B<pod2man> does not abort. This is equivalent
to C<--errors=stderr> and is supported for backward compatibility.

=item B<-u>, B<--utf8>

By default, B<pod2man> produces the most conservative possible *roff
output to try to ensure that it will work with as many different *roff
implementations as possible. Many *roff implementations cannot handle
non-ASCII characters, so this means all non-ASCII characters are converted
either to a *roff escape sequence that tries to create a properly accented
color (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your
*roff implementation can handle it, this is the best output format to use
and avoids corruption of documents containing non-ASCII characters.
However, be warned that *roff source with literal UTF-8 characters is not
supported by many implementations and may even result in segfaults and other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an \texttt{encoding} command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See \texttt{perlpod(1)} for more information on the \texttt{encoding} command.

\begin{itemize}
\item \texttt{-v}, \texttt{--verbose}
\end{itemize}

Print out the name of each output file as it is being generated.

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a \texttt{POD ERRORS} section generated with \texttt{--errors=pod}), \texttt{pod2man} will exit with status 0. If any of the documents being processed do not result in an output document, \texttt{pod2man} will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of \texttt{die}, \texttt{pod2man} will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If \texttt{pod2man} fails with errors, see \texttt{Pod::Man} and \texttt{Pod::Simple} for information about what those errors might mean.

=head1 EXAMPLES

\begin{verbatim}
pod2man program > program.1
pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
pod2man --section=7 note.pod > note.7
\end{verbatim}

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

\begin{verbatim}
troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...
\end{verbatim}

To get index entries on \texttt{STDERR}, turn on the F register, as in:

\begin{verbatim}
troff -man -rF1 perl.1
\end{verbatim}

The indexing merely outputs messages via \texttt{.tm} for each major page, section, subsection, item, and any \texttt{X<lt>Y<gt>} directives. See
Lots of this documentation is duplicated from L<Pod::Man>.

=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>,
L<podchecker(1)>, L<perlpodstyle(1)>, L<stroff(1)>, L<man(7)>

The man page documenting the an macro set may be L<man(5)> instead of
L<man(7)> on your system.

The current version of this script is always available from its web site at
L<http://www.eyrie.org/~eagle/software/podlators/>.  It is also part of the
Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based very heavily on the original
B<pod2man> by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

Allbery <rra@stanford.edu>.

This program is free software; you may redistribute it and/or modify it
under the same terms as Perl itself.
No license file was found, but licenses were detected in source scan.
license:

perl

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archivePVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/META.yml
No license file was found, but licenses were detected in source scan.
License:

GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archivePVaS66fg/perl-podlators.spec
No license file was found, but licenses were detected in source scan.
#!perl
# pod2text -- Convert POD data to formatted ASCII text.
#
# Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
#
# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
# invoked by perldoc -t among other things.
require 5.004;
use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);
use strict;
# Clean up $0 for error reporting.
$0 =~ s%.*/%%;
# Take an initial pass through our options, looking for one of the form
# -<number>. We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
last if $ARGV[$i] =~ /^--$/;
if ($ARGV[$i] =~ /^-(\d+)$/) {
splice (@ARGV, $i++, 1, '-w', $1);
}

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my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
Getopt::Long::config ('bundling');
GetOptions (%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
  'indent|i=i', 'loose|l', 'margin|left-margin|m=i', 'nourls',
  'overstrike|o', 'quotes|q=s', 'sentence|s', 'stderr', 'termcap|t',
  'utf8|u', 'width|w=i')
or exit 1;
pod2usage (1) if %options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if (%options{color}) {
  $formatter = 'Pod::Text::Color';
  eval { require Term::ANSIColor }; # die "-c (--color) requires Term::ANSIColor be installed\n"
  require Pod::Text::Color;
} elsif (%options{termcap}) {
  $formatter = 'Pod::Text::Termcap';
  require Pod::Text::Termcap;
} elsif (%options{overstrike}) {
  $formatter = 'Pod::Text::Overstrike';
  require Pod::Text::Overstrike;
}
delete @options{color, termcap, overstrike};

# If neither stderr nor errors is set, default to errors = die.
if (!defined %options{stderr} && !defined %options{errors}) {
  %options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
  my ($input, $output) = splice (@ARGV, 0, 2);
  $parser->parse_from_file ($input, $output);
  if ($parser->{CONTENTLESS}) {
    ...
$status = 1;
warn "$0: unable to format $input\n";
if (defined ($output) and $output ne '-') {
    unlink $output unless (-s $output);
}
} while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME

pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

pod2text [B<-aclostu>] [B<-code>] [B<-errors>=I<style>] [B<-i> I<indent>]
S<[B<-q> I<quotes>]> [B<-nourls>] [B<-stderr>] S<[B<-w> I<width>]>]
[I<input> I<output> ...]]

pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them
to generate formatted ASCII text from POD source. It can optionally use
either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output>
isn't given, the formatted output is written to C<STDOUT>. Several POD
files can be processed in the same B<pod2text> invocation (saving module
load and compile times) by providing multiple pairs of I<input> and
I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B--alt>

Use an alternate output format that, among other things, uses a different
heading style and marks C=item> entries with a colon in the left margin.

=item B <--code>

Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B <--c>, B <--color>

Format the output with ANSI color escape sequences. Using this option requires that Term::ANSIColor be installed on your system.

=item B <--i> I<indent>, B <--indent=>I<indent>

Set the number of spaces to indent regular text, and the default indentation for C=over> blocks. Defaults to 4 spaces if this option isn't given.

=item B <--errors>=I<style>

Set the error handling style. C=die> says to throw an exception on any POD formatting error. C=stderr> says to report errors on standard error, but not to throw an exception. C=pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C=none> ignores POD errors entirely, as much as possible.

The default is C=die>.

=item B <--h>, B <--help>

Print out usage information and exit.

=item B <--l>, B <--loose>

Print a blank line after a C=head1> heading. Normally, no blank line is printed after C=head1>, although one is still printed after C=head2>, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

=item B <--m> I<width>, B <--left-margin>=I<width>, B <--margin>=I<width>

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see B <--i> option.

=item B <--nourls>

Normally, LZ<> formatting codes with a URL but anchor text are formatted
to show both the anchor text and the URL. In other words:

L.<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B--overstrike>

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as B<less>, know how to convert this to bold or underlined text.

=item B<-q> I<quote>, B--quotes>=I<quote>

Sets the quote marks used to surround C<lt>> text to I<quote>. If I<quote> is a single character, it is used as both the left and right quote; if I<quote> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quote> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quote> may also be set to the special value C<none>, in which case no quote marks are added around C<lt>> text.

=item B<-s>, B--sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B--stderr is given and no B--errors flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B--termcap>

Try to determine the width of the screen and the bold and underline
sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a termcap file somewhere where Term::Cap can find it and requires that your system support termios. With this option, the output of B<pod2text> will contain terminal control sequences for your current terminal type.

=item B<-u>, B|--utf8>

By default, B<pod2text> tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B<-w>, B|--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76, unless B<-t> is given, in which case it's two columns less than the width of your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2text> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2text> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2text> fails with errors, see L<Pod::Text> and L<Pod::Simple> for information about what those errors might mean. Internally, it can also produce the following diagnostics:

=over 4

=item -c (--color) requires Term::ANSIColor be installed

(F) B<-c> or B<--color> were given, but Term::ANSIColor could not be
(F) An unknown command line option was given.

In addition, other L<Getopt::Long> error messages may result from invalid command-line options.

=head1 ENVIRONMENT

=over 4

=item COLUMNS

If B<-t> is given, B<pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

=item TERMCAP

If B<-t> is given, B<pod2text> will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

=head1 SEE ALSO

L<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>,
L<Pod::Text::Termcap>, L<Pod::Simple>, L<perlpod(1)>

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it
under the same terms as Perl itself.

=cut

No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwVvIT/podlators-2.5.1/scripts/pod2text

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  4523
perlpodstyle - Perl POD style guide

=head1 NAME

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man pages. All of these guidelines are, of course, optional, but following them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using `<b>` everywhere it occurs, as are all program options. Arguments should be written in italics (`<i>`). Function names are traditionally written in italics; if you write a function as function(), Pod::Man will take care of this for you. Literal code or commands should be in `<code>`. References to other man pages should be in the form `<manpage(section)>` or `<manpage(section)>`, and Pod::Man will automatically format those appropriately. The second form, with `<manpage(section)>`, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use `<manpage(Module::Name>>` for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in `<code>`.

The major headers should be set out using a `<h1>` directive, and are historically written in the rather startling ALL UPPER CASE format; this
is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using C<\=head2>, and are typically in mixed case.

The standard sections of a manual page are:

=over 4

=item NAME

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

    foo, bar - programs to do something

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as C<lt>E<gt> or BE<lt>E<gt> anywhere in this line. Functions should not be qualified with C<()> or the like. The description should ideally fit on a single line, even if a man program replaces the dash with a few tabs.

=item SYNOPSIS

A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim block showing some (brief) examples of typical ways the module is used.

=item DESCRIPTION

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections C<\=head2> directives like:

=head2 Normal Usage

=head2 Advanced Features

=head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces
provided by the module goes, usually in the form of a list with an
C<item> for each interface. Depending on how many interfaces there are,
you may want to put that documentation in separate METHODS, FUNCTIONS,
CLASS METHODS, or INSTANCE METHODS sections instead and save the
DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the
program. This should be separate from the description for the use of
parsers like L<Pod::Usage>. This is normally presented as a list, with
each option as a separate C<item>. The specific option string should be
enclosed in BE<lt>E<gt>. Any values that the option takes should be
enclosed in IE<lt>E<gt>. For example, the section for the option
B<--section>=I<manext> would be introduced with:

=item B<--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a
comma and a space on the same C<item> line, or optionally listed as their
own item with a reference to the canonical name. For example, since
B<--section> can also be written as B<-s>, the above would be:

=item B<-s> I<manext>, B<--section>=I<manext>

Writing the short option first is recommended because it's easier to read.
The long option is long enough to draw the eye to it anyway and the short
option can otherwise get lost in visual noise.

=item RETURN VALUE

What the program or function returns, if successful. This section can be
omitted for programs whose precise exit codes aren't important, provided
they return 0 on success and non-zero on failure as is standard. It
should always be present for functions. For modules, it may be useful to
summarize return values from the module interface here, or it may be more
useful to discuss return values separately in the documentation of each
function or method the module provides.

=item ERRORS

Exceptions, error return codes, exit statuses, and errno settings.
Typically used for function or module documentation; program documentation
uses DIAGNOSTICS instead. The general rule of thumb is that errors
printed to C<STDOUT> or C<STDERR> and intended for the end user are
documented in DIAGNOSTICS while errors passed internal to the calling
program and intended for other programmers are documented in ERRORS. When
documenting a function that sets errno, a full list of the possible errno
values should be given here.

=item DIAGNOSTICS

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item EXAMPLES

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using \c{over}, \c{item}, and \c{back}. For example:

\begin{verbatim}
 over 6
\end{verbatim}

=item HOME

Used to determine the user's home directory. F<.foorc> in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in FE<lt>E<gt>. It's particularly important to document files that will be potentially modified.
=item CAVEATS

Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-) 

=item NOTES

Miscellaneous commentary.

=item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends to roam the wild for far longer than you expect and pick a contact method that's likely to last.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

=item COPYRIGHT AND LICENSE

For copyright

Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

This library is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.
SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or catman(8). Normally a simple list of man pages separated by commas, or a paragraph giving the name of a reference work. Man page references, if they use the standard C\text{name(section)} form, don't have to be enclosed in \texttt{<lt>\texttt{E<gt>}} (although it's recommended), but other things in this section probably should be when appropriate.

If the package has a mailing list, include a URL or subscription instructions here.

If the package has a web site, include a URL here.

Documentation of object-oriented libraries or modules may want to use CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS sections, for detailed documentation of the parts of the library and save the DESCRIPTION section for an overview. Large modules with a function interface may want to use FUNCTIONS for similar reasons. Some people use OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L\texttt{Pod::Man}, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in \texttt{<lt>\texttt{E<gt>}}, so don't do that.

SEE ALSO

For additional information that may be more accurate for your specific system, see either L\texttt{man(5)} or L\texttt{man(7)} depending on your system manual section numbering conventions.
This documentation is maintained as part of the podlators distribution.
The current version is always available from its web site at

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation
taken from the documentation of the original B<pod2man> implementation by
Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

<rra@stanford.edu>.

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it under the same terms as Perl itself.

=cut

Found in path(s):
  * /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaNQ66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/pod/perlpodstyle.pod

1.476 libsemanage 2.5-14.el7

1.476.1 Available under license :

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
</xsl:if>
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From 7fd4eb9313154f3b3458ea07d6a12f0be26d2a4e Mon Sep 17 00:00:00 2001
From: Lee Duncan <lduncan@suse.com>
Date: Wed, 21 Mar 2018 16:43:33 -0700
Subject: [PATCH] Use correct size when copying nic name.

The incorrect length was being used to copy
the NIC name.

Found by gcc-8, which gave this error:
> [ 19s] nic_utils.c: In function 'nic_util_enable_disable_multicast':
> [ 19s] nic_utils.c:308:9: warning: argument to 'sizeof' in 'strncpy'
>             call is the same expression as the source; did you mean to
>             use the size of the destination? [-Wsizeof-pointer-memaccess]
> [ 19s]    sizeof(nic->eth_device_name));
> [ 19s]          ^
---
iscsiuio/src/unix/nic_utils.c | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/iscsiuio/src/unix/nic_utils.c b/iscsiuio/src/unix/nic_utils.c
index e2f294389840..786f2a4d5b5d 100644
--- a/iscsiuio/src/unix/nic_utils.c
+++ b/iscsiuio/src/unix/nic_utils.c
@@ -305,7 +305,7 @@ static int nic_util_enable_disable_multicast(nic_t *nic, uint32_t cmd)
/* Prepare the request */
memset(&ifr, 0, sizeof(ifr));
strncpy(ifr.ifr_name, nic->eth_device_name,
sizeof(ifr.ifr_name));
memcpy(ifr.ifr_hwaddr.sa_data, multicast_addr.addr, ETH_ALEN);

fd = socket(AF_INET, SOCK_DGRAM, 0);

--
2.17.2

1.484 pixman 0.34.0-1.el7
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1.485 spring-hateoas 0.25.1.RELEASE

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Lennart Poettering, 2009

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mario.blättermann@gmail.com

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Christian.Kirbach@gmail.com
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Sami Jaktholm</mal:name>

sjakthol@outlook.com</mal:email>

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Sami Jaktholm</mal:name>

sjakthol@outlook.com</mal:email>

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Sami Jaktholm</mal:name>

sjakthol@outlook.com</mal:email>

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1.496 postgresql 9.5.8

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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/OverloadedVarArgMethod.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/MethodUtilities.java

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jar/freemarker/core/ExistsExpression.java

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options {
    STATIC=false;
    UNICODE_INPUT=true;
    LEXER_CLASS="FMParserTokenManager";
    CONSTANTS_CLASS="FMParserConstants";
    // DEBUG_TOKEN_MANAGER=true;
    // DEBUG_PARSER=true;
}

PARSER_BEGIN(FMParser)

package freemarker.core;

import freemarker.template.*;
import freemarker.template.utility.StringUtil;
import freemarker.template.utility.DeepUnwrap;
import java.io.*;
import java.util.*;

/**
 * This class is generated by JavaCC from a grammar file.
 */
public class FMParser {

// Necessary for adding macros and setting location info.
Template template;
private String templateName;

// variables that keep track of whether we are in a loop or a switch.
private int loopNesting, switchNesting;
private boolean inMacro, inFunction, stripWhitespace, stripText;
private LinkedList escapes = new LinkedList();
private int contentNesting; // for stripText

/**
 * Create an FM expression parser using a string.
 */
static public FMParser createExpressionParser(String s) {
    SimpleCharStream scs = new SimpleCharStream(new StringReader(s), 1, 1, s.length());
    FMParserTokenManager token_source = new FMParserTokenManager(scs);
    token_source.SwitchTo(FMParserConstants.FM_EXPRESSION);
    return new FMParser(token_source);
}

/**
 * Constructs a new parser object.
 * @param template The template associated with this parser.
 * @param reader The character stream to use as input
 * @param strictEscapeSyntax Whether FreeMarker directives must start with a #
 */
public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace) {
    this(reader);
    this.template = template;
    token_source.strictEscapeSyntax = strictEscapeSyntax;
    this.templateName = template != null ? template.getName() : "";
    token_source.templateName = templateName;
    this.stripWhitespace = stripWhitespace;
}

public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace, int tagSyntax) {
    this(template, reader, strictEscapeSyntax, stripWhitespace);
    switch (tagSyntax) {
        case Configuration.AUTO_DETECT_TAG_SYNTAX :
            token_source.autodetectTagSyntax = true;
            break;
        case Configuration.ANGLE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = false;
            break;
        case Configuration.SQUARE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = true;
            break;
    }
public FMParser(String template) {
    this(null, new StringReader(template), true, true);
}

private String getErrorStart(Token t) {
    return "Error in template: " + template.getName()
            + "non line " + t.beginLine + ", column " + t.beginColumn;
}

/**
 * Throw an exception if the expression passed in is a String
 * Literal
 */
private void notStringLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof StringLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + "nFound string literal: " + exp
                + "nExpecting: " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a Number
 * Literal
 */
private void notNumberLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof NumberLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + "nFound number literal: " + exp.getCanonicalForm()
                + "nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a boolean
 * Literal
 */
private void notBooleanLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof BooleanLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + "nFound: " + exp.getCanonicalForm()
                + "nExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}
throw new ParseException(msg, exp);
}

/**
 * Throw an exception if the expression passed in is a Hash
 * Literal
 */
private void notHashLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof HashLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "unFound hash literal: " + exp.getCanonicalForm()
            + "unExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a List
 * Literal
 */
private void notListLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof ListLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "unFound list literal: " + exp.getCanonicalForm()
            + "unExpecting " + expected;
        throw new ParseException(msg, exp);
    }
}

/**
 * Throw an exception if the expression passed in is a literal
 * other than of the numerical type
 */
private void numberLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}

/**
 * Throw an exception if the expression passed in is
 * not a string.
 */
private void stringLiteralOnly(Expression exp) throws ParseException {

notNumberLiteral(exp, "number");
notListLiteral(exp, "number");
notHashLiteral(exp, "number");
notBooleanLiteral(exp, "number");
}

/**
 * Throw an exception if the expression passed in is a literal
 * other than of the boolean type
 */
private void booleanLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "boolean (true/false)");
    notListLiteral(exp, "boolean (true/false)");
    notHashLiteral(exp, "boolean (true/false)");
    notNumberLiteral(exp, "boolean (true/false)");
}

private Expression escapedExpression(Expression exp) {
    if(!escapes.isEmpty()) {
        return ((EscapeBlock)escapes.getFirst()).doEscape(exp);
    }
    return exp;
}

private boolean getBoolean(Expression exp) throws ParseException {
    TemplateModel tm = null;
    try {
        tm = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException(e.getMessage() + "Could not evaluate expression: ", exp);
    }
    if (tm instanceof TemplateBooleanModel) {
        try {
            return ((TemplateBooleanModel) tm).getAsBoolean();
        } catch (TemplateModelException tme) {
        }
    }
    if (tm instanceof TemplateScalarModel) {
        try {
            return StringUtil.getYesNo(((TemplateScalarModel) tm).getAsString());
        } catch (Exception e) {
            throw new ParseException(e.getMessage() + "Expecting yes/no, found: ", exp);
        }
    }
}

private boolean getBoolean(Expression exp) throws ParseException {
    TemplateModel tm = null;
    try {
        tm = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException(e.getMessage() + "Could not evaluate expression: ", exp);
    }
    if (tm instanceof TemplateBooleanModel) {
        try {
            return ((TemplateBooleanModel) tm).getAsBoolean();
        } catch (TemplateModelException tme) {
        }
    }
    if (tm instanceof TemplateScalarModel) {
        try {
            return StringUtil.getYesNo(((TemplateScalarModel) tm).getAsString());
        } catch (Exception e) {
            throw new ParseException(e.getMessage() + "Expecting yes/no, found: ", exp);
        }
    }
}
throw new ParseException("Expecting boolean (yes/no) parameter" + exp.getStartLocation(), exp);
)

PARSER_END(FMParser)

/**
 * The lexer portion defines 5 lexical states:
 * DEFAULT, FM_EXPRESSION, IN_PAREN, NO_PARSE, and EXPRESSIONCOMMENT.
 * The DEFAULT state is when you are parsing
 * text but are not inside a FreeMarker expression.
 * FM_EXPRESSION is the state you are in
 * when the parser wants a FreeMarker expression.
 * IN_PAREN is almost identical really. The difference
 * is that you are in this state when you are within
 * FreeMarker expression and also within (...).
 * This is a necessary subtlety because the
 * ">" and ">=\) symbols can only be used
 * within parentheses because otherwise, it would
 * be ambiguous with the end of a directive.
 * So, for example, you enter the FM_EXPRESSION state
 * right after a ${ and leave it after the matching }.
 * Or, you enter the FM_EXPRESSION state right after
 * an "<if" and then, when you hit the matching ">
 * that ends the if directive,
 * you go back to DEFAULT lexical state.
 * If, within the FM_EXPRESSION state, you enter a
 * parenthetical expression, you enter the IN_PAREN
 * state.
 * Note that whitespace is ignored in the
 * FM_EXPRESSION and IN_PAREN states
 * but is passed through to the parser as PCDATA in the DEFAULT state.
 * NO_PARSE and EXPRESSIONCOMMENT are extremely simple
 * lexical states. NO_PARSE is when you are in a comment
 * block and EXPRESSIONCOMMENT is when you are in a comment
 * that is within an FTL expression.
 */

TOKEN_MGR_DECLS :
{

/**
 * The noparseTag is set when we enter
 * a block of text that the parser more or less ignores.
 * These are <noparse> and <comment>. This variable
 * tells us what the closing tag should be, and when
 * we hit that, we resume parsing. Note that with this

scheme, <comment> and <noparse> tags cannot nest
recursively, but it is not clear how important that is.
*/
String noparseTag;
/**
Keeps track of how deeply nested
we have the hash literals.
This is necessary since we need to be
able to distinguish the } used to close
a hash literal and the one used to
close a ${
*/
private int hashLiteralNesting;
private int parenthesisNesting;
private int bracketNesting;
private boolean inFTLHeader;
boolean strictEscapeSyntax,
onlyTextOutput,
altDirectiveSyntax,
autodetectTagSyntax,
directiveSyntaxEstablished,
inInvocation;
String templateName;

// This method checks if we are in a strict mode where all
// FreeMarker directives must start with <#
private void strictSyntaxCheck(Token tok, int newLexState) {
if (onlyTextOutput) {
tok.kind = PRINTABLE_CHARS;
return;
}
char firstChar = tok.image.charAt(0);
if (autodetectTagSyntax && !directiveSyntaxEstablished) {
altDirectiveSyntax = (firstChar == '[');
}
if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
tok.kind = PRINTABLE_CHARS;
return;
}
if (!strictEscapeSyntax) {
SwitchTo(newLexState);
return;
}
if (!altDirectiveSyntax) {
if (!tok.image.startsWith("<#") && !tok.image.startsWith("</#")) {

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tok.kind = PRINTABLE_CHARS;
return;
}
}
directiveSyntaxEstablished = true;
SwitchTo(newLexState);
}

private void unifiedCall(Token tok) {
char firstChar = tok.image.charAt(0);
if (autodetectTagSyntax && !directiveSyntaxEstablished) {
    altDirectiveSyntax = (firstChar == '[');
}
if (altDirectiveSyntax && firstChar == '<') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
if (!altDirectiveSyntax && firstChar == '[') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
directiveSyntaxEstablished = true;
SwitchTo(NO_SPACE_EXPRESSION);
}

private void unifiedCallEnd(Token tok) {
char firstChar = tok.image.charAt(0);
if (altDirectiveSyntax && firstChar == '<') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
if (!altDirectiveSyntax && firstChar == ']') {
    tok.kind = PRINTABLE_CHARS;
    return;
}
}

private void closeBracket(Token tok) {
if (bracketNesting > 0) {
    --bracketNesting;
} else {
    tok.kind = DIRECTIVE_END;
    if (inFTLHeader) {
        eatNewline();
        inFTLHeader = false;
    }
    SwitchTo(DEFAULT);
}
private void eatNewline() {
    int charsRead = 0;
    try {
        while (true) {
            char c = input_stream.readChar();
            ++charsRead;
            if (!Character.isWhitespace(c)) {
                input_stream.backup(charsRead);
                return;
            } else if (c=='') {
                char next = input_stream.readChar();
                ++charsRead;
                if (next != '\n') {
                    input_stream.backup(1);
                }
                return;
            } else if (c=='\n') {
                return;
            }
        }
    } catch (IOException ioe) {
        input_stream.backup(charsRead);
    }
}

private void ftlHeader(Token matchedToken) {
    if (!directiveSyntaxEstablished) {
        altDirectiveSyntax = matchedToken.image.charAt(0) == '[';
        directiveSyntaxEstablished = true;
        autodetectTagSyntax = false;
    }
    String img = matchedToken.image;
    char firstChar = img.charAt(0);
    char lastChar = img.charAt(img.length() -1);
    if ((firstChar == '[' & altDirectiveSyntax) || (firstChar == '<' & altDirectiveSyntax)) {
        matchedToken.kind = PRINTABLE_CHARS;
    }
    if (matchedToken.kind != PRINTABLE_CHARS) {
        if (lastChar != '>' & lastChar != ']') {
            SwitchTo(FM_EXPRESSION);
            inFTLHeader = true;
        } else {
            eatNewline();
        }
    }
}
<MACRO : <START_TAG> "macro" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

<TRANSFORM : <START_TAG> "transform" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

VISIT : <START_TAG> "visit" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

STOP : <START_TAG> "stop" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

RETURN : <START_TAG> "return" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

CALL : <START_TAG> "call" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

SETTING : <START_TAG> "setting" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}

COMPRESS : <START_TAG> "compress" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

COMMENT : <START_TAG> "comment" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, NO_PARSE); noparseTag="comment";}

TERSE_COMMENT : ("" | ")" | "]" | "}" | "}" | --" > {noparseTag = "--"; strictSyntaxCheck(matchedToken, NO_PARSE);}

NOPARSE : <START_TAG> "noparse" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, NO_PARSE); noparseTag="noparse";}

END_IF : <END_TAG> "if" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_LIST : <END_TAG> "list" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_RECOVER : <END_TAG> "recover" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_ATTEMPT : <END_TAG> "attempt" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_FOREACH : <END_TAG> "foreach" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_LOCAL : <END_TAG> "local" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_GLOBAL : <END_TAG> "global" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_ASSIGN : <END_TAG> "assign" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

END_FUNCTION : <END_TAG> "function" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}

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| <AND : "&" | "&&">
|<OR : "||">
|<EXCLAM : "!">
|<COMMA : ",">
|<SEMICOLON : ";">
|<COLON : ":">
|<OPEN_BRACKET : "["> ++bracketNesting;
|<CLOSE_BRACKET : "]"> closeBracket(matchedToken);
|<OPEN_PAREN : "(" >
{ ++parenthesisNesting;
 if (parenthesisNesting == 1)
 switch(IN_PAREN);
}
|<CLOSE_PAREN : ")">
{
 --parenthesisNesting;
 if (parenthesisNesting == 0) {
 if (inInvocation) switch(NAMED_PARAMETER_EXPRESSION);
 else switch(FM_EXPRESSION);
 }
}
|<OPEN_BRACE : "{"> ++hashLiteralNesting;
|<CLOSE_BRACE : "}"> 
{
 if (hashLiteralNesting == 0)
 switch(DEFAULT);
 else
 --hashLiteralNesting;
 }
|<IN : "in">
|<AS : "as">
|<USING : "using">
<ID: <LETTER> (<LETTER>|<DIGIT>)* >

< #LETTER:
[
  "w0024",
  "w0040"-"w005a",
  "w005f",
  "w0061"-"w007a",
  "w00c0"-"w00d6",
  "w00d8"-"w00f6",
  "w00f8"-"w00ff",
  "w0100"-"w1fff",
  "w3040"-"w318f",
  "w3300"-"w337f",
  "w3400"-"w3d2d",
  "w4e00"-"w9fff",
  "w9f00"-"waff"
]
>

< #DIGIT:
[
  "w0030"-"w0039",
  "w0660"-"w0669",
  "w06f0"-"w06f9",
  "w0966"-"w096f",
  "w09e6"-"w09ef",
  "w0a66"-"w0a6f",
  "w0ae6"-"w0aef",
  "w0b66"-"w0b6f",
  "w0be7"-"w0bef",
  "w0c66"-"w0c6f",
  "w0ce6"-"w0cef",
  "w0d66"-"w0d6f",
  "w0e50"-"w0e59",
  "w0ed0"-"w0ed9",
  "w1040"-"w1049"
]
>

<FM_EXPRESSION, NO_SPACE_EXPRESSION, NAMED_PARAMETER_EXPRESSION> TOKEN:
{
  <DIRECTIVE_END : "">
  {
    if (inFTLHeader) eatNewline();
    inFTLHeader = false;
  }
}
if (altDirectiveSyntax) {
    matchedToken.kind = NATURAL_GT;
} else {
    SwitchTo(DEFAULT);
}

<EMPTY_DIRECTIVE_END : "/>" | "\]/"> {if (inFTLHeader) eatNewline(); inFTLHeader = false;
SwitchTo(DEFAULT);} ;

<IN_PAREN> TOKEN :
{
<NATURAL_GT : ">”>

<NATURAL_GTE : ">=”>

<NO_SPACE_EXPRESSION> TOKEN :
{
<TERMINATING_WHITESPACE : (["\n", "\r", "\t", " "])+: FM_EXPRESSION
}

<NAMED_PARAMETER_EXPRESSION> TOKEN :
{
<TERMINATING_EXCLAM : "!" (["\n", "\r", "\t", " "])+: FM_EXPRESSION
}

<NO_PARSE> TOKEN :
{
<TERSE_COMMENT_END : "-->" | "-->"} {
    if (noparseTag.equals("-->")) {
        boolean squareBracket = matchedToken.imageendsWith("["));
        SwitchTo(DEFAULT);
    }


<Maybe_END : 
("<" | "[")

"/"

("#")?
(["a"-"z", "A"-"Z"])+
( " " | "\t" | "\n" | "\r")* 
(">" | "]")
>
StringTokenizer st = new StringTokenizer(image.toString(),
        "\n\r<>[]/#",
        false);
if (st.nextToken().equals(noparseTag)) {
    SwitchTo(DEFAULT);
}

<KEEP_GOING : (~"<", "[", "]\-\")+>

<LONE_LESS_THAN_OR_DASH : ["<", "]", ",-\"]>

// Now the actual parsing code, starting
// with the productions for FreeMarker's
// expression syntax.

/**
 * This is the same as OrExpression, since
 * the OR is the operator with the lowest
 * precedence.
 */
Expression Expression() :
{
    Expression exp;
}
{
    exp=OrExpression()
    {
        return exp;
    }
}

/**
 * Lowest level expression, a literal, a variable,
 * or a possibly more complex expression bounded
 * by parentheses.
 */
Expression PrimaryExpression() :
{
    Expression exp;
}
{
    exp=NumberLiteral()
    |
exp=HashLiteral()
  |
exp=StringLiteral(true)
  |
exp=BooleanLiteral()
  |
exp=ListLiteral()
  |
exp=Identifier()
  |
exp=Parenthesis()
  |
exp=BuiltinVariable()
)
)
(LOOKAHEAD(<DOT>
  |<OPEN_BRACKET>
  |<OPEN_PAREN>
  |<BUILT_IN>
  |<EXCLAM>
  |<TERMINATING_EXCLAM>
  |<EXISTS>)
  exp=AddSubExpression(exp)
 )*
 {
  return exp;
}
}

Expression Parenthesis() :
{
  Expression exp, result;
  Token start, end;
}
{
  start=<OPEN_PAREN
  exp=Expression()
  end=<CLOSE_PAREN
  {
    result = new ParentheticalExpression(exp);
    result.setLocation(template, start, end);
    return result;
  }
}

/**
 * A primary expression preceded by zero or
 * more unary operators. (The only unary operator we
Expression UnaryExpression() :
{
    Expression exp, result;
    boolean haveNot = false;
    Token t = null, start=null;
}
{
    (result=UnaryPlusMinusExpression() |
    result=NotExpression() |
    result=PrimaryExpression())
    {
        return result;
    }
    /*
     * t=<EXCLAM>
     * haveNot = !haveNot;
     * if (start == null)
     *     start = t;
    */
    exp=PrimaryExpression()
    {
        result = exp;
        if (haveNot) {
            booleanLiteralOnly(exp);
            result = new NotExpression(exp);
            result.setLocation(template, start, exp);
        }
        return result;
    }
    */
}

Expression NotExpression() :
{
    Token t;
    Expression exp, result=null;
    ArrayList nots = new ArrayList();
}
(t=<EXCLAM> {nots.add(t);} )+
exp=PrimaryExpression()
{
    for (int i=0; i<nots.size(); i++) {
        result = new NotExpression(exp);
        Token tok = (Token) nots.get(nots.size() -i -1);
        result.setLocation(template, tok, exp);
        exp = result;
    }
    return result;
}

Expression UnaryPlusMinusExpression() :
{
    Expression exp, result;
    boolean isMinus = false;
    Token t;
}
{
    (t=<PLUS> |
    t=<MINUS> {isMinus = true;})
} exp=PrimaryExpression()
{
    result = new UnaryPlusMinusExpression(exp, isMinus);
    result.setLocation(template, t, exp);
    return result;
}

Expression AdditiveExpression() :
{
    Expression lhs, rhs, result;
    boolean plus;
}
{
    lhs=MultiplicativeExpression() {result = lhs;}
    (LOOKAHEAD(<PLUS>|<MINUS>)
    {
        <PLUS> {plus = true;}
    |}
<MINUS> {plus = false;}
)
)

rhs=MultiplicativeExpression()
{
    if (plus) {
        // plus is treated separately, since it is also
        // used for concatenation.
        result = new AddConcatExpression(lhs, rhs);
    }
    else {
        numberLiteralOnly(lhs);
        numberLiteralOnly(rhs);
        result = new ArithmeticExpression(lhs,
                                             rhs,
                                             ArithmeticExpression.SUBTRACTION);
    }
    result.setLocation(template, lhs, rhs);
    lhs = result;
}
)*
{
    return result;
}
}

/**
 * A unary expression followed by zero or more
 * unary expressions with operators in between.
 */

Expression MultiplicativeExpression() :
{
    Expression lhs, rhs, result;
    int operation = ArithmeticExpression.MULTIPLICATION;
}
{
    lhs=UnaryExpression() {result = lhs;}
    (LOOKAHEAD(<TIMES>|<DIVIDE>|<PERCENT>))
    (   
        <TIMES> {operation = ArithmeticExpression.MULTIPLICATION;}
    | <DIVIDE> {operation = ArithmeticExpression.DIVISION;}
    | <PERCENT>{operation = ArithmeticExpression.MODULUS;}
    )
    )
rhs=UnaryExpression()
{
    numberLiteralOnly(lhs);
    numberLiteralOnly(rhs);
    result = new ArithmeticExpression(lhs, rhs, operation);
    result.setLocation(template, lhs, rhs);
    lhs = result;
}
)*
{
    return result;
}

Expression EqualityExpression() :
{
    Expression lhs, rhs, result;
    Token t;
}
{
    lhs=RelationalExpression() {result = lhs;}
|
    LOOKAHEAD(<NOT_EQUALS>|<EQUALS>|<DOUBLE_EQUALS>)
    (t=<NOT_EQUALS>
    |
    t=<EQUALS>
    |
    t=<DOUBLE_EQUALS>
)
    rhs=RelationalExpression()
    {
        notHashLiteral(lhs, "scalar");
        notHashLiteral(rhs, "scalar");
        notListLiteral(lhs, "scalar");
        notListLiteral(rhs, "scalar");
        result = new ComparisonExpression(lhs, rhs, t.image);
        result.setLocation(template, lhs, rhs);
    }
    ]
    {
        return result;
    }
}

Expression RelationalExpression() :
{
Expression lhs, rhs, result;
Token t;
}
{
  lhs=RangeExpression() {result = lhs;}
  
LOOKAHEAD(<NATURAL_GTE>|<ESCAPED_GTE>|<NATURAL_GT>|<ESCAPED_GT>|<LESS_THAN_EQUALS>|<LESS_THAN_EQUALS>|<LESS_THAN>)
  {
    t=<NATURAL_GTE>
    |  
    t=<ESCAPED_GTE>
    |  
    t=<NATURAL_GT>
    |  
    t=<ESCAPED_GT>
    |  
    t=<LESS_THAN_EQUALS>
    |  
    t=<LESS_THAN>
  
  }  
  rhs=RangeExpression()
  {
    notHashLiteral(lhs, "scalar");
    notHashLiteral(rhs, "scalar");
    notListLiteral(lhs, "scalar");
    notListLiteral(rhs, "scalar");
    notStringLiteral(lhs, "number");
    notStringLiteral(rhs, "number");
    result = new ComparisonExpression(lhs, rhs, t.image);
    result.setLocation(template, lhs, rhs);
  }
}
{
  return result;
}

Expression RangeExpression() :
{
Expression lhs, rhs=null, result;
}
{
  lhs=AdditiveExpression() {result = lhs;}
  
LOOKAHEAD(<DOT_DOT>)
  <DOT_DOT>

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LOOKAHEAD(Expression())
rhs=AdditiveExpression()
]
{
  numberLiteralOnly(lhs);
  if (rhs != null) {
    numberLiteralOnly(rhs);
  }
  Range range = new Range(lhs, rhs);
  if (rhs != null) {
    range.setLocation(template, lhs, rhs);
  } else {
    range.setLocation(template, lhs, lhs);
  }
  result = range;
}
]
{
  return result;
}
}

Expression AndExpression() :
{
  Expression lhs, rhs, result;
}
{
  lhs=EqualityExpression() {result = lhs;}
  (LOOKAHEAD(<AND>)
   <AND>
   rhs=EqualityExpression()
  )
  booleanLiteralOnly(lhs);
  booleanLiteralOnly(rhs);
  result = new AndExpression(lhs, rhs);
  result.setLocation(template, lhs, rhs);
  lhs = result;
})*
{
  return result;
}
}
Expression OrExpression() :
{
  Expression lhs, rhs, result;
}
{
  lhs=AndExpression() {result = lhs;}
  (LOOKAHEAD(<OR>)
  <OR>
  rhs=AndExpression()
  {
    booleanLiteralOnly(lhs);
    booleanLiteralOnly(rhs);
    result = new OrExpression(lhs, rhs);
    result.setLocation(template, lhs, rhs);
    lhs = result;
  }
  )*
  {
    return result;
  }
}

ListLiteral ListLiteral() :
{
  ArrayList values = new ArrayList();
  Token begin, end;
}
{
  begin=<OPEN_BRACKET>
  values=PositionalArgs()
  end=<CLOSE_BRACKET>
  {ListLiteral result = new ListLiteral(values);
    result.setLocation(template, begin, end);
    return result;
  }
}

Expression NumberLiteral() :
{
  Token op = null, t;
}
{
  (t=<INTEGER>
  | t=<DECIMAL>
Expression result = new NumberLiteral(template.getArithmeticEngine().toNumber(s));
Token startToken = (op != null) ? op : t;
result.setLocation(template, startToken, t);
return result;

Identifier Identifier() :
{
  Token t;
}
{
  t=<ID>
  {
    Identifier id = new Identifier(t.image);
    id.setLocation(template, t, t);
    return id;
  }

Expression IdentifierOrStringLiteral() :
{
  Expression exp;
}
{
  (exp=Identifier() | exp=StringLiteral(false))
  {
    return exp;
  }
}

BuiltinVariable BuiltinVariable() :
{
  Token dot, name;
}
{
  dot=<DOT>
  name=<ID>
  {
    BuiltinVariable result = null;
    try {

result = new BuiltinVariable(name.image);
} catch (ParseException pe) {
    pe.lineNumber = dot.beginLine;
    pe.columnNumber = dot.beginColumn;
    throw pe;
}
result.setLocation(template, dot, name);
return result;
}
}

/**
 * Production that builds up an expression
 * using the dot or dynamic key name
 * or the args list if this is a method invocation.
 */
Expression AddSubExpression(Expression exp) :
{
    Expression result = null;
    {
        {
            result=DotVariable(exp)
            | result=DynamicKey(exp)
            | result=MethodArgs(exp)
            | result=BuiltIn(exp)
            | result=DefaultTo(exp)
            | result=Exists(exp)
        }
        return result;
    }
}

Expression DefaultTo(Expression exp) :
{
    Expression rhs = null;
    Token t;
    {
        {
            t=<TERMINATING_EXCLAM>
            |
(  
  t=<EXCLAM>
  [  
    LOOKAHEAD(Expression())
      rhs=Expression()
    ]
  )
)

{  
  DefaultToExpression result = new DefaultToExpression(exp, rhs);  
  if (rhs ==null) {  
    result.setLocation(template, exp, t);
  }  
  else {  
    result.setLocation(template, exp, rhs);
  }
  return result;
}

Expression Exists(Expression exp) :
{
  Token t;
}
{
  t=<EXISTS>
  
  ExistsExpression result = new ExistsExpression(exp);
  result.setLocation(template, exp, t);
  return result;
}

Expression BuiltIn(Expression exp) :
{
  Token t=null;
}
{
  <BUILT_IN>
  t=<ID>
  
  BuiltIn result = null;
  try {
    result = BuiltIn.newBuiltIn(exp, t.image, t, templateName);
  } catch (ParseException pe) {
    pe.lineNumber = t.beginLine;
    pe.columnNumber = t.beginColumn;
    throw pe;
result.setLocation(template, exp, t);
return result;
}

/**
 * production for when a key is specified by <DOT> + keyname
 */
Expression DotVariable(Expression exp) {
    Token t;
}

<DOT>
{
    t=<ID> | t=<TIMES> | t=<DOUBLE_STAR>
    |
    (t=<LESS_THAN>
    | t=<LESS_THAN_EQUALS>
    | t=<ESCAPED_GT>
    | t=<ESCAPED_GTE>
    | t=<FALSE>
    | t=<TRUE>
    | t=<IN>
    | t=<AS>
    | t=<USING>
    )
    
    if (!Character.isLetter(t.image.charAt(0))) {
        String msg = getErrorStart(t)
            + "\n" + t.image + " is not a valid identifier."
        throw new ParseException(msg, t.beginLine, t.beginColumn);
    }
}

notListLiteral(exp, "hash");
notStringLiteral(exp, "hash");
notBooleanLiteral(exp, "hash");
Dot dot = new Dot(exp, t.image);
dot.setLocation(template, exp, t);
return dot;
}
/**
 * production for when the key is specified
 * in brackets.
 */
Expression DynamicKey(Expression exp) :
{
    Expression arg;
    Token t;
}

<OPEN_BRACKET>
arg=Expression()
t=<CLOSE_BRACKET>
{
    notBooleanLiteral(exp, "list or hash");
    notNumberLiteral(exp, "list or hash");
    DynamicKeyName dkn = new DynamicKeyName(exp, arg);
    dkn.setLocation(template, exp, t);
    return dkn;
}

/**
 * production for an arglist part of a method invocation.
 */
MethodCall MethodArgs(Expression exp) :
{
    ArrayList args = new ArrayList();
    Token end;
}

<OPEN_PAREN>
args=PositionalArgs() 
end=<CLOSE_PAREN>
{
    args.trimToSize();
    MethodCall result = new MethodCall(exp, args);
    result.setLocation(template, exp, end);
    return result;
}

StringLiteral StringLiteral(boolean interpolate) :
{
    Token t;
    boolean raw = false;
}
Expression BooleanLiteral() :
{
    Token t;
    Expression result;
}
{
    (t=<FALSE> {result = new BooleanLiteral(false);})
    |
    t=<TRUE> {result = new BooleanLiteral(true);}
}
{
    result.setLocation(template, t, t);
    return result;
}
Token begin, end;
Expression key, value;
ArrayList keys = new ArrayList();
ArrayList values = new ArrayList();
}
{
begin=<OPEN_BRACE>
[
    key=Expression()
    (<COMMA>|<COLON>)
    value=Expression()
    {
        stringLiteralOnly(key);
        keys.add(key);
        values.add(value);
    }
    (<COMMA>
    key=Expression()
    (<COMMA>|<COLON>)
    value=Expression()
    {
        stringLiteralOnly(key);
        keys.add(key);
        values.add(value);
    })*
]
end=<CLOSE_BRACE>
{
    HashLiteral result = new HashLiteral(keys, values);
    result.setLocation(template, begin, end);
    return result;
}
}

/**
* A production representing the $ [...] 
* that outputs a variable.
*/
DollarVariable StringOutput() :
{
    Expression exp;
    Token begin, end;
}
{
begin=<OUTPUT_ESCAPE>
exp=Expression()
{
    notHashLiteral(exp, "scalar");
    notListLiteral(exp, "scalar");
    notBooleanLiteral(exp, "scalar");
}
end=<CLOSE_BRACE>
{
    DollarVariable result = new DollarVariable(exp, escapedExpression(exp));
    result.setLocation(template, begin, end);
    return result;
}
}

NumericalOutput NumericalOutput():
{
    Expression exp;
    Token fmt = null, begin, end;
}
begin=<NUMERICAL_ESCAPE>
exp=Expression() {numberLiteralOnly(exp);}
[
<SEMICOLON>
fmt=<ID>
]
end=<CLOSE_BRACE>
{
    NumericalOutput result;
    if (fmt != null) {
        int minFrac = -1;  // -1 indicates that the value has not been set
        int maxFrac = -1;

        StringTokenizer st = new StringTokenizer(fmt.image, "mM", true);
        char type = '-';
        while (st.hasMoreTokens()) {
            String token = st.nextToken();
            try {
                if (type != '-') {
                    switch (type) {
                        case 'm':
                            if (minFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                                                  fmt.beginColumn);
                            minFrac = Integer.parseInt(token);
                            break;
                        case 'M':
                            if (maxFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                                                  fmt.beginColumn);
                            maxFrac = Integer.parseInt(token);
                            break;
                    }
                }
            } catch (ParseException e) {
                throw new ParseException("invalid formatting string", fmt.beginLine,
                                           fmt.beginColumn);
            }
        }
    }
}
maxFrac = Integer.parseInt(token);
break;
default:
    throw new ParseException();
}
type = '-';
} else if (token.equals("m")) {
type = 'm';
} else if (token.equals("M")) {
type = 'M';
} else {
    throw new ParseException();
}
}
}
catch (ParseException e) {
    String msg = getErrorStart(fmt) + "Invalid format specifier “
    + fmt.image;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
catch (NumberFormatException e) {
    String msg = getErrorStart(fmt) + "Invalid number in the format specifier “
    + fmt.image;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
}

if (maxFrac == -1) {
    if (minFrac == -1) {
        String msg = getErrorStart(fmt) + "Invalid format specification, at least one of m and M must be specified!“;
        throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
    }
    maxFrac = minFrac;
} else if (minFrac == -1) {
    minFrac = 0;
}

if (minFrac > maxFrac) {
    String msg = getErrorStart(fmt) + "Invalid format specification, min cannot be greater than max!“;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
if (minFrac > 50 || maxFrac > 50) {// sanity check
    String msg = getErrorStart(fmt) + "Cannot specify more than 50 fraction digits“;
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
result = new NumericalOutput(exp, minFrac, maxFrac);
} else {  // if format != null
    result = new NumericalOutput(exp);
}
result.setLocation(template, begin, end);
return result;
}

TemplateElement If() :
{
    Token start, end, t;
    Expression condition;
    TemplateElement block;
    IfBlock ifBlock;
    ConditionalBlock cblock;
}
{
    start=<IF>
    condition=Expression()
    <DIRECTIVE_END>
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(condition, block, true);
        cblock.setLocation(template, start, block);
        ifBlock = new IfBlock(cblock);
    }
    (t=<ELSE_IF>
    condition=Expression()
    LooseDirectiveEnd()
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(condition, block, false);
        cblock.setLocation(template, t, block);
        ifBlock.addBlock(cblock);
    }
)*
[
    t=<ELSE>
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(null, block, false);
        cblock.setLocation(template, t, block);
        ifBlock.addBlock(cblock);
    }
]
end=<END_IF>
{  
    ifBlock.setLocation(template, start, end);  
    return ifBlock;  
}

AttemptBlock Attempt() :  
{
    Token start, end;
    TemplateElement block, recoveryBlock;
}

{
    start=<ATTEMPT>
    block=OptionalBlock()
    recoveryBlock=Recover()
    {
        end=<END_RECOVER>
        |  
        end=<END_ATTEMPT>
    }
    {
        AttemptBlock result = new AttemptBlock(block, recoveryBlock);
        result.setLocation(template, start, end);
        return result;
    }
}

RecoveryBlock Recover() :  
{
    Token start;
    TemplateElement block;
}

{
    start=<RECOVER>
    block=OptionalBlock()
    {
        RecoveryBlock result = new RecoveryBlock(block);
        result.setLocation(template, start, block);
        return result;
    }
}
{start=<LIST> {++loopNesting;}
 exp=Expression()
 <AS>
 index=<ID>
 <DIRECTIVE_END>
 block=OptionalBlock()
 end=<END_LIST>
 {
 --loopNesting;
 IteratorBlock result = new IteratorBlock(exp,
 index.image,
 block,
 false);
 result.setLocation(template, start, end);
 return result;
 }
 }

IteratorBlock ForEach() :
 {
 Expression exp;
 Token index, start, end;
 TemplateElement block;
 }
 {
 start=<FOREACH> {++loopNesting;}
 index=<ID>
 <IN>
 exp=Expression()
 <DIRECTIVE_END>
 block=OptionalBlock()
 end=<END_FOREACH>
 {
 --loopNesting;
 IteratorBlock result = new IteratorBlock(exp,
 index.image,
 block,
 true);
 result.setLocation(template, start, end);
 return result;
 }
 }

VisitNode Visit() :
 {
 Token start, end;
 Expression targetNode, namespaces=null;
Recursion Node Recurse() :
{
    Token start, end = null;
    Expression node=null, namespaces=null;
}
{
    (  
        start=<SIMPLE_RECURSE>  
    )  
    (  
        start=<RECURSE>  
        [  
            node=Expression()  
        ]  
        [  
            <USING>  
            namespaces=Expression()  
        ]  
        end=LooseDirectiveEnd()  
    )  
    if (end == null) end = start;
    RecurseNode result = new RecurseNode(node, namespaces);
    result.setLocation(template, start, end);
    return result;
}

FallbackInstruction FallBack() :
{
    Token tok;
if (!inMacro)
  throw new ParseException(getErrorStart(tok)
    + "Cannot fall back ",
    tok.beginLine, tok.beginColumn);

FallbackInstruction result = new FallbackInstruction();
result.setLocation(template, tok, tok);
return result;

/**
 * Production used to break out of a loop or a switch block.
 */
BreakInstruction Break() {

Token start;

start=<BREAK>

if (loopNesting < 1 && switchNesting <1)

String msg = getErrorStart(start) + "
  + start.image
  + " occurred outside a loop or a switch block."
  throw new ParseException(msg, start.beginLine, start.beginColumn);

BreakInstruction result = new BreakInstruction();
result.setLocation(template, start, start);
return result;

/**
 * Production used to jump out of a macro.
 * The stop instruction terminates the rendering of the template.
 */
ReturnInstruction Return() {

Token start, end=null;
Expression exp = null;


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\[
\text{StopInstruction Stop()}:
\]

\[
\text{Token start = null; Expression exp = null;}
\]

\[
\text{(start=</HALT>}
\]

\[
\text{start=</STOP> exp=Expression() LooseDirectiveEnd()}
\]

\[
\text{StopInstruction result = new StopInstruction(exp);}
\]
result.setLocation(template, start, start);
return result;
}
}

TemplateElement Nested() :
{
Token t, end;
ArrayList bodyParameters;
BodyInstruction result = null;
}
{
(
(t=<SIMPLE_NESTED>)
{
result = new BodyInstruction(null);
result setLocation(template, t, 0);
}
)
|
|
(t=<NESTED>
bodyParameters=PositionalArgs()
end=LooseDirectiveEnd()
{
result = new BodyInstruction(bodyParameters);
result setLocation(template, t, end);
}
)
)
if (!inMacro) {
throw new ParseException(getErrorStart(t)
+ "Cannot use a ",
+ t.image
+ " instruction outside a macro."
, t.beginLine, t.beginColumn);
return result;
}

TemplateElement Flush() :
{
Token t;
}
t=<FLUSH>
{
    FlushInstruction result = new FlushInstruction();
    result.setLocation(template, t, t);
    return result;
}
}

TemplateElement Trim() :
{
    Token t;
    TrimInstruction result=null;
}
{
    (t=<TRIM> {result = new TrimInstruction(true, true);}
    |t=<LTRIM> {result = new TrimInstruction(true, false);}
    |t=<RTRIM> {result = new TrimInstruction(false, true);}
    |t=<NOTRIM> {result = new TrimInstruction(false, false);})
    {
        result.setLocation(template, t, t);
        return result;
    }
}

TemplateElement Assign() :
{
    Token start, end;
    int scope;
    Token id=null;
    Expression nameExp, exp, nsExp=null;
    String varName;
    ArrayList assignments = new ArrayList();
    Assignment ass;
    TemplateElement block;
}
{
    (start=<ASSIGN> {scope = Assignment.NAMESPACE;}
    |start=<GLOBALASSIGN> {scope = Assignment.GLOBAL;}
    |start=<LOCALASSIGN> {scope = Assignment.LOCAL;}}
{  
  scope = Assignment.LOCAL;
  if (!inMacro && !inFunction) {
    String msg = getErrorStart(start)
      + "Local variable assigned outside a macro."
      throw new ParseException(msg, start.beginLine, start.beginColumn);
  }
}

nameExp=IdentifierOrStringLiteral()
{
  varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
}

(<EQUALS>
  exp=Expression()
  {
    ass = new Assignment(varName, exp, scope);
    ass.setLocation(template, nameExp, exp);
    assignments.add(ass);
  }

  (LOOKAHEAD([<COMMA>](<ID>|<STRING_LITERAL>)<EQUALS>)
    [<COMMA>]
    nameExp=IdentifierOrStringLiteral()
    {
      varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() :
        nameExp.toString();
    }
    <EQUALS>
    exp=Expression()
    {
      ass = new Assignment(varName, exp, scope);
      ass.setLocation(template, nameExp, exp);
      assignments.add(ass);
    }
  )*  
}

id=<IN>

nsExp=Expression() { if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +
  "Cannot assign to namespace here.", id.beginLine, id.beginColumn);}
end=LooseDirectiveEnd()
{
  AssignmentInstruction ai = new AssignmentInstruction(scope);
  for (int i = 0; i< assignments.size(); i++) {  
    ai.addAssignment((Assignment) assignments.get(i));
  }
ai.setNamespaceExp(nsExp);
ai.setLocation(template, start, end);
return ai;
}
|
|
|
|
|
id=<IN>
nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) +
"Cannot assign to namespace here.", id.beginLine, id.beginColumn);}

DIRECTIVE_END
block=OptionalBlock()
{
    end=<END_LOCAL> {if (scope != Assignment.LOCAL) throw new ParseException(getErrorStart(end) +
"Mismatched assignment tags.", end.beginLine, end.beginColumn);}
    |
    end=<END_ASSIGN> {if (scope != Assignment.NAMESPACE) throw new
ParseException(getErrorStart(end) + "Mismatched assignment tags.", end.beginLine, end.beginColumn);}
    |
    end=<END_GLOBAL> {if (scope != Assignment.GLOBAL) throw new
ParseException(getErrorStart(end) + "Mismatched assignment tags", end.beginLine, end.beginColumn);}
}

BlockAssignment ba = new BlockAssignment(block, varName, scope, nsExp);
ba.setLocation(template, start, end);
return ba;

Include Include():
{
    Expression nameExp;
    Token att, start, end;
    Expression exp, parseExp = null, encodingExp = null;
}
{
    start=<_INCLUDE>
    nameExp=Expression()
    [<SEMICOLON>]
    (att=<ID>
    <EQUALS>
    exp=Expression()
    )
    String attString = att.image;
}
if (attString.equalsIgnoreCase("parse")) {
    parseExp = exp;
} else if (attString.equalsIgnoreCase("encoding")) {
    encodingExp = exp;
} else {
    String msg = getErrorStart(att) + "expecting parse= or encoding= to be specified."
    throw new ParseException(msg, att.beginLine, att.beginColumn);
}
}
)
end=LooseDirectiveEnd()
{ Include result = new Include(template, nameExp, encodingExp, parseExp);
  result.setLocation(template, start, end);
  return result;
}
}

LibraryLoad Import() :
{ Token start, end, ns;
  Expression nameExp;
}
{ start=<IMPORT>
  nameExp=Expression()
  <AS>
  ns=<ID>
  end=LooseDirectiveEnd()
  { LibraryLoad result = new LibraryLoad(template, nameExp, ns.image);
    result.setLocation(template, start, end);
    template.addImport(result);
    return result;
  }
}

Macro Macro() :
{ Token arg, start, end;
  Expression nameExp;
  String name;
  ArrayList argNames = new ArrayList();
  HashMap args = new HashMap();
  ArrayList defNames = new ArrayList();
Expression defValue=null;
TemplateElement block;
boolean isFunction = false, hasDefaults=false;
boolean isCatchAll = false;
String catchAll = null;
}
{
  (  
    start=<MACRO>
     
    start=<FUNCTION> {isFunction = true;}
 )
  
  if (inMacro || inFunction) {
    throw new ParseException(getErrorStart(start)
      + "\nMacros cannot be nested." , start.beginLine, start.endLine);
  }
  if (isFunction) inFunction = true; else inMacro = true;
}
nameExp=IdentifierOrStringLiteral()
{
  name = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
}
[<OPEN_PAREN>]
{
  arg=<ID> {defValue = null;}
  [<ELLIPSIS> { isCatchAll = true; }]
  [<EQUALS>
   defValue=Expression()
   {
     defNames.add(arg.image);
     hasDefaults = true;
   }
  ][<COMMA>]
{
  if (catchAll != null) {
    throw new ParseException(getErrorStart(arg)
      + "\nThere may only be one \"catch-all\" parameter in a macro declaration, "
      + "and it must be the last parameter.\", arg.beginLine, arg.endLine);
  }
  if (isCatchAll) {
    if (defValue != null) {
      throw new ParseException(getErrorStart(arg)
        + "\n\n\ncatch-all\" macro parameter may not have a default value.\", 
        arg.beginLine, arg.endLine);
    }
  }
}
catchAll = arg.image;
} else {
    argNames.add(arg.image);
    if (hasDefaults && defValue == null) {
        throw new ParseException(getErrorStart(arg)
            + "In a macro declaration, parameters without a default value 
            + "must all occur before the parameters with default values.",
            arg.beginLine, arg.endLine);
    }
    args.put(arg.image, defValue);
}
}
)*
[
<CLOSE_PAREN>
<DIRECTIVE_END>
block=OptionalBlock()
{
    end=<END_MACRO> { if(isFunction) throw new ParseException(getErrorStart(start) + "Expected function 
    end tag here.", start.beginLine, start.endLine); } 
    |
    end=<END_FUNCTION> { if(!isFunction) throw new ParseException(getErrorStart(start) + "Expected 
    macro end tag here.", start.beginLine, start.endLine); } 
    )
    { 
        inMacro = inFunction = false;
        Macro result = new Macro(name, argNames, args, block);
        result.setCatchAll(catchAll);
        result.isFunction = isFunction;
        result.setLocation(template, start, end);
        template.addMacro(result);
        return result;
    }
}

CompressedBlock Compress() :
{
    TemplateElement block;
    Token start, end;
}
{
    start=<COMPRESS>
    block=OptionalBlock()
    end=<END_COMPRESS>
    {
        CompressedBlock cb = new CompressedBlock(block);
        cb.setLocation(template, start, end);
        return cb;
TemplateElement UnifiedMacroTransform()
{
    Token start=null, end, t;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null, bodyParameters = null;
    String directiveName = null;
    TemplateElement nestedBlock = null;
    Expression exp;
}
{
    start=<UNIFIED_CALL>
    exp=Expression()
    {
        if (exp instanceof Identifier || (exp instanceof Dot && ((Dot) exp).onlyHasIdentifiers())) {
            directiveName = exp.getCanonicalForm();
        }
    }
}[<TERMINATING_WHITESPACE>]
    (LOOKAHEAD(<ID><EQUALS>)
        namedArgs = NamedArgs()
    )|
    positionalArgs=PositionalArgs()
)
[
    <SEMICOLON>{bodyParameters = new ArrayList();}
    [
        <TERMINATING_WHITESPACE>if=ID> {bodyParameters.add(t.image);}
        (</TERMINATING_WHITESPACE><COMMA>
            [<TERMINATING_WHITESPACE>if = ID> {bodyParameters.add(t.image);}
        )*
    ]
}
(end=<EMPTY_DIRECTIVE_END>
    |
        <DIRECTIVE_END>
    nestedBlock=OptionalBlock()
    end=<UNIFIED_CALL_END>
}{
    String s = end.image.substring(3);
    s = s.substring(0, s.length() -1).trim();
    if (s.length() >0 && !s.equals(directiveName)) {
String msg = getErrorStart(end);
if (directiveName == null) {
    throw new ParseException(msg + "\nExpecting </@>", end.beginLine, end.beginColumn);
} else {
    throw new ParseException(msg + "\nExpecting </@> or </@" + directiveName + ">", end.beginLine, end.beginColumn);
}

TemplateElement result = (positionalArgs != null) ? new UnifiedCall(exp, positionalArgs, nestedBlock, bodyParameters)
    : new UnifiedCall(exp, namedArgs, nestedBlock, bodyParameters);
result.setLocation(template, start, end);
return result;
}

TemplateElement Call() :
{
    Token start, end, id;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null;
    String macroName= null;
}
{
    start=<CALL>
    id=<ID> {macroName = id.image;}
    (LOOKAHEAD(<ID><EQUALS>)
    namedArgs=NamedArgs()
    [LOOKAHEAD(<OPEN_PAREN>)
    <OPEN_PAREN>
    ]
    positionalArgs=PositionalArgs()
    [<CLOSE_PAREN>]
    )
    end=LooseDirectiveEnd()
    {
        UnifiedCall result = null;
        if (positionalArgs != null) {
result = new UnifiedCall(new Identifier(macroName), positionalArgs, null, null);
}
else {
    result = new UnifiedCall(new Identifier(macroName), namedArgs, null, null);
}
result.legacySyntax = true;
result.setLocation(template, start, end);
return result;
}

HashMap NamedArgs() {
    HashMap result = new HashMap();
    Token t;
    Expression exp;
}
{
    
    t=<ID>
    <EQUALS>
    
    token_source.SwitchTo(token_source.NAMED_PARAMETER_EXPRESSION);
    token_source.inInvocation = true;
    }
    exp=Expression()
    {
        result.put(t.image, exp);
    }
    
}

ArrayList PositionalArgs() {
    ArrayList result = new ArrayList();
    Expression arg;
}
{
    
    [arg=Expression() {result.add(arg);}]
    ( [<COMMA>] arg=Expression() {result.add(arg);} )*
Comment Comment() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
    
    (start=<COMMENT>
    | start=<TERSE_COMMENT>)
    end=UnparsedContent(buf)
    {
        Comment result = new Comment(buf.toString());
        result.setLocation(template, start, end);
        return result;
    }
}

TextBlock NoParse() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
    
    start=<NOPARSE>
    end=UnparsedContent(buf)
    {
        TextBlock result = new TextBlock(buf.toString(), true);
        result.setLocation(template, start, end);
        return result;
    }
}

TransformBlock Transform() :
{
    Token start, end, argName;
    Expression exp, argExp;
    TemplateElement content = null;
    HashMap args = null;
}
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```
[
start=<TRANSFORM>
exp=Expression()
[<SEMICOLON>]
{
  argName=<ID>
  <EQUALS>
  argExp = Expression()
  {
    if (args == null) args = new HashMap();
    args.put(argName.image, argExp);
  }
})*
(
end=<EMPTY_DIRECTIVE_END>
  |
  (<DIRECTIVE_END>content=OptionalBlock()end=<END_TRANSFORM>)
)
} TransformBlock result = new TransformBlock(exp, args, content);
result.setLocation(template, start, end);
return result;
}

SwitchBlock Switch() :
{
  SwitchBlock switchBlock;
  Case caseIns;
  Expression switchExp;
  Token start, end;
  boolean defaultFound = false;
}
{
  start=<SWITCH>
  switchExp=Expression()
  <DIRECTIVE_END>
  {
    ++switchNesting;
    switchBlock = new SwitchBlock(switchExp);
  }
  (LOOKAHEAD(2)
  caseIns=Case()
  {
    if (caseIns.isDefault) {
      if (defaultFound) {
        if (defaultFound) {
```
String msg = getErrorStart(start)
   + "You can only have one default case in a switch statement";
   throw new ParseException(msg, start.beginLine, start.beginColumn);
}
defaultFound = true;
}
   switchBlock.addCase(caseIns);
}
)*
[<WHITESPACE>]
end=<END_SWITCH>
{
   --switchNesting;
   switchBlock.setLocation(template, start, end);
   return switchBlock;
}
}

Case Case() :
{
   Expression exp = null;
   TemplateElement block;
   boolean isDefault = false;
   Token start;
}
{
[<WHITESPACE>]
( start=<CASE>exp=Expression()<DIRECTIVE_END>
erral<DEFUAL>{isDefault = true;}
)
block=OptionalBlock()
{
   Case result = new Case(exp, block, isDefault);
   result.setLocation(template, start, block);
   return result;
}
}

EscapeBlock Escape() :
{
   Token variable, start, end;
   Expression escapeExpr;
   TemplateElement content;
}
{
   start=<ESCAPE>
variable=<ID>
<AS>
escapeExpr=Expression()
<DIRECTIVE_END>
{
    EscapeBlock result = new EscapeBlock(variable.image, escapeExpr, escapedExpression(escapeExpr));
    escapes.addFirst(result);
} content=OptionalBlock()
{
    result.setContent(content);
    escapes.removeFirst();
} end=<END_ESCAPE>
{
    result.setLocation(template, start, end);
    return result;
}
}

NoEscapeBlock NoEscape() :
{
    Token start, end;
    TemplateElement content;
}
{
    start=<NOESCAPE>
    {
        if(escapes.isEmpty()) {
            String msg = getErrorStart(start)
                + "noescape with no matching escape encountered.";
            throw new ParseException(msg, start.beginLine, start.beginColumn);
        }
        Object escape = escapes.removeFirst();
    } content=OptionalBlock()
    end=<END_NOESCAPE>
    {
        escapes.addFirst(escape);
        NoEscapeBlock result = new NoEscapeBlock(content);
        result.setLocation(template, start, end);
        return result;
    }
}

/**
 * Production to terminate potentially empty elements. Either a "">" or "="/"
 */
Token LooseDirectiveEnd():
{
    Token t;
}
{
    (t=<DIRECTIVE_END>
    | t=<EMPTY_DIRECTIVE_END>)
    {
        return t;
    }
}

PropertySetting Setting():
{
    Token start, end, key;
    Expression value;
}
{
    start=<SETTING>
    key=<ID>
    <EQUALS>
    value=Expression()
    end=LooseDirectiveEnd()
    {
        PropertySetting result = new PropertySetting(key.image, value);
        result.setLocation(template, start, end);
        return result;
    }
}

/**
 * A production for FreeMarker directives.
 */
TemplateElement FreemarkerDirective():
{
    TemplateElement tp;
}
{
    (tp=If()
    | tp=List()
    | tp=ForEach()
tp=Assign()
| tp=Include()
| tp=Import()
| tp=Macro()
| tp=Compress()
| tp=UnifiedMacroTransform()
| tp=Call()
| tp=Comment()
| tp=NoParse()
| tp=Transform()
| tp=Switch()
| tp=Setting()
| tp=Break()
| tp=Return()
| tp=Stop()
| tp=Flush()
| tp=Trim()
| tp=Nested()
| tp=Escape()
| tp=NoEscape()
| tp=Visit()
| tp=Recurse()
| tp=FallBack()
| tp=Attempt()
/**
 * Production for a block of raw text
 * i.e. text that contains no
 * FreeMarker directives.
 */

TextBlock PCData() :
{
    StringBuffer buf = new StringBuffer();
    Token t=null, start=null, prevToken = null;
}
{
    (LOOKAHEAD(<WHITESPACE>|<PRINTABLE_CHARS>|<FALSE_ALERT>)
    {
        prevToken = t;
        t=<WHITESPACE>
    |
        t=<PRINTABLE_CHARS>
    |
        t=<FALSE_ALERT>
    )
    {buf.append(t.image);
        if (start == null) start = t;
        if (prevToken != null) prevToken.next = null;
    }
    )+
    |
    if (stripText && contentNesting == 1)
        return TextBlock.EMPTY_BLOCK;

    TextBlock result = new TextBlock(buf.toString(), false);
    result.setLocation(template, start, t);
    return result;
}

/**
 * Production for dealing with unparsed content,
 * i.e. what is inside a comment or noparse tag.
 * It returns the ending token. The content
Token UnparsedContent(StringBuffer buf) :
{
    Token t;
}
{
    ((t=<KEEP_GOING> | t=<MAYBE_END> | t=<TERSE_COMMENT_END> | 
    t=<LONE_LESS_THAN_OR_DASH>)
    {
        buf.append(t.image);
    })+
    {
        buf.setLength(buf.length() - t.image.length());
        return t;
    }
}

TemplateElement Content() :
{
    MixedContent nodes = new MixedContent();
    TemplateElement elem, begin=null;
    contentNesting++;
}
{
    (LOOKAHEAD(1) // Just tells javacc that we know what we're doing.
    (elem=PCData() 
    | elem=StringOutput() 
    | elem=NumericalOutput() 
    | elem=FreemarkerDirective() 
    )
    {
        if (begin == null) {
            begin = elem;
        }
        nodes.addElement(elem);
    }
    )+
    {
        contentNesting--;
        nodes.setLocation(template, begin, elem);
        return nodes;
TemplateElement FreeMarkerText() :
{
    MixedContent nodes = new MixedContent();
    TemplateElement elem, begin = null;
}
{
    ( (elem=PCData())
     | elem=StringOutput() 
     | elem=NumericalOutput() ) 
    { if (begin == null) {
        begin = elem;
    }
    nodes.addElement(elem);
    }
    ) + 
    { nodes.setLocation(template, begin, elem);
    return nodes;
    }
}

/**
 * A production for a block of optional content.
 * Returns an empty Text block if there is no
 * content.
 */

TemplateElement OptionalBlock() :
{
    TemplateElement tp = TextBlock.EMPTY_BLOCK;
}
{

    LOOKAHEAD(1) // has no effect but to get rid of a spurious warning.
void HeaderElement() :
{
    Token key;
    Expression exp = null;
}
{
    [<WHITESPACE>]
    (</TRIVIAL_FTL_HEADER>
    |
    (<FTL_HEADER>
    |
    <ID>
    <EQUALS>
    exp=Expression()
    |
    String ks = key.image;
    TemplateModel value = null;
    try {
        value = exp.getAsTemplateModel(null);
    } catch (Exception e) {
        throw new ParseException("Could not evaluate expression: "
            + exp.getCanonicalForm() + " "
            + exp.getStartLocation()
            + "\nUnderlying cause: " +
            e.getMessage(), exp);
    }
    String vs = null;
    if (value instanceof TemplateScalarModel) {
        try {
            vs = ((TemplateScalarModel) exp).getAsString();
        } catch (TemplateModelException tme) {} 
    }
    if (template != null) {
        if (ks.equalsIgnoreCase("encoding")) {
            if (vs == null) {
                throw new ParseException("expecting encoding string here: "
                    + exp.getStartLocation(). exp);
            }
            String encoding = template.getEncoding();
        }
    }
}
if (encoding != null && !encoding.equals(vs)) {
    throw new Template.WrongEncodingException(vs);
}
else if (ks.equalsIgnoreCase("STRIP_WHITESPACE")) {
    this.stripWhitespace = getBoolean(exp);
}
else if (ks.equalsIgnoreCase("STRIP_TEXT")) {
    this.stripText = getBoolean(exp);
}
else if (ks.equalsIgnoreCase("STRICT_SYNTAX")) {
    this.token_source.strictEscapeSyntax = getBoolean(exp);
}
else if (ks.equalsIgnoreCase("ns_prefixes")) {
    if (!(value instanceof TemplateHashModelEx)) {
        throw new ParseException("Expecting a hash of prefixes to namespace URI's here. " +
    exp.getStartLocation(), exp);
    } TemplateHashModelEx prefixMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = prefixMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();)
        {
            String prefix = ((TemplateScalarModel) it.next()).getAsString();
            TemplateModel valueModel = prefixMap.get(prefix);
            if (!(valueModel instanceof TemplateScalarModel)) {
                throw new ParseException("Non-string value in prefix to namespace hash. " +
                        exp.getStartLocation(), exp);
            } String nsURI = ((TemplateScalarModel) valueModel).getAsString();
            try {
                template.addPrefixNSMapping(prefix, nsURI);
            } catch (IllegalArgumentException iae) {
                throw new ParseException(iae.getMessage() + " " + exp.getStartLocation(), exp);
            }
        }
    } catch (TemplateModelException tme) {
        }
    }
}
else if (ks.equalsIgnoreCase("attributes")) {
    if (!(value instanceof TemplateHashModelEx)) {
        throw new ParseException("Expecting a hash of attribute names to values here. " +
    exp.getStartLocation(), exp);
    } TemplateHashModelEx attributeMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = attributeMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();)
        {
            String attName = ((TemplateScalarModel) it.next()).getAsString();
        }
    } catch (TemplateModelException tme) {
        }
    }
Object attValue = DeepUnwrap.unwrap(attributeMap.get(attName));
template.setCustomAttribute(attName, attValue);
} catch (TemplateModelException tme) {
}
}
else {
    throw new ParseException("Unknown FTL header parameter: " + key.image,
                          key.beginLine, key.beginColumn);
}
}
}
)*
LooseDirectiveEnd()
)
}

Map ParamList() :
{
    Identifier id;
    Expression exp;
    Map result = new HashMap();
}
{
    (id=Identifier()<EQUALS>
    exp=Expression() {result.put(id.toString(), exp);}
    [<COMMA>]*
    {return result;
    }
}

/**
 * Root production to be used when parsing
 * an entire file.
 */
TemplateElement Root() :
{
    TemplateElement doc;
}
{
    [LOOKAHEAD[{<WHITESPACE>|(TRIVIAL_FTL_HEADER)|<FTL_HEADER>})}
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/NodeListModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumericalBuiltin.s
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Include.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/XmlEscape.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/TrimInstruction.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/NodeOutputter.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/HashLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/CaptureOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/StringUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/AttributeNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/SoftCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/JaxenXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BlockAssignment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/HtmlEscape.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/HashLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/CaptureOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/StringUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/AttributeNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/SoftCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/JaxenXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BlockAssignment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/HtmlEscape.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/HashLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/CaptureOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/StringUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/AttributeNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/SoftCacheStorage.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BlockAssignment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/HtmlEscape.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/HashLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/CaptureOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/StringUtil.java
jar/freemarker/core/Environment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/ParseException.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/CollectionAndSequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/Transform.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/AddConcatExpression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/MruCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/PropertySetting.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/CacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/XPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/NormalizeNewlines.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/StringArraySequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/PINodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/StrongCacheStorage.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/Template.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/StringBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NodeBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/CharacterDataNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/ElementModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/TemplateModelListSequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/SunInternalXalanXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BuiltIn.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/LibraryLoad.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/JythonRuntime.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/XalanXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/LibraryLoad.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/JythonRuntime.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/dom/XalanXPathSupport.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/LibraryLoad.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/StaticModels.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Interpret.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/UnifiedCall.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/InvalidReferenceException.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/SimpleSequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/GeneralPurposeNothing.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/xml/JaxenNamespaces.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/util/ModelCache.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/EvaluationUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/StringLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumericalOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Comment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/BeansWrapper.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/ant/JythonAntTask.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/util/WrapperTemplateModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/ClassUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/servlet/HttpParametersHashModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/debug/impl/DebuggerService.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/log/Log4JLoggerFactory.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jsp/JspContextModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/FreeMarkerTree.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/SimpleMapModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumberLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jsp/EventForwarding.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BooleanExpression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/DebugModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jython/JythonHashModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/TemplateHashModelEx.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/TemplateScalarModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BodyInstruction.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/WebappTemplateLoader.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/ListLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Configurable.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/AndExpression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BooleanExpression.java

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Third guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a fashion that prevents other entities from observing the contents of the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

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Jean-loup Gailly        Mark Adler
jlooup@gzip.org          madler@alumni.caltech.edu

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Email local part: hzmester  
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End

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1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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3. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
4. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
5. [10] Pietro Brooks <Pietro.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
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7. [12] Jean-Francois Boudreault
   <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
8. [13] Reg Clemens <reg@dxf.com> Oncore driver (Current maintainer)
9. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
10. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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13. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
14. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
15. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
16. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
17. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
18. [23] Glenn Hollinger <glen@herald.usask.ca> GOES clock driver
19. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
23. [28] H.Lambermont@chello.nl ntpsweep
24. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
25. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
26. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote ntp to comply with NTPv4 specification, ntpq saveconfig
27. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
28. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
29. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
30. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
31. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
32. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305

36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamil A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makefile, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.
* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.517 prettyfaces-jsf2 3.3.3

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Version 3, 29 June 2007

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1.534 netty-codec-dns 4.1.49.Final

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jar/io/netty/handler/codec/dns/DnsMessageUtil.java
1.535 pyxattr 0.5.1-5.el7
1.535.1 Available under license:

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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rel="contents">Contents</a>][a href="index.html#Top" title="Index" rel="index">Index</a></p></div>

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%result_floats %result_converted %result_converted_errors
%result_elements %result_directions_text);

use utf8;

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'contents' => [

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'command' => {}
},
'parent' => {},
'text' => '

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},

'parent' => {},
'text' => 'Currency

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},

'contents' => [

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In the appendix, we print the indices and references.
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1.554 findutils 4.6.0+git+20170828 2

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1.557 xorg-x11-server 1.20.4-7.el7

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1.564 pygobject 2.28.6-11.el7

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1.566 websocket-api 9.2.19.v20160908

1.567 jackson-mapper-asl 1.9.9

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Found in path(s):
* /opt/cola/permits/1109547945_1606332901.28/0/jackson-mapper-asl-1-9-9-sources-5-jar/org/codehaus/jackson/map/MappingJsonFactory.java
1.568 acl 2.2.51-14.el7

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1.575 gperftools 2.6.1-1.el7

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1.577 python-iniparse 0.4-6.ph3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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If such an object file uses only numerical parameters, data
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joiy@gmail.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Russ Cox <rsc@google.com>
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Sigurur sgeirsson <siggii@gmail.com>
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 */

1.599 bctls-fips 1.0.10

1.599.1 Available under license:
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public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");

Found in path(s):
* /opt/cola/permits/1137933172_1614175016.68/0/bctls-fips-1-0-10-sources-2-
  jar/org/bouncycastle/tls/ProtocolName.java

1.600 jq 1.6-2.el7

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### 1.601 infinispan-cachestore-remote

### 5.2.7.Final-redhat-2

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1.602 fast-infoset 1.2.15

1.603 libmbim 1.14.2-1.el7

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Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
    Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
    Peter Allworth <linsol at zeta dot org dot au>,
    James Bottomley <jejb at parisc-linux dot org>,
    Lars Marowsky-Bree <lmb at suse dot de>,
    Kurt Garloff <garloff at suse dot de>,
    Grant Grundler <grundler at parisc-linux dot org>,
    Christophe Varoqui <christophe dot varoqui at free dot fr>,
    Michael Weller <eowmob at exp-math dot uni-essen dot de>,
    Eric Youngdale <eric at andante dot org>,

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1.609 gnome-disk-utility 3.28.3-1.el7

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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the executable.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
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standard defined by a recognized standards body, or, in the case of
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implementation is available to the public in source code form. A
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(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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d) Verify that the user has already received a copy of these
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.616 qemu 2.11+dfsg-1ubuntu7.36
1.616.1 Available under license:
/*
 * FreeBSD strace list
 * *
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 * (at your option) any later version.
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 * GNU General Public License for more details.
 *
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 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(""%s"", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(""%s"", %d, %#x)", NULL, NULL },
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<thead>
<tr>
<th>Function</th>
<th>Symbol</th>
<th>Args</th>
</tr>
</thead>
<tbody>
<tr>
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<td>&quot;%s(%s&quot;, %d, %%s&quot;, %#x, %d)&quot;, NULL, NULL, NULL</td>
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<td>TARGET_FREEBSD_NR_fchdir</td>
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<td>NULL, NULL, NULL</td>
</tr>
<tr>
<td>TARGET_FREEBSD_NR_fchmod</td>
<td>fchmod</td>
<td>&quot;%s(%d,%#o)&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_fchown</td>
<td>fchown</td>
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<td>TARGET_FREEBSD_NR_fsync</td>
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<td>TARGET_FREEBSD_NR_futimes</td>
<td>futimes</td>
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</tr>
<tr>
<td>TARGET_FREEBSD_NR_getcontext</td>
<td>getcontext</td>
<td>&quot;%s(%#x)&quot;, NULL, NULL, NULL</td>
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<tr>
<td>TARGET_FREEBSD_NR_getdirentries</td>
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<td>getpgrp</td>
<td>&quot;%s()&quot;, NULL, NULL, NULL</td>
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<tr>
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<td>&quot;%s(%#x,%#x)&quot;, NULL, NULL, NULL</td>
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<tr>
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<tr>
<td>TARGET_FREEBSD_NR_iocntl</td>
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[TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL ],
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{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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the executable.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.
To `modify` a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a `modified version` of the earlier work or a work `based on` the earlier work.

A `covered work` means either the unmodified Program or a work based on the Program.

To `propagate` a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To `convey` a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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@item Source Code.

The `source code` for a work means the preferred form of the work for making modifications to it. `Object code` means any non-source form of a work.

A `Standard Interface` means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The `System Libraries` of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A `Major Component`, in this context, means a major essential component.
(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
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@item The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
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Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
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next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of
the work are being offered to the general public at no charge under
subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

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consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
``normally used'' refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects or is expected
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and...
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agi@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
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Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.625 libusbmuxd 1.0.10-5.el7

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1.627 hazelcast 3.12.3

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1.631 compat-gnome-desktop314 3.14.2-1.el7

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  <listitem>
    (So hat z.B. eine Funktion zum Berechnen von Quadratwurzeln einen von der Anwendung unabhängigen genau definierten Zweck. Deshalb verlangt 2 Absatz d, dass jede von der Anwendung bereitgestellte Funktion oder von dieser Funktion benutzte Tabelle optional sein muss: Auch wenn die Anwendung sie nicht bereitstellt, muss die Quadratwurzelfunktion trotzdem noch Quadratwurzeln berechnen.)</listitem>
  <listitem>
    Diese Anforderungen gelten für das bearbeitete Werk als Ganzes. Wenn identifizierbare Teile davon nicht von der Bibliothek stammen und vermutlicherweise als unabhängige und gesonderte Werke für sich selbst zu betrachten sind, dann gelten diese Lizenz und ihre Bedingungen nicht für die betreffenden Teile, wenn sie als gesonderte Werke weitergeben. Wenn Sie jedoch dieselben Teile als Teil eines Ganzen weitergeben, dann ein auf der Bibliothek basierendes Werk darstellt, dann muss die Weitergabe dieses Ganzen nach den Bedingungen dieser Lizenz erfolgen, deren Bedingungen für weitere Lizenznehmer somit auf das gesamte Ganze ausgedehnt werden und somit auf jeden einzelnen Teil, unabhängig vom jeweiligen Autor.</listitem>
  <listitem>
    Somit ist es nicht die Absicht dieses Abschnittes, Rechte für Werke in Anspruch zu nehmen oder Ihnen Rechte für Werke streitig zu machen, die komplet von Ihnen geschrieben wurden; vielmehr ist es die Absicht, die Rechte zur Kontrolle der Verbreitung von Werken, die auf der Bibliothek basieren oder unter ihrer auszugsweisen Verwendung zusammengestellt worden sind, auszubauen.</listitem>
  <listitem>
    Ferner bringt auch das einfache Zusammenlegen eines anderen Werkes, das nicht auf der Bibliothek basiert, mit der Bibliothek oder mit einem auf der Bibliothek basierenden Werk auf ein- und demselben Speicher- oder Vertriebsmedium dieses andere Werk nicht in den Anwendungsbereich dieser Lizenz.</listitem>
</orderedlist>
Sie können sich für die Anwendung der Bedingungen der gewöhnlichen Allgemeinen öffentlichen GNU-Lizenz (GNU-GPL) statt dieser Lizenz auf eine gegebene Kopie der Bibliothek entscheiden. Um dies zu tun, müssen Sie alle Eintragungen, die sich auf diese Lizenz beziehen, ändern, so dass sie nun für die gewöhnliche GNU-GPL, Version 2, statt für diese Lizenz (LGPL) gelten. (Wenn eine neuere Version als Version 2 der gewöhnlichen GNU-GPL erschienen ist, können Sie diese angeben, wenn Sie das wünschen.) Nehmen Sie keine anderen Veränderungen in diesen Eintragungen vor.

Wenn diese Veränderung in einer gegebenen Kopie einmal vorgenommen ist, dann ist sie für diese Kopie nicht mehr zurücknehmbar, und somit gilt dann die gewöhnliche GNU-GPL für alle nachfolgenden Kopien und abgeleiteten Werke, die von dieser Kopie gemacht worden sind.

Diese Option ist nützlich, wenn Sie einen Teil des Codes der Bibliothek in ein Programm kopieren wollen, das keine Bibliothek ist.

Sie können die Bibliothek (oder einen Teil oder eine Ableitung von ihr, gemäß Paragraph 2) in Objektcode-Form oder in ausführbarer Form unter den Bedingungen der obigen Paragraphen kopieren und weitergeben, sofern Sie den vollständigen entsprechenden maschinenlesbaren Quelltext beifügen, der unter den Bedingungen der obigen Paragraphen kopiert wird, und auf einem Medium weitergegeben werden muss, das blicksicher zum Austausch von Software benutzt wird.

Wenn die Weitergabe von Objektcode durch das Angebot eines Zugangs zum Kopienabruf von einem angegebenen Ort erfolgt, dann erfüllt das Angebot eines gleichwertigen Zugangs zum Kopieren des Quelltextes von demselben Ort die Anforderung, auch den Quelltext weiterzugeben, obwohl Dritte nicht verplicht sind, den Quelltext zusammen mit dem Quellencode zu kopieren.


Wird jedoch ein Werk, das die Bibliothek nutzt, mit der Bibliothek gelinkt, so entsteht ein ausführbares Programm, das ein von der Bibliothek abgeleitetes Werk (weil es Teile der Bibliothek enthält) und kein Werk, das die Bibliothek nutzt. Das ausführbare Programm fällt daher unter diese Lizenz.
Paragraph 6 gibt die Bedingungen für die Weitergabe solcher ausführbarer Programme an.

Wenn ein Werk, das die Bibliothek nutzt, Material aus einer Header-Datei verwendet, die Teil der Bibliothek ist, dann kann der Objektkode für das Werk ein von der Bibliothek abgeleitetes Werk sein, selbst wenn der Quelltext dies nicht ist. Ob dies jeweils zutrifft, ist besonders dann von Bedeutung, wenn das Werk ohne die Bibliothek gelinkt werden kann oder wenn das Werk selbst eine Bibliothek ist. Die genaue Grenze, von der an dies zutrifft, ist rechtlich nicht genau definiert.


Sie müssen bei jeder Kopie des Werks deutlich erkennbar angeben, dass die Bibliothek darin genutzt wird und dass die Bibliothek und ihre Benutzung durch die Lizenz abgedeckt sind. Sie müssen eine Kopie dieser Lizenz mitgeben. Wenn das Werk bei seiner Ausführung Copyright-Vermerke anzeigt, müssen Sie den Copyright-Vermerk für die Bibliothek mit anzeigen lassen und dem Benutzer einen Hinweis geben, der ihn zu einer Kopie dieser Lizenz führt. Ferner müssen Sie eines der nachfolgend genannten fünf Dinge tun: 

- Liefern Sie das Werk zusammen mit dem vollständigen zugehörigen maschinenlesbaren Quelltext der Bibliothek aus, und zwar einschließlich jeglicher in dem Werk angewandter Änderungen (wobei dessen Weitergabe gem den Bedingungen der Paragraphen 1 und 2 erfolgen muss); und wenn das Werk ein ausführbares, mit der Bibliothek gelinktes Programm ist, dann liefern Sie es zusammen mit dem vollständigen maschinenlesbaren Werk, das die Bibliothek nutzt, in Form von Objektkode und/oder Quelltext, so dass der Benutzer die Bibliothek verndern und dann erneut linken kann, um ein verändertes ausführbares Programm zu erzeugen, das die veränderte Bibliothek enthält. (Es versteht sich, dass der Benutzer, der die Inhalte von Definitionsdateien in der veränderten Bibliothek verändert, nicht notwendigerweise in der Lage sein wird, die Anwendung neu zu kompilieren, um die veränderten Definitionen zu benutzen.)

Liefern Sie das Werk zusammen mit einem mindestens drei Jahre lang gültigen schriftlichen Angebot, demselben Benutzer die oben in <link linkend="sect6a">Paragraph 6, Absatz (a)</link> genannten Materialien zu Kosten, welche die reinen Weitergabekosten nicht berstein, zur Verfügung zu stellen.

Wenn die Weitergabe des Werks dadurch erfolgt, dass die Möglichkeit des Abrufens einer Kopie von einem bestimmten Ort angeboten wird, bieten Sie gleichwertigen Zugang zum Kopieren der oben angegebenen Materialien von dem gleichen Ort an.

Sie vergewissern sich, dass der Benutzer bereits eine Kopie dieser Materialien erhalten hat oder dass Sie diesem Benutzer bereits eine Kopie geschickt haben.

Fr ein ausführbares Programm muss die verlangte Form des <quote>Werks, das die Bibliothek nutzt</quote> alle Daten und Hilfsprogramme mit einschließen, die man braucht, um daraus das ausführbare Programm zu reproduzieren. Doch gilt eine spezielle Ausnahme: Die weiterzugebenden Materialien brauchen nicht alles das zu enthalten, was normalerweise (in Quelltext-Form oder in binärer Form) mit den Hauptbestandteilen (Compiler, Kern usw.) des Betriebssystems, auf denen das ausführbare Programm lauft, weitergegeben wird, es sei denn, das ausführbare Programm gehört selbst zu diesem Hauptbestandteil.

Es kann vorkommen, dass diese Anforderung im Widerspruch zu Lizenzbeschränkungen anderer, proprietärer Bibliotheken steht, die normalerweise nicht zum Betriebssystem gehören. Ein solcher Widerspruch bedeutet, dass Sie nicht gleichzeitig jene proprietären Bibliotheken und die vorliegende Bibliothek zusammen in einem ausführbaren Programm, das Sie weitergeben, verwenden drfnten.

Sie drfnten Bibliotheks-Funktionseinheiten, die ein auf der Bibliothek basierendes Werk darstellen, zusammen mit anderen, nicht unter diese Lizenz fallenden Funktionseinheiten in eine einzelne Bibliothek einbauen und eine solche kombinierte Bibliothek weitergeben, vorausgesetzt, da die gesonderte Weitergabe des auf der Bibliothek basierenden Werks einerseits und der anderen Funktionseinheiten andererseits ansonsten gestattet ist, und vorausgesetzt, da Sie folgende zwei Dinge tun:
Geben Sie zusammen mit der kombinierten Bibliothek auch eine Kopie desselben auf der Bibliothek basierenden Werks mit, die nicht mit irgendwelchen anderen Funktionseinheiten kombiniert ist. Dieses Werk muss unter den Bedingungen der obigen Paragraphen weitergegeben werden.

Weisen Sie bei der kombinierten Bibliothek an prominenter Stelle auf die Tatsache hin, dass ein Teil davon ein auf der Bibliothek basierendes Werk ist, und erklären Sie, wo man die mitgegebene un kombinierte Form desselben Werks finden kann.

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kkemenczy at novell dot com

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A <link linkend="fdl-document">Dokumentum</link> pldnnya olyan gppel olvashat vltozatot jelent, amely a nyilvonnossz szmra hozzfrhett formtumban kerl terjesztsre, tovbb amelynek tartalma alkalmaz a szokvnos szvegszerkeszt-programokkal, illetve (pixel ekkb II kpek esetn) szokvnos kpmegjelent-programokkal, vagy (rajzok esetn) Itlnosan hozzfrhett rajzprogramok segstsgvel azonnali s kvtelen vltoztatskor; tovbb olyan formtumban mely a szvegszerkesztkbe val bevitelre, vagy a szvegszerkesztk Itl kezelt formtumokra val automatikus talaktsra. Egy olyan, egybknk tltsz formtumban kszlt pldn, melynek a jellnyelve vagy ennek hinya gy lett kialaktva, hogy megakadlyozza, vagy eltntorts az olvaskat minden tovbbi mdoststl, nem tekintth tltsznak. A nem <quote>tltsz</quote> pldnok az <quote>tltszatlan</quote> megnevezst kapjk.</para>

Az tltszsg kritriumainak megfelel formtumok kzt megtallhat pldl a jellnyelvet nem haszn egyszer ASCII, a Texinfo beviteli formtum, a LaTeX beviteli formtum, az SGML vagy az XML egy ltalnosan hozzfrhett DTD hasznlatval, s a szabvnyak megfelel, emberi mdostsra tervezett egyszer HTML, PostScript vagy PDF. tltsz kpfortumokra plda a PNG, XCF s a JPG. Az tltszatlan formtumok kz sorolhata a a szellemi tulajdnt kpez formtumok, amelyeket csak szellemi tulajdnt kpez szvegszerkesztkkel lehet elolvasni, az olyan SGML vagy XML, amelyhez az szksges DTD s/vagy egyb feldolgoz eszkzk nem ltalnosan hozzfrhetk, s az olyan gpglet generlt HTML, PostScript vagy PDF formtum, amely kizrlag egyes szvegszerkesztk kimeneti formtumaknt ll el.\para>

Egy nyomtatott knyv esetben a <quote>Cmlap</quote> nagy a cmlapot, illetve brmely azt kiegszt tovbbi oldalt jelli, amely a jelen Licencben elrt cmlaptartalom kzzt kell szksges. Az olyan formtum munkknl, amelyek nem rendelkeznek effajta cmlappal, a <quote>Cmlap</quote> a munka cmnek legjobban kimelt vltozathoz legkzelebb es, m a szveg trzst megelz szvegrszeket jelli. \para>
</sect1>

A fest felteleteket betartva klsnhet is pldn yokat, de akr nyilvnnosan is kzzteheti a szveget. \para>
</sect1>

Amennyiben 100-nl tbb nyomtatott pldnnyt (vagy olyan adathordozn tallhat pldnnyokat, amelyeknek jellemzen van nyomtatott cmlapjuk) tesz kzz a <link linkend="fdl-document">Dokumentum</link>, a dokumentum Licence feltell szabja a Bortszvegek meglt, gy minden egyes pldnnyt kteles ellln olyan bortlapokkal, amelyeken a kvetz <link linkend="fdl-cover-texts">Bortszvegek</link> tisztn s olvashat fel vannak ttetve: Cmlapszvegek a cmlapon, illetve Htalszvegek a htlapon. Mindkbt bortlapra egytelen s olvashat fel s vezetnie a kiad, vagyis jelen esetben az n nevt. A cmlapon a Dokumentum teljes cmnek szerepelne kell, s a cm minden
szavnak egyformán kiemeltnek s lthatnak kell lennie. Ezen fell, belső szerint, további részleteket is hozzadhat a bortlapokhoz. Amennyiben az esetleges mdostok kizrlag a bortlapokat rintik, s feltve, hogy a <link linkend="fdl-document">Dokumentum</link> cme vltozatlan marad, tovább a bortlapok megfelelnek minden egyb kvetelmnynek, gy a sokszorosts ettl eltekintve sz szerinti sokszorostsnak minsl.</para>

<para>Abban az esetben, ha a bortlapok brmelyikn megkvetelt szegvességhez használat szorosnak bizonyulnak az olvashat kzzteltelje, gy csak az első felsoroltatakat kell felírtni (amennyi jzan belts szerint elfr) a tvódigo bort, a továbbiak pedig tkerhetnek a kvetkez oldalakra.</para>

<para>Amennyiben 100-nl tbb <link linkend="fdl-transparent">plittszatlan</link> pldnyt tesz kzz, vagy terjeszta a <link linkend="fdl-document">Dokumentumbl</link>, gy kteles vagy egy gppel olvashat <link linkend="fdl-transparent">plit</link> <link linkend="fdl-section4">4.</link> szakaszok fenti rendelkezsei alapjn, feltve, hogy a Mdostott Vltozatot kizrlag jelen Licenc feltteleivel szhangban teszi kzz, ahol a Mdostott Vltozat a Dokumentum szerept tlti be, ezltal lehetet biztosítja annak terjesztésre s mdostrsba brkinek, aki csak hozzjut egy pldnyhoz. Mindezen fell, a Mdostott Vltozat az albbi kvetelmnyeknek is meg kell, hogy feleljén:</para>

<para>Megkrjk, mde nem ktelezzk nt arra, hogy minden esetben, amikor nagyobb pldnyszm terjesztsbe kezd, m jval ezt megelzen lpjen kapcsolatba a <link linkend="fdl-document">Dokumentum</link> szerzivel, annak rdekben, hogy megkaphassa tlk a Dokumentum esetleges jabb vltozatt.</para>

<sect1 id="fdl-section4" label="4">
<title>MDOSTOSOK</title>

<para>nnek lehetsge van a <link linkend="fdl-document">Dokumentum</link> <link linkend="fdl-modified">Mdostott</link> Vltozatnak sokszorostsra s terjesztsre a <link linkend="fdl-section2">2.</link> s <link linkend="fdl-section3">3.</link> szakaszok fenti rendelkezsei alapjn, feltve, hogy a Mdostott Vltozatot kizrlag jelen Licenc feltteleivel sszhangban teszi kzz, ahol a Mdostott Vltozat a Dokumentum szerept tlti be, ezltal lehetet biztosítva annak terjesztésre s mdostrsba brkinek, aki csak hozzjut egy pldnyhoz. Mindezen fell, a Mdostott Vltozat az albbi kvetelmnyeknek is meg kell, hogy feleljén:</para>

<itemizedlist mark="upper-alpha">
<liitem>
<para>A <link linkend="fdl-title-page">Cmlapon</link> (s ha van, a bortkon) tntessen fel egy a <link linkend="fdl-document">Dokumentumbl</link>, illetve brmely korábbi vltozattl eltr cmet (amelyeknek, ha vannak, a Dokumentum Elzmnyek szakaszban kell szerepelni). Egy korbbi vltozat cmt csak akkor hasznhatja, ha annak szerje engedlyezte azt.</para>
</liitem>

<liitem>
<para>A <link linkend="fdl-title-page">Cmlapon</link> szerzkknt sorolja fel a <link linkend="fdl-modified">Mdostott Vltozathban</link> elvzett vltozatsokt felels termzesetes vagy jogi szemlyeket, tovább a <link linkend="fdl-document">Dokumentum</link> f szerzi kzl legkevesebb tt (vagy mindset, ha tnl kevesebben vannak) kivve, ha ezen felttel all k nt felmentik.</para>
</liitem>

</itemizedlist>
A Cmlapon a Modostott Vltozat kzzttelrt felels szemlyt tntesse fel kiadkn.</p>

A Dokumentum sszes szerzi jogi figyelmeztst hagyja rintetlenl.

Sajt mdostsaira vonatkozand is tegyen kzz egy szerzi jogi megjegyzst, a tbbi ilyen jelleg figyelmeztets mellett.

Rgtn a szerzi jogi figyelmezetsek kveten tntessen fel egy kzemnyt, az albbi Fggelk mintjra, amelyben engedlyez ez a Mdostott Vltozat felhasznlnst a jelen Licenc feltteleinek megfelelen.

Mellkelje a jelen Licenc egy eredeti pldnnyt.

Az Elzmnyek elnevez szakaszt, illetve annak cmt szintn hagyja rintetlenl, emellett adjon hozz egy j elemet, amely minimilisan tartalmazza a Mdostott Vltozat cmt, kiadsi vt, tovbb a szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan. Amennyiben a Dokumentum nem tartalmaz semmifle Elzmnyek elnevez szakaszt, gy hozzon ltre egyet, amely tartalmazza a Dokumentum cmt, kiadsi vt, tovbb a szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan; majd ezt kveten adjon hozz egy j, a Mdostott Vltozatra vonatkoz elemet, a fentiekkel sszhangban.

Ne tegyen vltztsakokat a Dokumentumban megadott tltsz pldnny a nyilvnos hzati elrhst (ha van ilyen) illeten, vagy hasonlkpp, a Dokumentum alapjul szolg korbbi vltzatok hzati helyre vonatkozand. Ezek az Elzmnyek elnevez szakaszb is szerepelhetnek. Csak abban az esetben hagyhatja el egyes korbbi vltzatok hzati elrhst, ha azok legkevesebb ny vvel a Dokumentum elt ksztek, vagy ha maga az alkot engedlyez azt.
<listitem>
  <para>Brmely <quote>Ksznetnyilvnts</quote>, vagy <quote>Ajnlsok</quote> elnevezs szakasz cmt hagyja rintetlenl, tovbb gondoskodjon arrl, hogy azok tartalma s hangvtele az egyes hozzjrulkat, s/vagy az ajnlsokat illeten vltotzatlan maradjon.</para>
</listitem>

</listitem>

<listitem>
  <para>A <link linkend="fdl-document">Dokumentum</link> sszes <link linkend="fdl-invariant">Nem Vltoztathats</link> szakaszt hagyja rintetlenl, gy cmket, mint tartalmukat illeten. A szakaszok szmoza, vagy brmely azzal egyenrtk jells nem tartozik a szakaszemek kz.</para>
</listitem>

</listitem>

<listitem>
  <para>Trljn minden <quote>Hozzjruls</quote> elnevezs szakaszt. Effajta szakaszok nem kpezhetik rszt a <link linkend="fdl-modified">Mdostott Vltozatnak</link>.</para>
</listitem>

</listitem>

<listitem>
  <para>Ne nevezen t semmilyen ltez szakaszt <quote>Hozzjruls</quote> elnevezsre, vagy olyasmire, amely cmben a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszokkal tkzhet.</para>
</listitem>

</listitem>

<itemizedlist>

  <para>Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasznak</link> minslnek, m nem tartalmaznak a Dokumentumbl szrm az anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az sszeset besorolhatja nem vltotzathatkn. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjban. E cmeknek hatrozottan el kell klnln minden egyb szakaszcntl.</para>

  <para><quote>Hozzjruls</quote> elnevezs szakaszt csak akkor adhat a Dokumentumhoz, ha az kizrlag a <link linkend="fdl-modified">Mdostott Vltozatra</link> utal megjegyzéseket tartalmaz pdl msok recenziira vonatkozan, vagy hogy egy szervezet a szveget egy szabvny mrvad definicejakt ismerte el.</para>

  <para><link linkend="fdl-cover-texts">Cmlapszveg</link> gyannt egy legfeljebb t szbl ll szvegrszt adhat meg, a <link linkend="fdl-cover-texts">Htlapszveg</link> esetn pedig 25 szt fzhet a <link linkend="fdl-modified">Mdostott Vltozats</link> <link linkend="fdl-cover-texts">Bortszvegeinek</link> vghez. Brmely termszetes vagy jogi szemly csak s kizrlag egy Cmlapszveg s egy Htlapszveg rszt adhat (akr kivettn keresztl) a Dokumentumhoz. Ha a <link linkend="fdl-document">Dokumentum</link> mr rendelkezik Bortszveggel ehhez a vltotzathoz, mert korbban n adta hozz, vagy az a szervezet, amelynek nevben n fellp, akkor nem adhat hozz msik Bortszveget; a rgit mindazonltal lecserlheti, abban az esetben, ha az azt hozzad korbbi kiad egyrtelmen engedlyezni.</para>

  <para>A kzs <link linkend="fdl-document">Dokumentum</link> szerzi s kiadi ezzel a Licencsel nem jrlnak hozz nevk felhasznsara, a <link linkend="fdl-modified">Mdostott Vltozat</link> npszerstsre, s nem tmogatj azt.</para>

</itemizedlist>

</sect1>
KOMBINLT DOKUMENTUMOK

nnek lehetsge van a Dokumentum/ linkend="fdl-document"/ egyeb, e Licenc hatlya alatt kiadott dokumentumokkal val kombinlsra a Dokumentum/ linkend="fdl-section4"/ mdostott vltozatokra vonatkoz rendelkezsei alapjn, felte, hogy a kombinci mdost nlkI tartalmazza az eredeti dokumentumok szes link linkend="fdl-invariant"/ Nem Vltozatathat/ linkend="fdl-invariant"/ szakasz, s hogy azok mind Nem Vltozatathat szakaszknt kerlnk felsorolrsa a kombinlt munka licencben, s tartalmazzk a hozzjuk tartoz Garancik Kizrsait is.

A kombinlt munknak a jelen Licenc mindssze egy pldnnyt kell tartalmaznia, az egymssal tdedsben lv link linkend="fdl-invariant"/ Nem Vltozatathat/ linkend="fdl-invariant"/ szakaszok pedig kivlthat egy szezgzt pldnnyal. Amennyiben tbb Nem Vltozatathat szakasz szerepelne ugyanazon cmmel, eltr tartalommal, gy alakts t minden egyes szakasz cmt olyan mdon, hogy mg rja srzbeln az eredeti szerz s kiad nevt (ha ismeri) vagy egy egyedi sorsznom. Ha szksges, a Nem Vltozatathat szakaszok cmeivel is vgeze el a fenti mdostokat a kombinlt munka licencben.

A kombinlt munkban az eredeti dokumentumok szses Elzmnyek/ elnevez szakaszts szse kell olvasztania, mittal egy szezfgg Elzmnyek/ elnevez szakasz jn ltre; hasonlkpp kell eljrna a Ksznetnyilvnts/ illetve az Ajnllok/ elnevez szakaszok tekintetben. Ugyanakkor minden Hozzjruls/ elnevez szakaszt trlnie kell.

DOKUMENTUMGYJTEMNYEK

nnek lehetsge van a Dokumentumbl/ illetve brmely egyeb, a jelen Licenc hatlya alatt kiadott dokumentumbll gyjtemnyt ltrehozni, s az egyes dokumentumokban tallhat licenceket egyetlen pldnnyal kivltani, felte, hogy a gyjtemnyben szerepl sszes dokumentum esetn minden ms tekintetben kveti a jelen Licenc feltteleit azok sz szerinti sokszorostsra vonatkozan.

Tetszse szerint ki is emelhet egy meghatrozott dokumentumot a gyjtemnybl, tovbb terjesztheti azt jelen Licenc feltteleil alapjn, felte, hogy a szban forg dokumentumhoz melli ki a jelen Licenc egy pldnnyt, s minden egyb tekintetben betartja jelen Licenc elsait a dokumentum sz szerinti sokszorostsra vonatkozan.

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A Dokumentum/ s annak szrmazkainak klnll, vagy fggetlen dokumentumokkal, illetve munkkkal val szzefsz egy ksz trolsi, vagy terjesztsi egysgen gyjtemnynek/ nevezend, amennyben az szzefsz eredmnyekppen rvnyes szerzi jogi felttelek nem korltozzk nagyobb mrtkben az szszefsz felhasznlnak jogait, mint amennyibe azt az egyes szzetevk tsvik. Amikor a Dokumentum rse egy gyjtemnynek, akkor a jelen Licenc nem rvnyes a gyjtemmy azon rszeire, amelyek nem a Dokumentumbl szrmaztatott munkk. Amennyiben a link linkend="fdl-section3"/3. szakasz/ linkend="fdl-cover-texts"/ Bortszvegekre/ vonatkoz rendelkezsei alkalmazhat a Dokumentum pldnnyaia, s a Dokumentum a teljes szszegsznek kevesebb, mint felt teszi ki, gy a Dokumentum Bortszvegeit olyan mdon is el lehet helyezni a bortkon, hogy azok csak magt a Dokumentumot fogik kzre, vagy a bortknak megfelel elektronikus formban, amennyiben a Dokumentum elektronikus formban tallhat. Minden ms esetben a teljes ssségs bortlapjain kell feltntteni a fenti szvegeket.
FORDTS

A fords egyfajta mdostsnak tekinthet, gy a Dokumentum lefordott pldnia a <link linkend="fdl-section4">4. szakasz</link> rendelkezsei alapján terjeszthet. A Nem Vltoztathat szakaszok lefordtshoz kín engedllyt kell krni a szerzi jogtulajdonsatl, mindazonlal kzztehet a lefordott vltozatok is gy, ha az eredeti Nem Vltoztathat szakaszokat is belefoglalja a munkba. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmellketre, illetve az esetleges Garancik Kizsaira ugyanezek a felttelek rvnyesek, vagyis a lefordott vltozatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kizsok szvegei is. Amennyiben eltrs mutatkozna az eredeti vltozatok, illetve a fords kzt, gy a Licenc, a mellkletek s kizsok angol nyelv eredeti tekeintend mrvadnak.</para>

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A jelen Licencben egyrtelmen kijelatt keretekn kvilos a <link linkend="fdl-document">Dokumentum</link> brminem sokszorostsa, mdostsa, tovbblicencelse, vagy terjesztese. Minden ezzel szembeni sokszorosts, mdst, tovbblicencelés, vagy terjesztsi ksrlet a jelen Licencben meghatrozott jogok automatikus megsznst vonja maga utn. Ugyanakkor azok a felek, akik nk keresztj jutottak msolathoz vagy jogosultsgkohoz, nem veszik el azokat, amg maradktalanul betartjik e Licenc elrsait.</para>

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A Licenc minden vltozata egyedi verziszmmal van eltva. Ha a <link linkend="fdl-document">Dokumentum</link> jelen Licenc egy konkrt, szmozt verzijra <quote>vagy brmely jabb verzira</quote> hivatkozik, gy nnek a szban forg vltozat, vagy brmely jabb a Free Software Foundation Ital (nem vzlatt) kiadott verzi felketsre lehetsge van. Ha a Dokumentum nem ad meg semmilyen verzisptom, gy brmely, a Free Software Foundation Ital valaha (nem vzlatt) kiadott vltozat megfelel.</para>

Fggelk

Ha a jelen Licencet egy n ltal rt dokumentumban kvnja hasznlni, akkor mellkelje hozz a Licenc egy plndyt, tovbb vezesse r az albbi szerzi jogi s licenckzlemnyeket, rgt a cmlapot kveten:</para>

Copyright (C) V AZ N NEVE.</para>

Engedllyt adunk nnek a jelen dokumentum sokszorostsra, terjesztsre s/vagy mdsorra a Free Software Foundation Ital kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzijnak feltelei alapjn. Nincs <link linkend="fdl-invariant">Nem Vltoztathat szakasz</link>, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link>. A jelen licenc egy plndyt a <quote>GNU Free Documentation License</quote> elnevez szakasz alatt tallja.
Amennyiben nincsenek nem vltotzathat szakaszok, akkor ahelyett a rsz helyett, hogy melyek nem vltotzathatak, rja azt, hogy Nem tartalmaz Nem vltotzathat szakaszokat.

Amennyiben nincsenek Cmlapszvegek, akkor a Cmlapszveg felsorolása helyett, rja azt, hogy Cmlapszveget nem tartalmaz;
hasonlán járjon el a Htlapszveg esetben.

Amennyiben a dokumentum nem egyértelms programképzőkat is tartalmaz, győ azt javasoljuk, hogy e pldkat egy vlaszátsa szerinti szabad szoftver licenc alatt kzlje mint pldul a GNU General Public License, hogy lehetv tegye a kdok szabad szoftverekben val alkalmazst.
A legtöbb szoftver licencei azzal a szándékkal készültek, hogy mindig kevesebb lehetőséget adjanak a szoftver megváltoztatásra és terjesztésre. Ezzel szemben a GNU GPL eljá, hogy garantálja a szabad szoftver módosításának és terjesztésének szabadsgát, ezáltal biztosítja a szoftver szabad felhasználhatóságát minden felhasználó számára.

A GPL szabályai vonatkoznak a Free Software Foundation legtöbb szoftverére, illetve minden olyan programra, melynek szerzője egy dnt, hogy ezt használja a szerző jog megjelölésekor. (A Free Software Foundation egyes szoftvereire a GNU LGPL vonatkozik.) Brík használhatja a programjaiban a GPL-t a szerzói jogi megjelölése szerint.

A szabad szoftver megjells nem jelenti azt, hogy a szoftvernek nem lehet rá. A GPL licencek eljá, hogy garantálja a szabad szoftver módosításainak szabad terjesztését (s e szolgáltatást akár díj felszámítását), a forrásbeli elhelyezésének, hogy brík szabadon módosíthatja a szoftvert, vagy felhasználhatja a szabad szoftver programokban; s hogy msok megismerhessek ezt a lehetőséget.

A szerző jogainak védelmében korlókozhat kell hozni, amelyek megtiltják, hogy brík megtagadhassa ezeket a jogokat, vagy ezekről val lemondásra knyszertsen brík mst. Ezek a megszorítsok bizonyos felelősségek
jelentenek azok szmra, akik a szoftver mslatait terjesztik vagy mdostjik.</para>

<para>Ha valaki pldul ilyen program mslatait terjeszt, akr ingyen vagy bizonyos szseg fejben, a szoftverre vonatkoz minden jogot tovbb kell adnia a fogad feleknek. Biztostani kell tovbb, hogy megkapj vagy legalbbis megkaphassk a forrskdot is. s persze ezeket a licencfelteleket is el kell juttatni, hogy tisztban legyenek a jogaikkal. </para>

<para>A jogok vdelne kt lpsbl ll: <orderedlist numeration="arabic"> 
</listitem>
<para>a szoftver szerzi jogainak vdelmbl s</para> 
</listitem> 
<listitem> 
<para>a jelen licenc biztostsbl, amely jogalapot biztost a szoftver molsra, terjesztsre s/vagy mdostsra.</para> 
</listitem> 
</orderedlist></para>

<para>Az egyes szerz s a magunk vdelmben biztostani akarjuk, hogy mindenki megtse: a jelen szabad szoftverre nincs jlls. Ha a szoftvert mdsottt s tovbbadt, akkor mindenkinke, aki a mdsott vlozatot kapja, tudnia kell, hogy az nem az eredeti, gy a msok Ital okozott hibknak nem lehet hatsa az eredeti szerz hrnevre.</para> 

<para>Vgl, a szabad szoftver lt Ilandan fenyegetik a szoftverszabadalmak. El szeretnkn kerlni annak veszlyt, hogy a szabad program terjeszti szabadalmat jegyezhessenek be r, ezltal sajt szellemi tulajdant kpezv tegyek a programot. Ennek megelzshhe tej szltni kvnj: szabadalom szabad szoftverrel kapcsolatban csak mindenki Itali szabad hasznlatra jegyezhet be, vagy egytlt nem jegyezhet be.</para>

<para>A msolsra, terjesztsre, mdostsra vonatkoz pontos szablyok s felttelek:</para> 

</sect1>

<sect1 id="terms" label="none">
<title>A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK</title>

<sect2 id="sect0" label="0">
<title>0. szakasz</title>

<para>Ez a licenc minden olyan programra vagy munkra vonatkozik, amelynek a szerzi jogi megjegyzsben a jog tulajdonosa a kvetkez szveget helyezte el: a GPL-ben foglaltak alapjn terjeszthet. Az albbiakban a <quote>Program</quote> kifejezs brmely ilyen programra vagy munkra vonatkozik, a Programon alapul munka pedig magt a programot vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a programot vagy annak egy rszlett, mdostottan vagy mdostatlanul s/vagy ms nyelve fordva. (Az albbiakban a fordts minden egyb megkts nlkl beletartozik a <quote>mdosts</quote> fogalmaba.) Minden engedlyezs cmzettje <quote>n</quote>.</para>

<para>A jelen licenc a mson, terjesztsen s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Program futtatsa nincs korltozva, illetve a Program kimenetre is csak abban az esetben vonatkozik ez a szablyozs, ha az tartalmazza a Programon alapul munka egy rszlett (fggetlenl attl, hogy ez a Program futtatsval jtt-e ltre). Ez teht a Program mdlstl fgg.</para> 
</sect2>
<sect2 id="sect1" label="1">
<title>1. szakasz</title>
<para>A Program forrásokja mdosts nélkül msohlhat, s brmely adatfordozz terjeszthet, feltve, hogy minden egyes pldnyn pontosan szerepel a megfelel szerzi jogi megjegyzs, illetve a garanciavállalás elutasas; tintetlenl kell hgyni minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programot kapj.</para>
</sect2>

<sect2 id="sect2" label="2">
<title>2. szakasz</title>
<para>A Program vagy annak egy rsze mdosthat, gy a Programon alapul munka jn ltre. A mdosts ezutn az <link linkend="sect1">1. szakaszban</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek:
<orderedlist numeration="loweralpha">
<li><para>A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vgz nevt s a mdostsok dtumt.</para></li>
<li><para>Minden olyan munkt, amely rszben vagy egzsbzen tartalmazza a Programot vagy a Programon alapul, olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlatai joga harmadik szemly rszre licencdjmentesen hozzffeh legyen, a jelen dokumentumban tallhat feltteleknek megfelelen.</para></li>
<li><para>Ha a mdostott Program interaktvval olvassa a parancsokat futs kbzben, akkor gy kell elkszteni, hogy a megshokott mdon trn indtksor megjelentsen egy zenetet a megfelel szerzi jogi megjegyzssel s a garancia hinyra utal kzslegel (vagy ppen az informcival, hogy miknt juthat valaki garancihoz), illetve azzal az informcival, hogy brki terjesztheti a Programot a jelen feltteleknek megfelelen, s arra is utalst kell tenni, hogy a felhasznl miknt tekintheti meg a licenc egy pldnyt. <note>
<title>Kivtel:</title>
<para>ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem kell ezt tennie.</para></note></para>
</orderedlist></para>
</sect2>

<para>Minden olyan munkt, amely rszben vagy egzsbben tartalmazza a Programot vagy a Programon alapul, olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlatai joga harmadik szemly rszre licencdjmentesen hozzffeh legyen, a jelen dokumentumban tallhat feltteleknek megfelelen.</para>
</sect2>

<sect2 id="sect3">
<title>3. szakasz</title>
<para>Ezek a felttelek a mdostott munkra, mint egzszre vonatkoznak. Ha a munka azonosthat rszei nem a Programon alapulnak s fgtlen munkkknt elkhlnl azonosthat, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, ha azok kln munkaknt keirln terjesztsre. Viszont, ha ugyanez a rsz az egzsz rszeknt kerl terjesztsre, amely a Programon alapul munka, akkor az egzsz terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti az egzszre tekintet nkl arra, hogy melyik rszt ki rta.</para>
</sect2>

<sect2 id="sect4">
<title>4. szakasz</title>
<para>E szvecrszeknek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizflag sajt maga ital rt munkkra; a cl az, hogy a jogok gyakorlsa szablyozva legyen a Programon alapul illetve a gyjtemnyes munkk terjesztse esetben.</para>
</sect2>
Ezenkívül ms munkknak, amelyek nem a Programon alapulnak, a Programmal (vagy a Programon alapul munkval) kzs adathordozzn vagy adattrollok szerepeltetése nem jelenti a jelen szabályok rövidességt azokra is.</para>

A Program (vagy a Programon alapul munka a teljes, gp ltal rtelmezhet forrskd ksri az anyagot, amelynek terjesztse az <sect1>1. szakaszban</sect1> s a <sect2>2. szakaszban</sect2> foglaltak szerint, amennyiben az alábbi feltételek is teljesnek: <orderedlist numeration="loweralpha">

- a teljes, gp ltal rtelmezhet forrskd ksri az anyagot, amelynek terjesztse az <sect1>1. szakaszban</sect1> s a <sect2>2. szakaszban</sect2> foglaltak szerint trtnik, jellemzően szoftverterjesztésre használt adathordozn; vagy,

- legalább hrom vre szlán rban vlalja, hogy brmely kls szemlynek rendelkezésre ill a teljes gp ltal rtelmezhet forrskd, a fizikai továbbít fedez szegnl nem nagyobb djt az 1. s 2. szakaszban foglaltak szerint szoftverterjesztésre használt adathordozn; vagy,

- a megfelel forrskd terjesztésre vonatkozó megkapott tajoztats ksri az anyagot. (Ez az alternatva csak nem kereskedelmi terjesztés esetén alkalmazható, ha a terjeszt a Programhoz a trykdv vagy forrskd formjában jutott hozz az ajnlattal egyt a fenti b. cikkelynek megfelelén.)

- a megfelel forrskdja a munknak azt a formjt jelenti, amelyben a mdostsokat elsdlegesen vgezni szoks. Egy trykdv program esetben a teljes forrskd a tartalmazott sszes modul forrskdjt jelenti, tovbb a kapcsold felletdefincs fajlokat s a fordts vezr parancsfajlokat. Egy speciális kivétel a forrskdnknk nem kell tartalmaznia normál esetben a trykdhathat kd futatásra szolgál opercis rendszer fbb rszeit (forr vagy binris formban), kvve, ha a komponens maga a trykdhathat lomnyt ksri.

Ha a trykdhathat program vagy trykdv terjesztse a forrskd hozzfrst egy megadott helyen biztost rban vlalja, akkor ez egyenrtk a forrskd terjesztésvel, br msoknak nem kell a forrst lemsolnuk a trykdvddl egyt. Egy munka forrskdja a munknak azt a formjt jelenti, amelyben a mdostsokat elsdlegesen vgezni szoks. Egy trykdhathat program esetben a teljes forrskd a tartalmazott szes modul forrskdjt jelenti, tovbb a kapcsold felletdefincs fajlokat s a fordts vezr parancsfajlokat. Egy speciális kivétel a forrskdnknk nem kell tartalmaznia normál esetben a trykdhathat kd futatásra szolgál opercis rendszer fbb rszeit (forr vagy binris formban), kvve, ha a komponens maga a trykdhathat lomnyt ksri.

Ha a trykdhathat program vagy trykdv terjesztse a forrskd hozzfrst egy megadott helyen biztost rban vlalja, akkor ez egyenrtk a forrskd terjesztésvel, br msoknak nem kell a forrst lemsolniuk a trykdvddl egyt.
<sect2 id="sect5" label="5">
<title>5. szakasz</title>

<p>Minden alkalommal, amikor a Program (vagy az azon alapul munka) továbbadja trtnik, a Programot megkap szemly automatikusan hozzút az eredeti licencultadjonost szrmaz licenchez, amely a jelen szabályok szerint biztosítja a jogot a Program molsra, terjesztésre s mdostsra. Nem lehet semmilyen mdon tovbb korlózni a fogad fln ez az mdegadott jogait. A Program továbbadja nem felels harmadik szemlyekkel betartatni a jelen szabályokat.</p>
</sect2>

<sect2 id="sect6" label="6">
<title>6. szakasz</title>

<p>Minden alkalommal, amikor a Program (vagy az azon alapul munka) továbbadja trtnik, a Programot megkap szemly automatikusan hozzút az eredeti licencultadjonost szrmaz licenchez, amely a jelen szabályok szerint biztosítja a jogot a Program molsra, terjesztésre s mdostsra. Nem lehet semmilyen mdon tovbb korlózni a fogad fln ez az mdegadott jogait. A Program továbbadja nem felels harmadik szemlyekkel betartatni a jelen szabályokat.</p>
</sect2>

<sect2 id="sect7" label="7">
<title>7. szakasz</title>

<p>Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyeb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr meglapods, akr brni ms eredmnyekpp), amelyek ellentesek a jelen felttelekkel, az nem ment fel a terjeszt a jelen felttelek figyelembevtele all. Ha a terjeszt nem lehetszes a jelen Licenc sc az egyb felttelek ktelezettsginek egyttes betartsvall, akkor tilos a Program terjesztése. Ha pdldul egy szabadalmi szerzds nem engedi meg egy program jogdj nkli tovbbterjesztst azok szmra, akik kvtve vagy kvtlenl megkapjk, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt feltelnek az, hogy ell a program terjesztstl.</p>

<p>Ennek a szakasznak maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egssze alkalmazand.</p>

</sect2>

<sect2 id="sect8" label="8">
<title>8. szakasz</title>

<p>Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folyt, akkor a szakasz maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egssze alkalmazand.</p>

</sect2>
Ha a Program terjesztése vagy használata egyes országokban nem lehetséges akár szabadalmak, akár szerző jogokkal védett felletek miatt, akkor a Program szerző jogainak eredeti tulajdonosa, aki a Programot ezen szabályozás alapján adja kazen, egy explicit feldrajzi megkötést adhat a terjesztésre, s egyes országokat kizára. Ebben az esetben gyakran tekinthető, hogy a jelen licenc ezt a megkötést is tartalmazza, ugyanis mintha csak a f szövegben lenne lerván.</p>
</sect2>

A Free Software Foundation idrl idre kiadja a General Public License dokumentum fellépését vagy jabb változatait. Ezek az idősebb dokumentumok az elérhetők szemmel, de részletekben különbözőek, hogy j problémákat vagy aggyságot kezeljenek.</p>
</sect2>

A dokumentum minden változata egy megkölzített verziómmal ellátva jelenik meg. Ha a Program szerzői jogi megjegyzésben egy bizonyos vagy annyi "jabb verzi" van megjelölve, akkor lehetőség van akár a megjelölt, vagy a Free Software Foundation ital kiadott kibővítésen és feltételek kvetsre. Ha nincs ilyen megjelölt verzi, akkor lehetőség van a Free Software Foundation ital valaha kibővített brmelyik dokumentum alkalmazásra.</p>
</sect2>

A Programot csak szabad szoftverbe, amelynek szerzői jogi szabályozása különböző, csak akkor pethet be, ha a szerzeti erre engedélyt szerzett. Abban az esetben, ha a program szerzői jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation emre kell nni; nha kivetett tesznk. A dents a kivetkez kkt el szem eszt tartalval fog tréntni: megmaradjon a szabad szoftveren alapul munka szabad lappota, valamint segítse el a szoftver jrafelhasználat megszüntetéssel.</p>
</sect2>

Mivel a jelen PROGRAM HASZNÁLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABÁLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBN MSKNT NEM NYILATKOZNAK, A PROGRAM A "JELEN LLAPOTBAN" KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELELTTETT, BELELTVNE, DE NEM KIZRLAGOSAN A FORGALOMBA HOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAM MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAM HIBSAN MKDIK, A FELHASZNLNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</p>
</sect2>
AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGLAPODSABAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAM SZERZJE, SEM MSOK, AKIK MDOSTOTT S/VAGY TERJESZTETTK A PROGRAMOT A FENTIEKNEK MEGFELELEN, NEM TEHETK FELELSS A KROKR, BELERTE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAM HASZNLATBL VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOLGOZST, VALAMINT A MS PROGRAMOKKAL VAL HIBS EGYTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOGY ILYEN KROK KELETKEZHETNEK.</para>
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Softwarov licence jsou v tinou navrzeny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zarútit svobodu ke sdlen a pravm svobodného softwaru - pro zájim svobodného pstrupu k tomuto softwaru pro vechny jeho uivatele. Tato General Public License se vztahuje na vtnu softwaru nadace Free Software Foundation a na jakoli jin program, jeho autor se piklon k jejmu pouven. (Nkter dal software od Free Software Foundation je namsto toho pokryt GNU Lesser General Public License.) Mete ji rovn pout pro sv programy.

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Abychom mohli vae prva chrnit, musme vytvoit omezen, kter zak komukoli vm tato prva odeprat nebo vs dat, abyste se tchto prv vzdal. Tato omezen se promtaj do jistch povinnost, kterm muste dostt, pokud te kopie dotynho softwaru anebo ho modifikujete.


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Konen, kad svobodn program je neustle ohroen softwarovmi patenty. Pejeme si zamezit nebezpe, e redistribuot svobodnho programu obdr samostatn patentov osved a tm uin program vzam. Abychom tomu zamezili, deklarovali jsme, e kad patent mus bt bu vydn s tm, e umouje kadmu svobodn uit, anebo nesm bt vydn vbec.

Pesn ustanoven a podmnky pro koprovn, en a modifikaci jsou uvedeny dle.

Tato licence se vztahuje na kterkoliv program i jin dlo, kter obsahuje zmnu, umstnou v nm dritelem autorskch prv, o tom, e dlo me bt eno podle ustanoven GNU General Public License. V dalm textu znamen program kad takov program nebo dlo a dlo zaloen na programu znamen bu program samotn anebo kad jin dlo z nj odvozen, kter podl autorskmu zkonu: tm se mn dlo obsahujc program nebo jeho st, bu doslovn anebo s modifikacemi, poppad v pekladu do jinho jazyka. (Nadle je peklad zahrnovn bez omezen pod pojem modifikace.) Kad uivatel licence je oznaovn jako vy.

Jin innosti ne koprovn, en a modifikace nejsou pokryty touto licenc; sahaj mimo jej rmec. Akt sputn programu nen omezen a vstup z programu je pokryt pouz tehdy, jestli obsah vstupu tvo dlo zaloen na programu (nezvisle na tom, zda bylo vytnuto innost programu). Posouzen platnosti pedchoz vty zvis na tom, co program dl.

Smte koprovat a it doslovn kopie zdrojovho kdu programu tak, jak jste jej obdrel a na libovolnn mdu, za pedpokladu, e na kad kopii viditeln a nleit zvejnte zmnu o autorskch prvech a absenci zruky; ponechte nedoten vechny zmny vztahuje se k tto licenci a k absenci zruky; a dte kadmu pjemci spolu s programem kopii tto licence.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
2. You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
3. If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:

If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
<listitem>
  <para>Tyto poadavky se vztahuj k modifikovanmu dlu jako celku. Pokud lze identifikovat sti takovho dla, kter
zejm nejsou odvozeny z programu a mohou bt samy o sob rozumn povoaovny za nezvisl a samostatn dla, pak se tato licence a jej ustanoven nevztahuj na tyto sti, jsou-li eny jako nezvisl dla. Avak jakmile tyt sti rozijete jako st celku, jin je dlo zaloen na programu, mus bt roziov tohoto celku podzeno ustanovenm tto licence tak, e povolen poskytnut dalim uivatelm se roz na cel dlo, tedy na vechny jeho sti bez ohledu na to, kdo kterou st napsal.</para>
</listitem>

</orderedlist>

<para>Smyslem tohoto paragrafu tedy nen zskn prv na dlo zcela napsan vmi ani poprn vaich prv vi nmu; skutennm smyslem je vkon prva na zen distribuce odvozench nebo kolektivnych dl zaloench na programu.</para>

<pouh spojen jinho dla, je nen na programu zaloeno, s programem (anebo dlem zaloenm na programu) na pamovm nebo distribunm mdiu neuvazuje toto jin dlo do psobnosti tto licence.</pouh>

</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

<para>You may copy and distribute the Program (or a work based on it, under <link linkend="sect2">Section 2</link>) in object code or executable form under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
  <listitem>
    <para>Accompany it with the complete corresponding machine-readable source code, which
             must be distributed under the terms of <link linkend="sect2">Sections 1</link> and <link linkend="sect2">2</link> above on a medium
customarily used for software interchange; or,
</para>
  </listitem>
  <listitem>
    <para>Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</para>
  </listitem>
  <listitem>
    <para>Accompany it with the information you received as to the offer to distribute
             corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)

</para>
</listitem>
</orderedlist>
</para>

<title>Zdrojov kd k dlu je nejvhodnj formou dla z hlediska jeho ppadnch modifikac. Pro dlo ve spustitelnm tvaru
znamen pln zdrojov kd veker zdrojov kd pro vechny moduly, kter obsahuje, plus jakkoli dal soubory pro definici
rozhran, plus dvkov soubory potebn pro kompilaci a instalaci spustitelnho programu. Zvltn vjimkou jsou vak ty
softwarov komponenty, kter jsou normln eny (bu ve zdrojov nebo binrn form) s hlavnmi soustmi operanho systmu,
a na nm spustiteln program b (tj. s pekladaem, jdem apod.). Tyto komponenty nemus bt eny se zdrojovm kdem,
pokud ovem komponenta sama nedoprovz spustitelnou podobu dla.</title>

<title>Je-li en objektovho nebo spustitelnho kdu inno nabdkou pstupu ke koprovn z uritho msta, potom se za
distribuci zdrojovho kdu pot i nabdnut ekvivalentnho pstupu ke koprovn zdrojovho kdu ze stejho msta, by pitom
nejst tet strany nuceny ke zkoprovn zdrojovho kdu spolu s objektovm.</title>

<title>Nesmte koprovat, modifikovat, poskytovat sublicence anebo it program jinm zpsobem ne vslovn uvedenm
v tto licenci. Jakkoli jin pokus o koprovn, modifikovn, poskytnut sublicence anebo en programu je neplatn a
automaticky ukon vae prva dan touto licenc. Strany, kter od vs obdrely kopie anebo prva v souladu s touto licenc,
vak nemaj sv licence ukoneny, dokud se jim pln podizuj.</title>

<title>Nen va povinnost tuto licenci pijmout, protoe jste ji nepodesal. Nic jinho vm vak nedv monost koprovat
nebo it program nebo odvozen dla. V ppad, e tuto licenci nepijmete, jsou tyto innosti zkonem zakzny. Tm pdem
modifikac anebo enm programu (anebo kadho dla zaloenho na programu) vyjaduje sv podzen se licenci a vem
jejim ustanovenm a podmnnk pro koprovan, modifikovn a en programu a dl na nm zaloench.</title>

<title>Pokad, kdy redistribuuujete program (nebo dlo zaloen na programu), zskv pjemce od pvodnho dritele
licenc prvo koprovat, modifikovat a it program v souladu s tmito ustanovenmi a podmnnkami. Nesmte klist dn dal
pekky vkonu zde zaruench pjemcovch prv. Nejste odpovdn za vymhn dodrovn tto licence tetmi stranami.</title>
Jsou-li vm z rozhodnut soudu, obvinnìm z porušení patentu nebo z jakokoli jiného důvodu (nejen v souvislosti s patenty) uložen takov podmínky (a ji pakoumou smlouvou nebo jinak), které se vylučují s podmínkami tto licence, nejste tm osvobozen od podmínek tto licence. Pokud nemete it program tak, abyste vyhovl zrovna svým zvazkům vyplývajícím z tto licence a jiným platným zvazkům, nesmíte jej v důsledku toho it vbc. Pokud by například patentov osvěd nepovolovalo bezplatnou redistribuci programu vemi, kdo vam piinnm zskaj pmo nebo nepmo jeho kopie, pak by jedin mon zpob jak vyhovli zvorce patentovmu osvěd tto licencí spoval v ukoncen distribuce programu.</para>

Pokud by se z jakých specifických okolnost jevila nkte st tohoto paragrafu jako neplatn nebo nevyužiteln, povazuje se za smrodatnou rovnováhu výjimk pro paragrafem a paragraf jako celek se považe za smrodatn za jiných okolností.</para>

Smyslem tohoto paragrafu nen navd t k porušení patentu ani jiného ustanoven vlastnického prva, anebo tato ustanovení zpochybovat; jinak jeho smyslem je ochrana integrity systému en svobodného softwaru, které je podložen veejnmi licenčními podmínkami. Mnoz lid poskytli sví vspvky do jeho okruhu softwaru enho jm tato systém, spolehnuv se na jeho dseudn uplatovn; ze na autorovi/drci, aby rozhodl, zda si peje it software pomoc jakoho jinho systému a dn uivatel licence neme takov rozhran zpochybovat.</para>

Smyslem tohoto paragrafu je zevrubn osvětlit to, co je považovno za důsledek vyplývají mu toto licence.</para>

Paragraf 8</sect2>

Pokud je en i použit programu v jakch zemích omezeno bu patenty anebo autorský chrnní rozhraní, me dritel vydaných autorských prv, které svuje program do osobnosti tto licence, pidat vslovn omezen pro geografick en, vylučujíc takov zem, tak en je povoleno jen v tch zemích nebo mezi tmi zemí, kter nejsou tmto zpobem vyloueny. Tato licence zahrnuje v tomto ppad takov omezen pesn tak, jako by bylo zapsno v textu tto licence.</para>

Paragraf 9</sect2>

Free Software Foundation me as od asu vydvat upraven nebo nov verze General Public License. Takov nov verze se budou v umnch podobat souasn verzi, v jednotlivostech se vak mohou liit s ohledem na nov problémy i zjmy.</para>

Kad verzi je pidleno rozlišuje slo verze. Pokud program specifikuje slo verze, které se na nj vztahuje, a vechny nsledující verze, mete se podle uvedeněným a podmínkám buto on konkrtn verze anebo kterkoliv nsledující verze, kterou vydala Free Software Foundation. Jestli program nespecifikuje slo verze tto licence, mete si vybrat libovolnou verzi, kterou kdy Free Software Foundation vydala.</para>

Paragraf 10</sect2>
Pokud si pejte zahrnout sti programu do jich svobodnch program, jejich distribun podminky jsou odlin, zalete autorovi dost o povolen. V ppad softwaru, k nmu vlast autorsk prva Free Software Foundation, napite Free Software Foundation; nky inme vjmky ze zde uvedench ustanoven. Nae rozhodnut bude vedeno dvma cli: zachovnm svobodn povahy vech odvozenin naeho svobodnho softwaru a podporou sdlen a optovnho vyuit softwaru obecn.</para>

</sect2>

</sect2 id="sect11" label="11">
<title>ZRUKA SE NEPOSKYTUJE</title>
<subtitle>Paragraf 11</subtitle>

</sect2>

</sect2 id="sect12" label="12">
<title>Paragraf 12</title>

</sect2>

</sect1>
Chng ti thit k Giy php ny dng n vi s tay hng dn cch s dng phn mm t do, v phn mm t do cn thit ti liu cng t do: chng trnh t do nn c sn s tay cung cp cng nhng quyn t do vi phn mm. Tuy nhin Giy php ny khng b hn ch trong cc s tay phn mm; n c th c dng vi bt c vn bn no, bt chp ch, bt chp n l cun sch c in ra hay khng. Chng ti ngh Giy php ny chnh cho ti liu nhm mc ch hng dn hay tham kho.</para>
</sect1>

<title>S THCH HP V LI NH NGHA</title>

<para id="fdl-modified"><quote>Phin bn Sa i</quote> ca Ti liu c ngha l bt c vn bn cha Ti liu hay on no ca n, hoc c sao chp ng nguy vn, hoc vi s sa i v/hay c dch sang ngn ng khe.</para>

<para id="fdl-transparent">Bn sao <quote>Trong Sut</quote> ca ngha l vn bn ngn c lit k l on Ba Trc hay on Ba Sau trong thng bo ni rng <link linkend="fdl-document">Ti liu</link> c phh nh di Giy php ny.</para>

<para id="fdl-cover-texts"><quote>on Ba</quote> l vn bn ngn c lit k l on Ba Trc hay on Ba Sau trong thng bo ni rng <link linkend="fdl-document">Ti liu</link> c phh nh di Giy php ny.</para>

<para id="fdl-invariant"><quote>Tit on Bt Bin</quote> l <link linkend="fdl-secondary">Tit on Ph</link> c tiu c xc nh l Tit on Bt Bin trong thng bo ni rng <link linkend="fdl-document">Ti liu</link> c phh nh di Giy php ny.</para>

<para id="fdl-cover-texts"><quote>Bn sao Trong Sut gm c ASCII chun khng c m nh dng, nh dng nhp vo Texinfo, nh dng nhp vo LaTeX, SGML hay XML dng mt DTD c cng b, v HTML n gin hp vi tiu chun c thit k cho ngi sa i. Nhng nh dng c gm c PostScript, PDF, nh dng s hu c th c v sa i ch bng trnh x l t s hu, SGML hay XML cho DTD hay/v cng c x l khng c cng b, v HTML do my to ra c to bi mt s trnh x l t ch ho mc ch xut.</quote></para>

<para id="fdl-title-page"><quote>Trang Tiu</quote> c ngha l, i vi cun sch c in ra, trang tiu chnh n, cng vi trang sau no cn thit hin th r rng nguy lien phi xut hin trn trang tiu, ty theo Giy php ny. i vi vn bn theo nh dng khng c trang tiu nh th. <quote>Trang Tiu</quote> ngha l vn bn gn v tr hin th r rng nht tiu ca vn bn, nm trc thn vn bn.</para>

<title>SAO CHP NG NGUYEN VN</title>

<para>Cho php bn sao chp v phh nh <link linkend="fdl-document">Ti liu</link> trong bt c vt cha no, thng mi
hay thương, min l Gìy php ny, nhưng thương bo tc quyen, v thương bo giy php ni rng Gìy php ny p dùng cho Ti liu c to li trong mi bn sao, v bn thương thm iu kin khec no vo nhưng iu kn ca Gìy php ny. Khi thương cho php bn s dùng bin php k thut gy tr nga cho hay iu khin hot ng c hay sao c ép tm da nhưng bn sao bn to hay phép hnh. Tuy nhiên, cho php bn c ép nhân s n b trao cho bn sao. Nu bn phẩm hnh s bn sao In, bn cng phi tun theo iu kin trong <link linkend="fdl-section3">phn 3</link>.</para>

Cng cho php bn cho mn bn sao, vi cng iu kin ni trn, v cho php bn trnh by cng khai bn sao.</sect1>

<sect1 id="fdl-section3" label="3">
<title>SAO CHP HNG LOT</title>

Nu bn xut bn bn sao i ra ca <link linkend="fdl-document">Ti liu</link> hn 100, v thương bo giy php ca Ti liu cn thit <link linkend="fdl-cover-texts">on Ba</link>, bn phi vy quan mi bn sao trong ba hìn th r rng tt c cc on Ba này: on Ba Trc trn bn trc, cn on Ba Sau trn ba sau. C hai ba cng phi hin th r rng bn l nh xut bn nhưng bn sao ny. Ba trc phi hin th iu y c mi tr rng u. Cho php bn thm ngày liu na trn ba. Vic sao c ép ch thay i ba, min l ba bo tn iu ca <link linkend="fdl-document">Ti liu</link> v tho nhưng iu kin ny, c th c có i vic sao c ép ngày vn bng ccc khc.</sect1>

Nu nhưng vn bn bt búc phi rm trn bn ba no l qu dí hin th r rng, bn m nhìn những on th nht c lít k (nhiều nht hin th c r) trn ba, v hính th vn bn c ln l trn cc trang tip cn.</sect1>

<sect1 id="fdl-section4" label="4">
<title>SA I</title>

Cho php bn sao c ép <link linkend="fdl-transparent">phn bn  Sa i</link> ca <link linkend="fdl-document">Ti liu</link> kh trc khi phẩm hnh hng lot bn sao, cho h c đp cung cp phìn bn Ti liu c cp nht.</sect1>

Yu cu, nhưng khng cn thit bn lin lc vi nhưng tc gi ca <link linkend="fdl-document">Ti liu</link> kh trc khi phẩm hnh hng lot bn sao, cho h c đp cung cp phìn bn Ti liu c cp nht.</sect1>

Cho php bn sao c ép <link linkend="fdl-modified">phn bn  Sa i</link> ca <link linkend="fdl-document">Ti liu</link> vi iu kin ca phn <link linkend="fdl-section2">2</link> ca <link linkend="fdl-section3">3</link> trn, min l bn phẩm hnh Phìn bn sa i di chnh xc Gìy Php ny, cp Phìn bn sa i mhm v ca Ti liu th cp quyển phẩm hnh v sa i Phìn bn sa i cho ai c bn sao ca n. Hn na, bn phi lm nhưng vic n trong Phìn bn sa i.</para>

Dng trn <link linkend="fdl-title-page">Trang Tiu</link> <link linkend="fdl-document">Ti liu</link> (cng trn nhưng ba, nu c) mt tiu khc bit vi tiu ca <link linkend="fdl-document">Ti liu</link> v vi tiu ca phìn bn no trc (cc phìn bn trc, nu c, nn c lít k trong phrn Lch s ca Ti liu). Nh xut bn gc cho php th bn c quyển s dùng c ép mti tiu vi phìn bn trc.</para>
<listitem>
<para>Lit k trn &lt;link linkend="fdl-title-page">Trang Tiu</link&gt;, lm tc gi, mt hay nhu ngi hay thc th chu trech nhim to s sa i trong &lt;link linkend="fdl-modified">Phin bn Sa i</link&gt;, cng vi t nht nm tc gi chnh ca &lt;link linkend="fdl-document">Ti liu</link&gt; (tt c cc tc gi chnh, nu s t hn nm).&lt;/para&gt;
</listitem>

<listitem>
<para>Ghi r trn &lt;link linkend="fdl-title-page">Trang Tiu</link&gt; tn ca nh xut bn &lt;link linkend="fdl-modified">Phin bn Sa i</link&gt;, lm nh xut bn.&lt;/para&gt;
</listitem>

<listitem>
<para>Bo tn tt c cc thng bo tc quyn ca &lt;link linkend="fdl-document">Ti Liu</link&gt;.&lt;/para&gt;
</listitem>

<listitem>
<para>Thm mt thng bo tc quyn thch hp vi s sa i ca bn, tip cn vi cc thng bo tc quyn khc.&lt;/para&gt;
</listitem>

<listitem>
<para>Chn vo, ng sau nhng thng bo tc quyn, mt thng bo giy php cho php mi ngi s dng &lt;link linkend="fdl-modified">Phin bn Sa i</link&gt; vi iu kin ca Giy php ny, dng mu c hin th trong Ph lc bn di.&lt;/para&gt;
</listitem>

<listitem>
<para>Bo tn trong thng bo giy php nhng danh sch y cc &lt;link linkend="fdl-invariant">Tit on Bt Bin&lt;/link&gt; v cc &lt;link linkend="fdl-cover-texts">on Ba&lt;/link&gt; cn thit a ra trong thng bo giy php ca &lt;link linkend="fdl-document">Ti liu</link&gt;.&lt;/para&gt;
</listitem>

<listitem>
<para>Gm c mt bn sao cha thay i ca Giy php ny.&lt;/para&gt;
</listitem>

<listitem>
<para>Bo tn phn tn &lt;quote>Lch S&lt;/quote&gt;, cng vi tiu ca n, v thm vo n mt mc phit biu t nht tiu , nm xut bn, cc tc gi mi v nh xut bn ca &lt;link linkend="fdl-modified">Phin bn Sa i</link&gt; nh a ra trn &lt;link linkend="fdl-title-page">Trang Tiu</link&gt;. Khng c phn tn &lt;quote>Lch S&lt;/quote&gt; trong &lt;link linkend="fdl-document">Ti liu</link&gt; th bn to mt iu phit biu t nht tiu , nm xut bn, cc tc gi v nh xut bn ca &lt;link linkend="fdl-document">Ti liu</link&gt; nh a ra trn &lt;link linkend="fdl-title-page">Trang Tiu</link&gt; ca n, ri thm mt mc din t &lt;link linkend="fdl-modified">Phin bn Sa i</link&gt; nh c phit biu trong cu trc.&lt;/para&gt;
</listitem>

<listitem>
<para>Bo tn a im trn mnng, nu c, a ra trong &lt;link linkend="fdl-document">Ti liu</link&gt; cho mi ngi truy cp mt bn sao &lt;link linkend="fdl-transparent">Trong Sut&lt;/link&gt; ca &lt;link linkend="fdl-document">Ti liu</link&gt;, cng vy a im mnng a ra trng &lt;link linkend="fdl-document">Ti liu</link&gt; cho cc phin bn trc vo n da. Cho php bn chn nhng iu ny vo phn &lt;quote>Lch S&lt;/quote&gt; cho php bn b st mt a im mnng i vi vn bn xut bn t nht bn nn trc &lt;link linkend="fdl-
Ti liu<br>

<h3>KT HP TI LIU</h3>
<para>Cho php bn kt hp <link linkend="fdl-document"> Ti liu </link> vi cc ti liu khu c ph hnh di Giy php ny, vi iu kin c xc nh trong <link linkend="fdl-section4"> phn 4 </link> trn v phn bn sa i, min l bn gm trong s kt hp tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca tt cc ti liu gc, cha sa i, v lit k tt c chng l <link linkend="fdl-invariant">Tit on Bt Bin</link> ca vn bn kt hp, trong thng bo giy php ca n. </para>

<para>Vn bn kt hp cn phi cha eh mt bn sao ca Giy php ny; cng cho php thay th nhieu <link linkend="fdl-invariant">Tit on Bt Bin</link> trng bng cng mt bn sao. Nu c nhieu <link linkend="fdl-invariant">Tit on Bt Bin</link> cng tn nhng khu ni dung, khm mi tiu tit on l duy nht, bng cch ph thm (trong ngoc) tc ca tc gi hay nh xut bn gc ca tit on, nu c bit, hoc mt s hiu, iu chnh tamaño nhng tiu tit on trong danh sach cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, trong thng bo giy php ca vn bn kt hp. </para>

<para>Trong s kt hp, bn phi kt hp bt k tit on c tiu <quote>Lch s</quote> ca nhng ti liu ge khu nhau, th to cng mt tit on c tiu <quote>Lch s</quote>; cng vy kt hp bt k tit on c tiu <quote>Li Bo Nhп</quote>, v bt k tit on c tiu <quote>Li Tнg</quote>. Bn phi xo b mi tit on c tiu <quote>S Xп Nhп</quote>. </para>

<sect1 id="fdl-section6" label="6">
<title>TP HP TI LIU</title>
<para>Cho php bn to mt tp hp cha <link linkend="fdl-document"> Ti liu </link> v cc ti liu khu nhau cng c ph hnh di Giy php ny, v thay th nhng bn sao ring ca Giy php ny trong nhng ti liu khu nhau bng cng mt bn sao c bao gm trong tp hp, min l bn theo nhng quy th tc ca Giy php ny mi phng din khu i vi vic sao cph ng nguyn vn mi ti liu. </para>

<para>Cho php bn trch mt ti liu ring l ra tp hp nh vy, v phn hnh n mt cch ring di Giy php ny, min l bn chn mt bn sao ca Giy php ny vo ti liu trch ra, v thee Giy php ny vo ti phng din khu i vi vic sao cph ng nguyn vn ti liu. </para>
</sect1>

<sect1 id="fdl-section7" label="7">
<title>TP HP VI SN PHМ C LP</title>
<para>S su tp <link linkend="fdl-document"> Ti liu </link> hay cc ti liu dn xut vi cc ti liu hay sn phм ring v c lp khu, trong hay trn mt khi tin ca phng tin lu tr hay phn hnh, ton b khu c thn n mt <link linkend="fdl-modified">Phн bn Sa i</link> ca <link linkend="fdl-document"> Ti liu </link>, min l khu c tc quyn su tp c tuyn b v s su tp. S su tp ti liu nh vy c gi l <quote>khi tp hp</quote>, v Giy php ny kho phng nhng sn phм c lp khu c su tp vi <link linkend="fdl-document"> Ti liu </link> do chng c su tp nh th, nu bn thn chng kho ph l sn phм dn xut ca <link linkend="fdl-document"> Ti liu </link>. Nu nh cu <link linkend="fdl-cover-texts"> on Ba </link> ca <link linkend="fdl-section3"> phn 3 </link> <link linkend="fdl-document"> Ti liu </link> th nu <link linkend="fdl-document"> Ti liu </link> c kho c t hн mt phн t ca ton b khu c ca khi tp hp, cho php bn hin thnh nhng <link linkend="fdl-cover-texts"> on Ba </link> ca <link linkend="fdl-document"> Ti liu </link> trn ba chung quanh ch <link linkend="fdl-document"> Ti liu </link> bn trong khi tp hp. Kho th nhng <link linkend="fdl-cover-texts"> on Ba </link> ca <link linkend="fdl-document"> Ti liu </link> phi xut hin trn ba chung quanh ton b khi tp hp. </para>
</sect1>

<sect1 id="fdl-section8" label="8">
<title>THНG DCH</title>
<para>S thng dch c coi l kiu s sa i, v vy cho php bn phn hnh cc bn dch ca <link linkend="fdl-document"> Ti liu </link> vi iu kin ca <link linkend="fdl-section4"> phn 4 </link> trn. Khng thay th <link linkend="fdl-invariant">Tit on Bt Bin</link> bng bn dch cn thit s cho php c bit ca mi nghi gi tc quyn ca n, nhng m cho php bn gm cc bn dch ca mt s hay tt c cc <link linkend="fdl-invariant"> Tit on Bt Bin </link>, thm vo nhng phin bn gc ca mi
<link linkend="fdl-invariant">Tit on Bt Bin</link>. Cho php bn gm mt bn dch ca Giy php ny, min l bn cng gm phin bn ting Anh gc ca Giy php ny. Trong trng hp xung t gia bn dch v phin bn ting Anh gc ca Giy php ny, phin bn gc c quyn cao hn.</para>

</sect1>

<sect1 id="fdl-section9" label="9">
<title>KT THC</title>
<para>Khng cho php bn sao chp, sa i, cp ph hay ph hnh <link linkend="fdl-document">Tit liu</link>, tr phi vi nhng iu kin dt khot ca Giy php ny. Bt c s c gng khe no sao chp, sa i, cp ph hay ph hnh Ti liu b bi b, v s kt the t ng cc quyn ca bn di Giy php ny. Tuy nhn, nhng ngi nhn bn sao, hay quyn, t bn di Giy php ny s khng c giy php b kt the min l h tip tc tun theo hon ton.</para>
</sect1>

<sect1 id="fdl-section10" label="10">
<title>BN SA I TNG LAI CA GIY PHP NY</title>

</para>
</sect1>

<sect1 id="fdl-using" label="none">
<title>Ph Lc</title>
<para>dng Giy php ny trong mt ti liu bn to, hy gm mt bn sao ca Giy php trong t liu, v thm nhng thng bo tc quyn v giy php ny ng sau trang tiu :</para>

<blockquote>
<para>Tc quyn NM H TN CA BN</para>
<para>C cp quyn sao chp, pht hnh v/hay sa i ti liu vi iu kin ca Giy php Ti liu T do GNU (GFDL), Phin bn 1.1 hay bt c phin bn sau no c cng b bi T chc Phn mm T do; cn nhng <link linkend="fdl-invariant">Tit on Bt Bin</link> 1 LIT K CC TIU , cn nhng <link linkend="fdl-cover-texts">on Ba Trc</link> 1 LIT K, v cn nhng <link linkend="fdl-cover-texts">on Ba Sau</link> 1 LIT K. Mt bn sao ca giy php c gm trong t t on c tiu <quote>Giy php Ti liu T do GNU</quote>.</para>
</blockquote>

<para>Nu bn khng c <link linkend="fdl-invariant">Tit on Bt Bin</link>, hy vit <quote>khang c Tit on Bt Bin</quote> thay cho i l k nhng t on bt bn. Vy nu bn khng c <link linkend="fdl-cover-texts">on Ba Trc</link> , vit <quote>khang c on Ba Trc</quote> thay cho i l k chng; cng vy i vi <link linkend="fdl-cover-texts">on Ba Sau</link>.</para>

<para>Nu ti liu ca bn cha mu th d ng k ca m ngun chng trnh, khuyn bn pht hnh nhng mu ny mt cch song song di giy php phn mm t do mun, v.d. <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html">Giy php Cng cng</ulink>
GNU (GPL), cho php ngi khi dung m ny trong phn mm t do.</para>
</sect1>
</article>
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Una <quote>Secci secundria</quote> s un apàndix amb títol o una secció preliminar del <link linkend="fdl-document">Document</link> que t a veure exclusivament amb la relació dels editors o autors del Document amb el tema general del Document (o amb temes relacionats) i no cont res que pugui entrar directament d'aquest tema general (per exemple, si el Document s en part un llibre de matemàtiques, una Secci secundria pot no parlar gens de matemàtiques). La relació pot ser un assumpte de connexió històrica amb el tema o amb assumptes relacionats, o de posicions legals, comercials, filosòfiques, tèciques o polítiques relatives a ells.</para>

Les <quote>Seccions invariables</quote> s determinades <link linkend="fdl-secondary">Seccions secundaries</link> els títols de les quals indiquen que s Seccions invariables en l'avs que indica que el <link linkend="fdl-document">Document</link> es distribueix sota aquesta Llicncia.</para>

Els <quote>Textos de portada</quote> s determinats fragments breus de text que consten com a Textos de portada o Textos de contraportada en l'avs que indica que el <link linkend="fdl-document">Document</link> es distribueix sota aquesta Llicncia.</para>

Una cpi a <quote>Transparent</quote> del <link linkend="fdl-document">Document</link> significa una cpi que pugui ser llegida per una màquina, presentada en un format les especificacions del qual siguin accessibles al públic en general, els continguts de la qual es poden visualitzar i editar directament amb editors de text genrics, o, per a imatges compostes de pixels, amb programes gràfics genrics, o, per a dibuixos, amb editors de dibuix f cilment accessibles, i que es pugui introduir a formatadors de text, o a traductors automàtics en una varietat de formats que es pugui introduir a formatadors de text. Una cpi feta en un format de fitxer Transparent, l'etiquetatge del qual s'hagi dissenyat per obstaculitzar o dissuadir als lectors de fer-hi ulteriors modificacions no s Transparent. Una cpi que no s <quote>Transparent</quote> s'anomena <quote>Opaca</quote>.</para>

Alguns dels formats adequats per a cpies Transparents sn: ASCII net sense etiquetatge, format d'entrada Texinfo, format d'entrada LaTeX, SGML o XML que utilitzin un DTD accessible per a tothom, i HTML senzill que compleixi amb els estàndards que estigui dissenyat per a la modificació humana. Els formats opacs inclouen PostScript, PDF, els formats de propietat que noms es poden llegir i editar per processadors de textos de propietat, SGML o XML el DTD i/o eines de processament dels quals no siguin f cilment accessibles, i HTML generat automàticament per alguns processadors de textos noms per a la sortida.</para>

La <quote>Pgina de títol</quote> significa, per a un llibre imprès, la prpia pgina de títol, ms totes aquelles pgines que siguin necessaries per contenir, de manera illegible, el material que aquesta Llicncia requereix que aparegui a la pgina de títol. Per a les obres que, a causa del format de les quals, no tinguin prpia una pgina de títol, la <quote>Pgina de títol</quote> significa el text proper a l'aparició ms destacada del títol de l'obra, precedint el començament del cos del text.</para>
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Si els textos requerits per a qualsevol de les cobertes sn massa densos per encabir-los de manera que quedin llegibles, cal que poseu els primers (tants com sigui raonablement possible) en la coberta real, i la resta en pàgines adjacents.

Si publicó o distribuyó más de 100 copias Opaques del Document, hay que incluir con cada una una copia Transparent, legible para una máquina, o bien incluirla, o indicarla, en una ubicación en la red accesible públicamente que contenga una copia Transparent completa del Document y el aviso de licencia, para que todo aquel que utilice la red pueda descargarla, utilizando protocolos de red. Si utiliza esta otra obra original, en comenzar la distribución de gran cantidad de copias Opaques de cualquier forma de comprender las medidas razonablemente necesarias para tal dasegurar que la copia Transparent a que se accede seguir disponible, en la ubicación indicada, como mínimo durante un año a contar del momento en que distribuyó al público (directamente o a través del vuestros representantes o minoristas) l'última copia Opaque d'aquesta edici.

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Podeu copiar i distribuir una Versi modificada del Document d'acord amb les condiciones de les seccions 2 i 3, aquest Document, i satisfacin aquestes condiciones, es poden considerar copias literal en altres aspectes.
d'acord precisament amb aquesta Llicncia, amb la Versi modificada actuant com a Document, autoritzant d'aquesta manera la distribució i modificació de la Versi modificada a qualsevol que en posseeixi una còpia. A més, a la Versi modificada hi heu de fer el següent:

<itemizedlist mark="upper-alpha">
  <listitem>
    <para>Utilitzeu a la <link linkend="fdl-title-page">Pàgina de títol</link> (i a les cobertes, si n'hi ha) un títol diferent del <link linkend="fdl-document">Document</link> i del de les versions anteriors (que, si n'hi ha, han d'estar detallades a la secció Historial del Document). Podeu utilitzar el mateix títol d'una versió anterior si l'editor original d'aquesta versió ho autoritza.</para>
  </listitem>
  <listitem>
    <para>Relacioneu a la <link linkend="fdl-title-page">Pàgina de títol</link>, com a autors, una o més persones o entitats responsables de la realització de les modificacions de la <link linkend="fdl-modified">Versió modificada</link>, juntament amb almenys cinc dels autors principals del <link linkend="fdl-document">Document</link> (o tots els autors principals, si en menys de cinc).</para>
  </listitem>
  <listitem>
    <para>Indiqueu a la <link linkend="fdl-title-page">Pàgina de títol</link> el nom de l'editor de la <link linkend="fdl-modified">Versió modificada</link>, com a editor.</para>
  </listitem>
  <listitem>
    <para>Conserveu tots els avisos de copyright del <link linkend="fdl-document">Document</link>.</para>
  </listitem>
  <listitem>
    <para>Afegiu, al costat dels altres avisos de copyright, un avís de copyright adequat per a les vostres modificacions.</para>
  </listitem>
  <listitem>
    <para>Incloueu immediatament després dels avisos de copyright, un avís de llicència donant autorització pública per utilitzar la <link linkend="fdl-modified">Versió modificada</link> d'acord amb els termes d'aquesta llicència, en el formulari que s'indica a l'addendum de més avall.</para>
  </listitem>
  <listitem>
    <para>Conserveu, en aquest avís de llicència, la relació completa de <link linkend="fdl-invariant">Seccions invariables</link> i <link linkend="fdl-cover-texts">Textos de coberta</link> necessaris que s'indiquen a l'avís de llicència del <link linkend="fdl-document">Document</link>.</para>
  </listitem>
  <listitem>
    <para>Incloueu una còpia no alterada d'aquesta Llicència.</para>
  </listitem>
</itemizedlist>
<listitem>
  <para>Conserva la secció titulada <quote>Historial</quote> amb el seu títol, i afegiu-hi almenys el títol, any, nous autors i editor de la versió modificada</link>. Si al Document no hi cap secció titulada <quote>Historial</quote> creeu-ne una indicant-hi el títol, any, autors i editor del Document com s'indica a la seva Pàgina de títol, descrivint-hi tamb la Versió modificada com s'indica al punt anterior.</para>
</listitem>

<listitem>
  <para>Conserva la ubicació de xarxa, si n'hi ha, indicada al Document per a l'accés públic a una còpia Transparent del Document, i també les ubicacions de xarxa indicades al Document on es poden trobar les versions anteriors en què s'ha basat, que es poden incloure a la secció <quote>Historial</quote>. Podeu ometre les ubicacions de xarxa d'obres publicades al menys quatre anys abans del propi Document, o si l'editor original de la versió a què fa referència us hi autoritza.</para>
</listitem>

<listitem>
  <para>En qualsevol secció titulada <quote>Agraments</quote> o <quote>Dedicaties</quote>, conserveu-ne el títol, i conserveu-hi tota l'essència i to de cadascun dels agraments dels colaboradors i/o dedicaties que hi apareguin.</para>
</listitem>

<listitem>
  <para>Conserva totes les Seccions invariables del Document, sense canviar-ne els textos ni els títols. La numeració de seccions o sistemes equivalents no es consideren part dels títols de secció.</para>
</listitem>

<listitem>
  <para>Suprimiu qualsevol secció titulada <quote>Aprovacions</quote>. Aquestes seccions no es poden incloure a la Versió modificada.</para>
</listitem>

<listitem>
  <para>No reanomeneu cap secció existent com <quote>Aprovacions</quote>, ni tampoc de cap altra manera que pugui entrar en conflicte amb el títol de qualsevol Secció invariable.</para>
</listitem>

<listitem>
  <para>Si la Versió modificada inclou noves seccions preliminars o apèndixs que es considerin Seccions secundàries, no continguin material copiat del Document, si ho voleu podeu anomenar totes o algunes dels títols com invariables. Per fer-ho, afegiu-ne els títols a la relació de Seccions invariables de l'avis de llicència de la Versió modificada. Aquests títols han de ser diferents de tots els altres títols de secció.</para>
</listitem>

<para>Podeu afegir una secció titulada <quote>Aprovacions</quote>, sempre que contingui solament aprovacions de la vostra versió modificada. Podeu anomenar totes o algunes dels títols com invariables, sempre que ho veu l'avis de llicència de la Versió modificada. Aquests títols han de ser diferents de tots els altres títols de secció.</para>
declaracions d'experts o afirmant que el text ha estat aprovat per una organització com a definició autoritzada d'un estàndard.</para>

Al final de la relació de <link linkend="fdl-cover-texts">Texts de portada</link> de la <link linkend="fdl-modified">Versió modificada</link> podeu afegir un text de fins a cinc paraules com a <link linkend="fdl-cover-texts">Text de portada</link>, i un altre de fins a 25 paraules com a <link linkend="fdl-cover-texts">Text de contraportada</link>. Cada entitat noms pot afegir (o arranjar) un Text de portada i un Text de contraportada. Si el <link linkend="fdl-document">Document</link> ja inclou un text de coberta per a la mateixa coberta, que hagués afegit anteriorment o que s'hagi afegit mitjanant un arranjament efectuat per la mateixa entitat en nom de la qual actueu, no en podeu afegir cap ms, per podeu reemplaçar l'antiga amb l'autorització expressa de l'editor anterior que la va afegir. </para>

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Podeu combinar el <link linkend="fdl-document">Document</link> amb altres documents publicats d'acord amb aquesta Llicència, d'acord amb els termes exposats a la <link linkend="fdl-section4">secció 4</link>, ms amunt, per a les versions modificades, sempre que incloieu a l'obra resultant totes les Seccions invariables de tots els documents originals, sense modificar, les relacioneu com a <link linkend="fdl-invariant">Seccions invariables</link> de l'obra resultant en el seu avís de llicència. L'obra resultant noms cal incloure una cpia d'aquesta Llicència, i diverses <link linkend="fdl-invariant">Seccions invariables</link> identiques es poden substituir per una sola cpia. Si hi ha diverses Seccions invariables amb el mateix nom, per amb continguts diferents, feu que el títol de cadascuna d'elles sigui nic afegint-hi, al final i entre parèntesis, el nom de l'autor o editor original de la secció (si es coneix) o un nombre nic. Feu la mateixa operació als títols de la secció que la relació de Seccions invariables a l'avís de llicència de l'obra resultant. </para>

A l'obra resultant noms cal incloure una cpia d'aquesta Llicència, i diverses <link linkend="fdl-invariant">Seccions invariables</link> identiques es poden substituir per una sola cpia. Si hi ha diverses Seccions invariables amb el mateix nom, per amb continguts diferents, feu que el títol de cadascuna d'elles sigui nic afegint-hi, al final i entre parèntesis, el nom de l'autor o editor original de la secció (si es coneix) o un nombre nic. Feu la mateixa operació als títols de la secció que la relació de Seccions invariables a l'avís de llicència de l'obra resultant. </para>

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Podeu crear una recopilació que estigui formada pel <link linkend="fdl-document">Document</link> i altres documents publicats sota aquesta Llicència, i reemplaçar les cpies individuals d'aquesta Llicència dels diversos documents per una de sola que quedi inclosa a la recopilació, sempre que seguiu les normes d'aquesta Llicència pel que fa a la cpia literal de cadascun dels documents en tots els altres aspectes. </para>

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<para>
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</para>

<para>
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disadvantages are the reason we use the ordinary General Public License
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. The modified work must itself be a software library.
2. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
3. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2 above) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a <quote>work that uses the Library</quote>. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a <quote>work that uses the Library</quote> with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. <link linkend="sect6">Section 6</link> states terms for distribution of such executables.

When a <quote>work that uses the Library</quote> uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link> above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the <quote>work that uses the Library</quote> must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

<para>
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You are not responsible for enforcing compliance by third parties with
this License.

</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

<para>
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conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
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may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

</para>

<para>
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

</para>

<para>
It is not the purpose of this section to induce you to infringe any
open source used in field network director for virtual machine installation 4.7.1

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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Software libreaz hitz egiten dugunean, askatasunari buruz ari gara eta, ez prezioari buruz. Gure Lizentzia Publiko Orokorren xedea da software librearen kop iaik banatzeko (eta, nahi izanez gero, zerbitzu horrengatik kobratzea) askatasuna duzula ziurtatzea, iturburu-kodea jasoko duzula edo, nahi izanez gero, hartzeko au kera duzula bermatzea, softwarea aldatzeko edo software zatiak beste programa libre berri batzuetan erabiltzeko eskubidea duzula segurtatzea eta gauza horie egin ditzek zeaula jakinaztea.


Bi urratsez osatutako metodoarekin babesten ditugu zure eskubideak: (1) liburutegiaren egile-eskubideak erregistratzen ditugu, eta (2) liburutegia kopia zteko, banatzea eta/edo aldatzeko legezko baimena ematen dizun lizentzia eskaintzen dizugu.

Banatzaileak babesteko, argi utzi nahi dugu liburutegi libreak ez duela bermerik. Norbaitek liburutegia aldatzen eta banatzen badu, hartzailere jakin behar dute haiek dutena ez dela jatorrizko bertsioa, eta, beraz, besteren
batek sortutako arazoek ez dutela jatorrizko egilearen ospea kaltetuko.</para>

<Azkenik, software-patenteak etengabeko arriskua dira programa libreentzat. Ziurtatu nahi dizugu empresa batek azkinean dituela programa libre baten erabiltzaileak mugatu patentea duenaren lizentzia murrizti aitortu.

Horregatik, azpimarratzen dugu liburutegiaren bertso batetik eskuratutako patenteak lizentzia honetan zehazten den erabilera-askatasuna izan beha duela.</para>

<para>GNU softwarearen zati handiena, liburutegi batzuk barne, GNU Lizentzia Publiko Orokorra baldintzapean dago. GNU Hedadura Txikiagoko Lizentzia Publiko Orokorra liburutegi jakin batzuei aplikatzen zaie, eta Lizentzia Publiko Orokorretik asko desberdintzen da. Lizentzia hori liburutegi batzuetan erabiltzen dugu programa libreak ez diren programen liburutegietara estekatu ahal izateko.</para>


<para>Beste kasu batzuetan, liburutegi jakin bat programa ez-libreetan erabiltzeko baimena emateak software librearen gehegiak erabiltzea ahalbidetzen du. Adibidez, GNU C Liburutegia programa ez-libreetan erabiltzeko baimenari esker, jende gehiagok erabiltzen ditu GNU sistema eragile osoa eta bere aldaera, hau da, GNU/Linux sistema eragilea.</para>

<para>Hedadura Txikiagoko Lizentzia Publiko Orokorra erabiltzailearen askatasuna gutxiago babestu arren, liburutegiarekin estekatutako programa baten erabiltzaileari programa hori liburutegiaren bertsoa aldatu batean erabiltzeko askatasuna eta baliabideak ematen dizkio.</para>

<quote>Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatza ditu jatorrizko programaren artean, eskez aurreko blankoarekin erorritako kodea du, bigarren lana, aldir, liburutegiarekin konbinatu behar da exekutatu ahal izateko.</quote>

</sect1>

<sect1 id="terms" label="none">
<title>KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALKINTZAK</title>
</sect1>
0. atala

Hedadura Txikiagoko Lizentzia Publiko Orokor honen (<quote>Lizentzia hau</quote> ere deitu) baldintzapean banatu daitekeela adierazten duen oharra jarri baldin badio egile-eskubideen jabeak software-liburutegi bati edo beste programa bati, lizentzia-kontratu hau aplikatuko zaio liburutegi edo programa horri. Lizentziadun oro adierazteko, <quote>zu</quote> erabiltzen da. <para>

Liburutegia<quote> software-funtzioen eta/edo datuen bilduma bat da, exekutagarriak sortzearen aplikazio-programekin behar bezala estekatzeko prestatuak (aplikazio-programek funtzio eta datu horietako batzuk erabilizen dituzte).</para>

Aipatutako <quote>Liburutegia</quote> baldintza hauek betez banatu den horrelako edozein software-liburutegiri edo -lani dagokio. <quote>Liburutegian oinarritutako lana</quote>rekin adierazi nahi da egile-eskubideen legearen baitan egindako edozein Liburutegi edo lan eratorri: hau da, Liburutegia bera edo Liburutegiaren zati bat daukan lana, bai kopia literala, bai aldaketak dituen kopia, bai beste hizkuntza batera itzultakoa. (Aurrerantzean, itzulpena <quote>aldaketa</quote> terminoaren sartuko da inongo mugarik gabe.)</para>


Lizentzia honi dagozkion jarduera bakarrak kopiatzea, banatzea eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kanpo daude. Programa bat Liburutegia erabili ez exekutatzea ez dago mugatuta, eta programa horren emaitza babestuta egongo da haren edukia liburutegian oinarritutako lana bada soilik (Liburutegia idatzeko tresna batean erabili den edo ez kontuan hartu gabe). Egia den edo ez, Liburutegiak egiten duenaren eta Liburutegia erabiltzen duen programak egiten duenaren araberakoa da.</para>

1. atala

Liburutegiaren iturburu-kode osoa jaso bezala kopiatu eta banatu dezakezu edozein euskarritan, baldin eta kopia bakoitzzari behar bezala eta ikusteko moduan jartzen badio egile-eskubideen oharra eta bermerik ez duela dieen oharra; Lizentziaren etar bermerik ezari dagozkion ohar guztietak oso-osorik uzten badituzu; eta Lizentziaren kopia Liburutegiarekin batera banatzen baduzu. <para>

Kuota kobra dezakezu kopia ematearen ekintza fisikoagatik, eta zure esku dago garantia-babesa ematea kuota baten truke.</para>

2. atala

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of
<link linkend="sect1">Section I</link> above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      The modified work must itself be a software library.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
    </para>
  </listitem>
  <listitem>
    <para>
      If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
    </para>
  </listitem>
  <para>
    (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
  </para>
  <para>
    These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
</para>

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>
</listitem>
</orderedlist>
</para></sect2>

<sect2 id="sect3" label="3">
<title>3. atala</title>

Liburutegiaren kopia bati GNU Lizentzia Publiko Orokorra baldintzak aplikatzea hauta dezakezu, Lizentzia hau aplikatu beharrean. Horretarako, Lizentzia horri erreferentzia egiten dioten ohar guztiak aldatu behar dituzu, GNU Lizentzia Publiko Orokor arruntaren 2. bertsioari erreferentzia egin diezaioten, Lizentzia honi egin beharrean. (GNU Lizentzia Publiko Orokorren 2. bertsioa baino berriago bat agertuko balitz, bertsio hori zehaztu dezakezu nahi izanez gero.) Ez egin beste aldaketarako ohar horietan.</para>

Kopia batean aldaketa hori egindakoan ezin daiteke aldatu, eta GNU Lizentzia Publiko Orokorra aplikatuko zaie kopia horren ondorengo kopia guztiei eta handik eratorritako lanei.</para>

Aukera hori erabilgarria da Liburutegiaren kodearen zati bat liburutegia ez den programa batean kopiatu nahi baduzu.</para>
</sect2>

Liburutegia kopiatu edo banatu dezakezu (edo Liburutegian oinarritutako lana, link linkend="sect2">2. atalean</link> azaltzen den bezala) objektu-kodean edo forma exeikutagarrian <link linkend="sect1">1. </link> eta <link linkend="sect2">2. </link> ataletako baldintzei jarraiki, baldin eta makina bidez irakurtzeko moduko iturburu-kode osoarekin batera banatzen baduzu, goiko <link linkend="sect1">1.</link> eta <link linkend="sect2">2. </link>
ataletan biltzen diren baldintzak betez softwarea trukatzeko eskuarker erabiltzen den euskarrian.

<para>Objektu-kodeen banaketa xede horretarako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide baliokidea eskaintzek iturburu-kodea banatzeko baldintza betetzen du, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburua kopiatzera.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>5. atala</title>

<para>Programa batek Liburutegiarekin zatietatik eratorri ez den edukia duenean, baina Liburutegiarekin lan egiteko diseinatutako dagoenen (harekin konpilatuta edo estekatuta), <quote>Liburutegia erabiltzen duen lana</quote> deitzen zaio. Horrelako lanak, bakarka, ez dira Liburutegitik eratorritako lanak, eta, beraz, Lizentzia honen esparrutik kanpo daude.</para>

<para>Hala ere, <quote>Liburutegia erabiltzen duen lan</quote> bat Liburutegiarekin estekatzen baduzu, exekutagarri bat sortzen du eta hori Liburutegiarekin eratorria da (Liburutegiarekin zatiak baititu), eta ez <quote>Liburutegia erabiltzen duen lana</quote>. Beraz, exekutagarria Lizentzia honen baitan sartzten da. <link linkend="sect6">6. atalean</link> exekutagarri horiek banatzeko baldintzak zehazten dira.</para>


<para>Horrelako objektu-fitxategi batek zenbakizko parametroak, datu-egituraren diseinuak eta gehigarriak, makro txikiak eta barneko funtzio txikiak (hamar leerro edo gutxiago luzeran) soilik erabiltzen baditu, objektu-fitxategiaren erabilerare mugatu gabe egongo da. Legalki lan eratorria den edo ez kontuan hartu gabe. (Objektu-kodea eta Liburutegiarekin zatiak dituzten exekutagarriak <link linkend="sect6">6.atalean</link> zehazten dira.)</para>

<para>Bestela, lana Liburutegiarekin eratorria bada, lanaren objektu-kodea <link linkend="sect6">6. ataleko</link> baldintzen pean banatu dezakue. Lan hori edoizin exekutagarri ere <link linkend="sect6">6. atalean</link> sartuko da, Liburutegiarekin zuzenean estekatuta dagoen edo ez kontuan hartu gabe. </para>

</sect2>

<sect2 id="sect6" label="6">
<title>6. atala</title>

<para>You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by</para>
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
      Accompany the work with the complete corresponding
      machine-readable source code for the Library including whatever
      changes were used in the work (which must be distributed under
      Sections <link linkend="sect1">1</link> and
      <link linkend="sect2">2</link> above); and, if the work is an
      executable linked with the Library, with the complete machine-readable
      <quote>work that uses the Library</quote>, as object code and/or source
      code, so that the user can modify the Library and then relink to
      produce a modified executable containing the modified Library. (It is
      understood that the user who changes the contents of definitions files
      in the Library will not necessarily be able to recompile the application
      to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the
      Library. A suitable mechanism is one that (1) uses at run time a
      copy of the library already present on the user's computer system,
      rather than copying library functions into the executable, and (2)
      will operate properly with a modified version of the library, if
      the user installs one, as long as the modified version is
      interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at
      least three years, to give the same user the materials
      specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
      this distribution.
    </para>
  </listitem>
  <listitem>
    <para>
      If distribution of the work is made by offering access to copy
      from a designated place, offer equivalent access to copy the above
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    </para>
  </listitem>
</orderedlist>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

Exekutagarrientzat, behar den "Liburutegia erabiltzen duen lan"ak exekutagarria kopiatzeko behar diren datu eta programa-utilitateak eduki behar ditu. Nolanahi ere, aparteko salbuespen gisa, banatzen den materialak ez dauka exekutatzeko erabiltzen den sistema eragilearen osagai nagusiekin (konpiladorea, nukleoa eta abar) banatu ohi den guztia eman beharrik (iturburu nahiz bitar moduan), baldin eta osagaia bera ez bada exekutagarriarekin batera banatzen.

Baliteke baldintza hori liburutegien jabeari buruz lizentzian ezartzen diren mugik kontraesanean egotea (normalen ez dira sistema eragilearekin batera etortzen). Kontraesan horrek esan nahi du ezin dituzula biak batera erabili banatzen duzun exekutagarri batean.

Liburutegian oinarritutako lana diren liburutegi-eginbideak elkarren ondoan jar ditzakezu liburutegi bakarrean, Lizentzia honetan aipatzen ez diren beste liburutegi-eginbide batzuekin batera, eta horrelako liburutegi konbinatua banatu ditzakezu, betiere Liburutegian oinarritutako lanaren eta beste liburutegi-eginbide batzuen banaketa bereizia onartzen bada, eta zuk bi gauza hauek egiten badituze:

Debekatuta dago lizentzia honen baitan espresuki adierazitakoa bete gabe Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzea. Beste era batean Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo
banatzeko saio oro deuseza izango da, eta Lizentzia honen bairnei dauzkaun eskubideak automatikoki kendu egingo zaizkizuz. Dena den, Lizentzia honen pean zuregangandik kopiat edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituzten bitartean.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>9. atala</title>


</sect2>

<sect2 id="sect10" label="10">
<title>10. atala</title>

<para>Liburutegia (edo Liburutegian oinarritutako edozein lan) birbanatzen duzun bakoitzean, hartzaileak automatikoki jasotzen du emailearengandik Liburutegia kopiatu, banatu edo aldatzeko jatorrizko lizentzia. Hemen ematen diren eskubideei dagokienez, ezin diozu bestelako murritzapenik ezarri hartzaileari. Ez da zure ardura hirugarrenei Lizentzia hau beteaztertzea.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>11 atala</title>

<para>Epaitegi-ebazpen baten ondorioz edo patente-eskubidea errurratu dela dioen salaketa baten ondorioz, edo beste edozein arrazoirengatik (ez bakarrik patente-gaiei dagokiiena) Lizentzia honen baldintzekin bat ez datozen baldintzak ezartzten bazaizkizuz, ez zaituzte Lizentzia honen baldintzak bete beharretik libratuko. Ezinezkoa bazaizu Lizentzia honetako baldintzak eta dagozkion beste betebeher batzuk betez banatzea, ezingo duzu Liburutegia inola ere banatu. Adibidez, patente-lizentzia batek ez balu onartuko zure bitartez zuzenean edo zeharka kopiat jasotzen dituzteneik Liburutegia egile-eskubiderik gabe birbanatzea, patentea eta Lizentzia hau betetzeko modu bakarra Liburutegia ez banatzea litzateke.</para>

<para>Atal honen zatiren bat baliogabea edo beteezina bada egoera bereziren batean, atalaren gainerrako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</para>

<para>Atal honen xedea ez da patenteak edo jabetza-eskubideen eskakizunak ez betetzera bultzatzea edo halako eskakizunen baliozkotasuna utzatzea; atal honen xede bakarra da software librearen banaketa-sistemaren zuzentasuna babestea, lizentzia publikoen bidez bideratzen baita. Sistema horren baiatu banatutako software ugariari ekarpen oparuekin dio jende askok, sistema modu iraunkorrean aplikatuko delakoan. Egile/emailearen esku dago erabakitzea beste sistemaren baten bidez banatu nahi duen edo ez, eta lizentziadun batek ezin du halako erabakirik inposatu.</para>

<para>Atal honek argi eta garbi utzi nahi du zer den Lizentziaren gainerrako zatiaren ondoriozta jotzen dena.</para>

</sect2>
Zenbait herrialdetan Liburutegiaren banaketa edo/eta erabilerako mugatzen baldin badute patenteen edo copyrightdun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kanpoan uzteko, banaketa bazierratu gabeko herrialdeetan edo horien artean soilik egin dadin. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzean idatzita egongo balitz bezala. <para>
</para>

Free Software Foundation-en behin Hedadura Txikiagoko Lizentzia Publiko Orokorren bertsio berrikuskiak edo berriak argitara dizake. Bertso berri horiek egunengoan antzekoak izango dira espirituz, baina arazo edo kezka berriei aurre egin beharko dietenez, lizekeena da zehatz-mehatz bat ez etortzea. <para>


LIBURUTEGIAREN LIZENTZIA DOAN EMATEN DENEZ, LIBURUTEGIAK EZ DU BERMERIK, LEGE APLIKAGARRIKA ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTENEK ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA <quote>DAGOEN-DAGOENEAN</quote> EMATEN DUTE INOLAKO BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABEI, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA, LIBURUTEGIAREN KALITATEARI ETA ERRENDIMENDUARI DAGOKIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. LIBURUTEGIAK AKATSIK EZANGO BALU, KONPONTZEKO EDO ZUZENTZEKO BEHARREZKO ZERBITZU GUZTIEN KOSTUA ZURE GAIN HARTU BEHARKO ZENUKE. <para>
LEGE APLIKAGARRIAK EDO IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELA KO EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALEKO ESKUBIDEDUNARI EDO GOIAN BAIMENTZEN DEN BEZALA LIBURUTEGIA BIRBANATU EDO ALDA DEZAKEEN BESTE ALDERDI BATI ERANTZUKIZUNIK ESKATU EZ KALTEENGATIK, EZ LIBURUTEGIAREN ERABILERAREN EDO ERABILTZEKO EZGAITASUNAREN ONDORIOZ SOR LITEZKEEN KALTE OROKOR, BEREZI, GEHIGARRI EDO ONDORIOZKOENGATIK (BESTEAK BESTE, DATUAK GALTZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEK JASANDAko GALERAK, EDO BESTE SOFTWARE BATEKIN LAN EGITEKO LIBURUTEGIAREN HUTS EGITEREN BAT), NAHIZ ETA ESKUBIDEDUNARI EDO BESTE NORBAIT HORRI KALTEAK IZAN LITEZKEELA AURRETIK ABISATU IZAN.
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A szerző jogainak végelében korlátosokat kell hozni, amelyek megtiltják, hogy bármilyen szabadon vagy megtagadja ezeket a jogokat mőködtetve, vagy bármilyen megszokatos programkötések előtt, vagy azok száma azok módosítása - azok számára, akik a szoftver műsorait terjesztik vagy módosítják.</para>

Ha valaki például egy ilyen programkötét működtet azon személyek számára, amelyek vagy jogot, vagy jogot megszokatos programok számára, akik a szoftver műsorait terjesztik vagy módosítják. Biztosítható, hogy a megtagadás vagy legalábbis megkaphassák a forrásfél is, és azokutának szüksége a jogait végelében, hogy tisztesleg legyenek a jogait végelében.

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amely jogalapot biztost a programknyvtr msolsra, terjesztsre s/vagy mdostsra.&lt;/para&gt;

&lt;para&gt;Az egyes terjesztik vdelmben vilgoss akarjuk tenni: a jelen szabad programknyvtra nincs jlls. Ha a programknyvtrat mdostottk s tovbbadtik, akkor mindenkn, aki a mdostott vlozatot kapja, tudnia kell, hogy az nem az eredeti, gy a msok ital okozott hibknak nem lehet hatsa az eredeti szerz hrnevre.&lt;/para&gt;

&lt;para&gt;Vgl, a szabad szoftver ltt llandan fenyegetik a szoftverszabadalmaik. El szeretnünk kerlni annak veszlyt, hogy a szabad program terjeszti szabadalmait jegyezhessenek be r, ezítal sajt szellemi tulajdnton kpevy tegyik a programot. Ennek rdekbenvr agaszkodunk hozz, hogy a programknyvtr egy vlozoaval kapcsolatban megszerzett brmely szabadalmi engedlynek szhangban kell lennie a jelen licenceben taglalt teljesen szabad hasznallt.</para&gt;

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&lt;para&gt;Amikor egy programot szszereszkesztenek egy programknyvtrral, fggetlenl attl, hogy statikusan vagy egy megosztott programknyvtr hasznallatval, a kett kombiniciija jogilag kzs munknak, az eredeti programknyvtr leszrmazottjnak szmt. A norml GNU General Public License (GPL) felttelek ezrt csak akkor engedi az ilyen szszereszkesztst, ha a teljes kombinci is megfelel a szabadsg feltelleinek. A GNU Lesser General Public License (LGPL) azonban kevs szigoruan rendelkezik ms kdnak a programknyvtrral szszereszkesztvl.</para&gt;

&lt;para&gt;Ritkn ugyan, de plld elfordulhat, hogy igny van egy meghatrozott programknyvtrnak a lehet legszlesebb krben trtn elterjesztstere, hogy az vlhasson a de facto szabvnny. Ehhez engedlyezni kell, hogy a nem szabad programok is hasznhassk a programknyvtrat. Gyakoribb eset az, hogy egy szabad programknyvtr ugyanazt a feladatot ltja el, mint a szles krben hasznlt nem szabad programknyvtrak. Ebben az esetben igen kevs elny szrmazik a programknyvtr kizrlag szabad szoftverekben felhasznlsra val korltozsnak, teht ilyenkor is az LGPL felteteit hasznljuk.&lt;/para&gt;

&lt;para&gt;Megint ms esetekben egy adott programknyvtr nem szabad programokban felhasznlnak engedlyezve azt jelenti, hogy tbb ember hasznhatl szabad szoftvert. Plld a GNU C Programknyvtr felhasznlsa nem szabad programokban azt jelenti, hogy sokkal tbb ember hasznhatja a teljes GNU opercis rendszert, illetve annak vlozatt, a GNU/Linux opercis rendszert.&lt;/para&gt;

&lt;para&gt;Br az LGPL kevs vdi a felhasznlk szabadsgt, azt azonban garantlja, hogy a Programknyvtrral szszereszkesztt program felhasznlna jogosult legyen a program hasznaltra a Programknyvtr mdostott vlozatval is.&lt;/para&gt;

&lt;para&gt;A msolsra, terjesztsre s mdostsra vonatkoz pontos szablyok s felttelek az albbiakban olvashatn. Nagyon fonts megklnbztetni a &lt;quote&gt;programknyvron alapul munka&lt;/quote&gt; s a &lt;quote&gt;programknyvtrat felhasznln munka&lt;/quote&gt; fogalmakat. Az elbbi a programknyvtrbl szrmaz kdot tartalmaz, mg az utbbi a futshoz ignyi a programknyvtrat.&lt;/para&gt;
A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK

0. szakasz

Ez a licenc minden olyan programknyvtarra vagy egyb programra vonatkozik, amelyhez a szerzi jog tulajdonosa vagy egyb jogosult fl azt a megmegyest ftze, hogy az a jelen LGPL-ben (ms nven a jelen Licencben) foglaltak alapin terjeszthet. Minden engedlyezs cmzettje n. </para>

Programknyvtr alatt fggvnyek s/vagy adatok olyan gyjtemnyt rtjk, amely gy lett elksztve, hogy kinyelmesen sszeszerkeszthet legyen alkalmazsprogramokkal (amelyek a fggvnyek s az adatok egy rszt hasznljk), vgreajthat fjlok elksztshez. </para>

Albbiakban a Programknyvtr kifejezs brmely ilyen programknyvtrra vagy munkra vonatkozik, a Programknyvtron alapul munka pedig magt a Programknyvtr vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a Programknyvtr vagy annak egy rszlett, mdostva vagy mdosts nlk s/vagy ms nyelvre fordta. (Az albbiakban a fords minden egyb megkts nlk beletartozik a mdosts megzsgs esetben.)

Egy munka Forrskdja a munknak az a formtuma, amelyben a mdostsok elvgzse a legegyszerben kivitelezhet. Egy programknyvtr esetben a teljes forrskd az Itala tartalmazott sszes modul forrskdjt jelenti, valamint minden hozz tartoz illesztdefincis fjlt, valamint a programknyvtr fordst s teleptst szablyoz parancsfjlokat.

A jelen Licenc a msolson, terjesztsen s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Programknyvtr hasznl program futtatsa nincs korltozva, illetve a program kimenetre is csak abban az esetben vonatkozik ez a szablyozs, ha az tartalmazza a Programknyvtron alapul munka egy rszlett (fgekettlen attl, hogy a Programknyvtr hasznlt-e egy eszkzben a megshoz). Az, hogy ez igaz-e, a Programknyvtr, illetve a Programknyvtr hasznl program mkdstl fgg.

1. szakasz

A Programknyvtr forrskdja mdosts nlk msolhat s brmely adathordozn terjeszthet, feltve, hogy minden egyes pldynon pontosan szerepel a megfelel szerzi jogi meggyezys, illetve a garanciavllals elutassta; rintetlen kell hagyni minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencedokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

Felszimthat dj a moslat fizikai tovbbtsa fejben, illetve ellenszolgltts fejben garanciils tmogats is biztosthat. </para>

2. szakasz
A Programknyvtr msolatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdosts ezutn az <link linkend="sect1">1. szakasz</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek: <orderedlist numeration="loweralpha">
<li>A mdostott munknak magnak is programknyvtrnak kell lennie.</li>
<li>A mdostott fjlokot el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vgz nevt s a mdostsok
dutm.</li>
<li>A teljes munkt olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly
rsze licencdjmentesen hozzfrhet legyen, a jelen Licencnek megfelelen.</li>
<li>Ha a mdostott Programknyvtr egy rsze egy olyan fggvnyre vagy adattbla hivatkozik, amelyet egy, az adott
rsz btz alkalmazsprogram biztost, s nem egy todott argumentumrl van sz annak meghvsakor, akkor mindent el
kell kveti annak rdekben, hogy amennyiben az alkalmazs nem biztostja a szkgs fggvnyt vagy adattblt, az adott
rsz akkor is mkdkpes maradjon, s vgrehajtja, amit csak a mkdsbl addan elvezhet.</li>
<li>Ha pldul egy programknyvtr egy fggvnye ngyzetgykt szmt, akkor annak a clja teljesen jl definiit, az
alkalmazstl fgettenl. Vagyis a 2d alpont azt kveteli meg, hogy a fggvny szmra az alkalmazs ltal biztostott fggvny
vagy adattbla opcionis legyen: ha az alkalmazs nem biztost ilyet, a ngyzetgyk fggvnynek akkor is ngyzetgykket kell
tudnia szmtani.)</li>
<li>Ezek a felttelek a mdostott munkra, mint egzsre vonatkoznak. Ha a munka azonosthat rszei nem a
Programknyvtron alapulnak s fgetten munkknt elklniten azonosthat, akkor ez a szablyozs nem vonatkozik ezekre
a rszekre, amennyiben azok kln munkaknt kerlnk terjesztsre. Visszont, ha ugyanez a rsz az egzs rszeknt kerl
terjesztsre, amely a Programknyvtron alapul munka, akkor az egzs munka terjesztse csak a jelen dokumentum alapjn
lehetssges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti a munka egzsre tekintet nkl
arra, hogy melyik rsz ki rta.</li>
<li>E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt
munkkra; a cl az, hogy a jogok gyakorlsa szabolyozva legyen a Programknyvtron alapul illetve a gyjmnyes munkk
terjesztse esetben.</li>
<li>Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a
Programknyvtron alapul munkval) kzs adathordozn vagy adattroln szrepeltetse nem jelenti a jelen szablyok
rnnyessgt azokra is.</li>
</orderedlist></para>

<sect2 id="sect3" label="3">
<title>3. szakasz</title>

<n vlaszthatja azt, hogy a Programknyvtr egy adott pldnya vonatkozan a norml GNU General Public
License használt ki ki s nem a jelen Licencet. Ehhez meg kell vltóztatni az erre a licencre hivatkozó szesz figyelmzettet, gy, hogy azok a jelen licenc helyett a norml GNU General Public License (GPL) 2. verzijra hivatkozzanak. (Ha a norml GNU General Public License-bl a 2. verzinl frissebb jelenne meg, akkor azt a verzit is elhata, ha akarja). Egyb vltóztatst ne tegyen a figyelmzettsekbén. </para>

<p>Miuin a mdosts megtrtnt, az visszafordíthatatlan az adott pldnrya vonatkozan, vagyis a GNU General Public License fog vonatkozni annak szesz tovbbi mslatra s az abbl a pldnbl szrmzatotott szesz munkra. </p>

<p>Ez a lehetsk akkor hasznos, ha a Programknyvtr kdjn egy rszt egy olyan programba akarja illeszteni, amelyik nem programknyvtr.</p>

<p>A Programknyvtr (vagy a programknyvtron alapul munka a megfelelen) mslhat s terjeszthet trgykd vagy vghajhatat kd formjban az s szakaszban foglaltak szerint, feltve, hogy a teljes, gp lal retelmezhet forrskd kri az anyagot, amelynek terjeszte az szakaszban foglaltak szerint trtnik, jellemzen szoftverterjesztsre hasznlt adathordozn. </p>

<p>Ha a trgykd terjeszte azt jelenti, hogy lehetsg van lemsolni egy meghatrozott helyrl, akkor ez teljesti a forrskd terjesztsre vonatkoz ktelezettsget, br a harmadik felek nem ktelesek a forrskdot a trgykddal egytt lemsolni.</p>

<p>Az olyan Programknyvtrat, amely nem tartalmazza a Programknyvtr semmilyen rsznek leszrmazottj, de gy kszlt, hogy a Programknyvtronl egytmkdjn, hozzfords vagy hozzszerkeszt tijn, <quote>Programknyvtrat haszn munknak</quote> nevezzk. Az ilyen munkk elszigetelten nem szmtanak a Programknyvtr szrmzatotott munkjn, gy a jelen Licenc hatlyn kvl esnek.</p>

<p>Egy, a <quote>Programknyvtrat haszn munka</quote> s a Programknyvtr szszserkeszte azonban egy olyan vghajhatat fjl eredmnyez, amelyik a Programknyvtr szrmzatotott munkja (hiszen tartalmazza a Programknyvtr rszeit), nem pedig a <quote>Programknyvtrat haszn munka</quote>. A vghajhatat fjlra teht vonatkozik a jelen Licenc. A <link linkend="sect6">6. szakasz</link> taglalja az ilyen vghajhatat fjlk terjesztsnek feltteleit.</p>

<p>Ha egy <quote>Programknyvtrat haszn munka</quote> egy olyan fejlcjl anyagt hasznja, amelyik a Programknyvtr rsze, akkor a munka trgykdja lehet a Programknyvtr szrmzatotott munkja, akkor is, ha maga a forrskd nem az. Az, hogy ez igaz-e, klnsen fontos, ha az adott munka szszserkeszthet a Programknyvtr nkli is, vagy ha a munka maga is egy programknyvtr. Azt, hogy ez mikor igaz, a trvny nem szabloyozza pontosan.</p>

<p>Ha egy ilyen objektumfjl csak numerikus paramtereket, adatstruktura-elrendezseket, -hozzfseket, kisebb makrkat s kisebb begyazott fggvnyeket (nem tbb, mint tz sorryit) hasznl, akkor az objektumfjl hasznlata nem

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korlótozott, független attl, hogy szrmaztatott munka-e vagy sem. (A trgykdot s a Programknyvtrr szzeit tartalmaz
vrehajhat fjlok tovbbra is a <link linkend="sect6">6. szakasz</link> hatlya al tartoznak.) </para>

    <para>Ellenkez esetben, ha a munka a Programknyvtr szrmaztatott munkja, akkor a trgykdja terjeszthet a <link linkend="sect6">6. szakasz</link> feltteleinek megfelelen. A munka tartalmaz vrehajhat fjl szintn a <link linkend="sect6">6. szakasz</link> hatlya al esnek, akkor is, ha nincsenek kzetlenl a Programknyvtrral 
sszeszerkesztve. </para>

<section id="sect6" label="6">
    <title>6. szakasz</title>

    <para>A fenti szakaszok kivteleknt egy, a <quote>Programknyvtr hasznl munka</quote> egyesthet vagy 
sszeszerkeszthet a Programknyvtrral, hogy ltrejzn egy olyan munka, amely tartalmazza a Programknyvtrr szzeit, s az
ilyen munka terjeszthet az n talat vasattott felttelek szerint is, feltve, hogy ezek a felttelek megengedik a munka 
szabad mdstst a vsrl sajt hasznlatra s az ilyen mdostok hibakeressre szolglt visszafejst. </para>

    <para>A munka minden egyes pdlnyn megfelelen jelezni kell, hogy a Programknyvtr hasznlnja, s hogy a
hasznlatot a jelen Licenc szablyozza. Mellkelni kell a jelen Licenc egy pdlnyt. Ha a munka vrehajts kben szerzi 
jogi megjegyzseket jelent meg, akkor ezek kzt szerepelnie kell a Programknyvtr szerzi jogi megjegyzsnek is,
valamint egy hivatkozsnsnak, amely a felhasznlt a jelen Licenc egy pdlnyhoz irnytja. Tovbb az albbiak egyik 
biztostani kell: <orderedlist numeration="loweralpha">
    <listitem>
        <para id="sect6a">A munka mell mellkeln kell a Programknyvtr teljes, gppel olvashat forrskdjt, jelezve, hogy a
(fenti <link linkend="sect1">1.</link> s <link linkend="sect2">2.</link> szakaszoknak megfelelen terjesztett)
munkban milyen mdostok trntnek; valamint, ha a munka egy, a Programknyvtrral szsszerkesztett vrehajhat fjl, a
teljes <quote>Programknyvtr hasznl munka</quote> gppel olvashat kdjt, ahhoz hogy trgykdjnt s/vagy forrskdjnt
a felhasznl mdosthassa a Programknyvtr s utna tszerkeszthesse azt egy olyan mdostott vrehajhat fjl ellltshoz,
amely tartalmazza a Programknyvtrr. (Termztesizes elfordulhat, hogy a Programknyvtr definics fjljainak tartalmi
megvitolat felhasznln nem fttlenl less kpes jrafordtani az alkalmazst a mdostott definicikkal.)</para>
    <listitem>
    <listitem>
        <para>Egy megfelel megosztott Programknyvtr-mechanizmus hasznlna a Programknyvtrval 
szsszerkesztszhers. Megfelel mechanizmus az olyan, amely (1) futsi idben a programknyvtr egy, m a felhaszn
szmtgprendszern megtallhat pdlnyt hasznlnja, nem pedig bemsolja a programknyvtr egyes fggvnyeit a vrehajhat
fjlba, tovbb (2) megfelelen mkdik a programknyvtr mdostott vltozatval is, ha a felhasznl egy olyat telept, feltve,
 hogy a mdostott verzi interfse kompatibilis azzal a verzival, amelyikkel a munka kszlt.</para>
    <listitem>
    <listitem>
        <para>A munkhoz egy legalbb hrom vig rnyes rsos ajnlat mellkelse, hogy ugyanazon felhasznl szmra a <link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztostja, nem nagyobb djrt, mint a jelen
terjeszts dja.</para>
    <listitem>
    <listitem>
        <para>Ha a munka terjesztse egy adott helyrl trtn msols engedlyezst jelenti, akkor egyenrtk hozzfrs biztostsa
szkses a fent meghatrozott anyagok ugyanonn lmsolshoz.</para>
    <listitem>
    <listitem>
Annak ellenrzse, hogy a felhasznl mr megkapta ezen anyagok egy pldnnyt, vagy hogy mr el lett kldve a felhasznlnak egy pldny. </para>

Vgrehajthat fjl esetben a "Programknyvtrat hasznl munka" elvrt formjnak tartalmaznia kell minden adatot s segdprogramot, amelyre szksg van a bellk szrmaz vgrehajhat fjl ellthoz. Specilis kivtelknt a terjesztett anyagoknak nem kell semmi olyat tartalmaznia, amelyek norml esetben azon opercis rendszer f rszeivel (fordt, kernel stb.) egyt kln rlet egyszrre (akr forskdknt, akr binris formban), amelyen a vgrehajhat fjl futn fog, kivve, ha a komponens maga a vgrehajthat fjlall egyt rkezik. </para>

Elfordulhat, hogy ez a kvetelmny ellentmond ms szellemi tulajdonk programknyvtrak licenckorltsainak, amelyek norml esetben nem jrnak az opercis rendszer mell. Az ilyen ellentmonds azt jelenti, hogy nem hasznlnhatja azokat s a Programknyvtrat egyt egy terjeszteni kvnt vgrehajthat fjlban.</para>

n elhelyezheti a programknyvtr egyes rszeit, amelyek a Programknyvtron alapul munknak szmtanak, egyms mellett egyetlen programknyvtrban ms programknyvtr rszeivel egyt, amelyekre nem vonatkozik a jelen Licenc, s az ilyen egyestett programknyvtrat is terjesztheti, feltve, hogy a Programknyvtron alapul munka s a msik programknyvtr rszeinek kln-kln terjesztse egybknt engedlyezett s az albbi kt dolog valamelyikt biztostja:</para>

Az egyestett programknyvtr mell mellkeli a Programknyvtron alapul ugyanazon munkt, amely nincs egyestve semmilyen ms programknyvtr rszeivel. Ezt a fenti rszek feltteleinek megfelelen kell terjeszteni. </para>

Megfelel figyelmeztetst alkalmaz az egyestett programknyvtr mell a tnyrl, hogy ez rszben a Programknyvtron alapul munka, s elmagyarzza, hogy hol tallhat ugyanazon munka nem egyestett formban.</para>

A Programknyvtrat csak a jelen Licencben lertaknak megfelelen szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon val msols, mdosts, terjeszt s allicencbe ads rvnytelen, s azonnal rvnytelent a dokumentumban biztosottt jogosultsgokat. Mindazonltal azok, akik a Licencet megszeglt kaptak pldnnyokat vagy jogokat, tovbb gyakorolhatjik a Licenc Ital meghatrozott jogaikat mindaddig, amg teljes mrtkben megfelelnk a Licenc feltteleinek. </para>
9. szakasz

Nem kielez elfogadnia ezt a szabályozst, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad jogokat a Programknyvtr vagy a szmazzttott munkk terjesztsre s mdostsra. Ezeket a cselekedeteket az trvny bntti, ha nem a jelen szerzi jogi szabályozs kereti kzt trtnek. Mindezek miatt a Programknyvtr (vagy a Programknyvtron alapul munka) terjesztse vagy mdostsa a jelen dokumentum szabályainak, s azon bell a Programknyvtr vagy a munka mdostsra, msolsra vagy terjesztstre vonatkoz sszes felttelnek elfogadst jelenti. </para>

10. szakasz

Minden alkalommal, amikor a Programknyvtr (vagy az azon alapul munka) tovbbadsa trtnik, a Programknyvtrat megkap szemly automatikusan hozzjut az eredeti licenc tulajdonos sl szmaz licenchez, amely a jelen szabályok szerint biztostja a jogot a Programknyvtr msolsra, terjesztsre, szerkesztshs felhasznslsra s mdostsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flnek az itt megadott jogait. A Programknyvtr tovbbadj a nem felels harmadik szemlyekkel betartatni a jelen szabályokat. </para>

11. szakasz

Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellenttesek a jelen felttelekkel, az nem menti fel a terjesztt a jelen felttelek figyelembevtele all. Ha a terjeszts nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyettes betarttsval, akkor tilos a Programknyvtr terjesztse. Ha pld egy licencszabadalom nem engedi meg egy programknyvtr jogd nikli tovbbterjesztst azok szmra, akik kvtvete vagy kvtetlenl megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felttelnek, az, hogy ell a programknyvtr terjesztstl. </para>

12. szakasz

Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz fennmarad rszt kell alkalmazni, egyb esetekben pedig a szakasz egzse alkalmazand. </para>
Programkönyvtrat ezen szabályozs alapján adja kizre, egy explicit fdlrajzi megkést adhat a terjesztésre, s egyes országokat kizrhat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megkést is tartalmazza, ugyany, mintha az a szvegben lenne lerva.</para>

</sect2>

<title id="sect13" label="13">
13. szakasz</title>

<para>A Free Software Foundation idrl idre kiadja a GNU Lesser General Public License (LGPL) fellvizsglt s/vagy jabb vltozait. Ezek az jabb dokumentumok az elzek szellemben ksznek, de rszletekben klnbzhetnek, hogy j problmkat vagy agglyokat is kezeljenek.</para>

</sect2>

<title id="sect14" label="14">
14. szakasz</title>

<para>A dokumentum minden vltozata egy megklnbztott verzisszmmal elltva jelenik meg. Ha a programkönyvtr szerzi jogi megjegyzesben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellete, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation itl kiadott kbbi verzibn lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation itl valaha kibocstott brmelyik verzi alkalmazsra.</para>

</sect2>

<title id="sect15" label="15">
GARANCIAVLLALS HINYA</title>

<subtitle id="sect15" label="15">15. szakasz</subtitle>

<para>MIVEL A JELEN PROGRAMKNYVTR HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMKNYVTRHOZ A GARANCIÁ BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBAN MSKNT NEM NYILATKOZNAK, A PROGRAMKNYVTR A <quote>JELEN LLAPOTBAN</quote> KERL. KIADSRA, MINDENFLE GARANCIAVLLALS NLKL., LEGYEN AZ KIFEJEZETT VAGY BELERTETT, BELETVE, DE NEM KIZRLAGOSAN A FORGALOMBAHOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAMKNYVTR MINSGL. S MKDSBL FA KD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAMKNYVTR HIBSAN MKDIAK, A FELHASZNLNKA MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</para>

</sect2>

<title id="sect16" label="16">
16. szakasz</title>

<para>AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGLLAPODSBAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAMKNYVTR SZERZJE, SEM MSOK,
AKIK MINDENKÉNY IN LAPJAINAK MEGFELELLEN, NEM TEHETIK FELELSS A KROKRT, BELERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAMKNYVTR HASZNLATLB VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZST S A HELYTELENE ADATFELDOLGOZST, VALAMINT A MS PROGRAMKNYVTRAKKAL VAL HIBS EGYTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOGY ILYEN KROK KELETKEZNETNEK.
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</para>
</sect1>

<sect1 id="fdl-section1" label="1">
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</sect1>

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<title>4</title>
<para>3</para>
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<sect id="sect5" label="5">
<title>5</title>
<para>2</para>
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<sect id="sect8" label="8">
<title>8</title>
<para>, GPL</para>
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<title>9</title>
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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a <quote>work that uses the Library</quote>. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a <quote>work that uses the Library</quote> with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a <quote>work that uses the Library</quote> uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the <quote>work that uses the Library</quote> must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
S'AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCIADORS I/O LES ALTRES PARTS OFEREIXEN LA BIBLIOTECA "TAL COM S", SENSE CAP Tipus DE GARANTIA, NI EXPLÍCITA NI IMPLÍCITA; AIXÍ INCLUSIÓ, SENSE LIMITAR-S'H, LES GARANTIES IMPLÍCITES DE COMERCIALITZACIÓ I ADEUACIÓ A UN S CONCRET. TOT EL RISC PEL QUE FA A LA Qualitat I RENDIMENT DE LA BIBLIOTECA S VOSTRE. EN CAS QUE LA BIBLIOTECA RESULTS DEFECTUOSA, VS ASSUMIU TOT EL COST D'ASSISTÈNCIA, REPARACIÓ O CORRECCIÓ.

<sect2 id="sect16" label="16">
<title>Secció 16</title>


</sect2>
</sect1>
</article>

Quando nos referimos a software livre, estamos nos referindo a liberdade, e não a preço. As nossas Licenças Públicas Gerais foram desenvolvidas para garantir que você tenha a liberdade de distribuir cópias de softwares livres (e
cobar por este servio, se quiser); que voc receba o cdigo-fonte ou tenha acesso a ele, se quiser; que voc possa alterar o software ou utilizar partes dele em novos programas livres; e que voc saiba que pode fazer tudo isso.</para>

<para>Para proteger seus direitos, precisamos fazer restries que impeam a qualquer um negar estes direitos ou solicitar que voc abdique deles. Estas restries traduzem-se em certas responsabilidades para voc, se voc for distribuir cpias do software ou modific-lo.</para>

<para>Por exemplo, se voc distribuir cpias de um programa, gratuitamente ou por alguma quantia, voc tem que fornecer aos receptores todos os direitos que voc possui. Voc tem que garantir que eles tambm recebam ou possam obter o cdigo-fonte. E voc tem que mostrar-lhes estes termos para que eles possam conhecer seus direitos.</para>

<para>Ns protegemos seus direitos em dois passos: <orderedlist numeration="arabic">
<li><para>com direitos autorais do software; e</para></li>
<li><para>com a oferta desta licena, que lhe d permissio legal para copiar, distribuir e/ou modificar o software.</para></li>
</orderedlist></para>

<para>Alm disso, tanto para a proteo de cada autor quanto a nossa, gostaramos de nos certificar de que todos entendam que no h qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram no original, de forma que qualquer problema introduzido por terceiros no interfira na reputao do autor original.</para>

<para>Finalmente, qualquer programa livre ameaado constantemente por patentes de software. Queremos evitar o perigo de que redistribuidores de software livre obtenham individualmente licenas de patentes, o que teria o efeito de tornar o programa proprietrio. Para prevenir isso, deixamos claro que qualquer patente tem que ser licenciada para uso livre e gratuito por qualquer pessoa, ou ento que no seja licenciada.</para>

<para>Os precisos termos e condies para cpir, distribuir e modificar se encontram abaixo.</para>

</sect1>

<sect1 id="terms" label="none">
<title>TERMOS E CONDIES PARA CPIA, DISTRIBUIO E MODIFICAO</title>

<sect2 id="sect0" label="0">
<title>Seo 0</title>

<para>Esta Licena se aplica a qualquer programa ou outro trabalho que contenha um aviso colocado pelo detentor dos direitos autorais informando que aquele pode ser distribuido sob as condies desta Licena Pblica Geral. O Programa abaixo refere-se a qualquer programa ou trabalho, e trabalho baseado no Programa significa tanto o Programa em si como quaisquer trabalhos derivados, de acordo com a lei de direitos autorais: isto quer dizer um trabalho que contenha o Programa ou parte dele, tanto originalmente quanto com modificaes, e/ou traduo para outro idioma. (Doravante traduo est incluido sem limites no termo modificao.) Cada licenciado mencionado como voc. </para>

<para>Atividades alm de cpir, distribuir e modificar no esto cobertas por esta Licena; elas esto fora de seu
escopo. O ato de executar o Programa no restringido, e o resultado do Programa coberto apenas se seu contedo contenha trabalhos baseados no Programa (independentemente de terem sido gerados pela execuo do Programa). Se isso verdadeiro depende do que o Programa faz.</para>

<sect2>

<title>Seo 1</title>

<para>Voc pode copiar e distribuir cpias fiis do cdigo-fonte do Programa da mesma forma que voc o recebeu, usando qualquer meio, desde que voc conspca e apropriadamente publique em cada cpia um aviso de direitos autorais e uma declarao de inexistncia de garantias de forma apropriada; mantenha intactos todos os avisos que se referem a esta Licena e ausncia total de garantias; e fornea a outros recebedores do Programa uma cpia desta Licena, junto com o Programa.</para>

<para>Voc pode cobrar pelo ato fsico de transferir uma cpia e pode, opcionalmente, oferecer garantia em troca de pagamento.</para>

<title>Seo 2</title>

<para>Voc pode modificar sua cpia ou cprias do Programa, ou qualquer parte dele, assim gerando um trabalho baseado no Programa, e copiar e distribuir essas modificaes ou trabalhos sob os termos da Seo 1 acima, desde que voc tambm se atenda a todas estas condies: <orderedlist numeration="loweralpha">

<li>Voc tem que fazer com que os arquivos modificados levem avisos proeminentes afirmando que voc alterou os arquivos, incluindo a data de qualquer alterao.</li>

<li>Voc tem que fazer com que quaisquer trabalhos que voc distribua ou publique, e que integralmente ou em partes contenham ou sejam derivados do Programa ou de suas partes, sejam licenciados, integralmente e sem custo algum para quaisquer terceiros, sob os termos desta Licena.</li>

<li>Se o programa modificado normalmente I comandos interativamente quando executados, voc tem que fazer com que, quando iniciado tal uso interativo da forma mais simples, seja impresso ou mostrado um anncio de direitos autorais um e anncio de que no h qualquer garantia (ou ento, que voc fornece a garantia) e que os usurios podem redistribuir o programa sob estas condies, ainda informando os usurios como consultar uma cpia desta Licena. <note><title>Exceo:</title><para>se o Programa em si interativo mas normalmente no imprime estes tipos de anncios, seu trabalho baseado no Programa no precisa imprimir um anncio.</para></note></li>

<li>Estas exigncias aplicam-se ao trabalho modificado como um todo. Se se identifiqueis de tal trabalho no forem derivadas do Programa, e que podem ser razoavelmente consideradas trabalhos independentes e separados por si s, ento esta Licena, e seus termos, no se aplicam a estas sees quando voc distribu-las como trabalhos em separado.
Mas quando voc distribuir as mesmas sees como parte de um todo, o qual baseado no Programa, a distribuição como um todo deve que se enquadrar nos termos desta Licena, cujas permisses para outros licenciados se estendem ao todo, portanto para cada e toda parte, independente de quem a escreveu."

"<para>Desta forma, esta seo no tem a intenção de reclamar direitos ou contestar seus direitos sobre o trabalho escrito inteiramente por voc; ao invés disso, a intenção deve exercitar o direito de controlar a distribuição de trabalhos, derivados ou coletivos, baseados no Programa."

"<para>Adicionalmente, a mera agregação do Programa de outro trabalho no baseado no Programa (ou de trabalho baseado no Programa) em um volume de armazenamento ou meio de distribuição no faz o outro trabalho parte do escopo desta Licena."

"<sect2>

"<sect2 id="sect3" label="3">
<title>Seo 3</title>

"<para>Voc pode copiar e distribuir o Programa (ou um trabalho baseado nele, conforme descrito na <link linkend="sect2">Seo 2</link>) em código-objeto ou em forma executável sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima, desde que voc também faça um dos seguintes itens: <orderedlist numeration="loweralpha">
<li><para>O acompanhe com o cdigo-fonte completo correspondente e em forma acessível por máquinas, que deve ser distribuído sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima e em meio normalmente utilizado para o intercâmbio de software; ou, </para></li>
<li><para>O acompanhe com uma oferta expressa, válida por pelo menos três anos, de fornecer a qualquer terceiros, com um custo no superior ao custo de distribuição física do material, uma cópia do cdigo-fonte completo e em forma acessível por máquinas, que deve ser distribuído sob os termos das Sees 1 e 2 acima e em meio normalmente utilizado para o intercâmbio de software; ou, </para></li>
<li><para>O acompanhe com a informação que voc recebeu em relação oferta de distribuição do cdigo-fonte correspondente. (Esta alternativa permitida somente em distribuição no comercial, e apenas se voc recebeu o programa em forma de cdigo-objet ou executável, com oferta, de acordo com a Subseo b acima.)</para></li>
</orderedlist>

"<para>O cdigo-fonte de um trabalho corresponde forma de trabalho preferida para se fazer modificações. Para um trabalho em forma executável, o cdigo-fonte completo significa todo o cdigo-fonte de todos os módulos que ele contém, mais quaisquer arquivos de definir de "interface", mais os "scripts" utilizados para se controlar a compilao e a instalação do executável. Contudo, como exceção especial, o cdigo-fonte distribuído no precisa incluir qualquer componente normalmente distribuído (tanto em forma original quanto binária) com os maiores componentes (o compilador, o "kernel" etc.) do sistema operacional sob o qual o executável funciona, a menos que o componente em si acompanhe o executável."

"<para>Se a distribuição do executável ou cdigo-objet feita através da oferta de acesso a cópias de algum lugar, ento ofertar o acesso equivalente a cópia, do mesmo lugar, do cdigo-fonte equivale distribuição do cdigo-fonte, mesmo que
terceiros no sejam compelidos a copiar o código-fonte com o código-objeto.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Você não pode copiar, modificar, sub-licenciar ou distribuir o Programa, exceto de acordo com as condições expressas nesta Licença. Qualquer outra tentativa de cópia, modificação, sub-licenciamento ou distribuição do Programa vedado, e cancelar automaticamente os direitos que lhe foram fornecidos por esta Licença. No entanto, terceiros que receberam cópias ou direitos, fornecidos por você sob os termos desta Licença, no terão suas licenças canceladas, desde que permaneçam em total concordância com ela.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Você não obrigado a aceitar esta Licença, j que não a assinou. No entanto, nada mais o dar permissão para modificar ou distribuir o Programa ou trabalhos derivados deste. Estas são proibidas por lei, caso você não aceite esta Licença. Desta forma, ao modificar ou distribuir o Programa (ou qualquer trabalho derivado do Programa), você estar indicando sua total aceitação desta Licença para fazê-los, e todos os seus termos e condições para copiar, distribuir ou modificar o Programa, ou trabalhos baseados nele.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Cada vez que você redistribuir o Programa (ou qualquer trabalho baseado nele), os recebedores adquirirão automaticamente do licenciador original uma licença para copiar, distribuir ou modificar o Programa, sujeitos a estes termos e condições. Você não poder impor aos recebedores qualquer outra restrição ao exercício dos direitos ento adquiridos. Você não responsável em garantir a concordância de terceiros a esta Licença.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Seo 7</title>

<para>Se, em consequência de decisões judiciais ou alegações de infrigimento de patentes ou quaisquer outras razões (no limitadas a assuntos relacionados a patentes), condições forem impostas a você (por ordem judicial, acordos ou outras formas) e que contradigam as condições desta Licença, elas não o livram das condições desta Licença. Se você não puder distribuir de forma a satisfazer simultaneamente suas obrigações para com esta Licença e para com as outras obrigações pertinentes, ento como consequência você não poderá distribuir o Programa. Por exemplo, se uma licença de patente não permitir a redistribuição, livre de "royalties", do Programa, por todos aqueles que receberem cópias direta ou indiretamente de você, ento a única forma de você satisfazer a ela e a esta Licença seria a de desistir completamente de distribuir o Programa.</para>

<para>Se qualquer parte desta seo for considerada inútil ou não aplicável em qualquer circunstância particular, o restante da seo se aplica, e a seo como um todo se aplica em outras circunstâncias.</para>

<para>O propósito desta seo no o de induzi-lo a infringir quaisquer patentes ou reivindicação de direitos de
propriedade outros, ou a contestar a validade de quaisquer dessas reivindicações; esta se o tem como nico propósito proteger a integridade dos sistemas de distribuição de software livres, o que implementado pela prática de licenças públicas. Várias pessoas têm contribuído generosamente e em grande escala para os software distribuídos usando este sistema, na certeza de que sua aplicação feita de forma consistente; fica a critério do autor/doador decidir se ele ou ela est disposto a distribuir software utilizando outro sistema, e um licenciado no pode impor qualquer escolha.</para>

<para>Esta seo destina-se a tornar bastante claro o que se acredita ser conseqüência do restante desta Licença.</para>

<sect2 id="sect8" label="8">
<title>Seo 8</title>

<para>Se a distribuição e/ou uso do Programa seja restringidos em certos países por patentes ou direitos autorais, o detentor dos direitos autorais original, e que colocou o Programa sob esta Licença, pode incluir uma limitação geoográfica de distribuição, excluindo aqueles países de forma a tornar a distribuição permitida apenas naqueles ou entre aqueles países ento no excluídos. Nestes casos, esta Licença incorpora a limitação como se a mesma constasse escrita nesta Licença.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Seo 9</title>

<para>A Free Software Foundation pode publicar versões revisadas e/ou novas da Licença Pública Geral de tempos em tempos. Estas novas versões serão similares em espírito versão atual, mas podem diferir em detalhes que resolvem novos problemas ou situações.</para>

<para>A cada versão dada um número distinto. Se o Programa especifica um número de versão específico desta Licença que se aplica a ele e a "qualquer nova versão", você tem a opção de aceitar os termos e condições daquela versão ou de qualquer outra versão publicada pela Free Software Foundation. Se o Programa não especifica um número de versão desta Licença, você pode escolher qualquer versão já publicada pela Free Software Foundation.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Seo 10</title>

<para>Se você pretende incorporar partes do Programa em outros programas livres, cujas condições de distribuição são diferentes, escreva ao autor e solicite permissão. Para o software que a Free Software Foundation detém direitos autorais, escreva Free Software Foundation; às vezes nós permitimos exceções a este caso. Nossa decisão será guiada pelos dois objetivos de preservar a condição de liberdade de todas as derivadas do nosso software livre, e de promover o compartilhamento e reutilização de software em aspectos gerais.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>AUSNCIA DE GARANTIAS</title>

<para>Uma vez que o Programa licenciado sem NUS, no h qualquer garantia para
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</sect2>

<sect2 id="sect12" label="12">
<title>Seo 12</title>
<para>EM NENHUMA OCASION, A MENOS QUE EXIGIDO PELAS LEIS APLICVEIS OU ACORDO EXPRESSO, OS DETENTORES DOS DIREITOS AUTORAIS, OU QUALQUER OUTRA PARTE QUE POSSA MODIFICAR E/OU REDISTRIBUIR O PROGRAMA CONFORME PERMITIDO ACIMA, SERÁ RESPONSABILIZADOS POR VOC POR DANOS, INCLUINDO QUALQUER DANO EM GERAL, ESPECIAL, ACIDENTAL OU CONSEQUENTE, RESULTANTES DO USO OU INCAPACIDADE DE USO DO PROGRAMA (INCLUINDO, MAS NO LIMITADO A, PERDA DE DADOS OU DADOS TORNADOS INCORRETOS, OU PERDAS SOFRIDAS POR VOC OU POR OUTRAS PARTES, OU FALHAS DO PROGRAMA AO OPERAR COM QUALQUER OUTRO PROGRAMA), MESMO QUE TAL DETENTOR OU PARTE TENHAM SIDO AVISADOS DA POSSIBILIDADE DE TAISS DANOS.</para>
</sect2>
</sect1>
</article>
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Enrico Nicoletto  
rafael.f.f1@gmail.com

Rafael Ferreira  
rafael.f.f1@gmail.com

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Enrico Nicoletto

Rafael Ferreira
INTRODUÇÃO

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licena, a verso original em inglês prevalecer.</para>
</sect1>

<sect1 id="fdl-section9" label="9">
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</sect1>

<sect1 id="fdl-section10" label="10">
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</sect1>

<sect1 id="fdl-using" label="none">
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We protect your rights with two steps:

<listitem>
  <para>
    copyright the software, and
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</listitem>

<listitem>
  <para>
    offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.
  </para>
</listitem>
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
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- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program.
under these conditions, and telling the user how to view a copy of this License.

<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

<para>

</para>
</listitem>
</orderedlist>

<para>

</para>
</sect2>

<sect2 id="sect3" label="3">
<title>3</title>

<para>
You may copy and distribute the Program (or a work based on it, under <link linkend="sect2">Section 2</link>) in object code or executable form under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
<li>
Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above on a medium customarily used for software interchange; or,
</li>
<li>
Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</para>
</listitem>
</listitem>

<para>
Accompany it with the information you received as to the offer to distribute
corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
</para>
</listitem>
</orderedlist>

</sect2>

<sect2 id="sect4" label="4">
<title>4</title>

<para>
scripts . compilation installation. ( ) ( ... ).</para>
</sect2>

<sect2 id="sect5" label="5">
<title>5</title>

<para> ( ) .</para>
</sect2>

<sect2 id="sect6" label="6">
<title>6</title>

<para> ( ) .</para>
</sect2>

<sect2 id="sect7" label="7">
<title>7</title>

<para> ( ) ( ) . . ( ) .</para>
</sect2>
<title>Llicncia pública general de GNU</title>
<copyright><year>2000</year> <holder>Free Software Foundation, Inc.</holder></copyright>

<author><surname>Free Software Foundation</surname></author>

<publisher role="maintainer">
<publishername>Projecte de documentaci del GNOME</publishername>
</publisher>

<revhistory>
<revision><revnumber>2</revnumber> <date>1991-06</date></revision>
</revhistory>

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<para>Tothom pot copiar i distribuir cpies literals d'aquest document de llicncia, per no es permet de fer-hi modificacions.</para>
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<abstract role="description"><para>Les llicncies de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrriament, la Llicncia pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuries.</para></abstract>

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<firstname>Slvia Miranda</firstname>
</personname>
</othercredit>

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<personname>
<firstname>Gil Forcada</firstname>
</personname>
</othercredit>
Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència Pública General de GNU està pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuaris. Aquesta Llicència Pública General s'aplica a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programa els autors del qual es comprometin a utilitzar-la (alguns altres programari de la Free Software Foundation, en canvi, està protegit per la Llicència Pública General per a biblioteques de GNU). També podeu aplicar-la als vostres programes.

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2. Us oferim aquesta llicència que us dna perms legal per a copiar, distribuir i/o modificar el programari.
que el que tenen no s'original, per tal que qualsevol problema que hagin pogut introduir terceres persones no repercuteixi en la reputació del autor o autora original. </para>

Finalment, qualsevol programa lliure est constantment amenaat per les patents de programari. Volem evitar el perill que els redistribuidors d'un programa lliure acabin obtenint llicències de patents i que, com a conseqüència d'aix, el programa esdevingui propietat exclusiva d'algu. Per evitar-ho, hem deixat clar que, de qualsevol patent, se n'han d'emetre llicències per a tothom o no emetre'n cap. </para>

Les condicions exactes per a la cpia, distribució i modificació es següents.

</sect1>

<TERMES I CONDICIONS PER A LA CPIA, DISTRIBUCIÓ I MODIFICACIÓ>

Secció 0

A questa llicència s'aplica a qualsevol programa o altra obra que contingui un avís del possessor del copyright que digui que es pot distribuir sota els termes d'aquesta llicència pública general. D'ara endavant, el <quote>programa</quote> es refereix a aquest programa o obra, i una <quote>obra basada en el programa</quote> es refereix al programa o a qualsevol obra derivada segons la llei de copyright: s a dir, una obra que contingué el programa o alguna part del programa, ja sigui literalment o amb modificacions o b tradut a altres llengües (d'ara endavant, les traduccions s'inclouen sense cap limitació en el terme <quote>modificació</quote>). Ens referim a cada beneficiari de la llicència com a <quote>vs</quote>.

Les activitats que no siguin cpia, distribució o modificació no es tenen en compte en aquesta llicència, queden fora del seu mbit. No es restringeix l'acte d'executar el programa, i la llicència noms protegeix la producció que s'obtingui amb el programa si el seu contingut constitueix una obra basada en el programa (independentment de si s'ha creat executant el programa). Que aquest sigui el cas o no depèn de quça faci el programa.

Secció 1

Podeu copiar i distribuir cpies literals del codi font del programa tal com el rebue, en qualsevol mitjà, sempre que publiqueu en cada cpia, de manera adient i ben visible, una nota de copyright i una renúncia de garantia; mantengu-intactes tots els avisos que fan referència a aquesta llicència i a l'absència de garanties de cap mena; i liureu a qualsevol altre destinatari del programa una cpia d'aquesta llicència juntament amb el programa.

Podeu cobrar un preu per l'acte físic de trametre una cpia i podeu, si així ho voleu, oferir alguna garantia a canvi d'un preu.
Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els
fitxers, i hi heu d'escriure la data de la modificaci.</para>
</listitem>
</listitem>

<para>Heu d'atorgar gratutament a totes les terceres parts els termes d'aquesta mateixa llicència sobre la totalitat de
qualsevol obra que distribueu o publiqueu, que completament o en part contingui o sigui un derivat del programa o
qualsevol part del programa.</para>
</listitem>
</listitem>

<para>Si el programa modificat normalment illegeix instruccions interactivament quan s'executa, heu de fer que
quan s'arrenqui per a aquest s interactiu de la manera més habitual, imprimeixi o mostri un missatge que inclogui una
nota de copyright adient i un avís de que no hi ha garantia (o, si no, que digui que la garantia l'oferiu vs mateix) i que
els usuaris poden redistribuir el programa sota aquestes condicions, i que indiqui a l'usuari o usucari com veure una
copia d'aquesta llicència. <note>
<title>Excepci:</title>
<para>Si el programa s interactiu per normalment no porta cap indicaci com la que s'ha descrit, tampoc cal que les
obres que feu basades en el programa en portin cap. </para>
</note></para>
</listitem>

</listitem>
</orderedlist></para>

Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identificables que no estan
derivades del programa, i es poden considerar raonablement com a obres independents i separades en si mateixes,
aleshores aquesta llicència i els seus termes no s'apliquen a aquelles parts quan les distribueu com a obres separades.
Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en el programa, la
distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicència, i els permisos atorgats a altres beneficiaris
abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites. </para>

Aix donc, la intenci d'aquesta secció no s reclamar o disputar vos cap dret a codi que hagueu escrit del tot
vs mateix. La intenci s aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en el
programa.</para>

A ms a ms, la simple agregaci amb el programa (o amb una obra basada en el programa) d'altres obres no
basades en el programa en un volum d'un mitj d'emmagatzemament o de distribució no posa aquestes altres obres sota
l'òbit de la llicència.</para>
En un mitj utilitzat habitualment per a l'intercanvi de programari; o, </para>

</listitem>

</listitem>

</para>L'acompanyeu amb un oferiment per escrit, amb validesa com a mínim fins al cap de tres anys, de subministrar a tota tercera part, i per un preu no superior al que us costi físicament realitzar la distribució, el codi font complet corresponent, que es distribuir d'acord amb els termes de les seccions 1 i 2 anteriors en un mitj utilitzat habitualment per a l'intercanvi de programari; o, </para>

</listitem>

</listitem>

</para>L'acompanyeu amb la informació que hagué rebut de l'oferiment de distribuir el codi font corresponent (aquesta alternativa noms s permesa per a la distribució no comercial i noms si heu rebut el programa en forma executable o de codi objecte amb aquest oferiment, d'acord amb la subsecció anterior).</para>

</listitem>

</listitem>

</para>El codi font per a una obra vol dir la forma preferida de l'obra per a fer-hi modificacions. Per una obra executable, el codi font complet vol dir tot el codi font per a tots els mduls que cont, ms tots els fitxers de definició d'interfícies associats si s'escua, ms els scripts que es facin servir per a controlar la compilació i la instal·lació de l'executable si s'escua. Tanmateix, com a excepció especial, el codi font que es distribueixi no cal que inclogui res del que normalment es distribueixi (sia en forma binària o de codi font) amb els components principals (compilador, nucli o similars) del sistema operatiu en què s'executa el programa, tret que el component en qüestí acompanyi l'executable.</para>

</para>Si la distribució de l'executable consisteix a donar accés per a copiar-lo d'un lloc determinat, aleshores serveix com a distribució del codi font el fet de donar un accés equivalent per a copiar el codi font, encara que les terceres parts no estiguin obligades a copiar el codi font en copiar el codi objecte.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Secció 4</title>

</sect2>

<sect2 id="sect5" label="5">
<title>Secció 5</title>

</sect2>
Sec 6

Cada cop que distribuiu el programa (o qualsevol obra basada en el programa), el destinatari rep automàticament, de qui va emetre la llicència originàriament, una llicència per copiar, distribuir o modificar el programa sotmesa a aquests termes i condicions. No podeu imposar cap ms restriccions a l'exercici dels drets que aqu es confereixen. No sou responsable de fer complir aquesta llicència a terceres parts.</sec>

Sec 7

Si, a conseqüència d'una decisió judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s per ordre judicial, acord, o el que sigui) que contrarien les condicions d'aquesta llicència, no quedeu excusat de les condicions d'aquesta llicència. Si no us s possible distribuir de manera que satisfueu alhora les obligacions que us imposa aquesta llicència i qualsevol altra obligació pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permet redistributeixar gratuïtament el programa a aquells que hagin rebut cpies de vs directament o indirectament, aleshores la nica manera en qu podreu satisfar tant així com aquesta llicència seria abstenir-vos completament de distribuir el programa.

Si qualsevol fragment d'aquesta secció quedà invalidat o no es pogués fer complir en qualsevol circumstància particular, la intenció s que s'apliqui el balan de la secció, i que s'apliqui la secció en la seva totalitat en altres circumstàncies.

El propòsit d'aquesta secció no s induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'unic propòsit d'aquesta secció s protegir la integritat del sistema de distribució de programari lliure, que s'implementa amb pràctiques de llicència pública. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribuït per aquest sistema refeint-se de l'aplicació consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.

Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.

Sec 8

Si hi ha pasos que restringeixen la distribució o l's del programari, ja sigui per patents o per interfeccions sota copyright, el possessor del copyright original que posi el programa sota aquesta llicència pot afegir limitacions geogràfiques explícites que exclouin aquests pasos, de manera que la distribució noms quedà permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicència incorpora la limitació com si estigués escrita en el text de la llicència.
La Free Software Foundation pot publicar versions revisades o noves de la llicència pública general de tant en tant. Aquestes versions noves seran semblants en esperit a la versió present, per poden diferir en detalls per tractar noves preocupacions o problemes.

Cada versió rep un número de versió distintiu. Si el programa especifica un número de versió d'aquesta llicència que li s'aplicable i que també s'aplicable a "qualsevol versió posterior", teniu l'opció de seguir els termes i condicions de la versió especificada o b) els de qualsevol versió publicada posteriorment per la Free Software Foundation. Si el programa no especifica un número de versió d'aquesta llicència, podeu triar qualsevol versió que hagi publicat la Free Software Foundation en qualsevol data.

Si voleu incorporar parts del programa en altres programes lliures les condicions de distribució dels quals es diferents, escriviu a l'autor per demanar-li perms. Per al programari que est sota copyright de la Free Software Foundation, escriviu a la Free Software Foundation; de vegades fem excepcions per a permetre-ho. Prendrem la nostra decisió guiats pels dos objectius de mantenir la condició de lliure de tots els derivats del nostre programari lliure i de promoure la compartició i la reutilització del programari en general.

ATS QUE EL PROGRAMARI TUNA LLICÈNCIA GRATUÍTA, NO SE N'OFEREIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QUÈ S'AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCIADORS I/O LES ALTRES PARTS OFEREIXEN EN EL PROGRAMA "TAL COM S', SENSE CAP TIPUS DE GARANTIA, NI EXPLÍCITA NI IMPLÍCITA; AIXÍ INCLUÏ, SENSE LIMITAR-S'HI, LES GARANTIES IMPLÍCITES DE COMERCIALITZACIÓ I ADEQUACIÓ A UN S'CONCRET. TOT EL RISC PEL QUE FA A LA QUALITAT I RENDIMENT DEL PROGRAMA S'VOSTRE. EN CAS QUE EL PROGRAMA RESULTS DEFECTUOUS, VS ASSUMIU TOT EL COST D'ASSISTÈNCIA, REPARACIÓ O CORRECCIÓ.

EL POSSEDOR DEL COPYRIGHT, O QUALSEVOL ALTRE PART QUE PUGUI MODIFICAR O REDISTRIBUIR EL PROGRAMA TAL COM ES PERMET MS AMUNT NO US HAUR DE RESPONDRE EN CAP CAS, TRET DEL QUE REQUEREIXI LA LLEI APLICABLE O ELS ACORDS PER ESCRIT, PER PERJUDICIS, INCLUSOS ELS INCIDENTALS, DERIVATS, ESPECIALS O GENERALS QUE ES DERIVIN DE L'US O DE LA IMPOSSIBILITAT D'US DEL PROGRAMA (INCLUSOS, ENTRE D'ALTRES, LES PRÒDUES DE DADES, LES DADES QUE EL PROGRAMA HAGI MALMS, LES PRÒDUES QUE US HAGI PROVOCAT A VS O A TERCERS LA IMPOSSIBILITAT QUE EL PROGRAMA FUNCIONI AMB QUALSEVOL ALTRE PROGRAMA), FINS I TOT SI AQUEST POSSEDOR O ALTRE PART HA ESTAT ADVERTIDA DE LA POSSIBILITAT D'AQUESTS PERJUDICIS.
Splono javno dovoljenje GNU

Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike.
Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike. Dovoljenje GPL se nanaa na veino programske opreme ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. (Nekatera druga programska oprema ustanove Free Software Foundation je namesto tega pokrita s Splonim dovoljenjem GNU za knjinice, angl. GNU Library General Public License.) Uporabite jo lahko tudi za vae programe.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona Javna dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanje njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

Zaradi zavarovanja vaših pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v vao odgovornost, e razirjate kopije programske opreme ali jo spreminjate.

Na primer, e razirjate kopije takega programa, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate vi. Prepriati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. In morate jim pokazati te pogoje (opp. izvirnik), da bodo poznali svoje pravice.

Pravice uporabnika so varovane dveh korakih: s pravno zaito programske opreme in ponujenim dovoljenjem, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in spreminjanje programske opreme.

Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posredoval naprej, elimo, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja.

Konno, vsaki prosti programski opremi nenehno grozijo programski patenti. elimo se izogniti nevarnosti, da bi razirjevalci proste programske opreme posamino dobivali patentna dovoljenja in s tem naredili program lastniki (angl. proprietary). Za prepreitev tega jasno zahtevamo, da mora biti dovoljenje vsakega patenta tako, da ga lahko vsakdo prosto uporablja, ali pa sploh ne sme biti omejen s kakrninkoli dovoljenjem.

Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje.

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 6514
Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje

Razdelek 0

Dovoljenje se nanaa na vsak program ali drugo delo, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) z izjavo, da se program ali drugo delo lahko razirja pod pogoji Splonega Javnega Dovoljenja GNU (angl. General Public License). <quote>Program</quote> se v nadaljevanju nanaa na vsak tak program ali delo, in <quote>delo, ki temelji na tem programu</quote> pomeni bodisi program ali pa katerokoli izvedeno delo po zakonu avtorskih pravicah (angl. copyright law): se pravi delo, ki vsebuje program ali njegov del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vključen brez omejitev v pojem <quote>spremembe</quote>.) Vsak zavezanec k dovoljenju je opredeljen kot <quote>vi</quote>. Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in sprememb; ostale so izven njenega dosega. Dejanje zagona programa ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina sestavlja delo, iz katerega je izpeljan program (ne glede na to, da je bil narejen z zagnanim programom). Ali je to res ali ne, je odvisno od tega, kaj program dela.

Razdelek 1

Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakravnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.

Za fizino dejanje prenosa kopije lahko zaraunavate in po va brez garancijsko zaisto v zameno za plailo.

Razdelek 2

Dovoljeno je spreminjati va izvod ali izvode programa ali katerikoli njegov del, in tako narediti delo, ki temelji na programu, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega razdelka 1, e je zadoeno tudi vsem naslednjim pogojem:

Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena in datum vsake spremembe.

Zagotoviti je treba, da je vsako delo, ki ga razirjate ali izdajate in ki v celoti ali deloma vsebuje program ali katerikoli njegov del ali pa je iz njega izpeljano, objavljeno pod pogoji tega dovoljenja kot celota brez plaila katerikoli tretji osebi.

E spremenjeni program ob zagonu navadno bere ukaze interaktivno, je treba zagotoviti, da se ob najbolj obijanem zagonu za takno interaktivno uporabo izpie ali pokae najava, ki vkljuje ustrezen sporoto o pravicah.
razirjanja in sporoilo, da jamstvo ni zagotovljeno (ali pa sporoilo, da ponujate jamstvo) in da lahko uporabniki razirjajo program pod temi pogoji, in pove uporabniku, kako pogledati izvod tega dovoljenja. <note><title>Izjema:</title><para>e je sam program interaktiven, vendar navadno ne izpie takne najave, tudi za vae delo, ki temelji na programu, ni nujno, da jo.</para><note></note></para><listitem></listitem><orderedlist></orderedlist></para><sect2 id="sect3" label="3" title="Razdelek 3">

<para>Program (ali delo, ki temelji na njem, pod doloil razdelka 2) je dovoljeno razmnoevati in razirjati v objektni kodi ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in 2, e izpolnite tudi kaj od tega: <orderedlist numeration="loweralpha">
<listitem><para>opremite ga s popolno in ustrezno izvorno kodo v strojno berljivi obliki, ki mora biti razirjana pod pogoji zgornjih razdelkov 1 in 2, e izpolnjevate svoje obveznosti.</para></listitem>
<listitem><para>opremite ga z napisano ponudbo, veljavno vsaj tri leta, da boste katerikoli tretji osebi, za plailo, ki ne bo presegalo vseh strokov fizinega izvajanja izvorne distribucije, dali popoln izvod ustreznih izvornih koder v strojno berljivi obliki, ki bo razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, ki se navadno uporabljata za izmenjavo programske opreme; ali,</para></listitem>
<listitem>
<para>opremite ga s podatki, ki ste jih dobili vi, kot ponudbo distribucije ustreznih izvornih koder. (Ta alternativa je dovoljena le za nekomerčne distribucije in le, e ste dobili program v obliki izvorne kode ali izvedljivi obliki s takno ponudbo, glede na podrazdelek b, zgoraj.)</para></listitem>
</orderedlist></para>

<para>Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu
pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namestitev izvedljive datoteke. Vendar - kot posebna izjema - ni nujno, da razirjana izvorna koda vključuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tako naprej) operacijskega sistema, na katerem te izvedljiva datoteka, razen tega, ki se komponenta spremlja izvedljivo datoteko.</para>

Se razirjanje izvedljive datoteke ali objektne kode izvede s ponujenim dostopom za prepisovanje z za to namenjenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje izvorne kode z istega mesta teje kot razirjanje izvorne kode, eprav tretje osebe niso prisiljene razmnoevati izvorne kode poleg objektne kode.</para>

Ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali razirjati programa drugae, kot to izrecno doloa priuje dovoljenje. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajoce iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se j popolnoma podrejajo.</para>

Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam razen nje ni ne dovoljuje spreminjanja ali razirjanja programa ali iz njega izpeljanih del. e ne sprejmete tega dovoljenja, ta dejanja prepoveduje zakon. Torej, s spremembo ali razirjanjem programa (ali kateregakoli dela, ki temelji na programu), pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje programa ali del, ki temeljijo na njem.</para>

Vsaki, ko razirjate program (ali katerokoli delo, ki temelji na programu), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje ali spreminjanje programa glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem.</para>

Se so vam, kot posledica presoje sodia ali suma kritve patenta ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, e patentno dovoljenje ne dovoli razirjanja programa brez
plaevanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdržite razirjanja programa.</para>

<para>e se za katerikoli del tega razdelka ugotoviti, da je neveljaven ali da se ga ne da izvajati pod kateremkoli doloenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.</para>

<para>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema distribucije proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.</para>

<para>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice nadaljevanja dovoljenja.</para>

<sect2 id="sect8" label="8">
<title>Razdelek 8</title>

<para>e sta razirjanje in/ali uporaba programa omejena v doloenih dravah, bodisi zaradi patentov ali vmesnikov s posebno pravico razirjanja (angl. copyrighted interfaces), lahko izvorni lastnik ali lastnica pravic razirjanja, ki postavlja program pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuje omejitve, kot da so napisane v telesu tega dovoljenja.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Razdelek 9</title>

<para>Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Splonega Javnega dovoljenja (angl. General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.</para>

<para>Vsaki razliici je prirejena razlcovalna tevilka razlice. e program doloa tevilko razliice tega dovoljenja, ki se nanja nanj in <quote>na katerekoli pozneje razliice</quote>, imate izbiro upotevanja pogojev in doloil bodisi te razliice ali katerekoli pozneje razliice, ki jo je izdala ustanova Free Software Foundation. e program ne doloa tevilke razlice tega dovoljenja, lahko izberete katerokoli razlrico, ki jo je kdajkoli izdala ustanova Free Software Foundation.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Razdelek 10</title>

<para>e elite vkljuiti dele programa v druge proste programe, katerih pogoji razirjanja so drugani, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasi naredimo izjemo pri tem. Nao odloitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na
KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO PROGRAM TAK, KOT JE:</para> <sect2 id="sect11" label="11"> <title>BREZ JAMSTVA</title> <subtitle>Razdelek 11</subtitle>  
  
<KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO PROGRAM TAK, KOT JE</KER> <quote>BREZ ZAGOTOVILA KAKRNEKOLI VRSTE, NEPOSREDNEGA ALI POSREDNEGA, KAR VKLJUČUJE, A NI OMEJENO NA POSREDNA JAMSTVA CENOVNE VREDNOSTI IN PRIMERNOSTI ZA DOLOENO UPORABO. CELOTNO TVEGANJE GLEDE KAKOVOSTI IN DELOVANJA PROGRAMA PREVZAMETE SAMI. E SE PROGRAM IZKAE ZA OKVARJENEGA, SAMI NOSITE STROKE VSEH POTREBNIH STORITEV, POPRAVIL ALI POPRAVKOV.</quote> <sect2 id="sect12" label="12"> <title>Razdelek 12</title> 

V NOBENEM PRIMERU, RAZEN E TAKO PRAVI VELJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPIREMEMI IN/ALI PONOVNO RAZIRJA PROGRAM, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVORNOSTI ZARADI KODE, NAJSI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJO O IZ UPORABE ALI NEZMONOSTI UPORABEC PROGRAMA (VKLJUČUJE Z, A NI OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST PROGRAMA, DA BI DELOVAL S KAKIM DRUGIM PROGRAMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.</sect2>
A maiora das licenzas de software estn concibidas para privar o usuario da sa liberdade de compartir e modificar ese software. Pola contra, a licenza pblica xeral de GNU busca garantir a sa liberdade para compartir e modificar software libre, para se asegurar de que o software libre para todos os seus usuarios.
modificar software libre, para se asegurar de que o software libre para todos os seus usuarios. Esta licenza pública xeral de aplicación maiora do software da Free Software Foundation, as como a calquera outro programa cuxos autores se comprometan a utilizala (hai outro software da Free Software Foundation que se rexe, no seu lugar, pola licenza pública xeral reducida de GNU). Tamén pode aplicala aos seus propios programas.</para>

Cando se fala de software libre flase de liberdade, non de prezo. As nosas licenzas públicas xerais estén deseadas co obxectivo de asegurar a sa liberdade para distribuir copias de software libre (e cobrar por este servizo, se as o desexa), que recibe o cdigo fonte ou pode recibilo se as o desexa, que ten a posibilidade de modificar o software ou empregar partes del en novos programas libres e que, ademais, conscience de que pode facer todo isto.</para>

Para protexer os seus dereitos, cmpre introducir certas restricions que impidan que calquera outro lle poida negar estes dereitos ou pedirlle que renuncie a eles. Estas restricions implican determinadas responsabilidades para vostede, no caso de distribuir copias do software ou modificalo.</para>

Por exemplo, se distribe copias dun programa libre, sexa gratis ou non, tenlle que ceder aos receptores todos os dereitos que ten vostede. Terase que asegurar de que eses receptores tamén reciben ou poden recibir o cdigo fonte e ter que mostrarlles os termos desta licenza para informalos dos seus dereitos.</para>

Dous son os pasos para protexer os seus dereitos: <orderedlist numeration="arabic">
<li>pr o software baixo copyright e</li>
<li>ofrecerlle esta licenza, que o autoriza legalmente para copiar, distribuír e/ou modificar o software.</li>
</orderedlist></para>

Ademais, como medida de protección para todos os autores e para ns mesmos, importante deixarlles claro a todas as partes que non existe garantia para este software libre. No caso de que calquera usuario modifique o software e logo o distribúa a un terceiro, os receptores deben saber que o que se lle entrega non o software orixinal, de xeito que calquera problema introducido pola outra parte non afecte a reputación dos autores orixinais.</para>

Por último, calquera programa libre esté constantemente ameazado polas patentes de software. A nosa intención evitar o perigo de que os redistribuidores dun programa libre obteñan licenzas de patente pola sa conta, convertendo as o seu programa en software rexistrado. Para evitar que isto suceda, deixamos ben claro que calquera patente debe de garantir a cesión da licenza a calquera usuario posible, de maneira que todo o mundo poida usar o programa libremente ou, en caso contrario, non debe de garantir licenza nin ningunha a nin ningun.</para>

A seguir detallanse os termos e condicions exactos para a copia, distribución e modificación.
titular do copyright que especifique que se pode distribuir baixo os termos desta licenza públia xeral. De aquí en adiante, o termo <quote>Programa</quote> referirse a calquera programa ou produto deste tipo, mentres que o termo <quote>produto baseado no Programa</quote> referirse tanto ao programa coma a calquera produto derivado consonte a lei de propiedade intelectual, dicir, calquera produto que contea o programa ou unha parte del, sexa textual ou con modificacins e/ou traducida a outra lingua. (De aquí en adiante, a traducin inclese sen límite ningn no termo <quote>modificacin</quote>.) As licenzas estn redactadas na forma de cortesa <quote>vostede</quote>.</para>

Calquera actividade distinta da copia, distribucin e modificacin non est estuberta por esta licenza, sen que queda fra do seu mbito de aplicacin. Non se restrinxe a accin de executar o Programa, e os resultados tirados do Programa s estn cubertos se o seu contido constite un produto baseado no Programa (sen importar se foi realizado mediante a execucin do Programa). Que isto sexa certo ou non depender do que faga o Programa.</para>

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacins ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicins seguintes:</para>

Pode cobrar unha taxa polo acto fsico de transferir unha copia e, se vostede quixer, pode tamn ofrecer unha determinada garanta a cambio do pagamento dunha taxa.</para>

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacins ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicins seguintes: <orderedlist numeration="loweralpha">
    <listitem>
        <para>Debe facer que calquera produto distribuido ou publicado por vostede, que en todo ou en parte contea ou derive do Programa ou de calquera parte do Programa, obteu unha licenza no seu conxunto sen que isto repercuta en ningn gasto para calquera terceira parte de acordo cos termos desta licenza.</para>
    </listitem>
    <listitem>
        <para>Se o programa modificado adota ler comandos de forma interactiva ao executalo, debe facer que, cando se execute para tal uso interactivo na forma mis habitual, mostre ou exhiba un aviso no que se inclan as oportunas informacins relativas propiedade intelectual do programa e ausencia de toda garanta (ou, se for o caso, ao feito de que vostede quen proporciona a garanta), a indicacin de que os usuarios poden redistribuir o programa consonte estas condicins e a informacin necesaria para que o usuario saiba como acceder a unha copia desta licenza.</para>
    </listitem>
</orderedlist>

Se o Programa en si mesmo interactivo pero non adoita mostrar avisos deste tipo, non necesario que o seu
producto baseado no Programa exhiba ningn aviso.</para>
</note></para>
</listitem>
</orderedlist></para>

<para>Estes requisitos aplcanse ao producto modificado no seu conxunto. Se o producto contn seccins facilmente
identificables non derivadas do Programa, que razonablemente se poidan considerar como produtos separados e
independentes por si mesmos, esta licenza e mais os seus termos non sern aplicables s devanditas seccins cando se
distribuan como produtos separados. Pero se esas mesmas seccins se sebas como parte dun todo consistente nun
produto baseado no Programa, a distribucin do todo deber de se acoller aos termos desta licenza, cuxas dispositicns,
applicables a todos os demais titulares da licenza, abranguen o conxunto completo e, en consecuencia, todas e cada
unha das partes do conxunto independentemente de quen as escribise.</para>

<para>As, o obxectivo deste apartado non reclamar dereitos ou rebater os seus dereitos sobre calquera produto
escrito por vostede na sa totalidade; mis ben ao contrario, o seu obxectivo exercer o dereito de controlar a
distribucin de produtos derivados ou colectivos baseados no Programa.</para>

<para>Ademais, a simple agregacin ao Programa (ou a un produto baseado no Programa) doutro produto non
baseado no Programa nun volume dun medio de distribucin ou almacenamiento non implica a inclusin do outro
produto no mbito de aplicacin desta licenza.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Seccin 3</title>

<para>Pode copiar e distribur o Programa (ou un producto baseado nel, segundo os termos do <link
linkend="sect2">apartado 2</link>) en cdigo obxecto ou forma executable de acordo co establecido nos <link
linkend="sect1">apartados 1</link> e <link linkend="sect2">2</link> anteriores, sempre que cumpra tamn con un
dos seguintes requisitos: <orderedlist numeration="loweralpha">
<li>Accompanha do correspondente cdigo fonte completo nun formato lexible por mquina, que se ha de
distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio
de software.</li>
<li>Accompanha dunha oferta por escrito, cunha validez mnima de tres anos, na que se entregue a calquera
terceiro interesado, por un custo nunca inferior aos gastos nos que vostede poida incorrer pola execucin fsica da
distribucin do cdigo fonte, unha copia completa en formato lexible por mquina do cdigo fonte correspondente, que
se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o
intercambio de software.</li>
<li>Accompanha da informacin que recibiu vostede verbo da oferta de distribuir o cdigo fonte correspondente.
(Esta opcin s est permitida para a distribucin non-comercial, e unicamente no caso de que vostede recibise o
programa en cdigo obxecto ou forma executable cunha oferta como a que se acaba de explicar, de acordo co
subapartado b anterior.)</li>
</orderedlist></para>
</sect2>
Entndese por cdigo fonte dun traballo o seu formato mis idneo hora de realizar modificacions nel. No caso dun traballo executable, entndese por cdigo fonte completo todo o cdigo fonte para todos os mdulos que incle, ademais de todos os ficheiros de definicin de interfaces asociados e os scripts utilizados para controlar a compilacin e a instalacin do executable. Porn, como caso excepcional, o cdigo fonte distribuido non precisa incluir nada que se distribua normalmente (xa sexa de forma binaria ou fonte) cos compoentes principais (compilador, ncleo etc.) do sistema operativo en que se executa o executable, ags que ese propio compoente acompa o executable.

Se a distribucin do cdigo obxecto ou executable se realiza concedendo acceso de copia desde un lugar determinado, entn a concesin de acceso equivalente para copiar o cdigo fonte do mesmo lugar considrase como distribucin do cdigo fonte, anda que ningn terceiro estea obrigado a copiar o cdigo fonte xunto co obxecto.

Non lle est permitido copiar, modificar, emitir unha sublicenza nin distribuir o Programa ags nos termos especificamente estipulados nesta licenza. Calquera outro intento de copiar, modificar, emitir unha sublicenza ou distribuir o Programa ser considerado nulo, e implicar a cancelacin automtica dos dereitos que lle concede esta licenza. No entanto, as partes s que vostede concedera copias ou dereitos consonte os termos desta licenza non vern resoltas as sas respectivas licenzas, sempre que cumpran plenamente con todo o que nelas se estipula.

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Se, como consecuencia dun proceso xudicial ou dunha acusacin por violacin de patentes, ou por calquera
outra causa (sen restrinxirse aos temas de patentes), resultase a imposicin de calquera condicin sobre vostede (xa sexa por orde xudicial, por acordo ou por calquera outra causa) que contradiga as condicins desta licenza, iso non o escusa do cumprimento das condicins desta licenza. De non lle ser posible distribuir o Programa respectando as obrigas contradas baixo esta licenza e, asemade, calquera outra obriga pertinente, entn ter que deixar de distribuílo en ningn modo. Por exemplo, no caso de existir unha licenza de patente que non permitise a redistribucin do Programa exenta de dereitos de autor por parte de todos aqueles que recibisen copias de maneira directa ou indirecta de vostede, o nico xeito de cumprir cos termos da devandita licenza de patente e mais desta licenza ao mesmo tempo sera evitando por completo a distribucin do Programa.</para>

No caso de que calquera seccin deste apartado se considerase non vlida ou non executable baixo calquera circunstancia concreta ser de aplicacin o resto do apartado e, en calquera outras circunstancias, aplicarse o apartado no seu conxunto.</para>

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Este apartado pretende deixar ben claro o que considera que consecuencia do resto desta licenza.</para>

No caso de que nalgns pases se restrinxa a distribucin e/ou o uso do Programa pola execucin dalgunha patente ou interface protexida por copyright, o titular orixinal do copyright que somete o Programa aos termos desta licenza poder engadir unha limitacin explcita distribucin xeogrfica que exclua aqueles pases, de xeito que s se permita a distribucin nos ou entre os pases non suxeitos devandita exclusin. Se este for o caso, a licenza incorporara a limitacin citada nos mesmos termos que se fose redactada como parte do corpo desta licenza.</para>

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is *Less* protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a *work based on the library* and a *work that uses the library*. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
<sect1 id="terms" label="none">
<title>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</title>

<sect2 id="sect0" label="0">
<title>Section 0</title>
<para>This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called <quote>this License</quote>). Each licensee is addressed as <quote>you</quote>.</para>

<para>A <quote>library</quote> means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.</para>

<para>The <quote>Library</quote>, below, refers to any such software library or work which has been distributed under these terms. A <quote>work based on the Library</quote> means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term <quote>modification</quote>.)</para>

<para><quote>Source code</quote> for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.</para>

<para>Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.</para>

</sect2>
</sect1>
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

The modified work must itself be a software library.

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Section 5</title>

<para>
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a <quote>work that uses the Library</quote>. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

</para>

<para>
However, linking a <quote>work that uses the Library</quote> with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

</para>

<para>
When a <quote>work that uses the Library</quote> uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

</para>

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

</para>

<para>
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

Section 6

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Section 7</title>

<para>
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
</para>

<orderedlist numeration="loweralpha">
<li>
<para>
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
</para>
</li>
<li>
<para>
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
</para>
</li>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>Section 8</title>

<para>
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>

<para>You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

<para>Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

<para>If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

<para>

<para>
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

<para>

<para>
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

<para>

<para>
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

<para>
</sect2>

<sect2 id="sect12" label="12">
<title>Section 12</title>

<para>
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

<para>
</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

<para>
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and any later version, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
Les licences de la plupart des logiciels sont conçues pour vous laisser toute liberté de les partager et de les modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir la liberté de partager et modifier un logiciel libre, pour être sûr que le logiciel est bien libre pour tous les utilisateurs.

Quand nous parlons de logiciel libre, nous parlons de liberté, pas de prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ces services si vous le désirez), que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez, que vous pouvez modifier le logiciel et en utiliser toute ou partie dans de nouveaux programmes libres, et que vous êtes informés que vous pouvez faire tout ceci.
Cette licence, la Licence Générale Publique Limite (Lesser General Public License), s'applique certains paquets logiciels désignés spécifiquement typiquement des bibliothèques de la Free Software Foundation et d'autres auteurs qui décident de l'utiliser. Vous pouvez l'utiliser aussi, mais nous vous suggérons de considérer d'abord si la présente licence ou la Licence Générale Publique GNU (GNU General Public License) ordinaire est la meilleure stratégie utiliser dans chaque cas particulier, suivant les explications données ci-dessous.

Quand nous parlons de logiciel libre, nous parlons de la liberté de l'utiliser, pas de son prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez); que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez; que vous pouvez modifier le logiciel et en utilisez tout ou partie dans de nouveaux programmes libres; et que vous êtes informés que vous pouvez faire tout ceci.

Pour protéger vos droits, nous devons mettre des restrictions qui interdisent aux distributeurs de vous refuser ces droits ou de vous demander d'abandonner ces droits. Ces restrictions se traduisent par certaines responsabilités pour vous si vous distribuez des copies de la bibliothèque ou si vous la modifiez.

Par exemple, si vous distribuez des copies de la bibliothèque, que ce soit titre gratuit ou contre un paiement, vous devez donner aux concessionnaires tous les droits que nous vous avons concédés. Si vous liez d'autres codes avec la bibliothèque, vous devez fournir des fichiers objets complets aux concessionnaires, de sorte qu'ils puissent les lier nouveau avec la bibliothèque aprè s'avoir modifié et recompilé. Et vous devez leur montrer ces termes de sorte qu'ils puissent connaître leurs droits.

Nous protégeons vos droits par une méthode en deux tapes: (1) nous libellons la Bibliothèque avec une notice de propriété intellectuelle (copyright) et (2) nous vous offrons cette Licence, qui vous donne le droit de copier, distribuer ou modifier la bibliothèque.

Pour protéger chaque distributeur, nous voulons tablir de façon très claire qu'il n'y a aucune garantie pour la Bibliothèque libre. Aussi, si la Bibliothèque est modifiée par quelqu'un d'autre qui la redistribue ensuite, ses concessionnaires devraient savoir que ce qu'ils ont n'est pas la version originale, de sorte que la réputation de l'auteur original ne sera pas affectée cause de problèmes introduits par d'autres.

Enfin, les brevets logiciels constituent une menace constante contre l'existence même de tout logiciel libre. Nous voulons être sûr que qu'une société ne peut pas effectivement restreindre les utilisateurs d'un programme libre en obtenant une licence restrictive d'un titulaire de brevet. Par conséquent, nous insistons pour que toute licence de brevet obtenue pour une version de la Bibliothèque doit être cohérente avec sa pleine liberté d'utilisation spécifiée dans la présente Licence.

La plupart des logiciels GNU, y compris certaines bibliothèques, sont couverts par la Licence Générale Publique GNU (GNU General Public License). La présente licence s'applique certaines bibliothèques désignées et est assez différée de la Licence Générale Publique. Nous utilisons la présente licence pour certaines bibliothèques afin de permettre de lier ces bibliothèques, sous certaines conditions, des programmes non libres.

Quand un programme est lié avec une bibliothèque, que ce soit statiquement ou avec une bibliothèque partage, la combinaison des deux constitue, en termes légaux, un travail combiné, un driv de la bibliothèque originale. Il s'ensuit que la Licence Générale Publique ordinaire ne permet une telle liaison que si l'ensemble combinaison remplit ses critères et conditions de liberté. La Licence Générale Publique Limite permet de desserrer les critères permettant de lier d'autres codes avec la bibliothèque.
Nous appelons cette licence la Licence Générale Publique (Lesser General Public License) car elle offre en fait une protection plus limite de la liberté de l'utilisateur que celle offerte par la Licence Générale Publique ordinaire. Elle offre aux autres développeurs de logiciels libres un avantage plus limité face aux programmes concurrents non libres. Ces désavantages sont la raison pour laquelle nous utilisons la Licence Générale Publique ordinaire pour de nombreuses bibliothèques. Cependant la licence limite offre des avantages dans certaines circonstances spéciales.

Par exemple, en de rares occasions, il peut exister le besoin particulier d'encourager l'utilisation la plus large possible d'une certaine bibliothèque, afin qu'elle devienne un standard de fait. Pour arriver à cette fin, des programmes non libres doivent pouvoir être utilisés et la bibliothèque. Un cas plus fréquent est qu'une bibliothèque libre effectue les mêmes tâches que des bibliothèques non libres largement utilisées. Dans ce cas, il n'y a pas grand chose à gagner à limiter la bibliothèque libre aux seuls logiciels libres, aussi nous utilisons la Licence Générale Publique Limite.

Dans d'autres cas, l'autorisation d'utiliser une bibliothèque particulière dans des programmes non libres permet un plus grand nombre de personnes d'utiliser un corpus très large de logiciels libres. Par exemple, l'autorisation d'utiliser la bibliothèque C GNU dans des programmes non libres permet plus de personnes d'utiliser le système d'exploitation GNU tout entier, de même que sa variante, le système d'exploitation GNU/Linux.

Bien que la Licence Générale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec la bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.

Les termes et conditions précis concernant la copie, la distribution et la modification suivent. Prenez une attention particulière aux différences entre un travail bas sur la Bibliothèque et un travail utilisant la Bibliothèque. Le premier contient du code d'une bibliothèque, tandis que le second doit être combiné avec la bibliothèque afin de pouvoir être exécuté.
travail driv pouvant tre soumis aux lois de proprit intellectuelle: c'est--dire un travail contenant la Bibliothque ou une portion de celle-ci, soit en copie conforme, soit avec des modification ou traduit directement dans une autre langue. (Dans la suite ci-dessous, les traductions sont incluses sans limitation dans le terme modification.)

Le <quote>code source</quote> d'un travail signifie la forme prfr du travail permettant d'y effectuer des modifications. Pour une bibliothque, le code source complet signifie tout le code source de tous les modules qu'elle contient, plus tous les fichiers de dfinition d'interface associis, plus les scripts utilis pour contrler la compilation et l'installation de la bibliothque.

Les activits autres que la copie, la distribution et la modification ne sont pas couvertes par cette Licence; elles sont en dehors de son tendue. L'action d'executer un programme utilisant la Bibliothque n'est pas restreinte et les rsultats produits par un tel programme ne sont couverts que si leur contenu constitue un travail bas sur la Bibliothque (indpendamment de l'utilisation de la Bibliothque dans un outil utilis pour l'crire). Que ce soit ou non le cas dpend de ce que ralise la Bibliothque, et de ce que fait le programme utilisant la Bibliothque.

Vous pouvez copier et distribuer des copies conformes du code source complet de la Bibliothque que vous receivez, sur tout support, pourvu que vous publiez scrupuleusement et de faon approprie sur chaque copie la notice de rservation de droit (copyright) et un dni de garantie; gardez intactes toutes les notices qui se rfrent cette Licence et l'absence de toute garantie; et distribuez une copie de cette Licence en mme temps que la Bibliothque.

Vous pouvez modifier votre ou vos copie(s) de la Bibliothque ou toute portion de celle-ci et ainsi crer un travail bas sur la Bibliothque et copier ou distribuer de telles modifications suivant les termes de la <link linkend="sect1">Section 1</link> ci-dessus, pourvu que vous satisfassiez galemnt chacune de ces conditions:

Le travail modifi doit tre lui-mme une bibliothque logicielle.

Vous devez assurer que les fichiers modifi contiennent des notices videntes tablissant que vous avez chang les fichiers et la date de ces changements.

Vous devez assurer que l'ensemble du travail pourra tre licenci sans frais toute tierce partie suivant les termes de cette Licence.

Si une facilit dans le bibliothque modifie rfrence une fonction ou une table de donnes fournir par une application utilisant la facilit, autre qu'un argument pass quand la facilit est invoque, alors vous devez faire un effort
en toute bonne foi pour vous assurer que, dans l'éventualité où une application ne fournirait pas une telle fonction ou table, la facilité restera opérationnelle et effectuera une partie quelconque de sa finalité de façon sensée.</para>

<para>(Par exemple, une fonction dans une bibliothèque pour calculer des racines carrées a une finalité qui est totalement bien définie indépendamment de l'application. Par conséquent, la Sous-section 2d requiert que toute fonction fournie par l'application ou table utilisée par cette fonction doit être optionnelle si l'application n'en fournit pas: la fonction racine carrée doit encore pouvoir calculer des racines carrées.)</para>

<para>Ces obligations s'appliquent au travail modifié dans son entier. Si des sections identifiables de ce travail ne sont pas drives dans la Bibliothèque, et peuvent être raisonnablement considérés comme des travaux indépendants et spars par eux-mêmes, alors cette Licence et ses termes, ne s'appliquent pas ces sections, dès lors que vous les distribuez en tant que travaux spars. Mais quand vous distribuez les mêmes sections en tant que composants d'un ensemble constituant un travail bas sur la Bibliothèque, la distribution de l'ensemble doit se faire suivant les termes de cette Licence, dont les autorisations accordées d'autres obtenteurs de licences s'étendent la totalité de l'ensemble et donc pour chacun des composants indépendamment de qui les a créés.</para>

<para>Aussi, ce n'est pas l'intention de cette section de clamer des droits ou de contester vos droits sur des travaux créés entièrement par vous; l'intention est plutôt d'exercer le droit de contrôler la distribution des travaux directs ou collectifs bas sur la Bibliothèque.</para>

<para>De plus, la simple agglomération avec la Bibliothèque (ou avec un travail bas sur la Bibliothèque) d'un autre travail non bas sur la Bibliothèque sur un même volume de stockage ou un support de distribution n'amène pas cet autre travail dans le champ d'application de cette Licence.</para>

<para>Vous pouvez choisir d'appliquer les termes de la Licence Générale Publique GNU ordinaire au lieu de deux de cette Licence une copie donnée de cette Bibliothèque. Pour le faire, vous devez modifier les notices qui se réfèrent cette Licence, de sorte qu'ils se réfèrent plutôt la Licence Générale Publique GNU version 2, au lieu de cette Licence. (Si une version officielle plus récente que la version 2 de la Licence Générale Publique GNU ordinaire a été publiée, alors vous pouvez spécifier plutôt cette version si vous le souhaitez.) N'effectuez aucun autre changement ces notices.</para>

<para>Des que ce changement a été fait dans une copie donnée, il est irréversible pour cette copie et donc la Licence Générale Publique GNU ordinaire s'appliquera toutes les copies suivantes et tous travaux directs effectués partir de cette copie.</para>

<para>Cette option est utile quand vous souhaitez copier une partie du code de la Bibliothèque en un programme qui n'est pas une bibliothèque.</para>
Vous pouvez copier et distribuer la Bibliothèque (ou une portion ou un driv de celle-ci, suivant les termes de la Section 2) sous forme de code objet ou exécutable suivant les termes des Sections 1 et 2 ci-dessus, pourvu que vous l'accompagniez avec le code source correspondant sous forme lisible par une machine, qui doit être distribué suivant les termes des Sections 1 et 2 ci-dessus sur un support utilisant habituellement pour l'échange de logiciels.

Si la distribution du code objet se fait en offrant l'accès la copie depuis un emplacement désigné, alors une offre d'accès équivalente pour copier le code source depuis le même emplacement satisfait l'obligation de distribuer le code source, même si des parties tierces ne sont pas obligées de copier simultanément le source en même temps que le code objet.

Un programme qui ne contient aucun driv d'une quelconque portion de la Bibliothèque, mais est conçu pour travailler avec la Bibliothèque en tant compil ou li avec cette Bibliothèque, est appel un "travail utilisant la Bibliothèque". Un tel travail, pris isolément, n'est pas un travail driv de la Bibliothèque et tombe par conséquent hors du champ d'application de cette Licence.

Cependant, la liaison avec la Bibliothèque d'un "travail utilisant la Bibliothèque" crée un exécutable qui est un driv de la Bibliothèque (car il contient des portions de la Bibliothèque), plutôt qu'un "travail utilisant la Bibliothèque". L'exécutable est par conséquent couvert par cette Licence. La Section 6 tablira les termes de distribution de tels exécutables.

Quand un "travail utilisant la Bibliothèque" utilise des éléments d'un fichier d'entrée faisant partie de la Bibliothèque, le code objet de ce travail peut être un travail driv de la Bibliothèque même si son code source ne l'est pas. Cette définition prendra son sens tout particulièrement si le travail peut être lié sans la Bibliothèque ou si le travail est lui-même une bibliothèque. Les limitiations de ce cas ne sont pas définies de façon précise par la loi.

Si un tel fichier objet utilise uniquement des paramètres numériques, des schmas et accesseurs de structures de données et de petites macros et petites fonctions en ligne (dix lignes de source ou moins en longueur), alors l'utilisation du fichier objet est non restreinte, indépendamment du fait que cela constitue également un travail driv. (Les règles de la Section 6 s'appliqueront tout de même aux exécutables contenant ce code objet plus des portions de la Bibliothèque.)

Autrement, si le travail est un driv de la Bibliothèque, vous pouvez distribuer le code objet pour le travail suivant les termes de la Section 6. Les règles de la Section 6 s'appliquent alors tout exécutable contenant ce travail, que ce dernier soit ou ne soit pas lié directement avec la Bibliothèque elle-même.
Par exception aux Sections ci-dessus, vous pouvez aussi combiner ou lier un <quote>travail utilisant la Bibliothèque</quote> avec la Bibliothèque pour produire un travail contenant des portions de la Bibliothèque et distribuer ce travail suivant les termes de votre choix, pourvu que ces termes permettent la modification du travail pour les besoins propres du client et l'ingénierie inverse permettant le débogage de telles modifications.

Vous devez donner une notice explicite et vidente avec chaque copie du travail montrant que la Bibliothèque est utilisée dans celui-ci et que la Bibliothèque est couverte par cette Licence. Vous devez fournir une copie de cette Licence. Si le travail lors de son exécution affiche des notices de droits et propriétés intellectuelles, vous devez inclure la notice pour la Bibliothèque parmi celles-ci, ainsi qu'une référence adresse l'utilisateur vers une copie de cette Licence. Vous devez aussi effectuer l'une des tâches suivantes: <orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">Accompagner le travail avec le code source complet correspondant lisible par une machine pour la Bibliothèque incluant tout changement quelconque qui ont ts effectués dans le travail (qui doit tre distribué suivant les Sections <link linkend="sect1">1</link> et <link linkend="sect2">2</link> ci-dessus); et, si le travail est un exécutable lié avec la Bibliothèque, fournir la totalité du <quote>travail utilisant la Bibliothèque</quote> lisible par une machine, sous forme de code objet ou source, de sorte que l'utilisateur puisse modifier la Bibliothèque et la relier pour produire un exécutable modifié contenant la Bibliothèque modifiée. (Il est admis que l'utilisateur qui change le contenu de fichiers de définition dans la Bibliothèque ne sera pas nécessairement capable de recompiler l'application pour utiliser les définitions modifiées.)</para>
  </listitem>
  <listitem>
    <para id="sect6a">Utiliser un mécanisme approprié de bibliothèque partage pour lier avec la Bibliothèque. Un mécanisme approprié est celui qui (1) utilise l'exécution une copie de la Bibliothèque déjà présente sur le système de l'utilisateur, plutôt que de copier les fonctions de bibliothèque dans l'exécutable et (2) fonctionnera correctement avec une version modifiée de la Bibliothèque, si l'utilisateur en installe une, tant que la version modifiée est compatible au niveau de l'interface avec la version avec laquelle le travail a été réalisé.</para>
  </listitem>
  <listitem>
    <para id="sect6a">Accompagner le travail avec une offre écrite, valide pour au moins trois ans, de donner au même utilisateur les éléments spécifiques dans la <link linkend="sect6a">Sous-section 6a</link>, ci-dessus, contre un paiement n'excedant pas le coût requis pour effectuer cette distribution.</para>
  </listitem>
  <listitem>
    <para id="sect6a">Si la distribution du travail est faite en offrant l'accès une copie depuis un emplacement désigné, offrir un accès équivalent depuis le même emplacement pour copier les éléments spécifiques ci-dessus.</para>
  </listitem>
  <listitem>
    <para id="sect6a">Vrifier que l'utilisateur a déjà reçu une copie de ces éléments ou que vous en avez envoyé une copie à cet utilisateur.</para>
  </listitem>
</listitem>
</orderedlist></para>

Pour un exécutable, la forme requise du <quote>travail utilisant la Bibliothèque</quote> doit inclure toutes les données et programmes utiles nécessaires permettant de reproduire l'exécutable part de ceux-ci. Cependant, par exception, les matériels distribuer n'ont pas besoin d'inclure tout ce qui est normalement distribué (sous forme source ou binaire) avec les composants majeurs (compilateur, noyau et autres composants similaires) du système d'exploitation sur lequel l'exécutable fonctionne, moins que ce composant lui-même accompagne l'exécutable.
Il peut arriver que ces conditions ncessaires contredisent les restrictions de licence d'autres bibliothques proprietaires qui n'accompagnent pas normalement le systme d'exploitation. Une telle contradiction signifie que vous ne pouvez pas les utiliser en mme temps que la Bibliothque dans un excutable que vous distribuez.</npara>

<section id="sect7" label="7">
	<title>Section 7</title>


	<para>Vous pouvez placer les facilits de bibliothque qui sont un travail bas sur la Bibliothque cte cte dans une unique bibliothque avec d'autres facilités de bibliothque non couvertes par cette Licence et distribuer une telle bibliothque combine, pourvu que la distribution spare du travail bas sur la Bibliothque et des autres facilités de bibliothque soient autrement permises et pourvu que vous effectuiez chacune des deux tches suivantes:</npara>

<ol numeration="loweralpha">
	<li>
		<para>Accompagner la bibliothque combine avec une copie du mme travail bas sur la Bibliothque, non combine avec d'autres facilités de bibliothque. Cela doit tre distribu suivant les termes des Sections ci-dessus.</para>
	</li>
	<li>
		<para>Donner une notice vidente avec la bibliothque combine du fait qu'une partie de celle-ci est un travail bas sur la Bibliothque et expliquant o trouver la forme non combine accompagnante du mme travail.</para>
	</li>
</ol>

<section id="sect8" label="8">
	<title>Section 8</title>


	<para>Vous ne pouvez pas copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothque autrement que d'une faon drite expressennent par cette Licence. Autrement, toute tentative de copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothque est invalide et mettra fin automatiquement vos droits accords sous cette Licence. Toutefois, toute autre tierce partie qui a reu des copies ou des droits, par vous suivant les termes de cette Licence n'aura pas sa licence termine, aussi longtemps que cette partie tierce continue de s'y conformer pleinement.</npara>

</section>

<section id="sect9" label="9">
	<title>Section 9</title>


	<para>Vous n'es pas oblig d'accepter cette Licence, puisque vous ne l'avez pas sign. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer la Bibliothque ou ses travaux drvs. Ces actions sont lgalement prohibes si vous n'acceptez pas cette Licence. Par consquent, en modifiant ou distribuant la Bibliothque (ou tout travail bas sur la Bibliothque), vous indiquez votre acceptation de cette Licence pour le faire, ainsi que tous ses termes et conditions pour la copie, la distribution ou la modification de la Bibliothque ou des travaux bass sur elle.</npara>

</section>
Section 10

Chaque fois que vous redistribuez la Bibliothèque (ou tout travail basé sur la Bibliothèque), le destinataire reçoit automatiquement une licence par l'auteur d'origine de la licence, permettant de copier, distribuer, lier ou modifier la Bibliothèque en accord avec les présents termes et conditions. Vous ne pouvez pas imposer davantage de restrictions sur l'exercice par le concessionnaire de cette licence des droits accordés dans la présente licence. Vous êtes dégagé de la responsabilité de contrôler la conformité d'usage de cette Licence par des parties tierces.

Section 11

Si, par suite d'une décision judiciaire ou d'une allégation d'infraction d'un brevet ou pour toute autre raison (non limitée aux problèmes de brevets), des conditions vous sont imposées (que ce soit par une ordonnance de justice, une transaction amiable ou contractuelle ou toute autre raison) qui contredisent les conditions de cette Licence, elles ne vous échappent pas des obligations de cette Licence. Si vous ne pouvez pas effectuer une distribution de façon satisfaisante simultanément vos obligations sous cette Licence et toute autre obligation pertinente, alors vous ne pouvez en aucun cas distribuer la Bibliothèque. Par exemple, si une licence de brevet ne permettait pas une redistribution de la Bibliothèque sans paiement de royalties par tous ceux qui en reçoivent des copies directement ou indirectement travers vous, alors la seule façon pour vous de satisfaire la fois les conditions imposées et cette Licence sera de vous abstenir complètement de toute distribution de la Bibliothèque.

Si toute portion de cette section est jugée invalide ou inapplicable de plein droit dans une quelconque circonstance particulière, le maximum possible de cette section est supposé s'appliquer et la section dans son tout est supposé toujours applicable dans toutes les autres circonstances.

Le but de cette section n'est pas de vous obliger d'enfreindre un quelconque brevet ou d'autres prétentions des droits de propriétaire ou de contester la validité de telles prétentions; cette section a pour seul but de protéger l'intégrité du système de distribution des logiciels libres tel qu'il fonctionne au moyen de pratiques de licences publiques. De nombreuses personnes ont fait des contributions généreuses à la gamme très tendue de logiciels distribués via ce système, en comptant sur l'application rigoureuse et cohérente de ce système; il appartient seulement à l'auteur ou au donateur de décider si il ou elle désire distribuer un logiciel via un autre système et le concessionnaire de licence ne peut pas imposer ce choix.

Cette section a pour but d'établir de façon claire ce que l'on croit être une conséquence nécessaire du reste de cette Licence.

Section 12

Si la distribution ou l'usage de la Bibliothèque est restreinte dans certains pays, que ce soit par des brevets ou des interfaces soumises au droit de propriétaire intellectuelle, le titulaire original de ce droit de propriété qui place la Bibliothèque sous la couverture de cette Licence peut ajouter une limitation géographique explicite de distribution excluant ces pays, afin que la distribution soit permise seulement dans ou parmi les pays non exclus. Dans un tel cas, cette Licence incorpore la limitation comme si elle tait rputée crite dans le corps de cette Licence.
La Free Software Foundation peut publier des versions revisées ou nouvelles de la Licence Générale Publique Limite de temps en temps. De telles nouvelles versions resteront similaires à l'esprit de la présente version, mais peuvent différer dans son détail afin de traiter de nouveaux problèmes ou préoccupations.

Chaque version reçoit un numéro de version distinctif. Si la Bibliothèque spécifie un numéro de version de cette Licence qui s'applique à celle-ci et "toute autre version future", vous avez l'option de suivre les termes et conditions de cette version ou de toute version ultérieure publiées par la Free Software Foundation. Si la Bibliothèque ne spécifie pas un numéro de version de licence, vous pouvez choisir n'importe quelle version publie par la Free Software Foundation.

Si vous souhaitez incorporer des parties de la Bibliothèque dans tout autre programme libre dont les conditions de distribution sont incompatibles avec ces termes, créez l'auteur ou demandez son autorisation. Pour les logiciels dont les droits de propriété sont détenus par la Free Software Foundation, créez la Free Software Foundation; nous faisons parfois des exceptions pour celui-ci. Notre décision sera guidée par les deux finalités de préserv er le statut libre de tous les drivés de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.

Puisque cette Bibliothèque fait l'objet d'une licence qui vous est accordée sans frais, il n'y a aucune garantie pour la Bibliothèque, dans les limites autorisées par la loi applicable. Moins que cela ne soit tabli différemment par écrit, les titulaires de droits de propriété ou les autres parties fournissent la Bibliothèque "tel quelle" sans garantie d'une sorte, qu'elle soit explicite ou implicite, cette incluant, mais sans limitation, les garanties implicites de marchandabilité et d'adéquation un objectif particulier, vous assumez seul le risque tout entier concernant la qualité et la performance de la Bibliothèque. Dans l'éventualité où la Bibliothèque s'avérerait déf ectueuse, vous assumerez vous-même le coût de tous les services, réparations ou corrections nécessaires.
TENU POUR RESPONSABLE ENVERS VOUS POUR LES DOMMAGES, INCLUANT TOUS DOMMAGE GNRL, SPCL, ACCIDENTL OU INDUIT SURVENANT PAR SUITE DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LA BIBLIOTHEQUE (CECI INCLUANT MAIS SANS LIMITATION LA PERTE DE DONNES OU L'INEXACTITUDE DES DONNES RETOURNES OU LES PERTES SUBIES PAR VOUS OU DES PARTIES TIERCES OU L'INCAPACIT DE LA BIBLIOTHEQUE FONCTIONNER AVEC TOUT AUTRE LOGICIEL), MME SI UN TEL TITULAI FONCTIONNER AVEC TOUT AUTRE LOGICIEL), MME SI UN TEL TITULAI OU TOUTE AUTRE PARTIE A T AVIS DE LA POSSIBILIT DE TELS DOMMAGES.&lt;/para&gt;

&lt;/sect2&gt;
&lt;/sect1&gt;
&lt;/article&gt;

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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**Release Information**

2. bertsioa, 1991ko ekaina

**Abstract**


**Article Info**

**Preamble**


**Section**


We protect your rights with two steps:
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

---

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Softwarea kopiatzeko, banatzeko eta aldatzeko zehatzak dituzu jarraian: </para>
<sect2 id="sect1" label="1">
    <title>1. atala</title>
    <para>Programaren iturburu-kodea bezala literalki kopiatu eta banatu dezakezu, edozein euskarritan, baldin eta behar bezala eta ikusteko moduan jartzen badiozu kopia bakoitzari egile-eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezari dagokion ohar guztiak oso-osorik mantentzen badituzu; eta Programaren hartzaila guzti Lizentziaren kopia ematen badiezu Programarekin batera.</para>
    <para>Kuota kobra dezakezu kopia ematearen ekintza fisikoagatik, eta zure esku dago garantia-babesa ematea kuota baten truke.</para>
</sect2>

<sect2 id="sect2" label="2">
    <title>2. atala</title>
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    <orderedlist numeration="loweralpha">
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            <para>You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.</para>
        </listitem>
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        </listitem>
        <listitem>
            <para>If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.</para>
        </listitem>
    </orderedlist>
    <note><title>Exception:</title><para>If the Program itself is interactive but does not normally print such an
announcements, your work based on the Program is not required to print an announcement.
</para>
</note>

</para>
</listitem>
</orderedlist>
</para>

</para>

Aldatua izan den lanari bere osotasunean hartuta aplikatuko zaizkio betebehar horiekin. Lan horren atal identifikagarriak ez badira Progarmatik eratorritakoak, eta ondorioz lan independente eta bereizitza har baldin badaitezke, Lizentzia hau eta baldintzak ez zaizkie atal horiei aplikatuko lan independente gisa banatzerakoan. Baina atal horiek Programan oinarritutako lan oso baten zati bezala banatzen badituzu, lan oso horren banaketa Lizentzia honen baldintzak betez egin behar da, eta lizentzia honek beste lizentziadun batzuentzat dituen baimenen osorik hartzen dute, eta, beraz, zati bakoitzak eta zati guztiak, nork idatzia diren kontuan hartu gabe.</para>

Honela, beraz, atal honen xedea ez da zuk osoki idatzitako lanaren eskubideak eskatu edo exijitzea, baizik eta Programan oinarritutako lan eratorrien edo talde-lanen banaketa kontrolatzeko eskubidea baliatzea.

Horrez gainera, Programari (edo programan oinarritutako lan bati) Programan oinarritu gabeko beste lan bat gehitzen bazaio biltegi-bolumen batean edo banaketarako euskarrirako batean, gehitze hutsarengatik beste lan hori ez da sartuko Lizentzia honen esparruan.

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
</para>
</listitem>
</listitem>

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
</para>
</listitem>
</orderedlist>
</para>


Exekutagarri edo objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide baliokidea eskaintzea iturburu-kodearen banaketa gisa hartzen da, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburu kopiatzera.</para>

Lizentzia honen baitan espresuki adierazitakoa bete gabe debekatuta dago Programa kopiatu, aldatu, azpilizentziatu edo banatzea. Beste era batean Programa kopiatu, aldatu, azpilizentziatu edo banatzeko saio oro deuseza izango da, eta Lizentzia honen baitan dauzkazun eskubideak automatikoki kenduko zaizkizun. Dena den, Lizentzia honen pean zuregandik kopiak edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen badituzte.</para>

6. atala


7. atala


Lizentzia honetako zatiren bat baliogabea edo bete ezina bada egoera bereziren batean, atalaren gainerrako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.


Atal honek argi eta garbi utzi nahi du zer den Lizentziaren gainerrako zatiren ondoriozat jotzen dena.

8. atala

Zenbait herrialdean Programaren banaketa edo/eta erabileria mugatzak baldin badute patenteen edo copyright-dun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kanpoan uzteko, era horretan baztertu gabeko herrialdeetan edo herrialdearen artean soilk egin dadin banaketa. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzean idatzita egongo balitz bezala.

9. atala

Free Software Foundation-ek noizean behin Lizentzia Publiko Orokorren bertsio berrikusiak edo berriak
argitara ditzake. Bertso berie horiek egunagoaren antzekoak izango dira espirituz, baina, arazo edo kezka berriei aurre egin beharko dietenez, litekeena da zehatz-mehatz bat ez etortzea.</para>


</sect2>

 sect2 id="sect10" label="10">
<title>10. atala</title>
<p>Banaketa-baldintza desberdinak dituzten beste programa libre batzuetan sartu nahi baditu Programaren zatiak, idatz izeaizuzu egileari baimena eskatzeko. Free Software Foundation-en esku baldin badaude jabetza intelektualeko eskubideak, idatz ezaatu Free Software Foundation-era, batzuetan salbuespenak egiten baititugu halakoetan. Gure erabakia bi helburu hauen araberakoak izango da: gure software libretik erorturitako lan guztiak egoera libreia mantentzea eta oro har softwarea partekatua eta berrerabilia izan dadin sustatzea.</p>

</sect2>

 sect2 id="sect11" label="11">
<title>BERMERIK EZA</title>
<title>BERMERIK EZA</title>
</sect2>

 sect2 id="sect12" label="12">
<title>12. atala</title>
<p>LEGE APLIKAGARRIARIK OSTATUKE EZ DIRU, PROGRAMAK EZ DU BERMERIK, LEGE APLIKAGARRIARIK ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTENETE ETA/EDO BESTE ALDERDI BATZUEK PROGRAMA "DAGOEN- DAGOENEAN" EMATEN DUTE INOLAKO BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDU XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA. PROGRAMAREN KALITATEARI ETA ERRENDIMENDUARI DAGO KIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. PROGRAMAK AKATS IKAN SORBUKO YAURRIKOZkoa ETA ZUZENTZEKO BEHARREZKO ZERBITZU GUZTITEN KOSTUA ZURE GAIN HARTU BEHARKO ZENUKE.</p>

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\[\text{releaseinfo} 2, 1991\text{/releaseinfo}\]

\[\text{abstract role="description"/><\para>
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\[\text{/para}\text{/abstract}\]

\[\text{articleinfo}\]

\[\text{sect1 id="preamble" label="none">}
\[\text{title>Preamble</title>\]

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  <listitem>
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  <listitem>
    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
      If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.
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</sect2>

<sect2 id="sect4" label="4">
<title> 4</title>

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<title> 5</title>

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<sect2 id="sect10" label="10">
<title>Paragraph 10</title>


</sect2>

<sect2 id="sect11" label="11">
<title>Keine Gewährleistung</title>

<subtitle>Paragraph 11</subtitle>

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<title>Paragraph 12</title>

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Nekateri primeri primernih oblik zapisa za jasne izvode so: ASCII ali ISO 8859-2 brez oblikovanja, vhodna oblika za Texinfo, vhodna oblika za LaTeX, SGML ali XML, ki uporablja javno dostopen DTD, in preprosta standardna oblika HTML, namenjena temu, da jo spremeni lovek. Nejasne oblike vključujejo PostScript, PDF, lastnike oblike, ki jih lahko beremo in urejamo le z lastnimi urejevalniki besedil, SGML ali XML, za katerega DTD in/ali orodja za obdelavo niso splono dostopna, in strojno ustvarjen HTML, ki ga nekateri urejevalniki besedil izdelujejo le kot izhodno obliko zapisa.

Naslovna stran (v originalu Title Page) pri natisnjeni knjigi pomeni smo naslovno stran skupaj s taknimi nadaljnjimi stranmi, ki so neizogibne za itljivo izrajenje stvari, za katere to dovoljenje zahteva, da se pojavljajo na naslovni strani. Za dela v oblikah, ki nimajo naslovne strani kot take, pomeni besedilo blizu najvidnejše pojavitve naslova dela, pred zaetkom telesa besedila.
besedila na zadnji strani platnic. Na obeh platnicah mora biti tudi itljivo in razumljivo zavedeno imenovanje izdajatelja teh izvodov. Prednja platnica mora vsebovati popoln naslov z vsemi enako izrazito natisnjenimi in vidnimi besedami naslova. Na platnice je ob tem dovoljeno dodati tudi druge stvari. Kopiranje s spremembami, omejenimi na platnice, e le ohranijo naslov tega <link linkend="fdl-document">documenta</link> in zadoajo tem pogojem, se lahko v drugih ozirih tejejo za dobesedno kopiranje./para>

<para>e je zahtevanih besedil za katero od platnic preve, da bi jih bilo mogoce podati itljivo, je treba najprej vstaviti prve natete (kolikor jih pa razumno gre) na pravo platnico, in vstaviti preostanek na strani, ki neposredno sledijo naslovnici./para>

<para>e objavljate ali razirjate <link linkend="fdl-transparent">Nejasne izvode</link> tega <link linkend="fdl-document">Dokumenta</link>, v zakladni ve kot 100 izvodov, je treba bodisi vkljuiti strojno berljivo <link linkend="fdl-transparent">Jasno obliko</link> poleg vsakega Nejasnega izvoda, ali poleg vsakega Nejasnega izvoda objaviti tudi javno dostopeno mesto v ravnalnikom omreju, kjer je dostopna popolna Jasna kopija dokumenta, brez dodatnega materiala, in kjer jo sploja javnost, ki uporablja omreje, lahko brezplano prejme preko javnih standardnih omreznih protokolov. e uporabite zadnjo izbro, je treba razumno predrazurno poskrbeti za to, da bo po objavi Nejasne oblike dela, Jasna oblika ostala dostopna na objavljenem mestu vsaj eno leto po preteku datuma, ko je javnosti posredovan (neposredno ali prek zastopnikov oziroma trgovcev na drobno) zadnji Nejasni izvod./para>

<a name="fdl-section4" id="fdl-section4" label="4"/>

<title>Spremembe</title>

<para>Sprememjeno razliico tega <link linkend="fdl-document">Dokumenta</link> je dovoljeno razmnoevati in razirjati pod pogoji iz <link linkend="fdl-section2">2.</link> in <link linkend="fdl-section3">3.</link> razdelka, v kolikor bo izdana <link linkend="fdl-modified">Spremenjena razliica</link> pod teto tem dovoljenjem, kjer Spremenjena razliica prevzame vlogo tega dokumenta, in torej to dovoljenje ureja raziranje in spreminjanje Spremenjene razliice za kogarkoli, ki posede njen izvod. Poleg tega je treba v Spremenjeni razliici narediti e naslednje:/para>

(itemizedlist mark="upper-alpha">
<li listitem>
<para>Na <link linkend="fdl-title-page">naslovni strani</link> (ali platnicah, e obstajajo) uporabite naslov, razljen od naslova izvirnega <link linkend="fdl-document">Dokumenta</link> in vseh prejnjih razliic (ki bi morale biti, e jih je kaj, natete v razdelku Zgodovina v dokumentu). e se izviri zalonik s tem strinja, lahko uporabite isti naslov kot ga ima prejnj razliica./para>

</listitem>

</itemizedlist>

<para>Na <link linkend="fdl-title-page">naslovni strani</link> kot avtorje nateti eno ali ve sobe ali drub, odgovornih za avtorstvo sprememb v <link linkend="fdl-modified">Spremenjeni razliici</link>, skupaj z vsaj petimi glavnimi avtorji <link linkend="fdl-document">Dokumenta</link> (ali vsemi avtorji, e jih je manj kot pet)./para>

</listitem>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 6606
<listitem><para>Na naslovni strani imenovati zalonič</para></listitem>

<listitem><para>Ohraniti vsa obvestila o pravicah razirjanja. Dodajte ustrezno obvestilo o pravicah razirjanja za vse spremembe poleg drugih obvestil o pravicah razirjanja. </para></listitem>

<listitem><para>Tako obvestilih o pravicah razirjanja vključiti obvestilo dovoljenja, ki javno dovoljuje rabo Spremenjene različice pod pogoji tega dovoljenja, v obliki, prikazani v Dodatku, spodaj.</para></listitem>

<listitem><para>V tem obvestilu dovoljenja ohranite popoln seznam Nespremenljivih razdelkov in zahtevanih Besedil na ovitku podanih v obvestilu dovoljenja tega Dokumenta. Vključite nespremenjen izvod tega dovoljenja. Na naslovni strani</para>

<listitem><para>Ohranite razdelek, imenovan Zgodovina, in njegov naslov, in vanj dodajte postavko z vsaj naslovom, letom, novimi avtorji in izdajateljem kot je podana na Naslovni strani. V dokumentu ni razdelka, imenovanega Zgodovina, ga ustvarite, in podajte naslov, leto, avtorje in izdajatelja kot je podan na njegovi Naslovni strani, potem pa dodajte postavko, v kateri opiite Spremenjeno razliico, kot je v prejnjem stavku.</para></listitem>

<listitem><para>V kolikor obstaja, je priporočeno ohraniti omrežno mesto, na javni dostop do Jasnih izvodov Dokumenta, ki je navedeno v dokumentu, in podobno tudi vsa omrežna mesta s prejšnji različico dokumenta, ki so navedena v dokumentu. Priporoljivo jih je dodati v razdelek Zgodovine. Mogoe pa je omrežna mesta tudi izpustiti za delo, ki je bilo izdano vsaj tiri leta pred samim dokumentom, ali, e izdajatelj, omenjen v ustrezni različici, to dovoli.</para></listitem>
V vsakem razdelku, poimenovanem "Zahvale" ali "Posvetila", je treba ohraniti naslov razdelka in v razdelku ohraniti vse izvorno vsebino za vse tam podane zahvale in/ali posvetila.

Ohraniti je treba vse Nespremenljive razdelke Dokumenta, z nespremenjenim besedilom in naslovi. Tevilke ali druge oznake razdelkov ne tejejo za del naslovov razdelkov.

Izbrisati je treba vse razdelke, naslovljene "Odobritve". Takni razdelki ne smejo biti vključeni v Spremenjene razliici.

Njihovo preimenovanje kateregakoli obstoječega razdelka v "Odobritve" ali v isto ime, kot ga ima Nespremenljivi razdelek, ni dovoljeno.

V primeru, da Spremenjena razliica vključuje nove elne razdelke ali dodatke, ki tejejo za Drugotne razdelke, se storiti tako, da se dodajo njihovi naslovi v seznam Nespremenljivih razdelkov v obvestilu dovoljenja Spremenjene razliice. Ti naslovi se morajo razlikovati od vseh drugih naslovov razdelkov.

Dodate lahko razdelek, imenovan "Odobritve", e ne vsebuje ni drugega kot odobritve vseh Spremenjenih različnih razlinih strank na primer, recenzijske izjave ali besedilo, ki je bilo dobroreno s strani organizacije kot veljavna definicija standarda.

Kot Besedilo na naslovnici, Besedilo na zadnji strani je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed, kot je dovoljeno dodati odlomek največ petih besed.

Avtorji in izdajatelji s tem dovoljenjem ne dovolijo uporabe njihovih imen ali pritrditve ali implicitnega soglasja za katerokoli Spremenjeno razliico.

sect1 id="fdl-section5" label="5"
<para>Zdrujeno delo zahteva le en izvod tega dovoljenja, in ve istih <link linkend="fdl-invariant">Nespremenljivih razdelkov</link> se lahko nadomesti z enim samim. e obstaja ve Nespremenljivih razdelkov z istim imenom, vendar razlino vsebino, je treba naslov vsakega od njih spremeniti v edinstvenega, tako da na njegov konec v oklepajih dodate ime izvirnega avtorja ali izdajatelja, e vam je znano, sicer pa edinstveno tevilo. Iste spremembe je treba narediti v imenih razdelkov v seznamu Nespremenljivih razdelkov v izjavi dovoljenja vaega zdruenega dela.</para>

<title>Zbirka dokumentov</title>

<para>Dovoljeno je napraviti zbirko tega <link linkend="fdl-document">Dokumenta</link> in drugih dokumentov, izdanih pod pogoji tega dovoljenja, in nadomestiti posamezne izvode tega dovoljenja v razlinih dokumentih z enim samim izvodom, ki je vkljujen v zbirko, upotrebijo zahteve tega dovoljenja za dobesedno razmnoevanje vsakega od teh dokumentov v vseh drugih pogledih. </para>

<title>Zdruevanje z neodvisnimi deli</title>

<para>Zdrujeno <link linkend="fdl-document">Dokumenta</link> ali njegovih izpeljanih razliic z drugimi loenimi in neodvisnimi dokumenti ali deli, v knjigi ali kakrnemkoli nosilcu hrambe ali razirjanja, kot celota ne teje za <link linkend="fdl-modified">Spremenjeno razliico</link> dokumenta, e za zdrueno zbirko nihe ne zahteva pravic razirjanja. Takno zdrueno delo se imenuje <quote>zbirka</quote> in to dovoljenje ne velja za druga samostojna dela, tako zdruena z dokumentom, zaradi tega, ker so zdruena z dokumentom, e niso sama izpeljana dela dokumenta. V kolikor so zahteve <link linkend="fdl-cover-texts">besedila na ovitku</link> skladne z <link linkend="fdl-section3">oddelkom 3</link> tega dokumenta, potem je dovoljeno, v kolikor je dokument del, ki je manji od etrtine celotne zbirke, besedilo na naslovnici postaviti na platnici, ki sta neposredno povezani le z dokumentom v zbirki. Sicer mora biti besedilo izpisano v naslovnicah celotne zbirke.</para>

<title>Prevod</title>

<para>Prevod teje za vrsto spremembe, zato lahko razirjate prevode <link linkend="fdl-
Dokumenta pod pogoji ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali ga razirjati, razen e je to izrecno dovoljeno s tem dovoljenjem. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajo iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma podrejajo. 

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V primeru, da ni, je treba v dokumentu
zapisati, da je ta <quote>brez Nespremenljivih razdelkov</quote>, namesto, da so posami opredeljeni. Podobno je treba storiti tudi, e ni <link linkend="fdl-cover-texts">Besedila na ovitku</link>.

<para>V kolikor dokument vsebuje netrivialne primere programske kode, vam priporoamo, da te primere izdate vzporedno pod dovoljenjem proste programske opreme, kot je Šplobo dovoljenje GNU (angl. GNU General Public License), po vaem izboru, da dovolite rabo te kode v prostih programih.</para>
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ODREDBE I USLOVI ZA UMNOAVANJE, RASPODELU I MENJANJE

Odeljak 0

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sainjava delo zasnovano na Programu (nezavisno od toga da li je nastao pokretanjem Programa). Da li e ovo biti 
tako zavisi od toga ta Program radi.</para>

Moete da umnoavate i raspodeljivate verbatim (cd) primerke izvornog kda programa odmah im ga
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used for software interchange; or,
</para>
</listitem>
</listitem>
</para>
Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
</para>
</listitem>
</orderedlist>
</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Odeljak 4</title>

<Ako se raspodela izvrnog ili objekttnog kda vri nuenjem pristupa za umnoavanje sa odreenog mesta, onda se nuenje istovetnog pristupa umnoavanju izvornog kda sa istog mesta rauna kao raspodela izvornog kda, ak i ako se od tere strane ne zahteva da umnoava izvorni kda zajedno sa objekttnim kdom.\protect<para>
</sect2>

<sect2 id="sect5" label="5">
<title>Odeljak 5</title>

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</sect2>

<sect2 id="sect6" label="6">
<title>Odeljak 6</title>

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</sect2>
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Odeljak 7

Ako su vam, kao posledica sudskog krenja patenta ili zbog bilo kog drugog razloga (ne ograničavajući se na pitanja patenata), namenut sustav ili sustave (bilo sudskim nalogom, dogovorom ili drugačije) koji su suprotni uslovima ove licence, isti vas ne izuzimaju iz uslova ove licence. Ako ne moete da raspodeljujete i da istovremeno zadovoljite vaše obaveze pod ovom licencom i pod bilo kojom drugom znažnom obavezom, onda je posledica svega toga da ne moete program da raspodeljujete uopće. Na primer, ako licence patenta ne dozvoljava besplatnu raspodelu Programa od strane svih onih koji direktno ili indirektno prime preko vas, onda jedini način da zadovoljite taj uslov i ovu licencu jeste taj da se u potpunosti odreknete raspodele Programa.

Ako se bilo koji deo ovog odeljka smatra nevažnim ili neprimenljivim pod bilo kojom odrednom okolnostom, primenjuje se ostatak odeljka a odeljak u celini se primenjuje u ostalim okolnostima.

Nije svrha ovog odeljka da vas navede da prekrite bilo koja potraživanja patenta ili drugih prava na svojinu niti da ospori punovanost takvih potraživanja; jedina svrha ovog odeljka je da zatiti celovitost sistema raspodele slobodnog softvera, koja se sprovodi primenom javnih licence. Mnogi ljudi su dali veliku doprinose iako su se slično naročito oslanjali na doselovu primenu tog sistema; na autoru/donatoru je da odluči da li je on ili ona spreman/spremna da raspodeljuje softver nekim drugim sistemom a licence ne može da nametne taj izbor.

Ovaj odeljak je namijenjen da detaljno razjasni ono to se veruje da je posledica ostatka ove licence.

Odeljak 8

Ako je raspodela i/ili korjenje Programa ograničeno u određenim zemljama, bilo patentima ili autorskim pravima, prvobitni nosilac autorskog prava koji stavi Program pod ovu licencu može da dodaje ograničenja raspodele slobodnog softvera. Ako je raspodela ograničena na određene zemlje, onda je raspodela ograničena na atestat u kojem se navede što je ograničenje. Ako je raspodela ograničena za bilo koji drugi razlog, onda je raspodela ograničena za to u tom slučaju.

Odeljak 9

Zadužbina slobodnog softvera može s vremena na vreme da objavi prerađena i/ili nova izdanja Opte javne licence. Takve prerađe u ovom slučaju su odlučene na osnovu potrebe za jačanjem i/ili prerađenjem licence. Takve prerađe u ovom slučaju su odlučene na osnovu potrebe za jačanjem i/ili prerađenjem licence. Takve prerađe u ovom slučaju su odlučene na osnovu potrebe za jačanjem i/ili prerađenjem licence. Takve prerađe u ovom slučaju su odlučene na osnovu potrebe za jačanjem i/ili prerađenjem licence.
novijeg izdanja koje objavi Zadubina slobodnog softvera. Ako program ne određuje broj izdanja te Licence, moete da izaberete bilo koje izdanje koje je do sada objavila Zadubina slobodnog softvera.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Odeljak 10</title>

</sect2>

<para>Ako elite da pripojite delove Programa drugim slobodnim programima iji su uslovi raspodele drugaicij, piite auor cu i od njega zatraite odobrenje. Za softver za koji autorska prava zadrava Zadubina slobodnog softvera, piite Zadubini slobodnog softvera; za ovo mi ponekad napravimo izuzetke. Naa odluka e biti motivisana u cilju ouvanja slobodnog statusa svih proisteklih radova naeg slobodnog softvera i u cilju promovisanja deljenja i ponovne upotrebe softvera uopte.</para>

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<title>NEDOSTATAK GARANCIJE</title>

</sect2>

<para>ZATO TO JE PROGRAM LICENCIJAN BEZ OBAVEZA, NE POSTOJI GARANCIJA ZA PROGRAM, DO GRANICE DOPUTENE MERODAVNI ZAKONOM. OSIM AKO NIJE DRUGAICE I/ILI NOSIoci AUTORSKIh PRAVA I/ILI DRUGA LICA OBZBEJU PROGRAM KAKAV JESTE BEZ GARANCIJE BILO KAKVE VRSTE, BILO IZRAENE ILI PRIMENJENE, UKLIUUJUI, ALI NE OGRANIAVAJUI SE NA, PRIMENJENE GARANCIJE TRINE VREDNOSTI I PRILAGOENOSTI ODRENEO NAMENI. CELOKUPAN RIZIK NA KVALITET I PERFORMANSE PROGRAMA JE VA. AKO PROGRAM POKAE NEDOSTATKE, VI PREUZIMATE TROKOVE SVIH POTREBNIH SERVISIRANJA, POPRAVKI ILI PREPRAVLJANJA.</para>

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<title>Odeljak 12</title>

</sect2>

<para>NI U KOM SLUAJU, IZUZEV AKO TO NE ZAHTEVA MERODAVNI ZAKON ILI PISMENI DOGOVOR, NEE NOSILAC AUTORSKIh PRAVA, ILI BILO KOJE DRUGO LICE KOJE MOE DA IZMENI I/ILI RASPODELI PROGRAM KAO TO JE TO DOPUTENO LICENCOM, BITI ODGOVORAN VAMA ZA TETE, UKLIUUJUI SVE OPTE, POSEBNE, SLUAJNE ILI POSLEDINE TETE NASTALE USLED KORIENJA ILI NEMOGUNOSTI KORIENJA PROGRAMA (UKLIUUJUI ALI NE OGRANIAVAJUI SE NA GUBITAK PODATAKA ILI POGERAN PRIKAZ PODATAKA ILI GUBITKE KOJE STE IZAZVALI VI ILI TREA LICA, ILI NA NEUSPEH PROGRAMA ZA RAD SA BILO KOJIM DRUGIM PROGRAMIMA), AKI AKO SU TAJ NOSILAC ILI DRUGA LICA BILA OBAVETENA O MOGUNOSTI TAKVIH TETE.</para>

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</sect1>

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<abstract role="description">Lizentzia honen xedea da eskuliburu bat, testuliburu bat edo bestelako edozein dokumentu idatzi <quote>libre</quote> egitea askatasunaren zentzuan: edonori ziurtatzea kopiatzeko eta birbanatzeko benetako askatasuna, aldatuta zein aldatu gabe, eta komertzialki zein ez-komertzialki. Bestalde, Lizentziaren bidez autoreei eta argitaratzaillei euren lana aitortzen zaie, eta ez dira beste batzuk egindako aldaketen erantzule.</abstract>

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<title>AITZINSOLASA</title>
<para>Lizentzia honen xedea da eskuliburu bat, testuliburu bat edo bestelako edozen dokumentu idatzi "libre" egitea askatasunaren zentzuan: edonori ziurtatzea kopiatzeko eta birbanatzeko benetako askatasuna, aldatuta sein aldatu gabe, eta komertzialki sein ez-komertzialki. Bestalde, Lizentziaren bidez autoreei eta argitaratzaileei euren lana aitzortzen zaie, eta ez dira beste batzuk egindako aldatuten erantzule.</para>
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<title>APLIKAGARRITASUNA ETA DEFINIZIOAK</title>
<para>Eskuliburu edo bestelako lan bati Lizentzia honen baldintzen pean bana daitekeela adierazten duen oharra jarri baldin badio egile-eskubideen jabeak, eskuliburu edo lan horri lizentzia hau aplikatuko zaio. Hemendik aurrera Dokumentua aipatzen denean, horrelako eskuliburu edo lanei egiten die erreferentzia. Publikoko edonor da lizentziaren hartzai, eta "zu"ren bidez adierazten da.</para>
<para>Dokumentuaren "Bertsio aldatua" esaten denean, Dokumentu hau osorik edo zati batean biltzen duen edozen lan adierazten da, edo, kopia literala, aldaketak dituena edo beste hizkuntza batera itzulitakoa.</para>
<para>Atal sekundarioa</para>
<para>Atal aldaezinak</para>
<link linkend="fld-secondary">Dokumentua</link> Lizentzia honen baldintzen pean argitaratzen dela esaten duen oharrean zehazten dira Atal aldaezinen izenburrak.</para>
<para>Azaleko testuak</para>
<link linkend="fld-document">Dokumentua</link> testu zati laburra dira eta Aurreko azaleko testu edo Azteko azaleko testu gisa aipatzen dira "link linkend="fld-document">Dokumentua</link> Lizentzia honen pean argitaratzen dela dioen oharrean. </para>
<para>Akina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorra erabiltzeko moduko formatuduna, zuzenean testu-editore arruntekin ikusi eta edita daitekeena, edo, pixeleitan osatutako irudia bada, pintatzeko editore
orokorrekin editatzeko modukoak edo, marrazkia bada, marrazki-editore oso erabilgarriekin editatzeko modukoak; horrez gain, testu-formateatzaileetan sargai edo input gisa erabil daitekeena, edo testu-formateatzaileak sargai gisa onartzen duten formatuetako batera automatikoki izul daitekeena. Beste era bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldatak egiteko eragozpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiarri <quote>opako</quote> ez deitzen zaio.</para>

Kopia Gardenak egiteko erabil daitezkeen formatu egokien artean, honako hauek ditugu, besteak beste: markaketa tarik gabeko ASCII soila, Texinfo sarrera-formatua, LaTex sarrera-formatua, SGML edo XML jendeak erabiltzeko moduko DTDarekin, eta pertsonnek aldatu ahal izateko diseinatutako HTML simple eta estandarrarekiko egokitu. Formatu opakoen artean, berriz, honako hauek ditugu: PostScript, PDF, testu-prozesadore jabe edunak solik irakurri eta edita ditzaketen testu-formatu jabe edunak, SGML edo XML bereziak (DTD eta/edo prozesatzeko-s tensa erabilgarriko esas associated duenak), eta zenbait testu-prozesadorek irteerako emaitza gisa solik makina bidez sortutako HTMLak.</para>

Titulu-orriak esan nahi duena zera da: inprimatutako liburu bati dagokionez, titulu-orria bera eta Lizentzia honen titulu-orrian agertzera behartzen duen materiala modu irakurgarian biltzeko behar diren orriak. Berez titulu-orriak ez duten formatuetan egindako lanetan, <quote>Titulu-orriak</quote> esan nahi duena da, testuaren gorputza hasi aurretik, gehien nabarmenduta agertzeta den lanaren tituluaren ondoan agertzten den testua.</sect1>

KOPIA LITERALAK


Azaletara jarri beharreko testuak luzetzeak badira modu irakurgarian ipintzeko, zerrendako lehenak jarri
behar dituzu azalean bertan (sartzen diren guztiak), eta hurrengo orrietan jarraitu besteekin.</para>

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<title>ALDAKETAK</title>
<para><link linkend="fdl-document">Dokumentu</link>aren <link linkend="fdl-modified">Bertsio aldatua</link> kopiatu eta banatu dezakezu baldin eta hemen goiko <link linkend="fdl-section2">2</link> eta <link linkend="fdl-section3">3</link> ataletako baldintzak betetzen baditu zu, kontuan izanik betiere Bertsio aldatua Lizentzia honen pean banatu behar duzula, Bertsio aldatua izanik Dokumentuaren funtzioa beteko duena, eta, beraz, Bertsio aldatua banatzeko edo aldatzeko baimena eman behar diozuala kopia bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertsio Aldatuan:</para>

<ul>
<li><para><link linkend="fdl-title-page">Titulu-orri</link>an (eta azaletan, azalik badu) <link linkend="fdl-document">Dokumentu</link>arena eta aurreko bertsioena ez den beste edozein titulu bat erabili behar duzu (aurreko bertsiorik badago, Dokumentuaren Historiaren atalean zerrendatuta egongo da). Aurreko bertso horietako baten titulu bera erabil dezakezu, baldin eta jatorrizko argitaratzaileak horretarako baimena ematen badu.</para></li>
<li><para><link linkend="fdl-title-page">Titulu-orri</link>an <link linkend="fdl-modified">Bertsio aldatu</link>an aldaketak egin dituen pertsona edo erakunde edo gehiagoren izena jarri behar duzu, eta, horrekin batera, <link linkend="fdl-document">Dokumentu</link>aren bost egile nagusien izena gutxienez (eta bost baino gutxiago badira, guztiena).</para></li>
<li><para>aren bost egile nagusien izena gutxienez (eta bost baino gutxiago badira, guztiena).</para></li>
<li><para>Bertsio aldatu</para></li>
</ul>
<para>Dokumentuaren copyright-ohar guztiak gorde behar dituzu.</para>

Zure aldaketei dagokien copyright-oharra gehitu behar duzu beste copyright-oharraren ondoan.

Copyright-oharren jarraian, lizentzia-ohar bat ipini behar duzu, jendeari baimena emateko. Lizentzia-ohar horretan <link>Dokumentuaren lizentzia-oharrean</link> adierazitako <link>Jarri beharreko</link> Lizentzia horren baldintzen pean, beheko Eranskinean azaltzen den bezala.

Lizentzia-ohar horretan <link>Dokumentuaren lizentzia-oharrean</link> adierazitako <link>Atal aldaezin</link> eta jarri beharreko <link>Azaleko testu</link> guztien zerrenda gorde behar duzu.

Lizentzia honen kopia ere, aldaketarik gabe jarri behar duzu.

Historia izeneko atala gorde behar duzu, baita bere titulu ere, eta gutxienez <link>Bertsio aldatua</link> botatuz Lizentzia horren baldintzen pean, beheko Eranskinean azaltzen den bezala. Historia izeneko atalak ez badago <link>Dokumentuaren lizentzia-oharrean</link> adierazitako Dokumentuaren Titulu-orrian agertzen den bezala, eta, gainera, Bertsio aldatuak deskribatzeko beste elementu bat gehitu beharko duzu aurreko esaldian azaldutako moduan.

Dokumentuaren kopia <link>Gardena publikoki atzitzeko</link> Dokumentuaren sare-helbidearen (helbiderik ematen bada) gorde behar duzu, eta, era berean, Dokumentuaren oinarri izan diren aurreko bertsioentzat ematen diren sare-helbideak ere bai. Helbide horiek <link>Historia</link> atalean sar daitezke. Sare-helbideak ez dira nahitaez jarri behar, Dokumentu bera baino gutxienez lau urte lehenago argitaratutako lanari dagozkionak baldin badira, edo horretarako baimena ematen badu bertsoien jatorrizko argitaratzaleak.

Eskertza edo Eskaintza izeneko ataleak edo edo <quote>Eskaintza</quote> izeneko edozein ataletan, ataleko titula gorde behar da, eta ataleko eskertza edota eskaintza bakoitzean egileak darabilen gai eta tonua errespetatu behar dira.
Este documento utiliza el lenguaje libre para la red Director de red para la instalación de máquinas virtuales 4.7.1. 6635

- Respetue el documento <link linkend="fdl-document">[Dokumentu]</link> en su totalidad, incluyendo el título y subtítulos. Los números de cualquier otra documentación no son válidos para el título del documento.
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<b>BERTSIO ADATEUAK</b>

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Si se desea eliminar <quote>Oniritziak</quote> del título de un documento, se debe seguir el orden de que sea la versión modificada del documento.

Konbinazioan, jatorrizko dokumentuetan <quote>Historia</quote> tituluaren denerak konbinatu behar dituzten, eta <quote>Historia</quote> tituluaren denerak bakar bat osatu. Era berean, <quote>Eskertzak</quote> eta <quote>Eskaintzak</quote> tituluaren denerak ataleak titulurik hasi dezakete, ataleak bakoitzen tituluaren zerrenda desberdina. Izen berarentzako edukia gertatzen dute bezukoa zehaztasun handiagoa izateko, autorearen edo argitaratzailearen izena jarriz, parentesi bat egiteko. Lizentziaren zaharrena.</para>

Bilduma horretatik dokumentu bat atera eta banaka banatu deazkezu Lizentzia honen pean, baldin eta ateratako dokumentuaren Tituluaren denerak konbinatu behar ditzu, eta kopia literalea Lizentziaren beste alderdi guztiak betetzen badituz. Lizentziaren kopia bizkerretatik.</para>

Itzulpena aldaketatze bat jotzen da, eta, beraz, <link linkend="fdl-document">Dokumentuaren</link> tituluaren deneraren taldeko izen edukia egiten du, baina <link linkend="fdl-invariant">Atal aldaezin</link>aren itzulpena, edo bizkaian, dokumentuaren itzulpearen tituluaren deneraren taldeko izen edukia egiten du. Lizentzia

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honen itzulpena ere jar dezakezu, baldin eta ingelesezko jatorrizko bertsioa ere jartzen baduzu. Lizentzia honen itzulpena eta jatorrizko ingelesezko bertsioa bat ez badatoz, jatorrizko bertsioak balioko du.</para>
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<title id="fdl-section9" label="9" linkend="none">
AMAIERA
</title>

<para>Lizentzia honen baitan espresuki adierazitakoa betetzen ez bada, debekatuta dago <link linkend="fdl-document">Dokumentua</link> kopiatzea, aldatzea, azpilizentziatzea edo banatzea. Dokumentua beste edozein eratan kopiatu, aldatu, azpilizentziatu edo banatzeko saio oro deusea izango da, eta Lizentzia honek ematen dizkizun eskubideak automatikoki kenduko zaizkizuz. Dena den, Lizentzia honen pean zuregandik kopiarik edo eskubideak jaso ditzutenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituzten bitartean.</para>
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<title id="fdl-section10" label="10" linkend="none">
LIZENTZIA HONEN ETORKIZUNEKO BERRIKUSPENAK
</title>


<para>Lizentziaren bertsio bakoitzak bertsio-zenbaki desberdindua dauka. <link linkend="fdl-document">Dokumentu</link>an zehazten bada Lizentzia honen bertsio-zenbaki jakin bat <quote>edo bertsio berriago bat</quote> dagokiola, zehaztutako bertsioko baldintzak edo Free Software Foundation-ek argitaratutako (ez zirriborro gisako) bertsio berriago bateko baldintzak betetzeko aukera izango duzu. Dokumentuak ez badu Lizentzia honen bertsio-zenbakirik zehazten, Free Software Foundation-ek argitaratutako bertsioetako edozein aukeratu dezakezu (baina ez zirriborro gisa argitaratutakoa).</para>
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<title id="fdl-using" label="none" linkend="none">
Eranskina
</title>

<para>Zuk idatzitako dokumentu batean Lizentzia hau erabilitzeko, jar ezazu Lizentziaren kopia bat dokumentuaren, eta titulu-orriaren jarraian, berriz, copyrighta eta lizentzia-ohar hauek:</para>

<blockquote>
<para>Copyright URTEA ZURE IZENA.</para>
</blockquote>

<para>Baimena ematen da dokumentu hau kopiatu, banatu eta/edo aldatzeko Free Software Foundation-ek argitaratutako GNU Dokumentazio Librearen Lizentziaren 1.1. bertsioan edo berriago batean ezarritako baldintzak betetzen badira; <link linkend="fdl-invariant">Atal Aldaezin</link> hauekin: ZERRENDATU TITULUAK, <link linkend="fdl-cover-texts">eko testu hauekin: IDATZI ZERRENDA</link>, eta <link linkend="fdl-cover-texts">Atalean</link> (<quote>ZERRENDATU TITULUAK</quote>). Lizentziaren kopia bat aurkituko dugu.</para>
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Using GNU (Free Software Foundation), GNU.

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<sect2 id="sect4" label="4">
  <title>4</title>
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modificações.</para>

<para>Uma vez feita a mudança em determinada cópia, isto irreversível para esta cópia, ento a Licença Pública Geral
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<para>Esta opção é útil quando voc deseja copiar parte do código da Biblioteca para um programa que não uma
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por máquina, que deve ser distribuído sob os termos das Sees Seo 1 e Seo 2 acima num meio costumeiramente usado para transação de software.</para>

<para>Se a distribuição do código feita oferecendo acesso a cópia de um local específico, ento oferecer acesso
equivalente cpia do cdigo-fonte do mesmo local satisfaz a requerimento de distribuir o cdigo fonte, mesmo se terceiros no tiverem interesse de copiar a fonte junto ao cdigo em questo.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Um programa que contm nenhum derivado de qualquer poro da Biblioteca, mas desenvolvido para trabalhar com a Biblioteca por ser compilado com ela ou ser relacionado a ela, chamado <quote>trabalho que usa a Biblioteca</quote>. Tal trabalho, em isolamento, no um trabalho derivado da Biblioteca, e desta forma, fica fora da competncia desta Licena.</para>

<para>No entanto, relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca cria um executvel que derivado da Biblioteca (porque ela contem pores da Biblioteca), mais do que um <quote>um trabalho que usa a biblioteca</quote>. O executvel desta forma coberto por esta Licena. <link linkend="sect6">Seo 6</link>diz os termos para a distribuio de tais executveis.</para>

<para>Quando um <quote>trabalho que usa a Biblioteca</quote> usa material de um arquivo pai que parte da Biblioteca, o cdigo em questo para o trabalho pode ser um trabalho derivado da Biblioteca mesmo que o cdigo fonte no seja. Se isso verdade especialmente significante se o trabalho pode ser relacionado sem a Biblioteca, ou se o trabalho por si s uma biblioteca. O principio para isso ser verdade no precisamente definido por lei.</para>

<para>Se tal arquivo objeto usa somente parmetros numricos, o layout da estrutura de dados e acessrios, e pequenas macros e pequenas funes internas (dez linhas ou menos de tamanho), ento o uso do objeto irrestrito, independente de ser um trabalho derivado legalmente. (Executveis contendo este cdigo objeto e pores da Biblioteca ainda ficam sob a <link linkend="sect6">Seo 6</link>.)</para>

<para>De outra forma, se o trabalho for derivado da Biblioteca, voc pode distribuir o cdigo objeto para o trabalho sob os termos da <link linkend="sect6">Seo 6</link>. Quaisquer executveis contendo este trabalho tambm ficam sob a <link linkend="sect6">Seo 6</link> estando, ou no, relacionados diretamente a Biblioteca.</para>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Como uma exceo as Sees acima, voc pode tambm combinar ou relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca para produzir um trabalho contendo pores da Biblioteca, e distribuir este trabalho sob os termos de sua escolha, dado que os termos permitam modificao do trabalho para o uso do prprio cliente e engenharia reversa para depurao destas modificaes.</para>

<para>Voc deve dar aviso proeminente com cada cpia do trabalho que esta Biblioteca usada nela e que a Biblioteca e seu uso so cobertos por esta Licena. Voc deve fornecer uma cpia desta Licena. Se o trabalho, durante esta execuo exibe avisos de direitos autorais, voc deve incluir o aviso de direito autoral para a Biblioteca entre eles, assim como uma referncia direcionando o usurio a cpia desta Licena. Tambm, voc deve fazer umas destas coisas: <link listitem="loweralpha">Acompanhe o trabalho com o correspondente cdigo-fonte em formato lido por mquina para a
Biblioteca, incluindo quaisquer mudanas que foram usadas no trabalho(qual deve ser distribuido sob as Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima); e, se o trabalho um executvel relacionado com a Biblioteca, com o <quote>trabalho que usa a Biblioteca</quote> completo em formato lido por maquina, como cdigo objeto e/ou cdigo-fonte, para que o usurio possa modificar a Biblioteca e ento relacionar novamente para produzir um executvel modificado contendo a Biblioteca modificada.( entendido que o usurio que modifica os contidos de arquivos de definio na Biblioteca no ser necessariamente hbeis a recompilar a aplicao para usar as definies modificadas.)</para>

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Acompanhe o trabalho com uma oferta escrita, vlida por pelo menos trs anos, de dar ao mesmo usurio os materiais especificados na <link linkend="sect6a">Subseo 6a</link> ,acima, por um valor no maior que o custo de efetuar esta distribuiio.</para>

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Verifique se o usurio j recebeu uma cpia desses materiais ou que voc j enviou uma cpia a este usurio.</para>

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permitida, e dado que você faça estas duas coisas:</para>

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    <para>Acompanhar a biblioteca combinada com uma cópia do mesmo trabalho baseado numa Biblioteca, no combinado com quaisquer outras instalações de biblioteca. Isto deve ser distribuído sob os termos de licença das Sees acima.</para>
  </listitem>
  <listitem>
    <para>De informação proeminente com a biblioteca combinada do fato que parte dele um trabalho baseado na Biblioteca, e explicando onde achar o formato no combinado do mesmo trabalho, que acompanha.</para>
  </listitem>
</orderedlist>

<sect2 id="sect8" label="8">
<title>Seo 8</title>

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<sect2 id="sect9" label="9">
<title>Seo 9</title>

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<sect2 id="sect10" label="10">
<title>Seo 10</title>

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<sect2 id="sect11" label="11">
<title>Seo 11</title>

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</sect2>

<sect2 id="sect12" label="12">
<title>Seção 12</title>

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</sect2>

<sect2 id="sect13" label="13">
<title>Seção 13</title>

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</sect2>

<sect2 id="sect14" label="14">
<title>Seção 14</title>


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<sect2 id="sect15" label="15">
<title>SEM GARANTIA</title>
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<sect2 id="sect16" label="16">
<title>Seo 16</title>

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sect1

<title>terms</title>

sect2

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  <para>, <quote> ( ), <quote>. , <link linkend="sect6">6</link>.</quote></para>

  <para><quote> , ,</quote>,</para>

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Hn na, bo v tc gi v chnh chng ti, chng ti mun chcchn 1 mi nghi rang phn mm t do ny khng c bo hnh. Nu phn mm b sa i bi nghi khc v c phn phl tip, chng ti mun nghi nhm bit rng ci m h c khng phi l bn gc, v vy, bt k li no do
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ngi khe gy ra s khng lm mang ting n te gc.</para>

Cui cng, chng trnh t do no cng lun b de da bi bng sng ch phn mm. Chng ti mun trnh nguy c vic nhng ngi pht hnh li chng trnh t do s ginh bng sng ch ring, s hu chng trnh . ngn nga iu ny, chng ti lm r rng bng sng ch phi cp cho mi ngi s dng t do, hoc khng cp cho bt k ai ht.</para>

Sau y l nhng iu kin v iu khon chnh xe i vi vic sao chp, ph ht hnh v sa i.</para>

IU KIN SAO CHP, PHT HNH V SA I

Phn 0

Giy php ny p dng cho bt k chng trnh no hay sn phm no kho c thng bo c chn vo bi ngi gi tc quyn ni rng n c th c ph hnh theo cc iu khon ca GPL ny. Cm t Chng trnh di y c nga ha l bt k chng trnh my tnh hay sn phm nh vy, v sn phm da trn Chng trnh c nga ha l Chng trnh hay bt k sn phm no bt ngun t n di lut bn quyn: tc l, sn phm cha Chng trnh hay mt phn ca n, hoc ng nguy vn hoc vi s sa i v hoc c dch sang mt ngi ng khe. (K t cu ny, vic dch ngi ph cng gm v hn trong thut ng s sa i.) Ngi c cp Giy php c gi l bn .

Nhung hot ng khoi s sao chp, ph ht hnh v sa i kho c kim sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Chng trnh kho ng b hn ch, v d liu xut t Chng trnh ch b kho ng ch nu ni dung ca n to thnh mt sn phm da vo Chng trnh (khng ph thuc vo vic vn hnh Chng trnh). iu ng hay kho ng ph thuc vo iu m Chng trnh to ra.

Phn 1

Bn c quyn sao chp v ph hnh bn sao ng nguy vn va ca m ngun ca Chng trnh nh bn nhn n, bng bt k cch no, min l bn cng b r rng v thch ng trn mi bn sao mt thng bo tc quyn thch hp v min tr bo hnh; gi nguy vn mi thng bo lin quan Giy php ny v min tr bo hnh; v a cho nhng ngi nhn Chng trnh khc mt bn sao ca Giy php cng vi Chng trnh.

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  must be distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,
- Accompany it with a written offer, valid for at least three years, to give any
  third party, for a charge no more than your cost of physically performing source
  distribution, a complete machine-readable copy of the corresponding source code,
  to be distributed under the terms of Sections 1 and 2 above on a medium customarily
  used for software interchange; or,
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  corresponding source code. (This alternative is allowed only for noncommercial
  distribution and only if you received the program in object code or executable form
  with such an offer, in accord with Subsection b above.)

Mangun ca sn phm c nga la dng the sn phm c a thch khi sa i n. i vi sn phm l tp tin chy c, ton b m ngun c
nga la tt c cc m ngun mo mi m-un cha, cng vi bt c tp tin xc nh giao din tng ng, cng vi cc tp lnh c dng iu khin tin
trnh bin dch v ci t tp tin chy c. Tuy nhin, ngoi l c bit l m ngun c phth hnh khng cn phi bao gm nhng g c phth hnh bnh
thng (trong dng the hoc ngun hoc nh phn) vi cc thnh phn chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot
ng, tr khi thnh phn km theo cn thit chy tp tin.

Nu vic phth hnh m chy c hay m i tng c lm bng cch trao truy cp sao chp t mt ni xc nh, th vic trao cc truy cp
sao chp tng ng m ngun t cng ni c thnh l s phth hnh m ngun, mc d ngi khec khng bt buc phi sao chp m ngun cng vi m i
tng.
<sect2 id="sect4" label="4">
<title>Phn 4</title>

<p>Không cho phép bản sao chép, sa i, cp giy php ph hay php hh nh Chng trnh, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chép, sa i, cp giy php ph hay php hh nh Chng trnh bng cch kc b b, v s kt the cc quyn ca bn di Giy php ny. Tuy nhin, ngi kc nhn bn sao hay quyn t bn di Giy php ny s khang b nh hng, min l h tip tc tun theo hon ton.</p>
</sect2>

<sect2 id="sect5" label="5">
<title>Phn 5</title>

<p>Bn khang bt buc phi chp nhn Giy php ny, v bn cha k tn vo n. Tuy nhin, khng c g kc cho php bn sa i hay php hh nh Chng trnh hay sn pm bng t ngun t n. Cc hhng ng ny b php lut cm nu bn khang chp nhn Giy php ny. V vy, bng cch sa i hay php hh nh Chng trnh (hay sn pm bn da vo n), bn ng s chp nhn Giy php ny lm nh th, gm mi iu kin sao chp, php hh nh hay sa i Chng trnh hay sn pm da vo n.</p>
</sect2>

<sect2 id="sect6" label="6">
<title>Phn 6</title>

<p>Mi ln bn ph pt hh nh li Chng trnh (hay sn pm bn da vo n), ngi nhn c th nhn t ng mt giy php t ngi cp gc, sao chp, php hh nh hay sa i Chng trnh vi iu kin ny. Khng cho php bn hh ch thm ch cng giy nh s dng cc quyn c cp trong Giy php ny. Bn cng khang phi chu trch nhim v vic p buc ngi khc tun theo iu kin ca Giy php ny.</p>
</sect2>

<sect2 id="sect7" label="7">
<title>Phn 7</title>

<p>Nu, do kt qu ca quyt nh ca to n hay cc co buc vi phm bng sn ch hay v bt c l do no (khng b gii hh trong vn bng sn ch), bn b p buc chp nhn iu kin (hoc v quyt nh ca to n, s tho thun hoc cch kc no) m mu thun iu kin ca Giy php ny, trng hp ny khang min cho bn khang phi tha mn iu kin ca Giy php ny. Nu bn khang th pt hh hh bng cch tha mn ng th c gia c ca bn di Giy php ny v bt k gia c thch hp hh, th kt qu l khang cho php bn hh nh nh Chng trnh bng cch no c. Ly th d, nu mt bng sn ch no khng cho php s pt hh hh li Chng trnh mt cch mn tin bn quyn pt minh cho mi nghi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duyght bn c th c bng v Giy php ny l hon ton khang pt hh nh Chng trnh.</p>

<p>Nu on no trong phn ny c quyt nh l khng hh ph l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p dng c, v ton b phn d nh p dng trong cc trng hp hh.</p>
</sect2>

<p>Khng phi l mc ch ca phn ny xi gic bn vi phm bng sn ch no hay li yu quyn ti sn khc, hoc khang th th nhn s hp l ca li yu xch nh vy phn ny c mc ch duy nh t l bo v thng trng nguyn vn ca h thng pt hh phn mm t do, m c thc th bi cc p dng giy php cng cng. Nhu nghi ng gp rp lng cho mt phm v rm ca cc phn mm c pt hh nh qua h thng, nh s thc th.nn b h thng : ty tc gi / nghi trng quyt nh nu h mun pt hh nh phn mm qua h thng khc no, v nghi c cp Giy php khng th iu kin cch quyt nh .</p>
</sect2>

<p>Phn ny d nh din tr ng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</p>
</sect2>
<sect2 id="sect8" label="8">
<title>Phn 8</title>

<para>Nu s ph pt nh h v/hay cch s dng Chng trnh b hn ch trong mt s quc gia no , hoc bi bng sng ch hoc bi gia din c bn quyn tc gi , nghi tc quyn gc t Chng trnh dl Giy php ny c kh nng thm s hn ch ph pt nh h a l ring loi tr nhng quc gia , cho php ph pt nh h ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nht s hn ch nh l n c ghi trong thn ca Giy php ny. </para>

</sect2>

<sect2 id="sect9" label="9">
<title>Phn 9</title>

<para>T chc Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng GNU. Phin bn mi nh vy s c tinh thn tng t vi phin bn hin thi, nhng c th khc bit trong chi tit gi vi quy vi mi.</para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Chng trnh xc nh s phin bn ring ca Giy php ny p dng cho n, v bt k phin bn sau no , bn c ty chn thia iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T chc Phn mm T do. Nu Chng trnh khang xc nh s phin bn ring ca Giy php ny, bn c kh nng chn bt k phin bn no ca Giy php ny c xut bn bi T chc Phn mm T do.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Nu bn mun hp nht phn no ca Chng trnh vo chng trnh t do khc c iu kin ph pt nh h nhk GPL, hy xin php tc gi. i vi phn mm c bn quyn tc gi ca T chc Phn mm T do, hy vit th cho T chc Phn mm T do : thng thong chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo tng trng thi t do ca mi iu bt ngun t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt cch chung.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>KHNG BO HNH</title>

<subtitle>Phn 11</subtitle>

<para>V CHNG TRNH C CP PHP MIN PH, KHNG C BO HNH I VI CHNG TRNH NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP CHNG TRNH NY NH TH , KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BL, S BO M NG TNR TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA CHNG TRNH NY BN S T CHU. NU CHNG TRNH NY GY RA H HNG, BN GNH VC HON TON TRCH NGHM TR TIN DCH V GIP HAY SA CHA.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<para>KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M
BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI CHNG TRNH NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG CHNG TRNH NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C CHNG TRNHY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.</para>
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</sect1>

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<title>0</title>
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<sect2 id="sect5" label="5">
<title>5</title>

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<para>
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</listitem>
</listitem>
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<para>
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</para>

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</para>

</sect2>

<sect2 id="sect12" label="12">
<title> 12</title>

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</para>

</sect2>

<sect2 id="sect13" label="13">
<title> 13</title>

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<para>         ,        ,                  /         </para>

<para>
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- GNU

- LGPL

- GPL

- LGPL
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections <link linkend="sect1">1</link> and
<link linkend="sect2">2</link> above); and, if the work is an
executable linked with the Library, with the complete machine-readable
<quote>work that uses the Library</quote>, as object code and/or source
code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is
understood that the user who changes the contents of definitions files
in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
this distribution.

If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

</para>
</listitem>
</orderedlist>

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<para> <quote> </quote> . , ( ) ( ) .</para>

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<sect2 id="sect7" label="7">
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<sect2 id="sect8" label="8">
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<sect2 id="sect9" label="9">
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<sect2 id="sect10" label="10">
<title>10</title>

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<sect2 id="sect11" label="11">
<title>11</title>

</sect2>
GNU Lesser General Public License (LGPL-lisenssi)

Free Software Foundation, Inc.

Versio 2.1, helmikuu 1999

Yleens tietokoneohjelmien lisenssiosopimukset on suunniteltu siten, että ne estivät ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kytänn vapaus jakaa ja muuttaa ohjelmia lisenssi varmistaan, että ohjelma on vapaan kaikille kytännille.

Tm on LGPL-lisenssin epvirallinen kirjaimellinen kopioiminen ja levittminen on sallittu, mutta muuttaminen on kielletty.

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Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, että ne estävät ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyttjin vapaas jakaa ja muuttaa ohjelmaa lisenssi varmistaa, että ohjelma on vapaan kaikille kyttjille.

Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssit on nimittäin suunniteltu siten, että kyttjille taataan vapaus levittää kopioita vapaista ohjelmista (ja pyytäessä maksua tät palvelusta). GPL-lisenssit takaavat myös sen, että kyttj saa halutessaan ohjelman lähdekoodin, että hän voi muuttaa ohjelmaa tai kytt osia siit omissa vapaissa ohjelmissaan, ja että kaikkien niden toimien tiedetyn olevan sallittuja.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

Jotta kyttjyn oikeudet turvattaisiin, lisenssillasetetaan rajoituksia, jotka estävät tahansa kieltmest nitoikeukssai vaatimasta niden luovuttamista. Nm rajoitukset merkitsevtt tiettyj velvoitteita jokaiselle kyttjille, joka levitt kirjastokopioita tai muuttaa kirjastoa.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the *Lesser* General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a work based on the library and a work that uses the library. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called this License). Each licensee is addressed as you.

A library means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The <quote>Library</quote>, below, refers to any such software library or work which has been distributed under these terms. A <quote>work based on the Library</quote> means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term <quote>modification</quote>.)

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

Teoksen <quote>lhdekoodi</quote> tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Kirjaston tydellinen lhdekoodi tarkoittaa kaikkea lhdekoodia kaikkiin teoksen sisältäen moduleihin ja liski kaikkiin sen mukana seuraaviin kyttlititymiedostoihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kntmist.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

Lisenssin saajalla on oikeus kopioida ja levittäjäkoja kopioita Kirjaston lhdekoodista sellaisena kuin se on saatu, mill tahansa laitteella. Ehtona on, ett asianmukaisesti jokaisesta kopioista ilmenee kenell on siihen tekijänoikeus ja ett Kirjastoon ei ole takuuta; edelleen, kaikki viitaukset thn Lisenssiin ja ilmoitukseen takuun puuttumisesta on pidettä koskemattomana; ja viel, jokaiselle Kirjaston vastaanottajalle on annettava thn Lisenssi kirjaston mukana.

Lisenssin saaja voi pyyt maksun Ohjelman kopioimisesta ja voi halutessaan myyd Ohjelman takuun.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that...
you also meet all of these conditions:

<orderedlist numeration="loweralpha">
<li>
<para>
The modified work must itself be a software library.
</para>
</li>
<li>
<para>
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
</para>
</li>
<li>
<para>
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
</para>
</li>
<li>
<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>
</li>
<li>
<para>
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
</para>
</li>
<li>
<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
</para>
</li>
</orderedlist>
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
</para>

<para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>Kohta 3</title>

<para>
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
</para>

<para>
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
</para>

<para>
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
</para>
You may copy and distribute the Library (or a portion or derivative of it, under Section 2 ) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.
</para>

<para>
If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under <link linkend="sect6">Section 6</link>.)
</para>

<para>
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of
<link linkend="sect6">Section 6</link>.
Any executables containing that work also fall under
<link linkend="sect6">Section 6</link>,
whether or not they are linked directly with the Library itself.
</para>

<sect2 id="sect6" label="6">
<title>Kohta 6</title>

<para>
As an exception to the Sections above, you may also combine or
link a <quote>work that uses the Library</quote> with the Library to
produce a work containing portions of the Library, and distribute that
work under terms of your choice, provided that the terms permit
modification of the work for the customer’s own use and reverse
engineering for debugging such modifications.
</para>

<para>
You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:
</para>

<orderedlist numeration="loweralpha">
<li>
<para id="sect6a">
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
Kohta 8

Kirjaston kopioiminen, muuttaminen, lisensointi edelleen tai Kirjaston levittäminen muuten kuin tmm Lisenssin ehtojen mukaisesti on kielletty. Kaikki yritykset muulla tavoin kopiooida, muuttaa, lisensoida edelleen tai levittävät Kirjastoa ovat pitemmän ja johtavat automaattisesti tmm Lisenssin mukaisten oikeuksien ptyymiseen. Sen sijaan ne, jotka ovat saaneet kopioita tai oikeuksia Lisenssin saajalta tmm Lisenssin ehtojen mukaisesti, eivät menetä saamiaan lisensoitujen oikeuksia niin kauan kuin he noudattavat nit ehtoja.</p>

Kohta 9


Kohta 10

Aina kun Kirjastoa (tai Kirjastoon perustuvaa teosta) levitetään, vastaanottaja saa automaattisesti alkuperäistä tehdaan vain Lisenssin kopioida, muuttaa Kirjastoa ja siihen perustuvien teosten kopioimiselle ja muuttamiselle.</p>

Kohta 11

Jos oikeuden päät tai vate patentin loukkauksesta tai jokin muu syy (rajoittumatta patenttikysymyksiin) asettaa Lisenssin saajalle ehtoa (olipa niiden alkuperäinen tuomio, soppimus tai jokin muu), jotka ovat vastoin nit lisenssiehtoja, ne eivät anna oikeutta poiketa tätä Lisenssiä. Jos levittäminen ei ole mahdollista siten, että samanaikaisesti toimitaan se tmm Lisenssin että joidenkin muiden rajoittavien velvoitteiden mukaisesti, tllin Kirjastoa ei saa lainkaan levitetä. Jos esimerkiksi jokin patenttilisenssi ei sallitkaan niille, jotka saavat Kirjaston Lisenssin saajalta joko suoraan tai epäsuorasti, Kirjaston levittämistä edelleen ilman rojaltimaksua, tllin ainut tapa tyyttävävästä patenttiä on olla tätä Kirjastoa lainkaan.</p>

Jos jokin osa tätä katsotaan pitemmän tai mahdollomaksi vahvistaa oikeudessa joissakin tietyissä olosuhteissa, silloin tätä kohtaa on tarkoitus soveltaa tätä osin ja muissa olosuhteissa kokonaisuudessaan.
<para>Tämä kohdan tarkoitus ei ole johtaa siihen, että Lisenssin saaja rikkoisi mitn patenttia tai muuta arvokasta oikeuksellisuutta tai vitt mitn niden oikeuksien ptevyydest; tmm kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levitysjaistelmn yhtenysyys, joka on luottu kyttmll yleisi lisenssej. Monet ovat antaneet arvokaan panoksensa mit erilaisimpiin ohjelmiin, joita levitetn ss jrstelmss lootaen sen soveltamisen pysyvyyteen; on jokaisen tekijn ja lahjoittajan paksuvallass haluaakin tarvitse henkilv kevitt levitohjelmaa joissakin muussa jrjestelmss ja Lisenssin saaja ei voi vaikuttaa thn valintaan.</para>

<para>Tämä kohdan tarkoituksena on tehd tysi selvksi se, mik on tmm Lisenssin muiden osien seuraus.</para>

<sect2 id="sect12" label="12" title="Kohta 12">

<para>Jos patentit tai tekijnoikeudella suojatut kyttliittymt rajoittavat Kirjaston levittmist tai kytt joissakin valtioissa, Kirjaston alkuperinen tekij, joka lisensoi ohjelmaansa tll Lisenssill, voi asettaa nimenomaisia maantieteellisi levitysrajoituksia, jotka levittminen on sallittu joko mukaan- tai poislukien nm valtiot. Tllisess tapauksessa nm rajoitukset otetaan huomioon kuin ne olisi kirjoitetut tmm Lisenssin sekaan.</para>

</sect2>

<sect2 id="sect13" label="13" title="Kohta 13">

<para>Free Software Foundation voi julkaista korjattuja tai uusia versiota LGPL-lisenssit aika ajoin. Niden uusien versioiden henki on yhtenev nykyisen version kanssa, mutta ne saattavat erotta yksityiskohdissa ottaen huomioon uusia ongelmia ja huolenaiheita.</para>

<para>Jokaiselle versiolle annetaan ne muista erottava versionumero. Jos Kirjasto kyt tmm Lisenssin tiety versiota tai mit tahansa myhemp versiota, Lisenssin saaja saa valita, kyttk sit tai jotakin Free Software Foundationin julkaismaa myhemp versiota Lisenssist. Jos Kirjasto ei mainitse mit versiota tst Lisenssist se kytt, on sallittua valita mik tahansa versio, jonka Free Software Foundation on koskaan julkaissut.</para>

</sect2>

<sect2 id="sect14" label="14" title="Kohta 14">

<para>Jos Lisenssin saaja haluaa ottaa osia Kirjastosta mukaan muihin vapaisiin ohjelmiin, joiden levysetehdot ovat erilaiset, hnen tulee kirjoittaa tekijille ja kysy lupaa. Jos ohjelman tekijnoikeuden omistaa Free Software Foundation, on kirjoitetettava heille; he tekev joskus poikkeuksia. Free Software Foundationsin pten ohjenuorana on kaksi pnr; silt ykist kahein vapaista ohjelmaa johdetuinen ohjelmien vapaa asema ja yleisesti kannustaa ohjelmien jakamiseen ja uudelleen kyttyn.</para>

</sect2>

<sect2 id="sect15" label="15" title="Ei takuuta" subtitle="Kohta 15">

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</sect2>

<sect2 id="sect16" label="16">
<title>Kohta 16</title>

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<title>8</title>

<sect1 id="fdl-section8" label="8">

<title>BERTSÄTZUNG</title>


</sect1>

<title>9</title>

<sect1 id="fdl-section9" label="9">

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<title>10</title>

<sect1 id="fdl-section10" label="10">

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<para>Inclure une copie non modifiée de cette Licence.</para>
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Benjamin Drieu
bdrieu@april.org
Benjamin Drieu

Mlanie Clément-Fontaine
melanie@amberlab.net
Mlanie Clément-Fontaine

Arnaud Fontaine
arnaud@crao.net
Arnaud Fontaine
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under the terms of Articles 1 and 2 above, condition that you accomplish one of the following:  
orderedlist numeration="loweralpha">
  <listitem>
    accompany the integral code of the program corresponding, under a form readable by a computer, which shall be distributed for the terms of Articles 1 and 2 above, on a support habitually used for software change; or,
  </listitem>
  <listitem>
    accompany a proposal written, valid for at least three years, to provide third parties, a price that is not superior to what you pay for the act of producing a source distribution, a complete copy of the source code corresponding under a form readable by a computer, which shall be distributed for the terms of Articles 1 and 2 above, on a support habitually used for software change; or,
  </listitem>
  <listitem>
    accompany the information received by you concerning the proposal of distribution of the code source corresponding. (This solution is allowed only in the case of a non-commercial distribution, and only if you have received the program under a form of object code or executable accompanied by such a proposal - in conformity with the sub-Article b above.)
  </listitem>
</orderedlist>

The source code of an work designates the favorite form for working on modifications of this work. For an executable, the source integral designates the total code source of the total modules that it contains, as well as the potential files of definition of the interfaces which y are associated, as well as the scripts used to control the compilation and installation of the executable. Cependant, by exception specific, the source code is not normal to include anything that is either distributed with the main components (compiler, kernel, and other) of the operating system on which the executable runs, unless itself accompanies the executable.

If distributing an executable or an object code consists of offering access to their copy from a particular location, then offering equivalent access to copy the source code from the same location counts as a source distribution - same if the tiers are not required to copy the source at the same time as the object code.

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Cet article n'a pas pour but de vous induire à commettre un quelconque acte ou d'autres revendications un droit de propriété ou de contester la validité de la moindre de ces revendications; cet article a pour seul objectif de protéger l'intégrité du système de distribution du logiciel libre, qui est mis en œuvre par la pratique des licences publiques. De nombreuses personnes ont fait de généreuses contributions au large spectre de logiciels distribués par ce système en se fiant à l'application cohérente de ce système; il appartient à chaque auteur/donateur de déterminer si ou elle veut distribuer du logiciel par l'intermédiaire d'un quelconque autre système et un concessionnaire ne peut imposer de choix.
Si la distribution et/ou l'utilisation du Programme est limitée dans certains pays que ce soit par des brevets ou par des interfaces soumises au droit d'auteur, le titulaire originel des droits d'auteur qui décide de couvrir le Programme par la présente Licence peut ajouter une limitation géographique de distribution explicite qui exclue ces pays afin que la distribution soit permise seulement dans ou entre les pays qui ne sont pas ainsi exclus. Dans ce cas, la présente Licence incorpore la limitation comme si elle tait crite dans le corps de la présente Licence.

La Free Software Foundation peut, de temps à autre, publier des versions rvisées et/ou nouvelles de la Licence Publique Générale. De telles nouvelles versions seront similaires à la présente version dans l'esprit mais pourront différer dans le détail pour prendre en compte de nouvelles problématiques ou inquiétudes.

Chaque version possède un numéro de version la distinguant. Si le Programme précise le numéro de version de la présente Licence qui s'y applique et une version ultérieure quelconque, vous avez le choix de suivre les conditions de la présente version ou de toute autre version ultérieure publie par la Free Software Foundation. Si le Programme ne spécifie aucun numéro de version de la présente Licence, vous pouvez choisir une version quelconque publie par la Free Software Foundation quelque moment que ce soit.

Si vous souhaitez incorporer des parties du Programme dans d'autres programmes libres dont les conditions de distribution sont différentes, crivez l'auteur pour lui en demander l'autorisation. Pour les logiciels dont la Free Software Foundation est titulaire des droits d'auteur, crivez la Free Software Foundation; nous faisons parfois des exceptions dans ce sens. Notre décision sera guidée par le double objectif de préserv er le statut libre de tous les drvs de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.

COMME LA LICENCE DU PROGRAMME EST CONCDE TITRE GRATUIT, AUCUNE GARANTIE NE S'APPLIQUE AU PROGRAMME, DANS LES LIMITES AUTORISES PAR LA LOI APPLICABLE. SAUF MENTION CONTRAIRE CRITE, LES TITULAIRES DU DROIT D'AUTEUR ET/OU LES AUTRES PARTIES FOURNISSENT LE PROGRAMME QUOTELEQUALCITEMENT, SANS AUCUNE GARANTIE DE QUELQUE NATURE QUE CE SOIT, EXPRÈSE OU IMPLICITE, Y COMPRIS, MAIS SANS Y TRE LIMIT, LES GARANTIES IMPLICITES DE MARCHANDABILIT ET D'ADQUATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ LA TOTALIT DES RISQUES LIS LA QUALIT ET AUX PERFORMANCES DU PROGRAMME. SI LE PROGRAMME SE RVLAIT DEFECTUEUX, LE COT DE L'ENTRETIEN, DES RPARATIONS OU DES CORRECTIONS NCESSAIRES VOUS INCOMBENT INGRALEMENT.
EN AUCUN CAS, SAUF LORSQUE LA LOI APPLICABLE OU UNE CONVENTION CRITE L'EXIGE, UN TITULAIRE DE DROIT D'AUTEUR QUEL QU'IL SOIT, OU TOUTE PARTIE QUI POURRAIT MODIFIER ET/OU REDISTRIBUTER LE PROGRAMME COMME PERMIS CI-DESSUS, NE POURRAIT TRE TENU POUR RESPONSABLE VOTRE GARD DES DOMMAGES, INCLUANT LES DOMMAGES GNRIQUES, SPECIFIQUES, SECONDAIRES OU CONSUCTIFS, RSULTANT DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LE PROGRAMME (Y COMPRIS, MAIS SANS Y TRE LIMIT, LA PERTE DE DONNES, OU LE FAIT QUE DES DONNES SOIENT RENDUES IMPRCISES, OU LES PERTES PROUVE PAR VOUS OU PAR DES TIERS, OU LE FAIT QUE LE PROGRAMME CHOUE INTROPRER AVEC UN AUTRE PROGRAMME QUEL QU'IL SOIT) MME SI LE DIT TITULAIRE DU DROIT D'AUTEUR OU LE PARTI CONCERN A T AVERTI DE L'EVENTUALIT DE TELS DOMMAGES.
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Daniel Mustieles

daniel.mustieles@gmail.com

2012

Daniel Mustieles

Rafael Palomino

rafaelus4@eresmas.net

2001

Rafael Palomino

Francisco Javier F. Serrador

serrador@cvs.gnome.org

2005

Francisco Javier F. Serrador
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Pblicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Cuando hablamos de software libre, estamos refiriéndonos a libertad, no a precio. Nuestras Licencias Pblicas Generales están diseñadas para asegurarnos de que tenga la libertad de distribuir copias de software libre (y cobrar por ese servicio si quiere), de que reciba el código fuente o que pueda conseguirlo si lo quiere, de que pueda modificar el software o usar fragmentos de él en programas nuevos libres, y de que sepa que puede hacer todas estas cosas.

Esta licencia, la Licencia Pblica General Menor (Lesser General Public Licence), se aplica a algunos paquetes de software diseñados específicamente tipicamente bibliotecas de la Free Software Foundation y de otros autores que deciden usarla. Usted puede usarla también, pero le sugerimos que piense primero cuidadosamente si esta licencia o la General Public Licence ordinaria, es o no la estrategia mejor a usar en un caso particular, basándose en las explicaciones siguientes.

Cuando hablamos de software libre, nos referimos a libertad de uso, no a precio. Nuestras Licencias Pblicas Generales están diseñadas para asegurar que usted tiene la libertad de distribuir copias de software libre (y cobrar por este servicio si quiere); que reciba el código fuente o que pueda obtenerlo si lo quiere; que puede modificar el software y usar partes de él en nuevos programas libres; y de que ha sido informado de que puede hacer esta cosas.

Para proteger sus derechos necesitamos algunas restricciones que prohíban a cualquiera negarle a usted estos derechos o pedirle que renuncie a ellos. Estas restricciones se traducen en ciertas obligaciones que le afectan si distribuye copias de la biblioteca, o si la modifica.

Por ejemplo, si distribuye copias de la biblioteca, sea gratuitamente, o a cambio de una contraprestación, debe dar a los receptores todos los derechos que tiene. Debe asegurarse de que ellos también reciban, o pueden conseguir, el código fuente. Si enlaza otro código con la biblioteca, debe proporcionar archivos objeto completos a los receptores, para que ellos puedan reenlazarlos con la biblioteca después de hacer cambios a la biblioteca y recompilarla. Y debe mostrarles estas condiciones de forma que conozcan sus derechos.

Protegemos sus derechos con la combinación de dos medidas:
(1) Derechos de copia de la Biblioteca (copyright), y
(2) le ofrecemos esta licencia, que le da permiso legal para copiar, distribuir y/o modificar la biblioteca.

Para proteger a cada uno de los distribuidores, queremos dejar muy claro que no existe garantía para la biblioteca libre. Además, si la biblioteca es modificada por alguien y se transmite, los receptores deberán saber que lo que ellos tienen no es la versión original, de forma que la reputación del autor original no se vea afectada por problemas que podrían ser introducidos por otros.

Finalmente, cualquier programa libre está constantemente amenazado por patentes sobre el software. Queremos evitar el peligro de que una compaa no pueda restringir efectivamente a los usuarios de un programa libre obteniendo una licencia restrictiva de un propietario de una patente. Para evitar esto, insistimos en que cualquier licencia de patente obtenida por una versión de la biblioteca deba ser consistente con la completa libertad de uso.
especificada en esta licencia.

La mayora del software de GNU, incluyendo algunas bibliotecas, estn cubiertos por la Licencia Licencia Pública General ordinaria. Esta licencia, la GNU Licencia Pública General Menor, se aplica a ciertas bibliotecas designadas, y es un poco diferente de la Licencia Pública General. Usamos esta licencia para ciertas bibliotecas con el fin de permitir enlazar esas bibliotecas en programas no libres.

Cuando un programa est enlazado con una biblioteca, ya sea estticamente o usando una biblioteca compartida, la combinacin de los des es hablando legalmente un trabajo combinado, una derivacin de la biblioteca original. La Licencia Pública General entonces permite dicho enlazado slo si la combinacin entera cumple con este criterio de libertad. La Licencia Pública General Menor permite un criterio ms relajado para enlazar otro cdigo con la biblioteca.

Llamamos a esta licencia Licencia Pública General <quote>Menor</quote> porque hace Menos para proteger la libertad del usuario que la Licencia Licencia Pública General ordinaria. También proporciona otros desarrolladores de software libre Menos de las ventajas respecto a competir con programas que no sean software libre. Estas desventajas son la razn por la que usamos la licencia Licencia Pública General para muchas bibliotecas. Sin embargo, la licencia Menor proporciona ventajas en ciertas circunstancias especiales.

Por ejemplo, en raras ocasiones puede haber una necesidad especial de fomentar lo ms ampliamente posible el uso de una determinada biblioteca, de forma que esta se convierta en un estndar. Para conseguir esto, se debe permitir a los programas no libres el uso de estas bibliotecas. Un caso ms frecuente es aquel en el que una biblioteca libre hace el mismo trabajo que el que realizaran las bibliotecas no libres ms ampliamente usadas. En este caso, hay poco que ganar limitando la biblioteca nicamente al software libre, de manera que usamos la Licencia Pública General Menor.

En otros casos, el permiso para usar una biblioteca determinada en programas no libres posibilita a un mayor nmero de gente a usar una gran cantidad de software libre. Por ejemplo, el permiso para utilizar la biblioteca GNU C en programas no libres posibilita a mucha ms gente a usar al completo el sistema operativo GNU, as como su variante, el sistema operativo GNU/LINUX.

Aunque la Licencia Pública General Menor es menos protectora para las libertades del usuario, asegura que el usuario de un programa que est enlazado con la biblioteca tiene la libertad y los medios para ejecutar ese programa usando una versin modificada de la biblioteca.

Los trminos y las condiciones exactas para la copia, distribucin y modificacin se indican a continuacin. Preste especial atencin a la diferencia entre un <quote>trabajo basado en la biblioteca</quote> y un <quote>trabajo que utiliza la biblioteca</quote>. El primero contiene cdigo derivado de la biblioteca, mientras que el ltimo debe estar unido con la biblioteca para ser ejecutado.

Trminos y condiciones para la copia, distribucin y modificacin

Seccin 0

Este Acuerdo de Licencia se aplica a cualquier biblioteca de software u otro programa que contenga una
notificación colocada por el poseedor del copyright u otra parte autorizada diciendo que puede distribuirse bajo los
trminos de la licencia Licencia Pública General Menor (también llamada <quote>esta Licencia</quote>). Cada
licenciatario ser referido como <quote>Usted</quote>.</para>

 Una <quote>biblioteca</quote> significa una colección de funciones y/o datos de software, preparados
para ser enlazados de una forma cómoda con programas de aplicación (que usan algunas de estas funciones y datos)
para formar ejecutables.</para>

 La <quote>Biblioteca</quote> en lo que sigue, se refiere a cualquier trabajo o biblioteca de software que
haya sido distribuido bajo estos trminos. Un <quote>trabajo basado en la Biblioteca</quote> significa que, o la
Biblioteca o cualquier trabajo derivado, estn bajo la ley de derechos de autor: es decir, un trabajo que contiene a la
Biblioteca o a una parte de ella, ya sea de forma literal o con modificaciones y/o traducida de forma clara a otro
idioma (mas abajo se incluye la traducción sin restricción en el término <quote>modificación</quote>). </para>

 El <quote>cdigo fuente</quote> para un trabajo se refiere a la forma preferida del trabajo para hacer
modificaciones en l. Para una Biblioteca, el código fuente completo significa todos los códigos fuente para todos los
mdulos que contenga la biblioteca, ms cualquier fichero de definición de interfaz asociado, y los scripts asociados
para controlar la compilación y la instalación de la biblioteca.</para>

 Otras actividades que no sean la copia, distribución y modificación no se encuentran cubiertas por esta
Licencia; se encuentran fuera de su objetivo. La opción de ejecutar un programa utilizando la Biblioteca no esta
restringido, y el resultado de dicho programa esta cubierto nicamente si su contenido constituye un trabajo basado en
la Biblioteca (independientemente del uso de la Biblioteca como herramienta para escribirlo). Que esto sea cierto va
da depender de lo que haga la Biblioteca y de lo que haga el programa que utiliza la Biblioteca.</para>

 Puede copiar y distribuir copias literales del código fuente completo de la Biblioteca tal y como la recibe,
en cualquier medio, a condición de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un
aviso conveniente de derechos de autor y una renuncia de garantía; mantenga intactas todas las notificaciones que se
refieran a esta Licencia y a la ausencia de cualquier garantía; y distribuya una copia de esta Licencia junto con la
Biblioteca.</para>

 Puede cobrar un importe por el acto físico de trasladar una copia y puede, a opción suya, ofrecer una
protección de garantía a cambio de un importe.</para>

 Puede modificar su copia o copias de la Biblioteca o de cualquier parte de ella, formando así un trabajo
basado en la Biblioteca, y copiar y distribuir tales modificaciones o trabajo bajo los trminos de la <link
linkend="sect1">Sección 1</link> de arriba, siempre que usted también cumpla con todas estas condiciones:
<ordenado numeración="loweralpha"> <listitem> El trabajo modificado debe ser por sí mismo una biblioteca. </listitem> </ordenado>
Debe hacer que los ficheros modificados lleven avisos llamativos, declarando que usted cambió los ficheros y la fecha de cualquier cambio.

Debe hacer que a todo el trabajo le sea concedida una licencia, sin cargo a terceras partes, bajo los términos de esta Licencia.

Si una facilidad en la Biblioteca modificada se refiere a una función o a una tabla de datos, que deba ser suministrada por un programa de aplicación que usa la facilidad de otra manera que como un argumento pasado cuando la facilidad es invocada, entonces debe hacer un esfuerzo de buena fe para asegurar que, en caso de que una aplicación no suministre tal función o tabla, la facilidad aun funcione y haga que cualquier parte de su finalidad siga siendo significativa.

(Por ejemplo, una función en una biblioteca para computar razones cuadradas tiene un propósito que est bien definido completamente, independientemente de la aplicación. Por tanto, la Subsección 2d exige que cualquier función o tabla suministrada por la aplicación y usada por esa función debe ser opcional: si la aplicación no la suministra, la función razones cuadradas debe seguir computando razones cuadradas).

Estos requisitos se aplican al trabajo modificado como un todo. Si hay secciones identificables de ese trabajo que no derivan de la Biblioteca, y se pueden considerar razonablemente independientes y trabajos separados, por ellas mismas, entonces esta Licencia y sus términos, no se aplicarán a aquellas secciones cuando usted los distribuya como trabajos separados. Pero cuando usted distribuya las mismas secciones como parte de un todo, que sea un trabajo basado en la Biblioteca, la distribución del todo debe estar bajo los términos de esta Licencia cuyos permisos para otros licenciatarios se extienden a todo el conjunto, y as para todas y cada una de las partes, sin tener en cuenta quien las escribió.

As pues, la intención de esta sección no es exigir derechos o discutir los derechos de un trabajo escrito completamente por usted; ms bien, la intención es ejercer el derecho a controlar la distribución de trabajos derivados o colectivos basados en la Biblioteca.

Además, la mera agregación de otro trabajo no basado en la Biblioteca con la Biblioteca (o con un trabajo basado en la Biblioteca) en un volumen de almacenaje o en un medio de distribución, no pone al otro trabajo bajo los objetivos de esta Licencia.

Usted puede optar por aplicar a una determinada copia de la Biblioteca, los términos de la Licencia Pública General GNU ordinaria en vez de los de esta Licencia. Para hacer esto, debe alterar todas las notificaciones que se refieren a esta Licencia, para que se refieran a la Licencia Pública General GNU ordinaria, versión 2, en vez de a esta Licencia. (Si ha aparecido una versión más reciente que la versión 2 de la Licencia Pública General GNU ordinaria, entonces, si quiere, puede especificar esa nueva versión). No haga ningún otro cambio en estas notificaciones.
Una vez que se haya hecho este cambio en una copia dada, es irreversible para esa copia, de modo que la Licencia Pública General GNU ordinaria se aplica a todas las copias siguientes y a trabajos derivados realizados a partir de esa copia.

Esta opción es útil cuando usted quiere copiar parte del código de la Biblioteca dentro de un programa que no es una biblioteca.

Puede copiar y distribuir la Biblioteca (o una porción o derivado de ella, bajo la Sección 2) en código objeto o forma ejecutable bajo los términos de las Secciones 1 y 2 arriba indicadas, siempre que la acompañe con el correspondiente código fuente legible (a máquina) completo, que debe ser distribuido bajo los términos de las Secciones 1 y 2 arriba, en un medio usado habitualmente para el intercambio de software.

Si la distribución del código objeto se hace ofreciendo el acceso a su copia desde un lugar designado, entonces ofreciendo un acceso equivalente a la copia del código fuente desde el mismo sitio se satisfacen los requisitos para la distribución del código fuente, aunque las terceras partes no estén obligadas a copiar el código fuente junto con el código objeto.

Un programa que no contiene derivado de ninguna porción de la Biblioteca, pero está diseñado para trabajar con la Biblioteca al ser compilado o enlazado con ella, se denomina un "trabajo que usa la Biblioteca". Dicho trabajo, por separado, no es un trabajo derivado de la Biblioteca, y por tanto cae fuera del m彭bo de esta Licencia.

Sin embargo, enlazar un "trabajo que usa la Biblioteca" con la Biblioteca, crea un ejecutable que es un derivado de la Biblioteca (porque contiene porciones de la Biblioteca). En vez de un "trabajo que usa la Biblioteca". El ejecutable está por tanto cubierto por esta Licencia. La Sección 6 expone los términos para la distribución de tales ejecutables.

Cuando un "trabajo que usa la Biblioteca" utiliza material de un fichero cabecera que forma parte de la Biblioteca, el código objeto del trabajo puede ser un trabajo derivado de la Biblioteca aunque el código fuente no lo sea. Que esto sea cierto es especialmente significativo si el trabajo puede ser enlazado sin la Biblioteca, o si el trabajo es por sí mismo una biblioteca. El límite para que esto sea cierto no está definido con precisión por la ley.

Si dicho fichero objeto utiliza solo parámetros numéricos, esquema de estructura de datos, y pequeñas macros y pequeñas funciones en línea (diez líneas o menos de longitud), entonces el uso del fichero objeto no está restringido, sin tener en cuenta si esto es legalmente un trabajo derivado. (Ejecutables que contengan este código objeto y porciones de la Biblioteca estén aún bajo la Sección 6).
En caso contrario, si el trabajo es un derivado de la Biblioteca, usted puede distribuir el código objeto del trabajo bajo los términos de la Sección 6 de la Biblioteca, est o no enlazado con la Biblioteca. 

Como excepción a las secciones anteriores, puede también combinar o enlazar un trabajo que usa la Biblioteca con la Biblioteca para producir un trabajo que contenga porciones de la Biblioteca, y distribuir ese trabajo bajo los términos de su elección, siempre que los términos permitan la modificación del trabajo por el uso propio del cliente y la ingeniería inversa para la depuración de tales modificaciones. 

Debe incluir con cada copia del trabajo una notificación de que la Biblioteca se utiliza en él, y de que la Biblioteca y su uso estén cubiertos por esta Licencia. Debe suministrar una copia de esta Licencia. Si el trabajo, durante su ejecución, muestra notas de derechos de autor, usted debe incluir entre ellas las notas de derechos de autor de la Biblioteca, así como una referencia que dirija al usuario a la copia de esta Licencia. Además, usted debe hacer una de estas cosas: Acompañar el trabajo con el correspondiente código fuente legible (a máquina) completo de la Biblioteca, incluyendo cualquier cambio que fuera utilizado en el trabajo (el cual debe ser distribuido bajo las Secciones 1 y 2 de la Biblioteca); y, si el trabajo es un executable enlazado con la Biblioteca, con el completo, legible (a máquina) trabajo que usa la Biblioteca, como código objeto y/o código fuente, de forma que el usuario pueda modificar la Biblioteca y reenlazar entonces para producir un executable modificado que contenga la Biblioteca modificada. (Se entiende que el usuario que cambia los contenidos de los archivos de definiciones en la Biblioteca no necesariamente sea capaz de recompilar la aplicación para usar las definiciones modificadas). 

Usar un mecanismo de biblioteca compartida adecuado para enlazar con la Biblioteca. Un mecanismo adecuado es uno que (1) utiliza en tiempo de ejecución una copia de la biblioteca que esté ya presente en el ordenador del usuario, en vez de copiar funciones de biblioteca dentro del executable, y (2) funcionar correctamente con una versión modificada de la biblioteca, si el usuario instala una, mientras que la versión modificada sea de interfaz compatible con la versión con la que se hizo el trabajo. 

Acompañar el trabajo con una oferta escrita, válida por tres años al menos, para proporcionar a dicho usuario los materiales especificados en la Sección 6a de la Biblioteca, por un precio no superior al coste de realizar esta distribución. 

Si la distribución del trabajo se hace ofreciendo el acceso a la copia desde un lugar determinado, ofrecer un acceso equivalente para la copia de los materiales especificados anteriormente desde el mismo lugar. 

Verificar que el usuario ha recibido ya una copia de estos materiales o que usted ya le ha enviado una copia a este usuario.
Para un ejecutable, la forma requerida del *trabajo que usa la Biblioteca* debe incluir todos los programas de datos y utilidades necesitados para reproducir el ejecutable desde 1. Sin embargo, como una excepción especial, los materiales a distribuir no necesitan incluir nada de lo que es distribuido normalmente (ya sea en forma binaria o fuente) con los componentes principales (compilador, ncleo, y dems) del sistema operativo en el cual funciona el ejecutable, a menos que el componente por 1 mismo acompañe al ejecutable.

Puede suceder que este requisito contradiga las restricciones de la licencia de otras bibliotecas propietarias que no acompañan normalmente al sistema operativo. Dicha contradicción significa que no puede usar estas y la Biblioteca juntas en un ejecutable que usted distribuya.

Puede colocar facilidades de biblioteca, que son un trabajo basado en la Biblioteca, juntas en una sola biblioteca junto con otras facilidades de biblioteca no cubiertas por esta Licencia, y distribuir dicha biblioteca combinada, con tal que la distribución separada del trabajo basado en la Biblioteca y de las otras facilidades de biblioteca esté, por lo demás, permitida, y con tal que usted haga estas dos cosas:

Usted no puede copiar, modificar, sublicenciar o distribuir la Biblioteca salvo por lo permitido expresamente por esta Licencia. Cualquier otro intento de copia, modificación, sublicenciamiento o distribución de la Biblioteca es nulo, y dar por terminados automáticamente sus derechos bajo esa Licencia. Sin embargo, los terceros que hayan recibido copias, o derechos, de usted bajo esta Licencia no verán terminadas sus licencias, siempre que permanezcan en total conformidad con ella.
No se le exige que acepte esta Licencia, puesto que no la ha firmado. Sin embargo, ninguna otra cosa le concede a usted el permiso para modificar o distribuir la Biblioteca o sus trabajos derivados. Estas acciones están prohibidas por ley si usted no acepta esta Licencia. Por tanto, al modificar o distribuir la Biblioteca (o cualquier trabajo basado en la Biblioteca), usted indica su aceptación de esta Licencia para hacerlo, y todos sus términos y condiciones para copiar, distribuir o modificar la Biblioteca o los trabajos basados en ella.

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La Free Software Foundation puede publicar versiones nuevas y revisadas de la Licencia Licencia Pública General Menor de vez en cuando. Dichas versiones nuevas serán similares en espíritu a la presente versión, pero pueden diferir en detalles para solucionar nuevos problemas o preocupaciones.

Cada versión tiene un número de versión que la distingue. Si la Biblioteca especifica que se aplica un número de versión en particular de esta Licencia y cualquier versión posterior, usted tiene la opción de seguir los términos y condiciones de la versión especificada o cualquier posterior que haya sido publicada por la Free Software Foundation. Si la Biblioteca no especifica un número de versión de esta Licencia, puede escoger cualquier versión que haya sido publicada por la Free Software Foundation.

Si quiere incorporar partes de la Biblioteca en otros programas libres cuyas condiciones de distribución son incompatibles con estos, escriba al autor para pedirle permiso. Para el software cuyos derechos de autor pertenecen a la Free Software Foundation, escriba a la Free Software Foundation; nosotros hacemos a veces excepciones a esto. Nuestra decisión se guiará generalmente por los dos objetivos de preservar el estatus libre de todo lo derivado de nuestro software libre y de promover la compartición y reutilización de software.

DEBIDO A QUE LA BIBLIOTECA EST LICENCIADA LIBRE DE CARGO, NO HAY GARANTÍA PARA LA BIBLIOTECA EN LA EXTENSIÓN PERMITIDA POR LA LEY APLICABLE. EXCEPTO CUANDO SE ESTABLEZCA DE OTRO MODO POR ESCRITO, LOS POSEEDORES DEL DERECHO DE AUTOR Y/O OTRAS PARTES SUMINISTRAN LA BIBLIOTECA <quote>TAL CUAL</quote> SIN GARANTÍA DE NINGUNA CLASE, YA SEA DE FORMA EXPRESA O IMPLÍCITA, INCLUYENDO, PERO NO LIMITADA A, LAS GARANTÍAS IMPLÍCITAS DE COMERCIABILIDAD Y ADECUACIÓN PARA UN PROPÓSITO PARTICULAR. TODO EL RIESGO EN CUANTO A CALIDAD Y EJECUCIÓN DE LA BIBLIOTECA ES SUYO. SI LA BIBLIOTECA RESULTARA ESTAR DEFECTUOSA, USTED ASUME EL COSTE DE TODO EL MANTENIMIENTO, REPARACIÓN O CORRECCIÓN NECESARIA.
BAJO NINGN CONCEPTO, A MENOS QUE SEA REQUERIDO POR LA LEY APLICABLE O DE ACUERDO A UN ESCRITO, CUALQUIER POSEEDOR DE DERECHOS DE AUTOR O CUALQUIER OTRA PARTE QUE PUEDA MODIFICAR Y/O REDISTRIBUTIR LA BIBLIOTECA COMO SE PERMITE ARRIBA, SER RESPONSABLE CON USTED POR DAOS, INCLUYENDO CUALQUIER DAO GENERAL, ESPECIAL, ACCIDENTAL O CONSECUENTE ORIGINADO POR EL USO O INCAPACIDAD DE USAR LA BIBLIOTECA(INCLUYENDO PERO NO LIMITANDO, A LAS PRDIDAS DE DATOS O A LA PRODUCCIN DE DATOS INCORRECTOS, O PRDIDAS SUFRIDAS POR USTED O TERCERAS PARTES O UN FALLO DE LA BIBLIOTECA PARA FUNCIONAR CON CUALQUIER OTRO SOFTWARE) INCLUSO SI TAL TITULAR U OTRA PARTE HA SIDO NOTIFICADA DE LA POSIBILIDAD DE TALES DAOS.</para>

The GNU Public License 2 in DocBook
Markup by Eric Baudais <baudais@okstate.edu>
Maintained by the GNOME Documentation Project
http://developer.gnome.org/projects/gdp
Version: 1.0.1
Last Modified: Feb. 5, 2001

Var och en ger kopiera och distribuera exakta kopior av detta licensavtal, men att ndra det r inte tilltet. }
dig av och frndra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.</p>

<sect1 id="preamble" label="none">
<title>BAKGRUND</title>

<para>De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frndra fri programvara att frskra att programvaran r fri fr alla dess anvndare.</para>

<para>Nr vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr kllkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvnda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.</para>

<para>Denna licens, Lesser General Public License, gller vissa specialutformade programpaket srskt bibliotek frn Free Software Foundation och andra upphovsmn som bestmmer sig fr att använda licensen. Du kan ocks använda licensen, men vi freslr att du utfbr beskrivningen nedan funderar p om det r den hr licensen eller ordinarie GPL som r den bsta strategin fr dig.</para>

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 6784
När vi talar om fri programvara syftar vi på frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara och att garantera att du kan ndra i programvaran och använda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.

Fr att skydda dina rttigheter mste vi infra begrnsningar som frbjuder distributrer att hindra dig frn att använda dessa rttigheter eller krva att du skall ge upp dessa rttigheter. Dessa begrnsningar motsvaras av vissa frpliktelser fr dig om du distribuerar kopior av biblioteket eller om du ndrar biblioteket.

Om du exempelvis distribuerar kopior av biblioteket, gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks se till att mottagaren fr eller kan f kllkoden. Om du lnkar annan kod till biblioteket mste du tillhandahlla fullstndiga objektfiler till mottagaren s att han/hon kan terlnka dem med biblioteket efter att ha gjort ndringar i biblioteket och kompilerat om det. Du mste m ven visa dessa licensvillkor fr mottagaren s att han/hon knner till sina rttigheter.

Vi skyddar dina rttigheter i tv steg: (1) upphovsrätt till biblioteket och (2) dessa licensvillkor som ger dig laglig tilltelse att kopiera, distribuera och/eller ndra biblioteket.

Om biblioteket ndras av ngon annan upphovsmannen och vidareverlts, br mottagaren knna till att han/hon inte har originalversionen och att frndringar av och felaktigheter i biblioteket inte skall belasta den ursprunglige upphovsmannen.

Slutligen skall nmnas att all fri programvara hotas av programvarupatent. Vi vill undvika att fretag kan frhindra anvndningen av fria programvara genom att skaffa en begrnsande licens frn en patentinnehavare. Vi insisterar dfr p att alla patentlicenser som erhlls fr en version av biblioteket mste vara frenliga med den fulla nyttjandefriheten i den hr licensen.

De flesta GNU-program, inklusive vissa bibliotek, teks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kllad LGPL), gller vissa specificerade bibliotek och skiljer sig avsevrt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta Inkning av biblioteken till icke-fria programvaror.

De flesta GNU-program, inklusive vissa bibliotek, teks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kllad LGPL), gller vissa specificerade bibliotek och skiljer sig avsevrt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta Inkning av biblioteken till icke-fria programvaror.


Vi kallar denna licens <quote>begrensad</quote> eftersom skyddet av anvndarens frihet r mindre n genom ordinarie GPL. Den ger ocks utvecklare av fri programvara frre frdelar jmfrt med konkurrerande icke-fria program. Det r dessa nackdelar som r orsaken till att vi behller GPL fr mnga bibliotek. Den begrnsade licensen medfr dock frdelar under vissa speciella omstndigheter.

I sllsynta fall kan det finnas srskilt behov av att uppmuntra breddad mjliga anvndning av ett visst bibliotek s att det de facto blir standard. I syfte att uppn detta mste icke-fria program tilltas anvndas biblioteket. Vanligare r att ett fritt bibliotek utf samma uppgift som ofta anvndas icke-fria bibliotek. I det senare fallet finns det inte mycket att vinna p att begrnsa det fria biblioteket till fri programvara enbart, s vi anvnder d den begrnsade licensen.
I andra fall ger tilltelse att använda ett visst bibliotek i icke-fria program fler mäniskor möjlighet att använda en stor mängd fria programvaror. Som exempel kan nämnas att tilltelse att använda biblioteket GNU C i icke-fria program, ger det möjligt för fler personer att använda hela GNU-operativsystemet eller GNU/Linux-operativsystemet.

Ven om den begränsade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kräva programmet via en ndrad version av Biblioteket.


VILLKOR FR ATT KOPIERA, DISTRIBUTUERA OCH NDRA PROGRAMVARAN

Med ett bibliotek avses en samlings programfunktioner och/eller data som förberetts för att enkelt kunna lnkas till applikationsprogram (som använder vissa av dessa funktioner och viss data) för att skapa krbara filer.

Med kllkod för ett verk avses den freradana formen av verket för att kunna gr ana ndringar av verket. Fr ett bibliotek betyder den fullständiga kllkoden all kllkod fr alla ingende moduler, eventuella dithrande definitionsfiler fr grnssnit samt skript som används fr att styra kompilering och installation av biblioteket.

Du kan kopiera och distribuera exakta kopior av Bibliotekets fullständiga källkod i den form du mottagit det, oavsett medium, frutsatt att du tydligt och korrekt på varje kopia publicerar en riktig upphovsrättsklausul och garantifriskrivningsklausul, vidhiller alla hänvisningar till Licensen och till alla garantifriskrivningar samt distribuerar en kopia av Licensen tillsammans med Biblioteket.

Du kan ta ut en avgift för proceduren att verifiera en kopia och du kan erbjuda garanti mot en avgift om du satsar.

Du kan ändra din kopia eller dina kopior av Biblioteket eller delar av det och p s att skapa ett verk baserat på Biblioteket. Du kan även kopiera och distribuera dessa ändringar eller verk enligt villkoren i ovan, under frutsättning att den ändrade kopia inte baseras på Biblioteket.

De ändrade filerna mst innehålla tydlig information om att du har ändrat filerna och vilket datum dessa ändringar utfördes.

Hela verket mst licensieras utan kostnad till alla tredjemän enligt villkoren i Licensen.

Om en modul i det ändrade Biblioteket hänvisar till en funktion eller en datatabell som skall levereras med ett applikationsprogram som använder den modulen, annat som ett argument när modulen anropas, mst du fråga att, i händelse av att en applikation inte tillhandahåller funktionen eller tabellen, modulen nd fungerar och utföra det den huvudsakligen syftar till.

Exempelvis har en funktion i ett bibliotek som skall beräkna kvadratorter ett klart och vlddefinierat syfte oberoende av applikationen. Drfr krvs att samtliga applikationsfunktioner och -tabeller som används av denna funktion, enligt paragraf 2d, mst vara valfria: om applikationen inte tillhandahåller det mst kvadratortsfunktionen nd beräkna kvadratorter.)

Dessa krav gillar det ändrade verket i dess helhet. Om identifierbara delar av verket inte hrr frn Biblioteket och rimligen kan anses fristande och separata verk gillar inte licensvillkoren i dessa delar nr de distribueras som separata verk. Om sammans delar distribueras som en del av en helhet som innehåller verk baserat på Biblioteket, mst distributionen i sin helhet ske enligt villkoren i Licensen. Licensen skall i sdant fall gilla fr andra licensinnehavare fr hela verket och drmed till varje del av Biblioteket oavsett vem som ru upphovsmann de olika delarna.

Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stilt att utva rten att kontrollera distributionen av hredda verk eller kombinerade verk baserade på Biblioteket.

Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras på Biblioteket (eller
ett verk baserat på Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

<para>Du kan välja att tillämpa villkoren i GNU GPL i stället för den här Licensen för en viss kopia av Biblioteket. I syfte att granska detta mste du ndra huvudningen i upphovsrättsklausulerna till GNU GPL, version 2 istället för den här Licensen. (Om det existerar en nyare version av GNU GPL än version 2, kan du ange den versionen i stället.) Du får inte granska andra ndringar i upphovsrättsklausulerna.</para>

<para>Nr ndringen har genomförs i en viss kopia, r den oterkallelig för denna kopia, så att GNU GPL gäller alla fljande kopior och hrledda verk som skapas från den copian.</para>

<para>Detta alternativ är användbart när du vill kopiera delar av Bibliotekets kod till ett program som inte r ett bibliotek.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Paragraf 4</title>

<para>Du kan kopiera och distribuera Biblioteket (eller del av det eller verk hrledda ur Biblioteket enligt paragraf 2) i objektkod eller krbar form enligt villkoren i paragraf 1 och 2 ovan under förutsättning att du bifogar den kompletta maskinlåsbara kllkoden, vilken mste distribueras i enlighet med paragraf 1 och 2 ovan, p ett medium som i allmänhet används för utbyte av programvara.</para>

<para>Om distribution av objektkod utförs genom att erbjudas tillgång till att kopiera den från en bestämd plats skall motsvarande tillgång till att kopiera kllkoden från samma plats rnas som distribution av kllkoden, även om tredjeman inte behöver kopiera kllkoden tillsammans med objektkoden.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Paragraf 5</title>

<para>Ett program som inte innehåller del som härfrån Biblioteket, men r skapat för att arbeta med Biblioteket genom att kompileras eller lnkas med det, kallas ett verk som använder Biblioteket. Ett sådant verk r i sig inte ett hrlett verk av Biblioteket och faller utanför licensens rckvidd.</para>

<para>Dremot r en lnkning av ett verk som använder Biblioteket med Biblioteket till en krbar fil en hrledning av Biblioteket eftersom det innehåller andra delar av Biblioteket snarare än ett verk som använder Biblioteket. Den krbara filen tcks i sådant fall av Licensen. I paragraf 6 beskrivs villkoren för distribution av sådana krbara filer.</para>
<para>Nr ett <quote>verk som använder Biblioteket</quote> använder material från en etikettfil som ingår i Biblioteket kan objektkoden från verket vara ett hustrat verk ur Biblioteket men om källkoden inte är det. Denna skillnad är särskilt viktig om verket kan inkas utan Biblioteket eller om verket i sig är ett bibliotek. Var gränsen gr är att detta skall vara ett faktum r inte exakt definierat i lagstiftningen.</para>

<para>Om en sänd objektfil endast använder numeriska parametrar, datastrukturlayouter, accessor-funktioner, korta makron och kortare inline-funktioner (tio rader eller kortare) r användningen av objektfilen obegränsad, oavsett om det lagligt sett är ett hustrat verk. (Kvärbar filer som innehåller objektkoden samt delar av Biblioteket faller nd under <link linkend="sect6">paragraf 6</link>.)</para>

<para>Om verket är en hustrad ur Biblioteket, kan du distribuera objektkoden från verket enligt villkoren i <link linkend="sect6">paragraf 6</link>. Samtliga kvärbara filer som innehåller det verket faller också under <link linkend="sect6">paragraf 6</link>, oavsett om de r inkad direktt till Biblioteket eller inte.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Paragraf 6</title>

<para>Undantag från paragraferna ovan kan gras för kombination eller inkning av ett <quote>verk som använder Biblioteket</quote> med Biblioteket att skapa ett verk som innehåller delar av Biblioteket samt distribution av verket enligt andra villkor, under frustration att villkoren tillnder ndningar i verket fr kundens egna kräningar och omvnt en möjlighet att ta bort ndningarna.</para>

<para>Varje kopia av verket maste tilljas av ett tydligt meddelande att Biblioteket anvunds i verket och att Biblioteket och dess användning tcks av den hr Licensen. Du mste bifoga en kopia av Licensen. Om verket under kräning visar upphovsrättsklauslar mste du ven inkludera upphovsrättsklauslar fr Biblioteket samt en referens till kopian av denna Licens. Du mste ven gra en av flängande saker: <orderedlist numeration="loweralpha">
<li><para id="sect6a">Bifoga den kompletta källkoden från Biblioteket i maskinsläbar form inklusive eventuella ndningar som anvnts i verket (vilka skall distribueras enligt paragraf <link linkend="sect1">1</link>) och <link linkend="sect2">2</link> ovan) samt, om verket r en kvärbar fil inkad till Biblioteket, det kompletta maskinslbara <quote>verket som använder Biblioteket</quote> som objektkod och/eller källkod, s att användaren kan ndra Biblioteket och sedan terlnka det fr att skapa en fnrad kvärbar fil innehållande det ndrade Biblioteket. (Dettta beror p att användaren som ndrar innehållet av definitionsfilerna i Biblioteket kanske inte kan kompilera om applikationen fr att använda de ndrade definitionerna.)</para></li>
<li><para>Använd en Implig delad biblioteksfunktion fr inkning med Biblioteket. En Implig funktion r en som (1) under kräningen anvender en redan befintlig kopia av biblioteket i stallet fr att kopiera biblioteksfunktioner till den kvärbara filen och (2) fungerar korrekt med en nrad version av biblioteket, om användaren installerar en, s lnge den nradade versionen r gnnsnittskompatibel med versionen som verket skapades fr.</para></li>
</orderedlist>

</sect2>

<para>Om distributionen av verket sker genom erbjudande av tillgång till kopiering från en beständig plats, erbjuds
motsvarande tillgång att kopiera de ovan nämnda materialen från samma plats.</para>
</listitem>
</listitem>
</para>
</orderedlist></para>

<para>Kontrollera att användaren redan har mottagit en kopia av materialen eller att du redan har skickat en kopia till denna användare.</para>
</listitem>
</orderedlist></para>

<para>Från kvarbara filer måste <quote>verket som använder Biblioteket</quote> innehålla samtliga data- och hjälpprogram som behövs för att skapa en kvarbar fil från den. Ett undantag kan dock gras från material som normalt distribueras, antingen i binär form eller källkod, med huvudkomponenterna (kompilator, källa osv.) i vilket den kvarbara filen krs, såvida inte denna komponent medföljer den kvarbara filen.</para>

<para>Det kan inträffa att detta krav motsvarar licensbegränsningarna i andra patentierade bibliotek som normalt inte medföljer operativsystemet. Sdana begränsningar innebär att du inte kan använda de patentierade biblioteken samtidigt med Biblioteket i en kvarbar fil som du distribuerar.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Paragraf 7</title>

<para>Du kan placera biblioteksfunktions också ett verk baserat på Biblioteket sida vid sida i ett enskilt bibliotek tillsammans med andra biblioteksfunktions som inte teks av Licensen, och distribuera ett sådant kombinerat bibliotek under frukttnng att separat distribution av verket baserat på Biblioteket och av de andra biblioteksmoduleerna är tillt, samt under frukttnng att du gr ngot av fljande:</para>

<orderedlist numeration="loweralpha">
<li><para>Bifogar en kopia av samma verk baserad på Biblioteket, men skild från andra biblioteksfunktions. Distributionen måste ske enligt villkoren i ovanstående paragrafer.</para></li>
<li><para>Meddelar tydligt i det sammansatta biblioteket att en del av biblioteket är ett verk baserat på Biblioteket samt förklarar var den medföljande separata versionen av samma verk kan terfinnas.</para></li>
</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title>Paragraf 8</title>

<para>Du får inte kopiera, ndra, licensiera, lnka till eller distribuera Biblioteket utom på det sätt som uttryckligen anges i Licensen. Alla andra frsk att kopiera, ndra, licensiera, lnka till eller distribuera Biblioteket är ogiltiga och upphvör automatiskt dessa rttigheter enligt Licensen. Tredje man som har mottagit kopior eller rttigheter från dig enligt Licensen kommer dock inte att frlora dessa rttigheter s Inge de fljere licensvillkoren.</para>

</sect2>


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<title>Paragraf 13</title>

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<sect2 id="sect14" label="14">
<title>Paragraf 14</title>

</sect2>

<sect2 id="sect15" label="15">
<title>INGEN GARANTI</title>

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<sect2 id="sect16" label="16">
<title>Paragraf 16</title>

<para>INTE I NGOT FALL, SVIDA INTE DET KRVS ENLIGT GLLANDE LAGSTIFTNING ELLER AVTALAS SKRIFTLIGT, SKALL EN UPPHOVSRRTTSINNEHAVARE ELLER ANNAN PART SOM KAN NDRA OCH/ELLER DISTRIBUERA BIBLIOTEKET ENLIGT OVAN, VARA SKYLDIG UTGE ERSTTNING
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announcement.
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</note>

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<para>, , ( . ) () .</para>

</sect2>

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<title> 3</title>

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</para>

<para>
In addition, mere aggregation of another work not based on the Program with the Program
(or with a work based on the Program) on a volume of a storage or distribution medium
does not bring the other work under the scope of this License.
</para>
</sect2>

<sect2 id="sect3" label="3">
<title>Seccion 3</title>
<para>
You may copy and distribute the Program (or a work based on it, under
<link linkend="sect2">Section 2</link>) in object code or executable form under the terms of
<link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that
you also do one of the following:

<orderedlist numeration="loweralpha">
<liitem>
<para>
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link
linkend="sect2">2</link> above on a medium
customarily used for software interchange; or,
</para>
</liitem>
<liitem>
<para>
Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</para>
</liitem>
<liitem>
<para>
Accompany it with the information you received as to the offer to distribute
corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
</para>
</liitem>
</orderedlist>
</para>

The source code for a work means the preferred form of the work for making modifications
to it. For an executable work, complete source code means all the source code for all modules
it contains, plus any associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special exception, the source
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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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</sect1>

<sect1 id="fdl-section1" label="1"

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<sect1 id="fdl-section2" label="2">
<title>COPIA LITERAL</title>
</sect1>

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<sect1 id="fdl-section3" label="3">
<title>COPIADO EN CANTIDAD</title>
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</sect2>

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<title> 8 </title>

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<title> 9 </title>

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<title> 10 </title>

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@section {sect11 label="11"}
<title>11</title>

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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Teoksen lhdekooodi tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Ajettavan teoksen tydellinen lhdekooodi tarkoittaa kaikkea lhdekoodia kaikkiin teoksen sisltmiin moduleihin ja lisksi kaikkiin sen mukana seuraaviin kyttliittymiedostoihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kntmist. Kuitenkin erityisen poikkeuksena levitetyn lhdekoodin ei tarvitse sislt mitn sellaista, mik yleens levitetn (joko lhdekoodi- tai binrimuodossa) kyttjirjestelmnk komponenttien (kntj, ydin, jne.) mukana, joidenpll teosta ajetaan,
ellei tllinen komponentti tule ajettavan teoksen mukana.</para>

<Jpara>Jos ajettavan tai objektikoodin levittminen tehdn tarjoamalla psy tietty It paikassa olevaan kopioon, tllin tarjoamalla vastaavasti psy samassa paikassa olevaan lhddekoodiiin luetaan lhddekoodian levittmiseksi, vaikka kolmansia osapuuia ei pakotettaisi kopioimaan lhddekoodia objektikoodin mukana.\</Jpara>

<sect2 id="sect4" label="4" title="Kohta 4"/>

<para>Ovutelmaan kopioiden, muuttaminen, lisensointi edelleen tai Ohjelman levittminen muuten kuin tnn Lisenssin ehtojen mukaisesti on kielletty. Kaikki yritykset muulla tavoin kopiooida, muuttaa, lisensoida edelleen tai levitt Ohjelmaa ovat ptemttmi ja johtavat automaattisesti tnn Lisenssin mukaisten oikeuksien pttymiseen. Sen sijaan ne, jotka ovat saaneet kopiota tai oikeuksia Lisenssin saajalta tnn Lisenssin ehtojen mukaisesti, eivt menet saamiaan lisensioituja oikeuksia niin kauan kuin he noudattavat nyt ehtoja.</para>

<sect2 id="sect5" label="5" title="Kohta 5"/>


<sect2 id="sect6" label="6" title="Kohta 6"/>

<para>Aina kun Ohjelman (tai Ohjelman perustuvaa teosta) levitetn, vastaanottajaa saa automaattisesti alkuperiselt tekijlt lisensin kopiooida, levitt ja muuttaa Ohjelmaa niden ehtojen ja edellytysten sitomina. Vastaanottajalle ei saa asettaa mitn lisrajoitteita tss annettujen oikeuksien kyt. Lisenssin saajalla ei ole vastuuta valvoa noudattavatko kolmannet osapuuia niin kuin
</para>

<sect2 id="sect7" label="7" title="Kohta 7"/>

<para>Jos oikeuden pts tai vte patentin loukkauksesta tai jokin muu syy (rajoittumattta patenttkysymyksiin) asettaa Lisenssin saajalle ehtoja (olipa niiden alkuper sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nyt lisenssihtoja, ne eivt anna oikeutta poiketa tss Lisenssist. Jos levittminen ei ole mahdollista siten, ett samanaikaisesti toimitaan sek tnn Lisenssin ett joidenkin muiden rajoittavien velvoitteiden mukaisesti, tllin Ohjelman ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salli kaikille niille, jotka saavat Ohjelman Lisenssin saajalta joko suoraan tai epsuorasti, Ohjelman levittmist edelleen ilman rojaltimaksuja, tllin ainut tapa tyy sek patenttilisenssin ett tnn Lisenssin ehdot on olla levittmtt Ohjelman lainkaan.</para>

<para>Jos jokin osa tss kohdasta katsotaan ptemttmksi tai mahdollomaksi vahvistaa oikeudessa joissakin tietyiss
Tmn kohdan tarkoitus ei ole johtaa siihen, että Lisenssin saaja rikkoisi mität patentit tai muuta varallisuusoikeutta tai viitt miten niden oikeuksien ptevyystest; tmn kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levitysjrjestelmän yhtenisyys, joka on luotu kytänn yleisi lisenssej. Monet ovat antaneet arvokkaan panoksensa mitä erilaisimpiin ohjelmiin, joita levitetään joko sen soveltamisen pysyvyyteen; on jokaisen tekijän ja lahjoittajan ptevallassa haluaako hn levittävän jossakin muussa jrjestelmss ja Lisenssin saaja ei voi vaikuttaa thn valintaan.</para>

Tmn kohdan tarkoituksena on tehdysin selvksi se, mik on tmn Lisenssin muiden osien seurauksena. 8

Jos patentit tai tekijänoikeudella suojatut kytänn ymmärtät Ohjelman levittämist tai kyttävän valtioiden kyttäjä, joka lisensoi ohjelmansa tll Lisenssin, on asetettava nimenomaista maantieteellisiä levitysrajoituksia, jolloin levittäminen on sallittu joko mukaan- tai poislukien n valtiot. Tllisess tapauksessa noll ratkaisu otetaan huomioon kuin ne olisi kirjoitettu tmn Lisenssin sekaan. 8

Jos patentit tai teknologioiden suojatut kytänn ymmärtät Ohjelman levittämist tai kyttävän valtioidensa kyttäjä, joka lisensoi ohjelmansa tll Lisenssin, on asetettava nimenomaista maantieteellisiä levitysrajoituksia, jolloin levittäminen on sallittu joko mukaan- tai poislukien n valtiot. Tllisess tapauksessa noll ratkaisu otetaan huomioon kuin ne olisi kirjoitettu tmn Lisenssin sekaan. 9

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  <listitem>
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      Accompany the work with the complete corresponding
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      Sections <link linkend="sect1">1</link> and
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      work that uses the Library, as object code and/or source
      code, so that the user can modify the Library and then relink to
      produce a modified executable containing the modified Library. (It is
      understood that the user who changes the contents of definitions files
      in the Library will not necessarily be able to recompile the application
      to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the
      Library. A suitable mechanism is one that (1) uses at run time a
      copy of the library already present on the user's computer system,
      rather than copying library functions into the executable, and (2)
      will operate properly with a modified version of the library, if
      the user installs one, as long as the modified version is
      interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at
      least three years, to give the same user the materials
      specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
      this distribution.
    </para>
  </listitem>
  <listitem>
    <para>
      If distribution of the work is made by offering access to copy
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</para>
</listitem>
<listitem>
<para>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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</orderedlist>
</para>

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</para>

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</para>

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<li>
</li>
</orderedlist>
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<para>
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</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Seccion 12</title>

<para>
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</sect2>

<sect2 id="sect13" label="13">
<title>Seccion 13</title>

<para>
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</sect2>

<sect2 id="sect14" label="14">
<title>Seccion 14</title>

<para>
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</sect2>

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<sect2 id="sect15" label="15">
<title>NO WARRANTY</title>
_subtitle>Seccion 15</subtitle>

<para>
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</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Seccion 16</title>

<para>
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</para>
</sect2>
</sect1>
</article>
Vsa dovoljenja GNU zagotavljajo svobodo razirjanja in spreminjanja.

Ko govorimo o prostih programeh, imamo v mislih svobodo, ne cene. Splošne dovoljenja GNU zagotavljajo pravico razirjanja kopij prosto programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvirne kode; pravico spreminjanja prosto programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznajanje z vsemi temi pravicami.
To dovoljenje, Manj splono dovoljenje, se nanaa na nekatere posebej zasnovane programske pakete - navadno knjinice - ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. Tudi vi ga lahko uporabljate, a najprej vam priporočamo, da glede na razlago spodaj pazljivo razmislite, ali je v doloenem primeru bolje uporabljati to dovoljenje ali morda navadno Splono dovoljenje.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavlja pravico razrijanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

Zaradi zavarovanja vaših pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v doloeno vao odgovornost, e razirjate kopije knjinice ali jo spreminjate.

Na primer, e razirjate kopije neke knjinice, bodisi zastoj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate sami. Prepriati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. e s knjinico povezujete drugo kodo, morate prejemnikom ponuditi popolne objektne datoteke, tako da jih lahko potem, ko knjinico spremenijo, vnovi poveejo s knjinico in prevedejo. In morate jim pokazati te pogoje (pravzaprav izvirnik, opomba prevajalca), da bodo poznali svoje pravice.

Vae pravice itimo v dveh potezah: (1) avtorsko zaitimo knjinico in (2) vam ponujamo to dovoljenje, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in spreminjanje knjinice.

Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programe opremo spremenil nekdo drug in ga posredoval naprej, elimo, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugled izvornega avtorja. Zaradi zaite vsakega razirjevalca elimo zagotoviti, da vsakdo razume, da za to prosto knjinico ni nikakrnega jamstva. e je knjinico spremenil nekdo in jo posredoval naprej, elimo, da njeni prejemniki vedo, da to, kar imajo, ni izvirnik, da problemi, ki jih povzroijo drugi, ne bodo kvarili ugleda izvornega avtorja.

Konno, vsak prost program nenehno ogroajo programski patenti. elimo se izogniti nevarnosti, da bi podjetja uklikirali omejevala uporabnikov programov s pridobivanjem omejajoocih licenc od lastnikov patentov. Za prepreitev tega jasno zahtevamo, da mora biti vsak patent za katerokoli izpeljano razliico knjinice licenciran tako, da je popolnoma konsistenten s popolno svobodo rabe, kot jo doloa to dovoljenje.

Veino programja GNU, vkljuno z nekaterimi knjinicami, pokriva navadno Splono dovoljenje GNU. To dovoljenje, Manj splono dovoljenje GNU, se nanaa na doloene posebne knjinice, in se precej razlikuje od navadnega Splonega dovoljenja. To dovoljenje uporabljamo za tiste knjinice, za katere elimo omogoiti tudi povezovanje v neproste programe.

Ko se program pove s knjinico, najsibo statino ali pa s pomojo deljene knjinice, je kombinacija obojega skupaj, pravno gledano, zdrueno delo, izpeljanka izvirne knjinice. Navadno Splono dovoljenje torej dovoljuje takno povezovanje le, e celotna kombinacija zadoa prav tam doloenim kriterijem svobode. Manj splono dovoljenje dovoljuje bolj ohlapne pogoje za povezovanje druge kode s knjinico.

Tem dovoljenju pravimo <quote>Manj</quote> splono dovoljenje, saj manj zavaruje svobodo uporabnika

Denimo, da v redkih primerih obstaja posebna potreba spodbuditi kar najiro rabo doloene knjnice, da bi ta postala de-facto standard. Da lahko to doseemo, mora biti neprostim programom dovoljeno uporabljati to knjico. Pogosteje se zgodi, da prosta knjica opravi enako delo kot iroko uporabljane neprote knjnice. V tem primeru pridobimo le malo, omejimo rabo proste knjnice le na prosto programje, zato raje uporabimo Manj splono dovoljenje.

V drugih primerih dovoljenje rabe doloene knjnice v neprostih programih omogo vejemu tevilu ljudi, da uporabljajo veji obseg prostega programja. Dovoljenje za uporabo knjnice GNU C v neprostih programih je, denimo, omogoilo mnogim ljudem, da so uporabljali popoln operacijski sistem GNU, kot tudi njegovo inaico, operacijski sistem GNU/Linux.

eprav Manj splono dovoljenje manj zaiti uporabnikovo svobodo, pa vendarle zagotavlja, da ima uporabnik programa, ki je povezan s knjico, proste roke pri poganjanju tega programa s spremenjeno razliico te knjnice.

Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med <quote>delom, ki temelji na knjinici</quote> in <quote>delom, ki uporablja knjiconic</quote>. Prvo vsebuje kodo, izpeljano iz knjinc, medtem, ko mora biti drugo kombinirano s knjiconic, da lahko tee.

</sect1>

DOLOILA IN POGOJI ZA RAZMNOEVANJE, RAZIRJANJE IN SPREMINJANJE

Razdelek 0

Ta licenca se nanaa na vsako programsko knjiconic ali drug program, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) ali druge pooblaene osebe, z izjavo, da se lahko razirja pod pogoji Manj splonega dovoljenja GNU (angl. Lesser General Public License), imenovanega tudi <quote>ta licenca</quote>. Vsakega izdajatelja licence naslavljamo z <quote>vi</quote>. Knjiconic pomeni zbirko programskih funkcij in/ali podatkov, pripravljenih tako, da jih je mo priirono povezovati z uporabnimi programi (ki uporabljajo nekatere teh funkcij in podatkov), da s tem oblikujemo izvedljive datoteke.

Knjiconic v nadaljevanju pomeni vsako takno programsko knjiconic ali delo, ki se razirja pod temi pogoji. Delo, ki temelji na knjiconici pomeni bodisi knjiconic ali pa katerokoli izvedeno delo po zakonu o avtorski in sorodnih pravicah (angl. copyright law): se pravi delo, ki vsebuje knjiconic ali njen del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitvev v pojem <quote>spremembe</quote>.)

Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri knjiconici pomeni izvorna koda vsa izvorno koda za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezanega s tem delom, ter skripte za nadzor prevajanja in namestitvij knjinic.
Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in spreminjanja; ostale so izven njegovega dosega. Dejanje zagona programa z uporabo knjinice ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina predstavlja delo, ki je izpeljano iz knjinice (ne glede na to, da je bila pri orodju za njegovo pisanje uporabljena knjiznica). Ali je to res ali ne, je odvisno od tega, kaj knjinica dela in kaj dela program, ki knjinico uporablja.</para>

Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanja jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja. Razmnoujete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanju jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

Za fizino dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plailo.</para>

Dovoljeno je spreminjati svoj izvod ali izvode knjinice ali katerega koli njenega dela, in tako narediti delo, ki temelji na knjinici, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega Razmnojete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanju jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

Spremenjeno delo mora biti programska knjiznica.</para>

Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena, in datum vsake spremembe.</para>

Zagotoviti morate, da je celotno delo brezplano licencirano tretjim osebam pod pogoji te licence.</para>

E se funkcionalnost v spremenjeni knjinici sklicuje na funkcijo ali tabelo podatkov, ki jih priskrbi uporabni program, to funkcionalnost uporablja, na drug nain kot argument ob klicu funkcionalnosti, morate v dobi veri poskrbeti, da tudi v primeru, ko program ne ponuja take funkcije ali tabele, funkcionalnost e vedno deluje, in izvaja katerikoli del svojega namena, ki e odvisno od programa. Podrazdelek 2.d. torej zahteva, da katerakoli funkcija ali tabela, ki jo glavni
program ponuja tej funkciji, ni obvezna za pravilno delovanje funkcije za izrauna kvadratnih korenov.)</para>

Te zahteve se nanaajo na spremenjeno delo kot celoto. E razdelki tega dela, ki jih je mogoe prepoznati, niso izpeljani iz knjine in jih je mogoe same po sebi utemeljeno obravnavati kot neodvisna in loen dela, potem to dovoljenje in njegova doloila za te razdelke ne velja, e jih razrirjate kot loen dela. E razrirjate iste razdelke kot dele celote, ki je delo, ki temelji na knjine, mora biti razriranje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja uporabe za druge uporabnike dovoljenja se razrirjo na vso celoto, in torej na vsak njen del, ne glede na to, kdo ga je napisal. </para>

Namen tega razdelka torej ni, da bi zanikal ali spodbijal vaе pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen razdelka raziriti pravico nadzora nad razriranjem izpeljanih ali zdruenih del, ki temeljijo na knjine.</para>

Poleg tega zgolj uvranje drugega dela, ki ne temelji na knjine, poleg knjine (ali poleg dela, ki temelji na knjine), na enoti nosilca ali mediju za razriranje, se dovoljenje na to drugo delo ne nanaa.</sect2>

Po elji lahko uporabite namesto tega dovoljenja za dani izvod knjine tudi pogoje navadnega Splonega dovoljenja GNU. E elite to storiti, morate spremeniti vsa sklicevanja na to dovoljenje tako, da se, namesto na to dovoljenje, sklicujejo na navadno Spono dovoljenje GNU (angl. GNU General Public License) razliice 2. (E obstaja razliica navadnega Splonega dovoljenja GNU tevilke, veje od 2, potem lahko, e tako elite, dolete to tevilko razliice.) V teh obvestilih ne spreminjajte niesar drugega.</sect2>

Ko se enkrat zgodi opisana sprememba za dani izvod, je za ta izvod to nepovratno, torej Splono dovoljenje GNU velja tudi za vse nadaljnje izvode in izpeljana dela, ki izvirajo iz tega izvoda.</sect2>

Ta monost je uporabna, e elite prepisati del kode knjine v program, ki ni knjinka.</sect2>

Knjino (ali delo, ki temelji na njej, pod doloili razmnoevati in razrirjati v objektini kod ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in 2, e jo pospremite s popolno ustrezno strojno berljivo izvorno kodo, ki mora biti razrirjana pod pogoji zgornjih razdelkov 1 in 2, na nosilcu, navadno uporabljanem za izmenjavo programja.</sect2>
Program, ki ne vsebuje izpeljanke nobenega dela knjnice, a je zasnovan tako, da deluje s to knjnicino tako, da je z njo preveden ali povezan, se imenuje "dela, ki uporabljalo knjnicino". Tako delo samo po sebi ni iz knjnice izpeljano delo, in torej ni predmet te licence. Vendar povezovanje "dela, ki uporabljalo knjnicino" uporablja snov material iz glave, ki je del knjnice, je lahko objektna koda za delo izpeljano delo iz knjnice, eprav morda izvorna koda ni. Ali je to res je posebej pomembno, e je delo mo povezati brez knjnice, ali pa je delo samo po sebi knjnicina. Zakon povsem ne doloa pogojev, pod katerimi to velja.

e takna objektna datoteka uporablja le numerine parametre, podatkovne strukture in naine dostopa, in male makroukaze in male vkljuene funkcije (dolge deset vrstic ali manj), potem uporaba objektne datoteke ni omejena, ne glede na to, da je pravno gledano to izpeljano delo. (Izvedljive datoteke, ki vsebujejo objektno kodo in dele knjnice, e vedno sodijo pod razd. 6.)

Kot izjemo glede na zgornje razdelke lahko tudi kombinirate ali povezujete "dela, ki uporabljalo knjnicino" s knjnicino, ki izdela delo, ki vsebuje dele knjnice, in razirjate to delo pod pogoji vsaj izbiri, e ti pogoji dovoljujejo spreminjanje dela za uporabnikovo lastno rabo in obratni ineniring za razhroevanje taknih sprememb.

Poleg vsakega izvoda dela morate dodati jasno obvestilo, da delo uporablja knjnicino in da rabo knjnice doloa ta licence. Oddati morate tudi izvod te licence. e delo med izvajanjem izpisuje pravice razirjanja za knjico, kot tudi sklic, ki usmerja uporabnika na izvod te licence. Narediti morate tudi eno od teh stvari: 

- Opremite delo s popolno ustrezno strojno berljivo izvorno kodo za knjico, vkljuno z vsemi spremembami v tem delu (ki mora biti razirjano pod pogoji zgornjih razdelkov) in kot objektno kodo in/ali izvorno kodo, tako da lahko uporabnik spremeni knjicino in potem vnovi povee program, da izdela spremenjeno izvedljivo datoteko, ki vsebuje spremenjeno knjicino. (Razume se, da uporabnik, ki spremeni vsebino definicijskih datotek v knjicini, morda ne bo mogel vnovi prevesti programa,
da bi uporabil spremenjene definicije.) </para>
</listitem>
</listitem>
</para>Za povezovanje s knjino uporabite primeren mehanizem deljenih knjinek. Primeren mehanizem (1) ob teku uporablja izvod programa, ki e obstaja v uporabnikovem raunalnikem sistemu, namesto, da bi prepisal knjine funkcijs v samo izvedljivo datoteko, in (2) pravilno deluje s spremenjeno razliico knjinek, e jo uporabnik namesti, e je le vmesnik spremenjene razliice združljiv z razliico, za katero je bilo delo izdelano.</para>
</listitem>
</listitem>
</para>Opremite delo s pisno ponudbo, veljavno vsaj tri leta, ki ponuja istemu uporabniku građiva, dobro v zgornjem <link linkend="sect6a">podrazdelku 6a</link>, proti plailu zneska, ki ne presega dejanskih strokov taknega razgibanja.</para>
</listitem>
</listitem>
</para>e se razrišanje dela izvede s ponujenim dostopom do izvoda z dolejnega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje zgoraj navedenih građiv z istega mesta teje kot razrišanje izvorne kode.</para>
</listitem>
</listitem>
</para>Preverite, da je uporabnik e prejel izvod teh građiv ali da ste temu uporabniku izvod e poslali.</para>
</listitem>
</orderedlist></para>
</sect2>

Pri izvedljivem delu mora zahtevana oblika <quote>dela, ki uporablja knjino</quote> vkljuevati vse podatke in pomone programe, potrebne za ponovno izdelavo izvedljive datoteke iz nje. Vendar - kot posebna izjema - ni nujno, da razrišano građivo vkljuje vse, kar se navadno razriše (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, itn.) operacijskega sistema, na katerem te izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko.

Lahko se zgodi, da te zahteve nasprotujejo licennim omejitvam drugih lastnikih knjinek, ki navadno ne spremljajo operacijskega sistema. Takno nasprotovanje pomeni, da jih ne morete uporabljati hkrati s knjino v izvedljivi datoteki, ki jo boste razrišali.

<sect2 id="sect7" label="7">
<title>Razdelek 7</title>

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e so vam, kot posledica presoje sodja ali suma kritve patenta ali iz kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo spotovanja pogojev tega dovoljenja. e knjinice ne morete razirjati tako, da hkrati zadostite svojim obvezam pod tem dovoljenjem in vsem drugim ustreznim obvezam, potem posledino sploh ne smete razirjati knjinice. Na primer, e patentno dovoljenje ne dovoli razirjanja knjinice brez plaevanja avtorskega honorarja vseh, ki prejmejo izvode neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju, ta, da se v celoti vzdrite razirjanja knjinice.

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<p>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnita pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema razirjanja proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.</p>

<p>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice preostalega besedila dovoljenja.</p>

<p>e sta razirjanje in/ali uporaba knjinice v doloenih dravah omejena, bodisi zaradi patentov ali avtorsko zaitenih vmesnikov, lahko izvorni lastnik ali lastnica avtorskih pravic, ki postavljaj knjinico pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak na in izkluene. V takem primeru to dovoljenje vkljuje omejitev, kot da so zapisane v besedilu tega dovoljenja.</p>

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Razdelek 16

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</listitem>

<listitem>
<para>Zachowa wymienion w <link linkend="fdl-document">Dokumencie</link> (jeli taka istniaa) informacj o lokalizacji sieciowej, publicznie dostpnej <link linkend="fdl-transparent">Jawnej</link> kopii Dokumentu, a take o podanych w Dokumencie lokalizacjach sieciowych poprzednich wersji, na ktorych zostay oparty. Informacje te mog si znajdowa w sekcji <quote>Historia</quote>. Zewała si na pominie lokalizacji sieciowej prac, ktre zostay wydane przynajmniej cztery lata przed samym Dokumentem, a take tych, ktrych pierwotny wydawca wyraa na to zgod.</para>
</listitem>

<listitem>
<para>W kadej sekcji zatytuowanej <quote>Podzikowania</quote> lub <quote>Dedykacje</quote> zachowa tytu i tre, oddajc rwnie ton kadego z podzikowa i dedykacji.</para>
</listitem>

<listitem>
<para>Zachowa wszelkie <link linkend="fdl-invariant">Sekcje niezmienne</link> w niezmienionej postaci (dotyczy zarwno treci, jak i tytuu). Numery sekcji i rwnowane im oznaczenia nie s traktowane jako nalece do tytuw sekcji.</para>
</listitem>

<listitem>
<para>Usun wszelkie sekcje zatytuowane <quote>Adnotacje</quote>. Nie musz one by zaczane w Zmodyfikowanej wersji.</para>
</listitem>

<listitem>
<para>Nie nadawa adnej z istniejcych sekcji tytu <quote>Adnotacje</quote> ani tytu pokrywajcego si z jakkolwiek <link linkend="fdl-invariant">Sekcji niezmienn</link>.</para>
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3. Det hr en frpliktelse fr dig att garantera att mottagaren kan f kllkoden eller kan f den om mottagaren s nskar.
4. Det hr en frpliktelse fr dig att garantera att mottagaren knner till sina rttigheter.
Varje upphovsmans skerhet och vr skerhet vill vi fr tydlighets skull klargra att det inte lmnas ngra garantier fr den hr fria programvaran. Om programvaran frnds av ngon annan n upphovsmannen vill vi klargra fr mottagaren att det som mottagen har r inte originalversionen av programvaran och att frndringar av och felaktigheter i programvaran inte skall belasta den ursprunglige upphovsmannen.

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Du ger kopiera och distribuera exakta kopior av Programvarans kllkod ssom du mottog den, i alla medier, frutsatt att Du tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantiavsgelse, vidhller alla hnvisningar till dessa licensvillkor och till alla garantiavsgelser samt att till alla mottagaren av Programvaran ge en kopia av dessa licensvillkor tillsammans med Programvaran.

Du ger utta en avgift fr mekaniseringen [att fysiskt fsta Programvaran p ett medium, ssom en diskett eller
Du ger ndra ditt exemplar eller andra kopior av Programvaran eller ngon del av Programvaran och drmed skapa ett Verk baserat p Programvaran, samt att kopiera och distribuera sdana fnrdrade versioner av Programvaran eller verk enligt villkoren i <link linkend="sect1">paragraf 1</link> ovan, frutsatt att du ocks uppfyller fljande villkor: <orderedlist numeration="loweralpha">

<li>Du tillser att de fnrdrade filerna har ett tydligt meddelande som berttar att Du ndrat filerna samt vilket datum dessa ndringar gjordes.</li>

<li>Du tillser att alla verk som du distribuerar eller offentliggr som till en del eller i sin helhet innehller eller r hrlett frn Programvaran eller en del av Programvaran, licensieras i sin helhet, utan kostnad till tredje man enligt dessa licensvillkor.</li>

<li>Om den fnrdrade Programvaran i sitt normala utfran kan utfra interaktiv kommandon nr det krs, mste Du tillse att nr Programmet startas skall det skriva ut eller visa, p ett enkelt tillgngligt stt, ett meddelande som tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantivsklausel (eller i frekommande fall ett meddelande som klargr att du tillhandahller en garanti) samt att mottagaren ger distribuera Programvaran enligt dessa licensvillkor samt bertta hur mottagaren kan se dessa licensvillkor. <note>Undantag:</note></li>

<li>Denna krav gller det fnrdrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Programvaran och skligen kan anses vara frstende och sjlvstndiga verk i sig, d skall dessa licensvillkor inte glla i de delarna nr de distribueras som egna verk. Men om samma delar distribueras tillsammans med en helhet som innehller verk som hrrr frn Programvaran, mste distributionen i sin helhet ske enligt dessa licensvillkor. Licensvillkoren skall i sdant fall glla fr andra licenstagare fr hela verket och slunda till alla delar av Programvaran, oavsett vem som r upphovsman till vilka delar av verket.</li>

<li>Den hr paragrafen skall slunda inte tolkas som att ansprk grs p rttigheter eller att ifrgastta Dina rttigheter till programvara som skrivits helt av Dig. Syftet r att tillse att rtten att kontrollera distributionen av derivativa eller samlingsverk av Programvaran.</li>

<li>Frekomsten av ett annat verk p ett lagringsmedium eller samlingsmedium som innehller Programvaran eller Verk baserat p Programvaran leder inte till att det andra verket omfattas av dessa licensvillkor.</li>

</orderedlist>
Du ger kopiera och distribuera Programvaran (eller Verk baserat på Programvaran) enligt villkoren i objektkod eller i kvar form enligt villkoren i paragraf 1 och 2 p ett medium som i allmnenhet använts fr utbyte av programvara, eller

Du bifogar den kompletta kllkoden i maskinlsbar form, som mste distribueras enligt villkoren i paragraf 1 och 2 p ett medium som i allmnenhet använts fr utbyte av programvara, eller

Du bifogar ett skriftligt erbjudande, med minst tre rs giltighet, att ge tredje man, mot en avgift som hgst uppgr till Din kostnad att utfra fysisk distribution, en fullstndig kopia av kllkoden i maskinlsbar form, distribuerad enligt villkoren i paragraf 1 och 2 p ett medium som i allmnenhet använts fr utbyte av programvara, eller

Du bifogar det skriftligt erbjudande Du fick att erhlla kllkoden. (Det hr alternativet kan endast anvandas fr icke-komersiell distribution och endast om Du erhllit ett program i objektkod eller kvar form med ett erbjudande i enlighet med b ovan.)

Kllkoden fr ett verk avser den form av ett verk som r att fredra fr att gra frndringar av verket. Fr ett kvar verk avser kllkoden all kllkad fr moduler det innehller, samt alla tillhrande grsnittsfiler, definitioner, skripten fr att kontrollera kompilering och installation av den kvar Programvaran. Ett undantag kan dock gras fr sdant som normalt distribueras, antingen i binr form eller som kllkad, med huvudkomponenterna i operativsystemet (kompilator, kna och s vidare) i vilken den kvar Programvaran krs, om inte den hr komponenten medfljer den kvar Programvaran.

Om distributionen av kvar Programvara eller objektkod gres genom att erhjula tillgng till att kopiera frn en bestmd plats, d skall motsvarande tillgng till att kopiera kllkoden frn samma plats knas som distribution av kllkoden, ven om tredje man inte behver kopiera kllkoden tillsammans med objektkoden.

Du lggs inte att acceptera licensvillkoren, d du inte har skrivit under det hr avtalet. Du har dock ingen rtt

<sect2 id="sect6" label="6">
<title>Paragraf 6</title>

<para>Var gng du distribuerar Programvaran (eller Verk baserat p Programvaran), kommer mottagaren per automatik att f en licens frn den frsta licensgivaren att kopiera, distribuera eller ndra Programvaran enligt dessa licensvillkor. Du ger inte lgga mottagaren ngra andra restriktioner n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer licensvillkoren.</para>

<sect2 id="sect7" label="7">
<title>Paragraf 7</title>

<para>Om Du p grund av domstolsdom eller anklagelse om patentintrng eller p grund av annan anledning (ej begrnsat till patentfrgor), Du fr villkor (oavsett om de kommer via domstols dom, avtal eller p annat stt) som strider mot dessa licensvillkor s fntar de inte Dina frpliktelser enligt dessa licensvillkor. Om du inte kan distribuera Programvaran och samtidigt uppfylla licensvillkor och andra skyldigheter, fr du som en konsekvens inte distribuera Programvaran. Om exempelvis ett patent gr att Du inte distribuera Programvaran fritt till alla de som mottager kopior direkt eller indirekt frn Dig, s mste Du helt sluta distribuera Programvaran.</para>

<para>Om delar av den hr paragrafen frklaras ogiltig eller annars inte kan verkstllas skall resten av paragrafen ga fortsatt giltighet och paragrafen i sin helhet ga fortsatt giltighet i andra sammanhang.</para>

<para>Syftet med den hr paragrafen r inte att frm Dig att beg patentintrng eller att beg intrng i andra rttigheter eller att frm Dig att bestrida giltigheten i sdana rttigheter. Den hr paragrafen har ett enda syfte, vilket r att skydda distributionssystemet fr fri programvara vilket gers genom anvndandet av dessa licensvillkor. Mnga har bidragit till det stora utbudet av programvara som distribueras med hjlp av dessa licensvillkor och den fortsatta giltigheten och anvndningen av det hr systemet, men det r upphovsmannen sjlv som mste besluta om han eller hon vill distribuera Programvaran genom det hr systemet eller ett annat och en licenstagare kan inte tvinga en upphovsman till ett annat beslut.</para>

<para>Den hr paragrafen har till syfte att stlla det utom tvivel vad som anses flja av resten av dessa licensvillkor.</para>

<sect2 id="sect8" label="8">
<title>Paragraf 8</title>

<para>Om distributionen och/eller anvndningen av Programvaran r begrnsad i vissa lnder p grund av patent eller upphovsrtsligt skyddade grnssnitt kan upphovsmannen till Programvaran lgga till en geografisk spridningsklausul, enligt vilken distribution r tillten i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnsningen att utgra en fullvrdig del av licensvillkoren.</para>
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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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2. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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    <para>Ange namnet p utgivaren av den <link linkend="fdl-modified">frndrade versionen</link>, som utgivare, p <link linkend="fdl-title-page">titelsidan</link>.</para>
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    <para>Bibehlla <link linkend="fdl-document">dokumentets</link> alla upphovsrtsklausuler.</para>
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    <para>Lgga till en upphovsrtsklausul fr dina frndringar angrnsande till de andra upphovsrtsklausulerna.</para>
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  <listitem>
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D n Ti liu GNOME

2.1

1999-02

Phin bn 2.1, thng 2/1999

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm . Tri li, cc Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dng.

Mi ngi u uc quyn sao chp v phn phi nguyn vn ti liu giy php ny, nhng khng c php thay i n.

Giy php ny, Giy php Cng cng Ph, p dng cho mt s gi phn mm ch r c bit thng th vin ca T che Phn mm T do v cc tc gi ke chn s dng n. Bn cng c th s dng n, nhng trc tin ngh bn ngh cn thn nu giy php ny hay Giy php Cng cng chun l chin lc tt hn trong trng hp ring no, da vo ce li gi thch bn di.

Khi chng ti ni v phn mm t do, chng ti cp n s t do s dng, ch khng phi l gi c. Cc Giy php Cng cng ti c thit k m bo bn c quy t do phht hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm . Tri li, cc Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dng.

Khi chng ti ni v phn mm t do, chng ti cp n s t do s dng, ch khng phi l gi c. Cc Giy php Cng cng ca chng ti c thit k m bo bn c quy t do phht hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm
những iu ny.</para>

<para>bo v quyn li ca bn, chng ti cn a ra những hn ch cm bt c ai ph nhn bn c những quyn ny hay i hi bn t b n. Những s hn ch ny c hiu l mt s trch nhm nh thit ca bn nu bn pht hnh bn sao ca th vin hoc sa i n.</para>

<para>Chng hn, nu bn pht hnh bn sao ca th vin nh vy, d l cho khng hay thu tin, bn phi trao cho ngi nhn tt c những quyn bn c. Bn phi chc chn l h cng nhn c hay c th ly m ngun. Nu bn lin kt m ngun khec vi th vin, bn phi cung cp cc tp tin i ting hon thnh cho ngi nhn, h c th ln kt li tp tin nh vy vi th th vin ri bin dch li. V bn cng phi cho h bit những iu kin ny, h bit những quyn ca h.</para>

<para>Chng ti bo v quyn ca bn bng mt phng php hai be: (1) chng ti bn quyn tc gi ca th vin, v (2) chng ti trao cho bn giy php ny bn c quyn hp php sao cph, pht hnh v/hay sa i th vin.</para>

<para>Hn na, bo v mi ngi pht hnh, chng ti mun chc chn l mi ngi hiu rng th vin t do ny khng c bo hnh. Nu th vin b sa i bi ngi khec v c phn phpt tip, chng ti mun ngi nhn bit rng ci m h c khng phi l bn gc, v vy, bt k li no do ngi khec gy ra s khng lm mang ting n tc gi gc.</para>

<para>Cui cng, chng trnh t do no cn lgn b e da bi bng sng ch phn mm. Chng ti mun chc chn l cng ty khng th gii hn c cc ngi dng chng trnh t do, bng cch ginh c giy php hn ch t ngi gi sng ch. V vy chng ti c nth nh giy php sng ch no c ginh cho mt phin bn ca th vin ny phi ph ph vi ton b quyn t do c ghi r trong giy php ny.</para>

<para>Phn ln phn mm GNU, gm c mt s th vin, c bao cut bi Giy php Cng cng GNU chun. Giy php ny, Giy php Cng cng Ph GNU, p dng cho mt s th vin xe nh: n rt khec vi Giy php Cng cng GNU chun. Chng ti s dng giy php ny cho mt s th vin ring, cho php kh nng lin kt th vin nh vy vo chng trnh khec t do.</para>

<para>Khi chng trnh c lin kt vi th vin, bt chp mt cch trnh hay bng th vin dung chung, s kt hp hai iu ny ni hp php l mt sn pm h kp hn, sn pmhn xut th vin gc. Giy php Cng cng GNU chun th cho php kh nng lin kt nh vy ch nu ton b s kt hp tho t iu cho t quyn t do ca n. Giy php Cng cng Ph GNU cho php t iu cho t nng lo hn lln kt m ngun khec vi th vin.</para>

<para>Chng ti gi giy php ny Giy php Cng cng &lt;quote&gt;Ph&lt;/quote&gt; v n lt bo v quyn t do ca ngi dng hnh Giy php Cng cng chun. N cng cung cp cho cc nh ph trnh phn mm t do th li hn chng trnh khec t do cnh trnh. Những nhc im ny i l l do chng ti s dng Giy php Cng cng chun cho rt nhiu th vin. Tuy nhn, giy php fh cng cp l ci ch trong mt s trng h cp bit.</para>

<para>Chng hn, rt t ln c nh cu c bit h tr cch s dng rng ri nth c th mt th vin no , n tr thnh mt t iu chnh nh th. t me ch ny, cc chng trnh khec t do cng phi c quyn s dng th vin. M trng hpy ra nhun ln hln th vin t do lm cng mt cng vic vi th vin khec t do c s dng rng ri. Trong trng hp ny, khng c li ch nhiu khi gii hn th vin t do trong ch phn mm t do, v th chng ti s dng Giy php Cng cng Ph.</para>

<para>Trong trng hp khec, quyn s dng mt th vin no trong chng trnh khec t do cng cho rt nhiu ngi c kh nhng s dng mt tp phn mm t do rt ln. Chng hn, quyn s dng Th vin C ca GNU trong cc chng trnh khec t do th cho rt nhiu ngi thm c kh nhng s dng ton b h iu hhnh GNU, cng nh bin th ca n, h iu hhnh GNU/Linux.</para>

<para>Mc d Giy php Cng cng Ph lm thn bo v quyn t do ca ngi dng, n c phi m bo rng ngi dng chng trnh c lin kt vi Th vin c quyn t do v kh nhng chy chng trnh , bng mt phin bn sa i ca Th vin.</para>

<para>Theo y c những iu kin chnh xc sao cph, pht hnh v sa i. Hy tp trung cn thn s khec bit gia &lt;quote&gt;mt sn pmh da
vo th vin</quote> v <quote>mt sn phm s cng th vin</quote>. iu trc cha m bt ngun t th vin, cn iu sau phi c kt hp vi th vin c</quote>.<para></para>

</sect1>

</sect1 id="terms" label="none">
<title>IU KIN SAO CHP, PHT HNH V SA I</title>

</sect2 id="sect0" label="0">
<title>Phn 0</title>

<para>i u kin Quyn ny p dng cho bt k th vin phn mm hay chng trnh khc m cha mt thng bo c chn vo bi nghi gi te quyn hay bt k bn c quyn ni rng c th c phn hnh theo cc iu khon ca Giy php Cng cng Ph ny (cng c gi nh l <quote>Giy php ny</quote>). Mi nghi c cp bn quyn c gi l <quote>bn</quote>.</para>

<para>Mt <quote>th vin</quote> ngha l mt tp hp cc hm phn mm v/hay d liu c chun b c lin kt tin li vi chng trnh ng dng (m s dng mt s hm v d liu trong tp hp ny) xy dng tp tin c kh nng the hin.</para>

<para>Th vin</quote> di y c ngha l bt k th vin phn mm hay sn phm nh vy c phn hnh theo cc iu khon ny. Mt <quote>sn phm da trn Th vin</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quyn: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng nguyn vn hoc vi s i v/hoc c dch sang mt ng nguyn nh c kho. (K t cu ny, vic dch ng nguyn c bao gm v hn trong thut ng <quote>sa i</quote>.)</para>

<para>M ngun</quote> ca sn phm c ngha l dng the sn phm c a thch khi sa i n. i vi th vin, ton b m ngun c ngha l t c cc m ngun cho mi m-un cha, cng vi bt c tp tin xc nh gia din tng ng, cng vi cc vn lnh c dng iu khin tin trnh bin dch v c i th vin.</para>

<para>Nhng hot ng khc ngoi s sao chp, phn hnh v sa i kho ng c kim sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Th vin khng bh bn ch, v d liu xut t Th vin ch bh khng ch hu ni dung ca n to thnh mt sn phm da vo Th vin (khng ph thuc vo vie c dng Th vin nh l cng c nghi n). iu ng hay khng ph thuc vo iu m Th vin to ra, v iu m chng trnh s dng Th vin to ra.</para>

</sect2>

</sect2 id="sect1" label="1">
<title>Phn 1</title>

<para>Bn c quyn sao chp v phn hnh bn sao ng nguyn vn ca ton b m ngun ca Th vin nh bn nhn n, bng bt k cch no, min l bn cng b r rng v thc ng trn mi bn sao mt thng bo tc quyn thch hp v min tr bo hnh; gi nguyn vn mi thng bo lin quan n Giy php ny v min tr bo hnh; v a cho nhng nghi nhn Chng trnh khc mt bn sao ca Giy php cng vi Th vin.</para>

<para>Bn c th thu ph cho vie gi bn sao, v bn c th ty ngh cng cp dch v bo hnh c thu ph.</para>

</sect2>

</sect2 id="sect2" label="2">
<title>Phn 2</title>

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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</para>

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</para>

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</para>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>Phn 3</title>

Bn c th chn p dtng cc iu kin ca Giy php Cng cng GNU chun, thay cho Giy php ny, cho mt bn sao no ca Th vin. lm nh th, bn phi thay i mi thng bo cp Giy php ny. cp Giy php Cng cng GNU chun, phin bn 2, thay cho Giy php ny. (C phin bn mi hn ca Giy php Cng cng GNU chun th bn c th ghi r phin bn thay th, nu bn mun.) ng thay i g khc trong nhng thng bo ny.</para>

Mt khi lm thay i ny trong bn sao no, khng th o ngc li cho bn sao , v th Giy php Cng cng GNU chun p dng cho tt cc bn sao ph v sn phm bt ngun t bn sao .</para>

Ty chn ny khng c ch khi bn mun sao chp phn m ngun ca Th vin vo mt chng trnh khng phi l th vin.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Phn 4</title>

Bn c quyn sao chp v pht hnh Th vin (hoc on no ca n hoc sn phm da vo n, di linkend="sect2">Phn 2</link>) trong dng thc m i ng hay tp tin chy c vi iu kin ca linkend="sect1">Phn 1</link> v link linkend="sect2">2</link> bn trn, min l bn km theo ton b m ngun ng m my c th c c, c pht hnh vi iu kin ca Phn link linkend="sect1">1</link> v link linkend="sect2">2</link> bn trn, trn thit b lu tr thng dng trao i phn mm.</para>
Nu vic pht hnh m i tng c lm bng cch trao truy cp sao chp t mt ni xc nh, th vic trao cc truy cp sao chp tng ng n m ngun t c th hn m ngun, mc d ngi khc khng bt bng phi sao chp m ngun cng vi m i tng.

Mt chng trnh khng cha sn phm bt ngun t bt c on no ca Th vin, cn c thit k lm vic vi Th vin bng cch c bin dch hay lin kt vi n, c gi l quote>sn phm s dng Th vin</quote>. Sn phm nh vy, c lp khng phi l sn phm bt ngun t Th vin th nm ngoi phm vi ca Giy php ny.

Ngoi l nhng Phn trn l bn cng c th kt hp hay lin kt mt <quote>sn phm s dng Th vin</quote> vi Th vin to mt sn phm cha on ca Th vin, ri pht hnh sn phm di cc cu khon bn chn, min l iu khon ny cho php sa i sn phm cho ngi khch s dng ring, v cho php thit k i chiu g li trong s sa i nh vy.
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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C th xy ra rng iu kin ny mu thun s hn ch giy php ca th vin s hu khu khang bnh thng km theo h iu hnh. S mu thun nh vy c ngha l bn khu kh th d s dng c th vin nh vy v Th vin u trong tp tin chy c bn pkt hnh.

Bn c th chc nng th vin l sn phm da vo Th vin cnh nhau trong mt th vin ring l, cng vi cc chc nng th vin khang c bao qut giy php ny, v pkt hnh th vin kt hp nh vy, min l cho php pkt hnh ring sn phm s dng Th vin v chc nng th vin khc, v min l bn lm hai vic ny.

Khng cho php bn sao chp, sa i, lin kt vi hay pkt hnh Th vin, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph, lin kt vi hay pkt hnh Th vin bng cch khe b bi b, v s t ng kt th cc quyn ca bn di Giy php ny. Tuy nhin, nghi chc nhu bn sao hay quyn t bn di Giy php ny s khang b nh hng, min l h tip tc tun theo hon ton.

Bn khng bt buc phi chp nhu Giy php ny, v bn cha k tn vo n. Tuy nhin, khng c g khc cho php bn sa i hay pkt hnh Th vin hay sn phm bt ngun t n. Cc hnh ng ny b php lut cm nu bn khng chp nhu Giy php ny. V vy, bng cch sa i hay pkt hnh Th vin (hay sn phm da vo n), bn ng s chp nhu Giy php ny lm nh th, gm mi iu kin sao chp, pkt hnh hay sa i Th vin hay sn phm da vo n.
Phần 10

Mi ln bn ph t hnh li Th vin (hay sn phm da vo Th vin), ngi nhn c th nhn t ng mt giy php t ngi cp ge, sao chp, ph t hnh, ln kt vi hay sa i Th vin vi u kin ny. Khng cho php bn bn ch thm cch dni sng s nng cc quyn c cp trong Giy php ny. Bn cng khng phi chu trch nhim v vie p buc ngi khc tun theo iu kin ca Giy php ny.</p>

Phần 11

Nu, do kt qu ca quyt nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gii hn trong vn bng sng ch), bn b p buc chp nnh u kin (hoc v quyt nh ca to n, s tho thun hoc cch ch no) m mu thun u kin ca Giy php ny, trng hp ny khng min cho bn khng phi tha mn u kin ca Giy php ny. Nu bn khng th ph t hnh bng cch tha mn ng thi cc gia o c ca bn di Giy php ny v bt k gia o c thch hp khc, th kt qu l khng cho php bn ph t hnh Th vin bng cch no c. Ly th d, nu mt bng sng ch no khng cho php s ph t hnh li Th vin mt cch min tin bn quyn php thinh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nh bn c th th th c bng v Giy php ny l hon ton khng ph t hnh Th vin.</p>

Phần 12

Nu on no trong phn ny c quyt nh l khng hp l Hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p dng c, v ton b phn d nh p dng trong cc trng hp khc.</p>

Phần 13

T chc Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng Ph GNU. Phin bn mi nh vy s c tinhn thng t vi phin bn hin thi, nhng c th khc bit trong chi tit giy quyt vn mi.</p>
v bt k phin bn sau no

Nu bn mun hp nht phn no ca Th vin vo chng trnh t do k hc c iu kin pht hnh khi ng thc vi Giy php ny, hy xin php tc gi. i vi phn mm c bn quyn tc gi ca T che Phn mm T do, hy vit th cho T che Phn mm T do : thng thong chng ti cho php ngoi l trong trnh hp ny. Quy nh ca chng ti s c hng dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt ngun t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt ch chung.

V TH VIN  C CP PHP MIN PH, KHNG C BO HNH I VI TH VIN NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP TH VIN NY <quote>NH TH</quote>, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP V I MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA TH VIN NY BN S T CHU. NU TH VIN NY GY RA H HNG, BN GNH VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.

KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG TH VIN NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HNG HN C TH VIN NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.

KHNG BO HNH

KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG TH VIN NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HNG HN C TH VIN NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.
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Versión 2, Junio de 1991

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1.634 liblouis 2.5.2-12.el7_4

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Pod::Spec.new do |s|
  s.name = "DCPathButton"
  s.version = "2.1.1"
  ssummary = "A beautiful button copy from Path®"
end

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DCPathButton is a menu button, design by an App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

s.description = "https://github.com/Tangdixi/DCPathButton"

s.license = {
:type => 'MIT',
:text => 'The DCPathButton use the MIT license'
}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.{h,m}'

s.resources = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end

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## DCPathButton

The DCPathButton use the MIT license

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
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1.642 wstx-asl 3.2.3

1.643 icu 64

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(@) $(GEN_DEPS.c) $(srcdir)/%.c | sed 's/$@/\n\n' -s si-g/g' > $@; \
  -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(@) $(GEN_DEPS.cc) $(srcdir)/%.cpp | sed 's/$@/\n\n' -s si-g/g' > $@; \
  -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $< $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'

STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

### 1.644 hibernate-entitymanager 4.2.15.Final

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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are
attributed in log entries. Likewise in the FAQ file.

Ben Elliston
bj@cygnus.com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.

Ross Johnson
pj@callisto.canberra.edu.au
early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.

Robert Colquhoun
rjc@trump.net.au
Early bug fixes.

John E. Bossom
john.d.bossom@cognos.com
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.

Anders Norlander
anorland@hem2.passagen.se
Early enhancements and runtime checking for supported
Win32 routines.

Tor Lillqvist
tml@iki.fi
General enhancements;
early bug fixes to condition variables.

Scott Lightner
scott@curriculum.com
Bug fix.

Kevin Ruland
kevin.ruland@anheuser-busch.com
Various bug fixes.

Mike Russo
miker@eai.com
Bug fix.

Mark E. Armstrong
avail@pacbell.net
Bug fixes.

Lorin Hochstein
lmh@xiphos.ca
general bug fixes; bug fixes to condition variables.

Peter Slacik
peter.dot.slacik@tatramed.sk
Bug fixes.

Mumit Khan
khan@xraylith.wisc.edu
Fixes to work with Mingw32.

Milan Gardian
mg@tatramed.sk
Bug fixes and reports/analyses of obscure problems.

Aurelio Medina
aureliom@crt.com
First implementation of read-write locks.

Graham Dumpleton
Graham.dumpleton@ra.dot.pad.dot.ote.dot.telstra.dot.com.au
Bug fix in condition variables.

Tristan Savatier
tristan@mpegtv.com
WinCE port.
Erik Hensema <erik@hensema.xs4all.nl>
Bug fixes.
Rich Peters <micro-magic.com>
Todd Owenton <lucidcalm.dropbear.id.au>
Bug fixes to dll loading.
Jason Nye <nbnet.nb.ca>
Implementation of async cancelation.
Fred Forester <etcomm.net>
Kevin D. Clark <cabletron.com>
David Baggett <itasoftware.com>
Bug fixes.
Paul Redondo <matchvision.com>
Scott McCaskill <3dfx.com>
Bug fixes.
Jef Gearhart <tpsys.com>
Bug fix.
Arthur Kantor <bexusa.com>
Mutex enhancements.
Steven Reddies <essemer.com>
Bug fix.
Alexander Terekhov <terekhov.de.ibm.com>
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff <gmx.net>
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bez <gmx.de>
procedure to fix Mingw32 thread-safety issues.
Louis Thomas <arbitrade.com>
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korn <research.att.com>
Ported to UWIN.
Phil Frisbie, Jr <hawksoft.com>
Bug fix.
Ralf Brese <brese@pdb4.siemens.de>
Bug fix.
prionx <juno.com>
Bug fixes.
Max Woodbury mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerrfaner at stonethree dot com
Bug fix.
Michael Johnson michaelj at maine dot rr dot com
Bug fix.
Nicolas Barryboozai at yahoo dot com
Bug fixes.
Piet van Bruggenpietvb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukaspeh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryant will dot bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyal anuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Fregeottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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## -*-makefile-*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
 | sed "\(^\s\([^\"]*\)\)\.o[ ]*:\]*/\1\.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
 | sed "\(^\s\([^\"]*\)\)\.o[ ]*:\]*/\1\.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).%$(SO_TARGET_VERSION_MAJOR): %.$(SO).%$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).%$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).%$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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1.3 Can I make the fonts available to others from my web site?
Yes, as long as you meet the conditions for use (include the necessary files, don't abuse the Author(s)' names, rename Modified Versions, do not sublicense and do not sell by itself).

1.4 Can the fonts be included with free and open source software distributions (such as GNU/Linux and BSD distributions)?
Yes! The OFL is compatible with most FLOSS (Free/Libre and Open Source Software) licenses. You can also
repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distro CD/DVDs and online repositories.

1.5 I want to distribute the fonts with my program. Does this mean my program also has to be free and open source software?
No. Only the portions based on the font software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling also with software under restricted licensing.

1.6 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.7 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Standard Version and a Modified Version. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, edutainment software, etc.

1.8 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential income to distribute their fonts under the OFL. Please honor and respect their contribution!

1.9 I've come across a font released under the OFL. How can I easily get more information about the Standard Version? How can I know where it stands compared to the Standard Version or other Modified Versions?
Consult the copyright statement in the license for how to contact the original authors. Consult the FONTLOG for information on if and how the font differs from the Standard Version, and get in touch with the various contributors via the information in the acknowledgment section. Please consider using the Standard Versions of the fonts whenever possible.

1.10 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the authors should not be used in a way that makes it sound like the original authors endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the authors in a listing of software features, or to promote a Modified Version on a web site by saying "designed by...". However, it would be appropriate to acknowledge the authors if your software package has a list of people who deserve thanks. We realize that this can seem to be a gray area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the authors it is allowed, but if it primarily benefits other parties, or could reflect poorly on the authors, then it is not.

2 ABOUT MODIFYING OFL LICENSED FONTS

2.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you could not remove the copyright statement from the font, but you could add additional information into it that covers your contribution.

2.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

2.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

2.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefitted from the contributions of others.

2.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefitted from the contributions of others.

2.6 Do I have to make any derivative fonts (including source code, build scripts, documentation, etc.) publicly available?
No, but please do share your improvements with others. You may find that you receive more than what you gave in return.

2.7 Why can't I use the Reserved Font Name(s) in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Name(s) ensure that the only fonts that have the original names are the unmodified Standard Versions. This eliminates potential confusion and name conflicts. When choosing a name be creative and try to avoid names that sound like the original. Keep in mind that the copyright holder can allow a specific trusted partner to use Reserved Font Name(s) through a separate written agreement.

2.8 What do you mean by "references stored in the Font Software"? Do I have to delete every reference to the Reserved Font Name(s) from inside every file I modify?
No, not every reference. It would be fine, for example, to keep a text reference to the original fonts in your modified source code, as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder allows it through a separate agreement, see section 2.7). Users who install derivatives ("Modified Versions") on their systems should not see any of the original names ("Reserved Font Names") in their font menus, font properties dialogues, PostScript streams, documents that refer to a particular font name, etc. Again, this is to ensure that users are not confused and do not mistake a font for another and so expect features only another derivative or the Standard Version can actually offer. Ultimately, creating name conflicts will cause many problems for the users as well as for the designer of both the Standard and derivative versions, so please think ahead and find a good name for your own derivative. Font
substitution systems like fontconfig, OpenOffice.org or Scribus will also get very confused if the name of the font they are configured to substitute to actually refers to another physical font on the user's hard drive. It will help everyone if Standard and derivative fonts can easily be distinguished from one another, and from other derivatives.

2.9 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge the authors and other contributors. Please use it! See below for details on how changes should be noted.

2.10 Am I required to update the FONTLOG?
No, but users, designers and other developers might get very frustrated at you if you don't! People need to know how derivative fonts differ from the originals, and how to take advantage of the changes, or build on them.

3 ABOUT THE FONTLOG

The FONTLOG can take a variety of formats, but should include these four sections:

3.1 FONTLOG for <FontFamilyName>
This file provides detailed information on the <FontFamilyName> font software. This information should be distributed along with the <FontFamilyName> fonts and any derivative works.

3.2 Basic Font Information
(Here is where you would describe the purpose and brief specifications for the font project, and where users can find more detailed documentation. It can also include references to how changes can be contributed back to the Standard Version. You may also wish to include a short guide to the design, or a reference to such a document.)

3.3 ChangeLog
(This should list both major and minor changes, most recent first. Here are some examples:)

1 Feb 2005 (Jane Doe) <NewFontFamilyName> Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "<NewFontFamilyName>"

1 Jan 2005 (Joe Smith) <FontFamilyName> Version 1.0
- Initial release of font "<FontFamilyNames>"

3.4 Acknowledgements
(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - Misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - Original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - Original Roman glyphs

(Original authors can also include information here about their organization.)

4 ABOUT MAKING CONTRIBUTIONS

4.1 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back to what you've received. Providing your contributions and improvements to the fonts and other components (data files, source code, build scripts, documentation, etc.) could be a tremendous help and would encourage others to contribute as well and 'give back', which means you will have an opportunity to benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that when you contribute.

4.2 I've made some very nice improvements to the font, will you consider adopting them and putting them into future Standard Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes (the use of a centralized or distributed source revision control system like subversion or arch is a good idea). Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them).

4.3 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Standard Versions.

5 ABOUT THE LICENSE

5.1 I see that this is version 1.0 of the license. Will there be later changes?
We hope that version 1.0 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

5.2 Can I use the SIL Open Font License for my own fonts?
Yes! We heartily encourage anyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom with some protection for the original authors and clear rules for other contributors. Some additional information is included at the end of this FAQ.

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No. The Copyright Holder still retains all rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder can do this.

5.4 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

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6.1 Who is SIL International and what does it do?
SIL International is a worldwide faith-based education and development organization (NGO) that studies, documents, and assists in developing the world's lesser-known languages through literacy, linguistics, translation, and other academic disciplines. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL's members and volunteers share a Christian commitment.

6.2 What does this have to do with font licensing?
The ability to read, write, type and publish in one's own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack) so SIL developed the SIL Open Font License.

6.3 How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (including contact email information) is at: http://scripts.sil.org/OFL
7 ABOUT USING THE OFL FOR YOUR ORIGINAL FONTS

If you want to release your fonts under the OFL, you only need to do the following:

7.1 Put your copyright and reserved names information in the beginning of the main OFL file.
7.2 Put your copyright and the OFL references in your various font files (such as in TrueType name, description and license fields) and in your other components (build scripts, glyph databases, documentation, keyboard, samples, etc).
7.3 Write an initial FONTLOG for your font and include it in the release package.
7.4 Include the OFL in your release package.
7.5 We also highly recommend you include the relevant practical documentation on the license by putting the OFL-FAQ in your package.

That's all. If you have any more questions please get in touch with us.

Found in path(s):
* /opt/cola/permits/1000619291_1611883575.6/0/jomolhari-fonts-0.003-17.el7-1.src.rpm-cosi-expand-archive-PcYGtsvZ/jomolhari-alpha003c.zip-cosi-expand-archive-zbpPzmSu/OFL-FAQ.txt
No license file was found, but licenses were detected in source scan.

FONTLOG
Gentium font family

This file provides detailed information on the Jomolhari font. This information should be distributed along with the Jomolhari font and any derivative works.

Basic Font Information

"Jomolhari" is a Reserved Font Name for this Font Software. This Font Software is licensed under the SIL Open Font License, Version 1.0.

Jomolhari is a Tibetan script OpenType / Unicode typeface designed to print Tibetan & Dzongkha Text. It was designed and implemented by Christopher Fynn based on examples of traditional Bhutanese calligraphy.

The Jomolhari font also supports Part A of the PRC encoding for pre-composed Tibetan script.

ChangeLog

(This should list both major and minor changes, most recent first.)
2005-05-31 (Chris Fynn) alpha version 0.003c
- changed licensing to the SIL Open Font License
- included VOLT project files
- added some missing substitution lookups
- corrected some glyph names
- fixed encoding of precomposed glyphs F638 to F63F

Acknowledgements

--------------
(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Christopher Fynn
E:
W: http://www.btinternet.com/~c.fynn/
D: Original Designer and Developer of Jomolhari font.

Found in path(s):
* /opt/cola/permits/1000619291_1611883575.6/0/jomolhari-fonts-0.003-17.el7-1.src.rpm-cosi-expand-archive-PcYGtsvZjomolhari-alpha003c.zip-cosi-expand-archive-zbpPzmSu/FONTLOG.txt
No license file was found, but licenses were detected in source scan.

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-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.0 - 22 November 2005
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The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The
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- documentation

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Found in path(s):
* /opt/cola/permits/1000619291_1611883575.6/0/jomolhari-fonts-0.003-17.el7-1.src.rpm-cosi-expand-archive-PcYGtsvZ/jomolhari-alpha003c.zip-cosi-expand-archive-zbpPzmSu/OFL.txt

1.660 geronimo-servlet 1.0
1.660.1 Available under license:

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  jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4.1-49-final-sources-1-
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1.662 redhat-release-server 7.7-10.el7

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1.664 pam 1.1.8-3.6ubuntu2.18.04.2
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
://{
int retval = PAM_IGNORE, rc;
char *user = NULL;
char *dir = NULL;
char *flag = NULL;
struct passwd *pwd = NULL;
struct stat s;
int f;
/* Get the user name to determine if we need to print the disclaimer */
rc = pam_get_item(pamh, PAM_USER, &user);
if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0') {
    PAM_MODUTIL_DEF_PRIVS(privs);

    /* Get the password entry */
pwd = pam_modutil_getpwnam (pamh, user);
if (pwd != NULL) {
    if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
        pam_syslog(pamh, LOG_ERR, "Unable to change UID to %d temporarilly\n", pwd->pw_uid);
retval = PAM_SESSION_ERR;
go to finished;
    }

    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
go to finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
go to finished;

    if (stat(flag, &s) != 0)
    {
        display_file(pamh, "/etc/legal");
mkdir(dir, 0700);
f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
if (f>=0) close(f);
    }
} finished:
if (pam_modutil_regain_priv(pamh, &privs)) {
pam_syslog(pamh, LOG_ERR, "Unable to change UID back to %d\n", privs.old_uid);
retval = PAM_SESSION_ERR;
}
_pam_drop(flag);
+    _pam_drop(dir);
+    }
+  }
+  return retval;
+}
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.665 httpcomponents-client 4.5.13

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Version 2.1, February 1999
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That's all there is to it!

1.669 libgdither 0.6-8.el7

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.677 jetty-webapp 9.4.31.v20200723

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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 */

package io.swagger.annotations;

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();
}
```
* An optional URL for the license.
*
* @return an optional URL for the license.
*/
String url() default "";
}

1.679 frei0r-plugins 1.3-13.el7

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and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.709 perl-encode 2.51-7.el7

1.709.1 Available under license:

No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):

No license file was found, but licenses were detected in source scan.

Encode::$_Name_ version 0.1

NAME
  Encode::$_Name_ - <describe encoding>

SYNOPSIS
  use Encode::$_Name_;
  #<put more words here>

ABSTRACT
  <fill this in>

INSTALLATION
To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires perl version 5.7.3 or later.

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Found in path(s):
* /opt/cola/permits/1148333398_1619430824.65/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-sJvd8DsV/Encode-2.51.tar.gz-cosi-expand-archive-97F0Dyrh/Encode-2.51/Encode/README.e2x
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1148333398_1619430824.65/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-sJvd8DsV/perl-Encode.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode::Supported -- Encodings supported by Encode

=head1 DESCRIPTION

=head2 Encoding Names

Encoding names are case insensitive. White space in names
is ignored. In addition, an encoding may have aliases.
Each encoding has one "canonical" name. The "canonical"
name is chosen from the names of the encoding by picking
the first in the following sequence (with a few exceptions).

=over 2

=item *

---
The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such frequently used words like 'utf8' don't need to do alias lookups.

=item *

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

=item *

The name in the IANA registry.

=item *

The name used by the organization that defined it.

=back

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

=head1 Supported Encodings

As of Perl 5.8.0, at least the following encodings are recognized. Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with '-'.

In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to C<use Encode::XX> to make them available for most cases. Encode.pm will automatically load those modules on demand.

=head2 Built-in Encodings

The following encodings are always available.

<table>
<thead>
<tr>
<th>Canonical</th>
<th>Aliases</th>
<th>Comments &amp; References</th>
</tr>
</thead>
<tbody>
<tr>
<td>ascii</td>
<td>US-ascii</td>
<td>ISO-646-US</td>
</tr>
<tr>
<td></td>
<td>ISO-8859-1</td>
<td>[ECMA]</td>
</tr>
<tr>
<td>ascii-ctrl</td>
<td>Special</td>
<td>Encoding</td>
</tr>
<tr>
<td>iso-8859-1</td>
<td>latin1</td>
<td>[ISO]</td>
</tr>
<tr>
<td>null</td>
<td>Special</td>
<td>Encoding</td>
</tr>
</tbody>
</table>
I '<null>' and I '<ascii-ctrl>' are special. "null" fails for all character
so when you set fallback mode to PERLQQ, HTMLCREF or XMLCREF, ALL
CHARACTERS will fall back to character references. Ditto for
"ascii-ctrl" except for control characters. For fallback modes, see
L '<Encode>'.

=head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by
Encode::Unicode, which will be autoloaded on demand.

----------------------------------------------------------------
| UCS-2BE    | UCS-2, iso-10646-1 | [IANA, UC] |
| UCS-2LE    |                     | [UC]       |
| UTF-16     |                     | [UC]       |
| UTF-16BE   |                     | [UC]       |
| UTF-16LE   |                     | [UC]       |
| UTF-32     |                     | [UC]       |
| UTF-32BEUCS-4 |                 | [UC]       |
| UTF-32LE   |                     | [UC]       |
| UTF-7      |                     | [RFC2152] |
----------------------------------------------------------------

To find how (UCS-2|UTF-(16|32))(LE|BE)? differ from one another,
see L '<Encode::Unicode'>.

UTF-7 is a special encoding which "re-encodes" UTF-16BE into a 7-bit
encoding. It is implemented separately by Encode::Unicode::UTF7.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for
Symbols and EBCDIC. The following encodings are based on single-byte
encodings implemented as extended ASCII. Most of them map
\x80-\xff (upper half) to non-ASCII characters.

=over 2

=item ISO-8859 and corresponding vendor mappings

Since there are so many, they are presented in table format with
languages and corresponding encoding names by vendors. Note that
the table is sorted in order of ISO-8859 and the corresponding vendor
mappings are slightly different from that of ISO. See
<table>
<thead>
<tr>
<th>Lang/Regions</th>
<th>ISO/Other Std.</th>
<th>DOS</th>
<th>Windows</th>
<th>Macintosh</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. America</td>
<td>(ASCII)</td>
<td>cp437</td>
<td>AdobeStandardEncoding</td>
<td>cp863 (DOSCanadaF)</td>
<td></td>
</tr>
<tr>
<td>W. Europe</td>
<td>iso-8859-1</td>
<td>cp850</td>
<td>cp1252</td>
<td>MacRoman</td>
<td>nextstep</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>hp-roman8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp860 (DOSPortuguese)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td>iso-8859-2</td>
<td>cp852</td>
<td>cp1250</td>
<td>MacCentralEurRoman</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MacRomanian</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MacRumanian</td>
<td></td>
</tr>
<tr>
<td>Latin3[1]</td>
<td>iso-8859-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin4[2]</td>
<td>iso-8859-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrillics</td>
<td>iso-8859-5</td>
<td>cp855</td>
<td>cp1251</td>
<td>MacCyrillic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(See also next section)</td>
<td>cp866</td>
<td>MacUkrainian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>iso-8859-6</td>
<td>cp864</td>
<td>cp1256</td>
<td>MacArabic</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp1006</td>
<td>MacFarsi</td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td>iso-8859-7</td>
<td>cp737</td>
<td>cp1253</td>
<td>MacGreek</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp869 (DOSGreek2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td>iso-8859-8</td>
<td>cp862</td>
<td>cp1255</td>
<td>MacHebrew</td>
<td></td>
</tr>
<tr>
<td>Turkish</td>
<td>iso-8859-9</td>
<td>cp857</td>
<td>cp1254</td>
<td>MacTurkish</td>
<td></td>
</tr>
<tr>
<td>Nordics</td>
<td>iso-8859-10</td>
<td>cp865</td>
<td></td>
<td>MacIcelandic</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MacSami</td>
<td></td>
</tr>
<tr>
<td>Thai</td>
<td>iso-8859-11[3]</td>
<td>cp874</td>
<td>MacThai</td>
<td>(iso-8859-12 is nonexistent. Reserved for Indics?)</td>
<td></td>
</tr>
<tr>
<td>Baltics</td>
<td>iso-8859-13</td>
<td>cp775</td>
<td>cp1257</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Celtics</td>
<td>iso-8859-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin10</td>
<td>iso-8859-16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vietnamese</td>
<td>viscii</td>
<td>cp1258</td>
<td>MacVietnamese</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
[3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
[4] Nicknamed Latin0; the Euro sign as well as French and Finnish letters that are missing from 8859-1 were added.

All cp* are also available as ibm-*, ms-*, and windows-* . See also L<http://czyborra.com/charsets/codepages.html>.

Macintosh encodings don't seem to be registered in such entities as IANA. "Canonical" names in Encode are based upon Apple's Tech Note 1150. See L<http://developer.apple.com/technotes/tn/tn1150.html> for details.
=item KOI8 - De Facto Standard for the Cyrillic world

Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more popular in the Net.  L<Encode> comes with the following KOI charsets. For gory details, see L<http://czyborra.com/charsets/cyrillic.html>

----------------------------------------------------------------
  koi8-f
  koi8-r cp878                                           [RFC1489]
  koi8-u                                                 [RFC2319]
----------------------------------------------------------------

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with ASCII, control character ranges and other parts are mapped very differently, mainly to store Greek characters. There are also escape sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those unusual specifications, Encode 2.20 has relocated the support to L<Encode::GSM0338>. See L<Encode::GSM0338> for details.

=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not well-defined and decode() will return an empty string for them. One possible workaround is

    $gsm =~ s/\x00\z/\x00\x00/;
    $uni = decode("gsm0338", $gsm);
    $uni .= "\xA0" if $gsm =~ /\x1B\z/;

Note that the Encode implementation of GSM0338 does not implement the reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not an "extended ASCII" encoding.

=back

=head2 CJK: Chinese, Japanese, Korean (Multibyte)
Note that Vietnamese is listed above. Also read "Encoding vs CharSet" below. Also note that these are implemented in distinct modules by countries, due to the size concerns (simplified Chinese is mapped to 'CN', continental China, while traditional Chinese is mapped to 'TW', Taiwan). Please refer to their respective documentation pages.

=item Encode::CN -- Continental China

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win</th>
<th>Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>gb12345-raw</td>
<td></td>
<td>cp936 [2]</td>
<td></td>
</tr>
<tr>
<td>gb2312-raw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-ir-165</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L<Microsoft-related naming mess>
[2] gbk is aliased to this. See L<Microsoft-related naming mess>

=item Encode::JP -- Japan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win</th>
<th>Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jp</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjis</td>
<td>cp932</td>
<td>macJapanese</td>
<td></td>
</tr>
<tr>
<td>7bit-jis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp</td>
<td></td>
<td></td>
<td>[RFC1468]</td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
<td></td>
<td></td>
<td>[RFC2237]</td>
</tr>
<tr>
<td>jis0201-raw</td>
<td></td>
<td></td>
<td>{ JIS X 0201 (roman + halfwidth kana) without CES }</td>
</tr>
<tr>
<td>jis0208-raw</td>
<td></td>
<td></td>
<td>{ JIS X 0208 (Kanji + fullwidth kana) without CES }</td>
</tr>
<tr>
<td>jis0212-raw</td>
<td></td>
<td></td>
<td>{ JIS X 0212 (Extended Kanji) without CES }</td>
</tr>
</tbody>
</table>

=item Encode::KR -- Korea

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win</th>
<th>Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-kr</td>
<td></td>
<td>MacKorean</td>
<td>[RFC1557]</td>
</tr>
<tr>
<td>cp949 [1]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-kr</td>
<td></td>
<td></td>
<td>[RFC1557]</td>
</tr>
<tr>
<td>ksc5601-raw</td>
<td></td>
<td></td>
<td>{ KSC5601 without CES }</td>
</tr>
</tbody>
</table>

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 7485
[1] ks_c_5601-1987, (x-)?windows-949, and uhc are aliased to this.
See below.

=item Encode::TW -- Taiwan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5-eten</td>
<td>cp950</td>
<td>MacChineseTrad [big5 aliased to big5-eten]</td>
</tr>
<tr>
<td>big5-hkscs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=item Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are
distributed separately on CPAN, under the name Encode::HanExtra.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5ext</td>
<td></td>
<td>CMEX's Big5e Extension</td>
</tr>
<tr>
<td>big5plus</td>
<td></td>
<td>CMEX's Big5+ Extension</td>
</tr>
<tr>
<td>cccii</td>
<td></td>
<td>Chinese Character Code for Information Interchange</td>
</tr>
<tr>
<td>euc-tw</td>
<td></td>
<td>EUC (Extended Unix Character)</td>
</tr>
<tr>
<td>gb18030</td>
<td></td>
<td>GBK with Traditional Characters</td>
</tr>
</tbody>
</table>

=item Encode::JIS2K -- JIS X 0213 encodings via CPAN

Due to size concerns, additional Japanese encodings below are
distributed separately on CPAN, under the name Encode::JIS2K.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jisx0213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjisx0123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-1-raw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-2-raw</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=back

=head2 Miscellaneous encodings

=over 2

=item Encode::EBCDIC
See L<perlebcdic> for details.

---
cp37
cp500
cp875
cp1026
cp1047
posix-bc
---

=item Encode::Symbols

For symbols and dingbats.

---
symbol
dingbats
MacDingbats
AdobeZdingbat
AdobeSymbol
---

=item Encode::MIME::Header

Strictly speaking, MIME header encoding documented in RFC 2047 is more of encapsulation than encoding. However, their support in modern world is imperative so they are supported.

---
MIME-Header [RFC2047]
MIME-B [RFC2047]
MIME-Q [RFC2047]
---

=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up the most appropriate encoding for a data out of given I<suspects>. See L<Encode::Guess> for details.

=back

=head1 Unsupported encodings

The following encodings are not supported as yet; some because they are rarely used, some because of technical difficulties. They may be supported by external modules via CPAN in the future, however.
=over 2


Not very popular yet. Needs Unicode Database or equivalent to implement encode() (because it includes JIS X 0208/0212, KSC5601, and GB2312 simultaneously, whose code points in Unicode overlap. So you need to lookup the database to determine to what character set a given Unicode character should belong).

=item ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra. Autrijus Tang may add support for this encoding in his module in future.

=item Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8
'15' - japanese15, korean15, and roi15

=item Cyrillic encoding ISO-IR-111

Anton Tagunov doubts its usefulness.

=item ISO-8859-8-1 [Hebrew]

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and MacHebrew are supported because and just because there were mappings available at L<http://www.unicode.org/>). Contributions welcome.

=item ISIRI 3342, Iran System, ISIRI 2900 [Farsi]

Ditto.

=item Thai encoding TCVN

Ditto.

=item Vietnamese encodings VPS

Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf>
and
if you are interested in helping us.

=item Various Mac encodings

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEhtiopic
MacExtArabic, MacGeorgian, MacKannada, MacKhmer
MacLaotian, MacMalayalam, MacMongolian, MacOriya
MacSinhalese, MacTamil, MacTelugu, MacTibetan
MacVietnamese

The rest which are already available are based upon the vendor mappings at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>.

=item (Mac) Indic encodings

The maps for the following are available at L<http://www.unicode.org/> but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari
MacGurmukhi
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>.

I believe this issue is prevalent not only for Mac Indics but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at L<http://www.unicode.org/>.

=back

=head1 Encoding vs. Charset -- terminology

We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.

To understand that, here is a description of how we make computers grok our characters.

=over 2
First we start with which characters to include. We call this collection of characters a character repertoire.

Then we have to give each character a unique ID so your computer can tell the difference between ‘a’ and ‘A’. This itemized character repertoire is now a character set.

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a coded character set (CCS) or raw character encoding. ASCII is used this way for most cases.

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you have to encode the character set to use it.

A character encoding scheme (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via escape sequences.

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:

Map ASCII unchanged.

Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.
You can also use 0x8e and 0x8f to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See L<perlUnicode/"UTF-8"> to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence \x21\x21, you can't tell if it is two '?'s or IDEOGRAPHIC SPACE. EUC maps the latter to \xA1\xA1 so you have no trouble differentiating between "!!". and S" ".

Encoding Classification (by Anton Tagunov and Dan Kogai)

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of such communication.

To (en|de)code encodings marked by C<(**)>, you need C<Encode::HanExtra>, available from CPAN.

Encoding names

US-ASCII  UTF-8  ISO-8859-*  KOI8-R
EUC-KR    Big5    GB2312

are registered with IANA as preferred MIME names and may be used over the Internet.

C<Shift_JIS> has been officialized by JIS X 0208.1997.
L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>.
See L<Microsoft-related naming mess> for details.

C<GB_2312-80> I<raw> encoding is available as C<gb2312-raw> with Encode. See L<Encode::CN> for details.

EUC-CN
KOI8-U      [RFC2319]

have not been registered with IANA (as of March 2002) but seem to be supported by major web browsers. The IANA name for C<EUC-CN> is C<GB2312>.

KS_C_5601-1987

is heavily misused. See L<Microsoft-related naming mess> for details.

C<KS_C_5601-1987> I<raw> encoding is available as C<kcs5601-raw> with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details. Jungshik Shin reports that UTF-16 with a BOM is well accepted by MS IE 5/6 and NS 4/6. Beware however that

=over 2

=item *

C<UTF-16> support in any software you're going to be using/interoperating with has probably been less tested then C<UTF-8> support

=item *

C<UTF-8> coded data seamlessly passes traditional command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded data is likely to cause confusion (with its zero bytes, for example)

=item *

it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit L<http://www.alanflavell.org.uk/charset/form-i18n.html>. While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to
expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!

=back

The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165 [RFC1345]
VISCII
GB 12345
GB 18030 (** (see links below)
EUC-TW (**)

are totally valid encodings but not registered at IANA.
The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (**)

is a proprietary name.

=head2 Microsoft-related naming mess

Microsoft products misuse the following names:

=over 2

=item KS_C_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).

See L<http://lists.w3.org/Archives/Public/ietf-charsets/2001AprJun/0033.html> for details.

Encode aliases C<KS_C_5601-1987> to C<cp949> to reflect this common misusage. I<Raw> C<KS_C_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.

=item GB2312

Microsoft extension to C<EUC-CN>.
Proper names: C<CP936>, C<GBK>.

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately. I<Raw> C<GB_2312-80> encoding is available as C<gb2312-raw>.

See L<Encode::CN> for details.

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=item Shift_JIS

Microsoft's understanding of C<Shift_JIS>.

JIS has not endorsed the full Microsoft standard however. The official C<Shift_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>.

Encode separately supports C<Shift_JIS> and C<cp932>.
A collection of unique characters. A \textless{}character\textgreater{} set in the strictest sense. At this stage, characters are not numbered.

=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO). [RFC 2277]

=item EUC


=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7 bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for iso-2022-jp, the \textless{}de facto\textgreater{} standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.
=item UCS

Short for Universal Character Set. When you say just UCS, it means Unicode.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for Unicode Transformation Format. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big endian or little endian. The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

=head1 See Also

L<Encode>, L<Encode::Byte>, L<Encode::CN>, L<Encode::JP>, L<Encode::KR>, L<Encode::TW>, L<Encode::EBCDIC>, L<Encode::Symbol>, L<Encode::MIME::Header>, L<Encode::Guess>

=head1 References

=over 2

=item ECMA

European Computer Manufacturers Association
L<http://www.ecma.ch>

=over 2
The specification of ISO-2022 is available from the link above.

Most of the canonical names in Encode derive from this list so you can directly apply the string you have extracted from MIME header of mails and web pages.

The glossary of this document is based upon this site.
Other Notable Sites

- czyborra.com
  
  L<http://czyborra.com/>

  Contains a lot of useful information, especially gory details of ISO vs. vendor mappings.

- CJK.inf
  
  L<http://examples.oreilly.com/cjkvinfo/doc/cjk.inf>

  Somewhat obsolete (last update in 1996), but still useful. Also try
  

  You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

- Jungshik Shin's Hangul FAQ
  
  L<http://jshin.net/faq>

  And especially its subject 8.
  
  L<http://jshin.net/faq/qa8.html>

  A comprehensive overview of the Korean (C<KS *>) standards.

- debian.org: "Introduction to i18n"
  
  A brief description for most of the mentioned CJK encodings is contained in
  
CJKV Information Processing

The modern successor of C<CKJ.inf>.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit
L<http://oreilly.com/catalog/9780596514471/>
or your favourite bookstore.

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets     = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2

=item L<Encode::Alias> - Alias definitions to encodings

=item L<Encode::Encoding> - Encode Implementation Base Class
The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of characters.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by C<ord($S)> is the Unicode codepoint for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the how. L<perlunitut> and L<perlnifaq> explain the why.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.
A character in the range 0..255;
a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255;
term for bytes passed to or from a non-Perl context, such as a disk file,
standard I/O stream, database, command-line argument, environment variable,
socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$octets  = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into
I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a
canonical name or an alias. For encoding names and aliases, see
L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into
ISO-8859-1, also known as Latin1:

    $octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>, then
$octets I<might not be equal to> $string. Though both contain the
same data, the UTF8 flag for $octets is I<always> off. When you
encode anything, the UTF8 flag on the result is always off, even when it
contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar
value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into
Perl's internal form. The returns the resulting string. As with encode(),
I<ENCODING> can be either a canonical name or an alias. For encoding names
and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling
Malformed Data">.
For example, to convert ISO-8859-1 data into a string in Perl's internal format:

$string = decode("iso-8859-1", $octets);

'B<CAVEAT>: When you run C<$string = decode("utf8", $octets)>, then $string might not be equal to $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)

Returns the I<encoding object> corresponding to I<ENCODING>. Returns C<undef> if no matching I<ENCODING> is found. The returned object is what does the actual encoding or decoding.

$utf8 = decode($name, $bytes);

is in fact

$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};

with more error checking.

You can therefore save time by reusing this object as follows;

my $enc = find_encoding("iso-8859-1");
while(<>) {
    my $utf8 = $enc->decode($);
    ...
    # now do something with $utf8;
}

Besides L</decode> and L</encode>, other methods are available as well. For instance, C$name()> returns the canonical name of the encoding object.

find_encoding("latin1")->name; # iso-8859-1

See L<Encode::Encoding> for details.
[\$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])

Converts I<in-place> data between two encodings. The data in $octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

from_to($octets, "iso-8859-1", "cp1250");

and to convert it back:

from_to($octets, "cp1250", "iso-8859-1");

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

from_to($data, "iso-8859-1", "utf8"); #1
$\data = \text{decode("iso-8859-1", }$\data); #2

Both #1 and #2 make $\data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

$\data = \text{encode("utf8", decode("iso-8859-1", }$\data));

See L<"The UTF8 flag"> below.

Also note that:

from_to($octets, $from, $to, $check);

is equivalent to:

$octets = encode($to, decode($from, $octets), $check);

Yes, it does I<not> respect the $check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

$octets = encode($to, decode($from, $octets, $check_from), $check_to);
$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters. Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail. For CHECK, see L</"Handling Malformed Data">.

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode:JP");

When "C::<>
 is not in the name, "C<Encode::>
 is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve_alias>(), which returns the canonical name thereof. For example:

```
Encode::resolve_alias("latin1") eq "iso-8859-1" # true
Encode::resolve_alias("iso-8859-12") # false; nonexistent
Encode::resolve_alias($name) eq $name # true if $name is canonical
```

C<resolve_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.

See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

```
use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name; # utf-8-strict
warn $enc->mime_name; # UTF-8
```

See also: L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

#### Version 1 via PerlIO
```
open(INPUT, "< :encoding(shiftjis)", $infile)
 || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)", $outfile)
 || die "Can't open > $output for writing: $!";
while (<INPUT>) { # auto decodes $_
   print OUTPUT; # auto encodes $_
```
### Version 2 via from_to()

open(INPUT, "< :raw", $infile)
|| die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw", $outfile)
|| die "Can't open > $output for writing: $!";

while (<INPUT>) {
  from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
  print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT)   || die "can't close $infile: $!";
close(OUTPUT)  || die "can't close $outfile: $!";

In the first version above, you let the appropriate encoding layer handle the conversion. In the second, you explicitly translate from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check to see whether your encoding is supported by C<PerlIO> by invoking the C<perlio_ok> method on it:

```
Encode::perlio_ok("hz");             # false
find_encoding("euc-cn")-&gt;perlio_ok;  # true wherever PerlIO is available
```

use Encode qw(perlio_ok);            # imported upon request
perlio_ok("euc-jp")

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy except for C<hz> and C<ISO-2022-kr>. For the gory details, see L<Encode::Encoding> and L<Encode::PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when encountering malformed data. Without I<CHECK>, C<Encode::FB_DEFAULT> (== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>; see below.

B<NOTE>: Not all encodings support this feature.

Some encodings ignore the I<CHECK> argument. For example, L<Encode::Unicode> ignores I<CHECK> and it always croaks on error.
=head2 List of I<CHECK> values

=head3 FB_DEFAULT

I<CHECK> = Encode::FB_DEFAULT ( == 0)

If I<CHECK> is 0, encoding and decoding replace any malformed character with a I<substitution character>. When you encode, I<SUBCHAR> is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C<"utf8"> is given.

=head3 FB_CROAK

I<CHECK> = Encode::FB_CROAK ( == 1)

If I<CHECK> is 1, methods immediately die with an error message. Therefore, when I<CHECK> is 1, you should trap exceptions with C<eval{}>, unless you really want to let it C<die>.

=head3 FB_QUIET

I<CHECK> = Encode::FB_QUIET

If I<CHECK> is set to C<Encode::FB_QUIET>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data.  This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) { 
    $string .= decode($encoding, $buffer, Encode::FB_QUIET); 
    # $buffer now contains the unprocessed partial character
}

=head3 FB_WARN

I<CHECK> = Encode::FB_WARN

This is the same as C<FB_QUIET> above, except that instead of being silent on errors, it issues a warning.  This is handy for when you are debugging.
=over 2

=item perlqq mode (I<CHECK> = Encode::FB_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB_XMLCREF)

=back

For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<==>
C<Encode::FB_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where
I<HH> is the hex representation of the octet that could not be decoded to
utf8. When you encode, C<\x{I<HHHH>}> will be inserted, where I<HHHH> is
the Unicode code point (in any number of hex digits) of the character that
cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of
C<\x{I<HHHH>}>, HTML uses C<&I<NNN>;> where I<NNN> is a decimal number, and
XML uses C<&xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB_I<XXX>>
constants are laid out. You can import the C<FB_I<XXX>> constants via
C<use Encode qw(:fallbacks)>, and you can import the generic bitmask
constants via C<use Encode qw(:fallback_all)>.

    FB_DEFAULT  FB_CROAK  FB_QUIET  FB_WARN  FB_PERLQQ
    ------     ------     ------     ------     ------
    DIE_ON_ERR  0x0001             X
    WARN_ON_ERR 0x0002                               X
    RETURN_ON_ERR 0x0004                      X        X
    LEAVE_SRC     0x0008                                        X
    PERLQQ        0x0100                                        X
    HTMLCREF      0x0200
    XMLCREF       0x0400

=head3 LEAVE_SRC

Encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is I<not> set but I<CHECK> is set, then the
source string to encode() or decode() will be overwritten in place.
If you're not interested in this, then bitwise-OR it with the bitmask.
As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C<\x{I<XXXX}>.

To define a new encoding, use:

use Encode qw(define_encoding);
derive_encoding($object, CANONICAL_NAME [, alias...]);

I<CANONICAL_NAME> will be associated with I<$object>. The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

Before the introduction of Unicode support in Perl, the C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

Programs should run just as fast in the new character-oriented mode.
as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item *

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>.

<table>
<thead>
<tr>
<th>When $octet is...</th>
<th>The UTF8 flag in $utf8 is</th>
</tr>
</thead>
<tbody>
<tr>
<td>In ASCII only (or EBCDIC only)</td>
<td>OFF</td>
</tr>
<tr>
<td>In ISO-8859-1</td>
<td>ON</td>
</tr>
<tr>
<td>In any other Encoding</td>
<td>ON</td>
</tr>
</tbody>
</table>

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=back
Messing with Perl’s Internals

The following API uses parts of Perl’s internals in the current implementation. As such, they are efficient but may change in a future release.

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

_utf8_on(STRING)

[INTERNAL] Turns the I<STRING>’s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don’t treat the return value as indicating success or failure), or C<undef> if I<STRING> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

_utf8_off(STRING)

[INTERNAL] Turns the I<STRING>’s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<STRING> is not a string. Do not treat the return value as indicative of success or failure, because that isn’t what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

UTF-8 vs. utf8 vs. UTF8

....We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.
That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFFD0 .. 0xFFDF, the last two code points in I<any> plane (0xI<XX>_FFFF and 0xI<XX>_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B<&"UTF-8"> means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B<&"utf8"> means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C<&"UTF-8"> and C<&"utf8">.

    encode("utf8", "x{FFFF_FFFF}", 1); # okay
    encode("UTF-8", "x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C<&"UTF-8"> is actually a canonical name for C<&"utf-8-strict">. That hyphen between the C<&"UTF"> and the C<&"8"> is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

    find_encoding("UTF-8")->name # is 'utf-8-strict'
    find_encoding("utf-8")->name # ditto. names are case insensitive
    find_encoding("utf_8")->name # ditto. "_" are treated as "."
    find_encoding("UTF8")->name # is 'utf8'.

---

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Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,  
L<Encode::Supported>,  
L<Encode::PerlIO>,  
L<encoding>,  
L<perlebcdic>,  
L<perlfunc/open>,  
L<perlunicode>,  
L<perluintro>,  
L<perlunifaq>,  
L<perlunitut>  
L<utf8>,  
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS for a full list of people involved. For any questions, send mail to I<< <perl-unicode@perl.org> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit should go to all those involved. See AUTHORS for a list of those who submitted code to the project.

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=cut

Found in path(s):
  * /opt/cola/permits/1148333398_1619430824.65/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-sJvd8DsV/Encode-2.51.tar.gz-cosi-expand-archive-97F0Dyrh/Encode-2.51/Encode.pm

1.710 gmp 6.0.0 15.el7
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zlib    http://www.gzip.org/zlib/zlib_license.html

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krb4

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1.714 httpcomponents-mime 4.2.1-redhat-1

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The Red Hat VDO Team:
Principal Engineer/Lead Architect:
J. corwin Coburn <corwin@redhat.com>

Primary Authors:
Joseph Chapman <jochapma@redhat.com>
Sweet Tea Dorminy <sweettea@redhat.com>
Thomas Jaskiewicz <tjaskiew@redhat.com>
Bruce Johnston <bjohnsto@redhat.com>
Ken Raeburn <raeburn@redhat.com>
Michael Sclafani <sclafani@redhat.com>
Matthew Sakai <msakai@redhat.com>
Joseph Shimkus <jshimkus@redhat.com>
John Wiele <jwiele@redhat.com>

Support, Testing, Documentation, and other things too numerous to mention:
Chung Chung <cchung@redhat.com>
Bryan Gurney <bgurney@redhat.com>
*Simon J. Hernandez <sihernan@redhat.com>
Jakub Krysl <jkryst@redhat.com>
Marek Suchanek <msuchane@redhat.com>

Project Management & Technical Direction:
Jered Floyd <jered@redhat.com>
Louis Imershein <limershe@redhat.com>
Dennis Keefe <dkeefe@redhat.com>
Andrew Walsh <awalsh@redhat.com>

*former team members

Other Contributors:
Ji-Hyeon Gim <potatogim@potatogim.net>:
Updates for FC26/Kernel 4.13

VDO was originally created at Permabit Technology Corporation, and was subsequently acquired and open-sourced by Red Hat.

Former Members of the Permabit VDO Team:
Engineers:
Mark Amidon
David Buckle
Jacky Chu
Joel Hoff
Dimitri Kountourogianni
Alexis Layton
Michael Lee
Rich Macchi
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Assar Westurlund

Support, Testing, Documentation, etc.
Carl Alexander
Mike Chu
Mark Iskra
Farid Jahanmir
Francesca Koulikov
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Uche Onyekwuluje
Catherine Powell
Jeff Pozz
Sarmad Sada
John Schmidt
Omri Schwarz
Jay Splaine
John Welle
Mary-Anne Wolf
Devon Yablonski
Robert Zupko

Interns:
Ari Entlich
Lori Monteleone

Project Management & Technical Direction:
Michael Fortson

Other Past Permabit Contributors (for early work on the index):
James Clough
Dave Golombek
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 *
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 * @return true if the operation succeeds false otherwise
 */
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 * For example:
 *
 * Application A grants permission on users.getInfo to Application B, Applicatio B can then call
 * permissions_checkAvailableApiAccess(A) and will recieve
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1.739 telnetd-x 2.1.1

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1.740 datatype 1.0
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1.741 bean-validation-api 1.1.0.Final

1.742 dhcp 4.2.5-77.el7
1.742.1 Available under license :

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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  <xsl:variable name="isc.copyright.text">
    <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:text>
  </xsl:variable>
  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>&#10;</xsl:text>
        </xsl:for-each>
        <xsl:value-of select="$isc.copyright.text"/>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
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  jar/org/drools/lang/descr/EntryPointDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
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  jar/org/drools/lang/DroolsEditorType.java
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  jar/org/drools/lang/DroolsTreeAdaptor.java
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  jar/org/drools/lang/DRLParser.java
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  jar/org/drools/lang/ParserHelper.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/rule/builder/dialect/mvel/MVELEvalBuilder.java
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  jar/org/drools/lang/descr/MVELExprDescr.java
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  jar/org/drools/compiler/ProcessBuilderFactoryService.java
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  jar/org/drools/lang/descr/StringConnectiveDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/descr/FromDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/descr/MethodAccessDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/descr/DeclarativeInvokerDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/descr/RestrictionConnectiveDescr.java
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  jar/org/drools/lang/descr/FieldAccessDescr.java
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  jar/org/drools/lang/descr/FieldTemplateDescr.java
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  jar/org/drools/lang/DroolsToken.java
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  jar/org/drools/lang/descr/ConnectiveDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/descr/FactTemplateDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/api/impl/BehaviorDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/DroolsParaphraseTypes.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/DroolsMismatchedTokenException.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/DroolsMismatchedSetException.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/ConnectiveType.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/OperatorDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/descr/AtomicExprDescr.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/lang/drools/DroolsMissingTokenException.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/DuplicateRule.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/DuplicateFunction.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/compiler/ConfigurableSeverityResult.java

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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/EnumLiteralDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/impl/EnumDeclarationDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/impl/EnumLiteralDescrBuilderImpl.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/api/AbstractClassTypeDeclarationBuilder.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/commons/jci/compilers/JavaCompiler.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/commons/jci/compilers/JavaCompilerSettings.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/commons/jci/compilers/CompilationResult.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1.jar/org/drools/commons/jci/compilers/JaninoCompilationProblem.java
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jar/org/drools/lang/ExpanderException.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/PatternDestinationDescr.java
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Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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1.762 bash 4.2.46-33.el7
1.762.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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b) Accompany the work with a written offer, valid for at
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Simple example showing a stateful session executing rules for a given collection of java objects.

```
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
assertFalse( kbuilder.hasErrors() );
if ( kbuilder.hasErrors() ) {
    System.out.println( kbuilder.getErrors() );
}
KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
for( Object fact : facts ) {
    ksession.insert( fact );
}
ksession.fireAllRules();
ksession.dispose();
```

Simple example showing a stateful session executing processes.

```
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
KnowledgeBase kbase = kbuilder.newKnowledgeBase();
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.startProcess("com.sample.processsid");
ksession.signalEvent("SomeEvent", null);"
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
*
* <p>
  * StatefulKnowledgeSessions support globals.Globals are used to pass information into the engine
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  * as much as possible) mutable globals. Also, it is a good practice to set your globals before
  * inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion
  * time, and so, if you are using a global to constraint a fact pattern, and the global is not set,
  * you may receive a <code>NullPointerException</code>.</p>
* <p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which
  * returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)
  * will set the global on an internal Collection. Identifiers in this internal
  * Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in
  * the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.
  * </p>
*
* <p>Code snippet for setting a global:</p>
* <pre>
  * StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
  * ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
  * interactions in the rules.
  * for( Object fact : facts ) {
  *     ksession.insert( fact );
  * } 
  * ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
  * ksession.dispose();
  * </pre>
* 
* <p>Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a
  * StatefulKnowledgeSession. See CommandExecutor
  * for more details.
  * </p>
*
* @see org.drools.runtime.Globals
*/

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* /opt/cola/permits/1111264574_1607991859.46/0/knowledge-api-5-6-0-final-sources-1-jar/org/drools/util/CompositeClassLoader.java
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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with the Library, with the complete machine-readable "work that
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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials

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specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
  jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
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- /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4.jar/org/objectweb/asm/commons/StaticInitMerger.java
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- /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4.jar/org/objectweb/asm/tree/Interpreter.java
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  jar/org/objectweb/asm/xml/SAXAdapter.java
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  jar/org/objectweb/asm/util/Traceable.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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1.784 simpleclient 0.8.1

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.808 base-passwd 3.5.44
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Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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1.814 python-dateutil 1.5

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.816 spring-web-mvc 4.3.22.RELEASE

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* /opt/cola/permits/1141298140_16146968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2.jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
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/**
 **
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * <p>View technologies that support this contract can obtain an instance to
 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
 *
 * @author Rossen Stoyanchev
 * @since 3.1
 */

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/**
**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link getSourceTypes() here }
* for more details.
* 
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link setOutputProperties output properties ]
* to be passed to the Transformer.
* 
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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(For example, a function in a library to compute square roots has...
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1.829 fipscheck 1.4.1-6.el7

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/ConditionalPermissionAdmin.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/BundleSignerCondition.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi/core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/FindHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi/core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/EventHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi/core-4-2-0-sources-2-jar/org/osgi/framework/hooks/service/ListenerHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/launch/Framework.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/service/condpermadmin/FrameworkEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/service/condpermadmin/ConditionalPermissionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/Version.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/service/condpermadmin/Condition.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/condpermadmin/BundleLocationCondition.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java
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*/
/**
* Return the certificates for the signers of this bundle and the
* certificate chains for those signers.
*
* @param signersType If [@link #SIGNERS_ALL] is specified, then information
* on all signers of this bundle is returned. If
* [@link #SIGNERS_TRUSTED] is specified, then only information on
* the signers of this bundle trusted by the framework is returned.
* @return The [code]X509Certificate[/code]s for the signers of this bundle
* The keys of the [code]Map[/code] are the
* [code]X509Certificate[/code]s of the signers of this bundle. The
* value for a key is a [code]List[/code] containing the
* [code]X509Certificate[/code] chain for the signer. The first item
* in the [code]List[/code] is the signer's
* [code]X509Certificate[/code] which is then followed by the rest
* of the [code]X509Certificate[/code] chain. The returned
* [code]Map[/code] will be empty if there are no signers. The
* returned [code]Map[/code] is the property of the caller who is
* free to modify it.
* @throws IllegalArgumentException If the specified
* [code]signersType[/code] is not [@link #SIGNERS_ALL] or
* [@link #SIGNERS_TRUSTED].
* @since 1.5
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServiceRegistration.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/framework/AdminPermission.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/service/url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2.jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
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 */

/**
 * Creates a new <code>PackagePermission</code> object.
 *
 * <p>
 * The name is specified as a normal Java package name: a dot-separated
 * string. Wildcards may be used.
 *
 * <pre>
 * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *
 * </pre>
 *
 * Examples:
 *
 * <pre>
 * org.osgi.service.http
 * javax.servlet.*
 * *
 * </pre>
 *
 * For the <code>import</code> action, the name can also be a filter
 * expression. The filter gives access to the following attributes:
 * 
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>package.name - The name of the requested package.</li>
 * </ul>
 */
Filter attribute names are processed in a case sensitive manner.

Package Permissions are granted over all possible versions of a package.

A bundle that needs to export a package must have the appropriate PackagePermission for that package; similarly, a bundle that needs to import a package must have the appropriate PackagePermission for that package.

Permission is granted for both classes and resources.

@param name Package name or filter expression. A filter expression can only be specified if the specified action is import.
@param actions exportonly,import (canonical order).
@throws IllegalArgumentException If the specified name is a filter expression and either the specified action is not import or the filter has an invalid syntax.

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 */

/**
 * Specified the persistent storage area used by the framework. The value of
 * this property must be a valid file path in the file system to a
 * directory. If the specified directory does not exist then the framework
 * will create the directory. If the specified path exists but is not a
 * directory or if the framework fails to create the storage directory, then
 * framework initialization must fail. The framework is free to use this
 * directory as it sees fit. This area can not be shared with anything else.
 *<p>
 * If this property is not set, the framework should use a reasonable
 * platform default for the persistent storage area.
 *
 *<p>
 * @since 1.5
 */

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.838 flite 1.3-22.el7

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src/utils/cst_mmap_none.c
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src/regex/regexp.c
src/regex/regex.c

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src/speech/rateconv.c

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lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
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configure
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configure.sub
config.guess
missing
install-sh
mkinstalldirs

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are included.

palm/include/peal.h
palm/include/pealstub.h
palm/arm_flite/pealstub.c
palm/m68k_flite/peal.c

************

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modification, are permitted provided that the following conditions
The whole Sun Microsystems math library was ported to Palm for this but its not actually needed, though the include file is to allow bits of the system to compile that currently linked in to the system, so we just have the include file here

palm/include/fdlibm.h

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1.839 make 3.82-24.el7

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Version 2.1, February 1999

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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On all platforms, Nmap is normally linked with:

- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  

- **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  

- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  

- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  
  [http://www.lua.org/](http://www.lua.org/)

- **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  

- **LIBLINEAR**: Used for IPv6 OS classification.
  

- **libsvn**: The Subversion library, used by the updater program nmap-update. [http://subversion.apache.org/](http://subversion.apache.org/)


On Windows only, Nmap uses:

- **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  

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Zenmap and Ndiff require:

- **Python**: The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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The Mac OS binary packages also include:
- Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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1.853 resteasy-jackson-provider 2.3.7.Final

1.854 totem 3.26.2-1.el7

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Christian Schaller: Monday 7th February 2005
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Note that the src/totem-subtitle-encoding.c file was relicensed to LGPL (see http://bugzilla.gnome.org/show_bug.cgi?id=515809).

1.855 xstream 1.4.15

1.855.1 Available under license:

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.15
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1607815367579
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: http://x-stream.github.io
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.15
Export-Package: com.thoughtworks.xstream;version="1.4.15",com.thoughtworks.xstream.annotations;version="1.4.15",com.thoughtworks.xstream.converters;version="1.4.15",com.thoughtworks.xstream.converters.collections;version="1.4.15",com.thoughtworks.xstream.converters.enums;version="1.4.15",com.thoughtworks.xstream.converters.extended;version="1.4.15",com.thoughtworks.xstream.converters.javabeans;version="1.4.15",com.thoughtworks.xstream.converters.reflect;version="1.4.15",com.thoughtworks.xstream.converters.time;version="1.4.15",com.thoughtworks.xstream.core;version="1.4.15",com.thoughtworks.xstream.io;version="1.4.15",com.thoughtworks.xstream.io.binary;version="1.4.15",com.thoughtworks.xstream.io.copy;version="1.4.15",com.thoughtworks.xstream.io.json;version="1.4.15",com.thoughtworks.xstream.io.serializers;version="1.4.15",com....
"1.4.15", com.thoughtworks.xstream.io.naming; version="1.4.15", com.thoughtworks.xstream.io.path; version="1.4.15", com.thoughtworks.xstream.io.xml; version="1.4.15", com.thoughtworks.xstream.io.xml.xppdom; version="1.4.15", com.thoughtworks.xstream.mapper; version="1.4.15", com.thoughtworks.xstream.persistence; version="1.4.15", com.thoughtworks.xstream.security; version="1.4.15"


JAVA_1_4_HOME: /opt/blackdown-jdk-1.4.2.03
JAVA_1_5_HOME: /opt/sun-jdk-1.5.0.22
JAVA_1_6_HOME: /opt/sun-jdk-1.6.0.45
JAVA_1_7_HOME: /opt/oracle-jdk-bin-1.7.0.80
JAVA_1_8_HOME: /opt/oracle-jdk-bin-1.8.0.202
JAVA_9_HOME: /opt/oracle-jdk-bin-9.0.4

Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1121782282_1610386278.98/0/xstream-1-4-15-jar/META-INF/MANIFEST.MF

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1.856 open-ldap 2.4.44-21.el7_6

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1.857 checker-compat-qual 2.0.0

1.858 stilts-stomp-server-core 0.1.26.redhat-3

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1.859 gphoto 2.5.15-3.el7

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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/DurationFactory.java
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  jar/org/awaitility/core/LambdaErrorMessageGenerator.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-
  jar/org/awaitility/core/ConditionEvaluationHandler.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-
  jar/org/awaitility/core/AssertionCondition.java
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  jar/org/awaitility/core/ConditionAwaiter.java
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  jar/org/awaitility/core/CallableHamcrestCondition.java
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  jar/org/awaitility/reflect/exception/FieldNotFoundException.java
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  jar/org/awaitility/core/CallableHamcrestCondition.java
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1.870 jackson-mapper-asl 1.8.1
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* /opt/ws_local/PERMITS_SQL/1085366257_1598962829.81/0/jackson-mapper-asl-1-8-1-sources-2-
  jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.871 ojdbc 11.2.0.4
1.871.1 Available under license:
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# or the Oracle proprietary type oracle.xdb.XMLType.

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* /opt/cola/permits/1005611183_1608643792.52/0/jar-files-2-1-zip/ojdbc6-11-2-0-4-
  jar/oracle/jdbc/defaultConnectionProperties.properties

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1.873 regexp 2.7.1-redhat-3

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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/CannotCompileException.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/SubroutineScanner.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/JvstCodeGen.java
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AnnotationsAttribute.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
1.875 jackson-databind 2.12.1

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# Jackson JSON processor

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1.880 wstx-asl 3.2.1

1.881 libutempter 1.1.6-4.el7

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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: [configuration option]
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all muting and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option. </dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** muting on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^  
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]

---

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Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

```
[[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.
** SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.
** SQLite will never require a scratch buffer that is more than 6 times the database page size. If SQLite needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
```

```
[[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option. There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N). The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. The page header size is 20 to 40 bytes depending on the host architecture. It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory.
** SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.</dd>
```

```
[[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> This option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
```
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** ^The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** ^The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

** ^[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** ^<dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** ^[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** ^<dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** ^[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** ^<dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>

**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>**  
** <dd> (This option takes a single argument which is a pointer to**
** an [sqlite3_pcache_methods2] object. This object specifies the interface**
** to a custom page cache implementation.) ^ SQLite makes a copy of the**
** object and uses it for page cache memory allocations.</dd>**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>**  
** <dd> (This option takes a single argument which is a pointer to an**
** [sqlite3_pcache_methods2] object. SQLite copies of the current**
** page cache implementation into that object.) ^</dd>**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>**  
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite**
** global [error log].**
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a**
** function with a call signature of void(*)(void*,int,const char*),**
** and a pointer to void. ^If the function pointer is not NULL, it is**
** invoked by [sqlite3_log()]) to process each logging event. ^If the**
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.**
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is**
** passed through as the first parameter to the application-defined logger**
** function whenever that function is invoked. ^The second parameter to**
** the logger function is a copy of the first parameter to the corresponding**
** [sqlite3_log()] call and is intended to be a [result code] or an**
** [extended result code]. ^The third parameter passed to the logger is**
** log message after formatting via [sqlite3_snprintf()].**
** The SQLite logging interface is not reentrant; the logger function**
** supplied by the application must not invoke any SQLite interface.**
** In a multi-threaded application, the application-defined logger**
** function must be threadsafe. </dd>**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</dt>**  
** <dd> This option takes a single argument of type int. If non-zero, then**
** URI handling is globally enabled. If the parameter is zero, then URI handling**
** is globally disabled. If URI handling is globally enabled, all filenames**
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or**
** specified as part of [ATTACH] commands are interpreted as URIs, regardless**
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database**
** connection is opened. If it is globally disabled, filenames are**
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the**
** database connection is opened. By default, URI handling is globally**
** disabled. The default value may be changed by compiling with the**
** [SQLITE_USE_URI] symbol defined.**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN</dt>**  
** <dd> This option takes a single integer argument which is interpreted as**
** a boolean in order to enable or disable the use of covering indices for**
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without separate even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dd>
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

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<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>
<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>
<p>Charlotte, North Carolina - December 12, 2007</p> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members. <p>

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic
devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team.
of developers under Hipp's direction.

<p>
CONTACT INFORMATION:<br>
SQLite Consortium<br>
Dr. D. Richard Hipp<br>
6200 Maple Cove Lane<br>
Charlotte, NC 28269<br>
Email: drh@sqlite.org<br>
http://www.sqlite.org<br>
Tel: +1.704.948.4565
</p>

<p><b>About Mozilla</b></p>
Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

<p>COUNTACT INFORMATION:<br>
Mozilla Corporation<br>
Jessica Waight<br>
Tel: +1.415.345.4754<br>
Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>
Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.</p>
CONTACT INFORMATION:<br>Symbian Global Press Office<br>Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com
</p>
</body></html>

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Proprietary SQLite Extensions

You are welcomed to use SQLite in closed source, proprietary, and/or

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
# # May you do good and not evil.
# # May you find forgiveness for yourself and forgive others.
# # May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a a
    aaron aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase abas
    abash abash
    abate abat
    abated abat
    abatement abat
    abatements abat
    abates abat
    abbess abbess
    abbey abbei
    abbeys abbei
    abominable abomin
    abbot abbot
    abbots abbot
    abbreviated abbrevi
abed  ab
abel  abel
aberga  aberga
abergavenny  abergavenni
abet  abet
abetting  abet
abhominable  abhomin
abhhor  abhor
abhorrr  abhorr
abhorred  abhor
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abhors  abhor
abhorson  abhorson
abide  abid
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</tbody>
</table>
# Create a full-text index to use for testing the stemmer.
#
$db close
$sqlite3 $db :memory:
$db eval {
    CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}
foreach [pfrom pto] $porter_test_data {
  do_test fts1porter-$pfrom {
    execsql {
      DELETE FROM t1_term;
      DELETE FROM t1_content;
      INSERT INTO t1(word) VALUES($pfrom);
      SELECT term FROM t1_term;
    }
  }
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

Found in path(s):
* **BeginResource
No license file was found, but licenses were detected in source scan.

<p>SQLite itself is in the &lt;a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):
No license file was found, but licenses were detected in source scan.

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

*************************************************************************
This file implements regression tests for SQLite library. The focus of this script is testing the FTS1 module.

$id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com','traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24990</td>
</tr>
</tbody>
</table>
To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001,

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,
Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.
Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.'
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,','Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '"','

Here is a goody for you):
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,','TRV Notification: (West VaR - 11/07/2001), The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000, 'Teco Tap 10.000 / Enron :
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

'));
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.:

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------------------
To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :         East Northeast
Dick Jenkins:     East Marketeast

WK
');

INSERT INTO email(from,to,subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email(from,to,subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

-gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.
Thanks,

Eric

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.
Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy, 

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
--------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from
California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email(from,[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the timeline for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated timeline, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual timeline here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints.v2.doc)
- accenture-dealpoints.v2.doc ');

INSERT INTO email(from,[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
c: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution's Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332
Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’);

Shelley’);

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!
Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

We will send you another e-mail to confirm when the Law Conference Website is operational.

Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com','Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com','bryce.baxter@enron.com','Re: Feedback for Audrey Cook','Bryce,' I''ll get it done today.

DG  3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com','stephanie.sever@enron.com','Gas EOL ID','Stephanie,
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey'

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL”s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', '.bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.
Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com);
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio
Coastal Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Centana, 'Talked to Chip. We do need Cash Committee approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Description:
Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description: ';
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that you can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com
Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too

BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.'
Variasen detected.
Variasen detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ", 'Lite Bytz RSVP',
This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
   COMMIT;
} }
# Everything above just builds an interesting test database. The actual
tests come after this comment.

```c
# Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
```
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}

do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}

do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}
# Snippet generator tests

do_test fts1c-4.1 {
   execsql {
      SELECT snippet(email) FROM email
         WHERE email MATCH 'subject:gas reminder'
   }
}

# Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b>/ Request <b>Reminder</b>}

do_test fts1c-4.2 {
   execsql {
      SELECT snippet(email) FROM email
         WHERE email MATCH 'christmas candlelight'
   }
}

# <b>Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b>/ Request <b>Reminder</b>}

# Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b>/ Request <b>Reminder</b>}

# Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b>/ Request <b>Reminder</b>
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH ""pursuant to"
}}
} {{Erin:

<b>Pursuant</b> to your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'ancillary load davis'
}}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
}}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 <b>Keystone Receipts</b>
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts1c-5.2 {
excsq1 {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 <b>Keystone Receipts</b>
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
open source used in field network director for virtual machine installation 4.7.1

No license file was found, but licenses were detected in source scan.

Sources are in the public domain.
Rather than using fopen() to write XML or some proprietary format into

No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.

```sql
do_test fts3ac-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent’s Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transaction Volume Hedged
    1      - 24990
    2500 - 54995000
    5500 - 64996000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.);
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

    Employee Name: Christopher F. Calger
    Status last changed by: Mollie E. Gustafson Ms
    Expense Report Name: CC02.06.02
    Report Total: $3,972.93
    Amount Due Employee: $3,972.93

    To approve this expense report, click on the following link for Concur Expense.
    http://expensesms.enron.com);
    INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
```
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

'):

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.
Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!;

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE.
YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610);

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle. ');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works. ');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13t floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no

- About St Pauls.url
Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com','sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.................................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com','
'Change to Stack Manager'. Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmarcantel@equiva.com', 'RE:', 'I will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE'][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', "The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben'");

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.'");

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ---------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

')

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ---------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum
Attached is Columbia Distribution’s notice of capacity available for release for

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard
Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com','email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com','2001 Enron Law Conference (Distribution List 2)','2001 Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com);

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,',
'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com',
c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

JUSTIN BOYD told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards
Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:
running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Reliant
Steve McGinn 713-207-4000

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],[subject,body]) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.'
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
} {}
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
}
}
do_test fts3ac-1.6 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
}
}
do_test fts3ac-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
}
do_test fts3ac-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
}
do_test fts3ac-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
}
# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'body:gas reminder'
}
}
do_test fts3ac-2.4 {
SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
exesq;
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
exesq;
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
exesq;
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH "child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
exesq;
  SELECT snippet(email) FROM email
  WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-GAS Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
exesq;
  SELECT snippet(email) FROM email
  WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
exesq;
  SELECT snippet(email) FROM email
  WHERE email MATCH 'deal sheet potential reuse'
do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations}}

do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now}}

do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{chris.germany@enron.com' '" chris...bet this is next to about going here Christmas eve' }}

do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"
  }
} {{Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement,
  together"..."}}

do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.davis@enron.com"..."3; No ancillary schedules awarded...detected in
  Load" schedule.

LOG"..."}}

# Combinations of AND and OR operators:
#

do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@enron.com, ... Keystone Receipts 31
15 Questar Pipeline
40 Rockies ...
}}

do_test fts3ac-5.2 {
execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com, ... Keystone Receipts 31
15 Questar Pipeline
40 Rockies ...
}}

#--------------------------------------------------
# Test a problem reported on the mailing list.
#

do_test fts3ac-6.1 {
execsql {
   CREATE VIRTUAL TABLE ft USING fts3(one, two);
   INSERT INTO ft VALUES('', 'foo');
   INSERT INTO ft VALUES('foo', 'foo');
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
execsql {
   DELETE FROM ft WHERE one = 'foo';
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="#sqlite3">database connection</a> or the

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database.
SQLite is open source, and is available in the public domain.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at</p>
WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

The SQLite Developers shall provide, without limit,
timely and accurate answers, advice, and instruction
in response to questions and comments from Company about SQLite
submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide
Company with direct assistance
in debugging applications that are built upon or use SQLite.
The combined time for Debugging Support and Custom
Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company
write new extensions or enhancements
to SQLite according to Company's specifications. These extensions
and enhancements may be proprietary to Company or open source or
with the consent of both Company and the SQLite Architect may
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours
per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company
with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>The SQLite Developers shall at Company's request set up and run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.
<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.
</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.
</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.
</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.
</p>
<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.
2.3.6 Disaster Planning

Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

2.3.7 Trademark

Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

2.3.8 No Take-overs or Buy-outs

Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

2.3.9 New Consortium Members

New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

2.3.10 Adequate Staff

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

2.3.11 Use Of Funds

Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

2.4 Responsibilities And Obligations Of Company
<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>
<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>
<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include...
information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>
 Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>
 Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>
The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers’ and Hwaci’s rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

6.0 Representations And Warranties

6.1 Intellectual Property Clearances.

Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.

6.2 Disclaimer.

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
7.0 Term And Termination

7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and
their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>
8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

9.0 Signatures

The parties have executed this Agreement below to indicate their acceptance of its terms.

| HWACI<br> By:<br> Print Name: |
|---|---|
| <hr> | <hr> |
| &nbsp; | &nbsp; |
<p>&nbsp;</p>

Title:<hr>

By:<hr>

Print Name:<hr>

Title:<hr>

*/

* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

application is free to use the same database connection</a> or the

/* The "printf" code that follows dates from the 1980's. It is in the public domain. The original comments are included here for completeness. They are very out-of-date but might be useful as an historical reference. Most of the "enhancements" have been backed out so that the functionality is now the same as standard printf().

**************************************************************************
** This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLlite.
*/

MMFauxFont.prc

/*
** This code has been tested against that, and is equivalent,
# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
    execsql {CREATE TABLE tbl1(t1 text)}
    foreach word {this program is free software} {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
    execsql {
        CREATE TABLE t2(a);
        INSERT INTO t2 VALUES(1);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(345);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(67890);
        SELECT * FROM t2;
    }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
    set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
    set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
    execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
          ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
    execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
    execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
    execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
    execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
    execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
    execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
    execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
    execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
    execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
    execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
    execsql {SELECT substr(a,2,2) FROM t2}
Only do the following tests if TCL has UTF-8 capabilities

```
# Put some UTF-8 characters in the database
#

do_test func-3.0 {
  execsql {DELETE FROM tbl1}
  foreach word "contains UTF-8 characters hi\u1234ho" {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
```

```
do_test func-3.1 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
```

```
do_test func-3.2 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
```

```
do_test func-3.3 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
```

```
do_test func-3.4 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
```

```
do_test func-3.5 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
```

```
do_test func-3.6 {
  execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
```

```
do_test func-3.7 {
  execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
```

```
do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
```

```
do_test func-3.9 {
  execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
```

```
do_test func-3.10 {
  execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
```

```
do_test func-3.99 {
  execsql {DELETE FROM tbl1}
  foreach word {this program is free software} {
```
execsql "INSERT INTO tbl1 VALUES('Sword')"
}
execcs {SELECT t1 FROM tbl1}
} {this program is free software}
}
:# End ሴ!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
    catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if {[working_64bit_int]} {
do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 12345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a} 
} {0 [3 1234567890 5]}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2} 
} {1 [345 67890]}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1} 
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1} 
} {1 [wrong number of arguments to function round()]} 
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b} 
} {0 [-2.0 1.23 2.0]}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a} 
} {0 [2.0 1.0 -2.0]}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a} 
} {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a} 
} {0 [3.0 -12345.68 -5.0]}
do_test func-4.10 {
catchsql {SELECT `x` || round(c,a) || `y` FROM t1 ORDER BY a} 
} {0 [x3.0y x-12345.68y x-5.0y]}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a} 
} {1 [wrong number of arguments to function round()]} 
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),`nil`) FROM t2} 
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1} 
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));} 
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));} 
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b} 
} {0 [-2.0 1.23 2.0]}
}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit 
# long doubles, but not on GCC builds with 80-bit 
# long doubles.

```for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
       execsql {SELECT round($x1);}
    } $x2
}
```
```for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
       execsql {SELECT round($x1,1);}
    } $x2
}
```
```do_test func-4.20 {
       execsql {SELECT round(40223.49999999999);}
    } {40223.0}
``` ```do_test func-4.21 {
       execsql {SELECT round(40224.49999999999);}
    } {40224.0}
``` ```do_test func-4.22 {
       execsql {SELECT round(40225.49999999999);}
    } {40225.0}
``` ```for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
       execsql {SELECT round(40223.49999999999,$i);}
    } {40223.5}
``` ```do_test func-4.24.$i {
       execsql {SELECT round(40224.49999999999,$i);}
    } {40224.5}
``` ```do_test func-4.25.$i {
       execsql {SELECT round(40225.49999999999,$i);}
    } {40225.5}
``` ```for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
       execsql {SELECT round(40223.49999999999,$i);}
    } {40223.49999999999}
``` ```do_test func-4.27.$i {
       execsql {SELECT round(40224.49999999999,$i);}
    } {40224.49999999999}
``` ```do_test func-4.28.$i {
       execsql {SELECT round(40225.49999999999,$i);}
    } {40225.49999999999}
```
do_test func-4.29 {
execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
execsql {SELECT round(12345678901235.1);}
} {12345678901234.0}
do_test func-4.35 {
execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.36 {
execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}
do_test func-4.37 {
execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper}}

# Test the coalesce() and nullif() functions
#
# do_test func-6.1 {
# execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
# do_test func-6.2 {
# execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
# do_test func-6.3 {
# execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
# do_test func-6.5 {
execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
# do_test func-7.1 {
execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
# do_test func-8.1 {
# ifcapable explain {
# execsql {EXPLAIN SELECT sum(a) FROM t2;}
# }
# execsql {
# SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
# }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
# do_test func-8.1 {
# ifcapable explain {
# execsql {EXPLAIN SELECT sum(a) FROM t2;}
# }
# execsql {
#
SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;

} {68236 3 22745.0 1 67890 5}

} do_test func-8.2 {
execsql {
SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
}
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}

ifcapable tempdb {
} do_test func-8.3 {
execsql {
CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}

} else {
} do_test func-8.3 {
execsql {
CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}

} do_test func-8.4 {
execsql {
SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
}
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}

ifcapable compound {
} do_test func-8.5 {
execsql {
SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
UNION ALL SELECT -9223372036854775807)
}
} {0}

} do_test func-8.6 {
execsql {
SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
UNION ALL SELECT -9223372036854775807)
}
} {integer}

} do_test func-8.7 {
execsql {
SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
UNION ALL SELECT -9223372036854775807)
}
}
if capable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                             UNION ALL SELECT -9223372036850000000)
    }
  } {1}
}
if capable !floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                             UNION ALL SELECT -9223372036850000000)
    }
  } {1}
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
         length(randomblob(2000))
  }
} {32 1 2000}
# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
ifcapable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF'))}
    } {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
    } {6100620063006400310032006700}
  do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','"','12'))}
    } {6100620063006400650066006700}
  do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
    } {610061006100610066006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
    } {61626364313267}
  do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','"','12'))}
    } {61626364656667}
  do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
    } {6161616161626364656667}
}
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefg hijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',}
'int', 1234
);
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc(
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL
    );
}
} {1234}

do_test func-10.4 {
execsql {
    SELECT testfunc(
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
    );
}
} {1.234}

do_test func-10.5 {
execsql {
    SELECT testfunc(
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
    );
}
} {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
    SELECT sqlite_version(*);
}
# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions (implemented in func.c) only available in test builds.

# Function test_destructor() takes one argument and returns a copy of the text form of that argument. A destructor is associated with the return value. Function test_destructor_count() returns the number of outstanding destructor calls for values returned by test_destructor().

if {[db eval {PRAGMA encoding}]=='UTF-8'} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT test_destructor('hello world'), test_destructor_count();
    }
    } { {hello world} 1 }
  } else {
    ifcapable {utf16} {
      do_test func-12.1-utf16 {
        execsql {
          SELECT test_destructor16('hello world'), test_destructor_count();
        }
        } { {hello world} 1 }
      }
  }
  do_test func-12.2 {
    execsql {
      SELECT test_destructor_count();
    }
    } {0}
  do_test func-12.3 {
    execsql {
      SELECT test_destructor('hello')||' world';
    }
    } { {hello world} }
  do_test func-12.4 {
    execsql {
      CREATE TABLE t4(x);
      INSERT INTO t4 VALUES(test_destructor('hello'));
      INSERT INTO t4 VALUES(test_destructor('world'));
      SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
  }
# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds.
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
  } {0}
}
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
  } {}
}
do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
  } {0 1}
}
do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
  } {{0 0} {1 1}}
}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
  } {{0 0} {1 0}}
}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
  }
# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    }
} {0}

do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
} {1}

do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {}}

do_test func-15.2 {
    catchsql {select test_error('this is the error message')} 
} {1 {'this is the error message'}}

do_test func-15.3 {
    catchsql {select test_error('this is the error message',12)}
} {1 {'this is the error message'}}

do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
    execsql {
        CREATE TABLE tbl2(a, b);
    }
    set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
    sqlite3_bind_blob $::STMT 1 abc 3
    sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
    catchsql {
        SELECT testfunc1(1,2,3);
    }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
    execsql {
        CREATE TABLE t5(x);
        INSERT INTO t5 VALUES(1);
        INSERT INTO t5 VALUES(-99);
        INSERT INTO t5 VALUES(10000);
        SELECT sum(x) FROM t5;
    }
} {9902}
ifcapable floatingpoint {
    do_test func-18.2 {
        execsql {
            INSERT INTO t5 VALUES(0.0);
            SELECT sum(x) FROM t5;
        }
    } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
    execsql {
        DELETE FROM t5;
        SELECT sum(x), total(x) FROM t5;
    }
} {{} 0.0}

do_test func-18.4 {
    execsql {
INSERT INTO t5 VALUES(NULL);
SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.5 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.6 {
execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
# do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
    do_test func-18.12 {
        catchsql {
            INSERT INTO t6 VALUES(1<<62);
            SELECT sum(x) - ((1<<62)*2.0+1) from t6;
        }
    } {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
ifcapable !floatingpoint {
do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
  }
} 1 {integer overflow}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
} 0.0
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
  } -9223372036854775805
} ifcapable compound&&subquery {
  do_test func-18.15 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
    }
  } 1 {integer overflow}
if {[working_64bit_int]} {
  do_test func-18.16 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT -10 AS x);
    }
  } 0 9223372036854775797
  do_test func-18.17 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT -9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
    }
  } 0 -9223372036854775797
  do_test func-18.18 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT -9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
    }
  } 0 -9223372036854775797
}
SELECT -10 AS x);
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
  SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
} {0 -1}
do_test func-18.20 {
catchsql {
  SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
} {0 1}
do_test func-18.21 {
catchsql {
  SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
} {0 -1}
do_test func-18.22 {
catchsql {
  SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} {0 1}
} ;# if capable compound && subquery

# Integer overflow on abs()
#
if [[working_64bit_int]] {
do_test func-18.31 {
catchsql {
  SELECT abs(-9223372036854775807);
} {0 9223372036854775807}
}
do_test func-18.32 {
catchsql {
  SELECT abs(-9223372036854775807-1);
} {1 {integer overflow}}
}
# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
  SELECT match(a,b) FROM t1 WHERE 0;
}
} {}
do_test func-19.2 {
   catchsql {
      SELECT 'abc' MATCH 'xyz';
   } { 1 {unable to use function MATCH in the requested context}}
}
do_test func-19.3 {
   catchsql {
      SELECT 'abc' NOT MATCH 'xyz';
   } { 1 {unable to use function MATCH in the requested context}}
}
do_test func-19.4 {
   catchsql {
      SELECT match(1,2,3);
   } { 1 {wrong number of arguments to function match()}}
}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {  
   set i 0
   foreach {name sdx} {  
euler        E460  
EUler        E460  
Euler        E460  
ellery        E460  
gauss        G200  
ghosh        G200  
hilbert      H416  
Heilbronn     H416  
knuth        K530  
kant         K530  
Lloyd        L300  
LADD         L300  
Lukasiewicz  L222  
Lissajous    L222  
A            A000  
12345        ?000  
} {  
   incr i
   do_test func-20.$i {
      execsql {SELECT soundex($name)}
   } $sdx
   }
}

# Tests of the REPLACE function.
#
do_test func-21.1 {

catchsql {
    SELECT replace(1, 2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1, 2, 3, 4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
}
} {012345678901234567890123456789012345678901234567890123456789012345678901234567890}

ifcapable tclvar {
do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str [string repeat A 29998]CC[string repeat A 35537]
    set ::rep [string repeat B 65536]
    execsql {
        SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
}
# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execsql {SELECT trim('  hi  ');} 
} {hi}
do_test func-22.5 {
execsql {SELECT LTRIM('  hi  ');} 
} {{hi  }}
do_test func-22.6 {
execsql {SELECT rtrim('  hi  ');} 
} {{  hi  }}
do_test func-22.7 {
execsql {SELECT trim('  hi  ','xyz');} 
} {{  hi  }}
do_test func-22.8 {
execsql {SELECT ltrim('  hi  ','xyz');} 
} {{  hi  zzzy}}
do_test func-22.9 {
execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');} 
} {{xyxzy  hi  }}
do_test func-22.10 {
execsql {SELECT trim('  hi  ','');} 
} {{  hi  }}
do_test func-22.11 {
execsql {SELECT ltrim('xyxzy  hi  zzzy','xyz');} 
} {{  hi  zzzy}}
do_test func-22.12 {
execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');} 
} {{xyxzy  hi  }}
do_test func-22.13 {
execsql {SELECT trim(‘  hi  ’,”);} 
} {{  hi  }}
if {[db one [PRAGMA encoding]]=="UTF-8"} {
do_test func-22.14 {
execsql {SELECT hex(trim(x'c280e1bfbff48bf6869','x'6162e1bfbc280'))} 
}
} {F48FBFBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',
x'6162e1bfbfc280f48fbfbf'))}
} {6869}
do_test func-22.16 {
execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'));}
} {CEB2CEB3}
}
do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim('hello',NULL));}
} {null}
# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
do_test func-23.1 {
sqlite3_create_aggregate db
execsql {
SELECT legacy_count() FROM t6;
}
} {3}
}
# The group_concat() function.
#
do_test func-24.1 {
execsql {
SELECT group_concat(t1) FROM tbl1
}
} {this,program,is,free,software}
do_test func-24.2 {
execsql {
SELECT group_concat(t1,' ') FROM tbl1
}
} {{this program is free software}}
do_test func-24.3 {
execsql {
SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
}
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {

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execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
} {}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    } {thisprogramisfreesoftware}
do_test func-24.6 {
    execsql {
        SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    } {BEGIN-this,program,is,free,software}
}
# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[$sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ,$/i
    append midres /$i
    set result [md5 "$this${midres}program${midres}is${midres}free${midres}software${midres}"]
    set sql "$SELECT md5sum(t1$midargs) FROM tbl1"
do_test func-24.7.$i {
    db eval $::sql
} $result
}
# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
    } {}.program,is,freesoftware}
do_test func-24.9 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
    } {,,,,software}
# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program,is,free,software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
  }
} {software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
                  WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
  execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
  abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} [incr i] {
    lappend a $i
  }
  db eval "
    SELECT
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT

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do_test func-27.1 {
  catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
  catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
  catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
  db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
  }
catchsql {
    INSERT INTO t28(x) VALUES(1);
  }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_test func-29.3 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permuation] != "mmap"} {
do_test func-29.4 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
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* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
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 fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/custombuild.html
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2.31 0
1.23 0
1.0 0

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 **
 ************************************************************
 **
 ** This file contains the VFS implementation for unix-like operating systems
 ** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
 **
 ** There are actually several different VFS implementations in this file.
 ** The differences are in the way that file locking is done. The default
 ** implementation uses Posix Advisory Locks. Alternative implementations
 ** use flock(), dot-files, various proprietary locking schemas, or simply
 ** skip locking all together.
 **
 ** This source file is organized into divisions where the logic for various
 ** subfunctions is contained within the appropriate division. PLEASE
 ** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
 ** in the correct division and should be clearly labeled.
 **
 ** The layout of divisions is as follows:
 **
 ** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
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# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#***********************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent TEXT NOT NULL DEFAULT "," ,t_name TEXT NOT NULL ,t_value TEXT NOT NULL DEFAULT "",b_blob BLOB ,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP ,i_tmp INTEGER NOT NULL DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL ,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT NULL ,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')) ,i_parent INTEGER ,t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,rd_doctransaction_id INTEGER NOT NULL ,i_object_id INTEGER NOT NULL ,t_object_table TEXT NOT NULL ,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')) ,t_sqlorder TEXT NOT NULL DEFAULT "");
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,rd_doctransaction_id INTEGER NOT NULL ,t_message TEXT NOT NULL DEFAULT "" ,t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,t_name TEXT NOT NULL ,t_symbol TEXT NOT NULL DEFAULT "" ,t_country TEXT NOT NULL DEFAULT "" ,t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')) ,t_internet_code TEXT NOT NULL DEFAULT "" ,i_nbdecimal INT NOT NULL DEFAULT 2 ,rd_unit_id INTEGER NOT NULL DEFAULT 0 , t_source TEXT NOT NULL DEFAULT "");
CREATE TABLE univalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,rd_unit_id INTEGER NOT NULL ,d_date DATE NOT NULL ,f_quantity FLOAT NOT NULL DEFAULT 0 ,f_quantity>0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,t_name TEXT NOT NULL DEFAULT "" ,t_bank_number TEXT NOT NULL DEFAULT "" ,t_icon TEXT NOT NULL DEFAULT "");
CREATE TABLE interest (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT ,rd_account_id INTEGER NOT NULL ,d_date DATE NOT NULL ,f_rate FLOAT NOT NULL DEFAULT 0 ,f_rate>0));
    }
}
(t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', r_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT ", r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT ", rc_unit_id INTEGER NOT NULL, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N', 'P', 'T')), t_import_id TEXT NOT NULL DEFAULT ", i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT ");
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, f_transferred FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')), i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')), rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date
DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment
INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL
DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK
(t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK
(i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days
INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK
(t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id
INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT
'',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close
VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C'
CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N'
CHECK (t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N'
CHECK (t_autostart IN ('Y', 'N')),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(
id INT,
t_name TEXT,
t_fullname TEXT,
rd_category_id INT,
t_bookmarked TEXT,
i_NBOPERATIONS,
f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
id INT,
rc_category_id INT,
t_including_subcategories TEXT,
f_budgeted REAL,
f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
t_CATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);

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CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node (t_name, rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node (t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit (t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit (t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue (d_date, rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank (t_name);
CREATE UNIQUE INDEX uidx_account_name ON account (t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category (t_name, rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category (t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund (t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee (t_name);
CREATE UNIQUE INDEX uidx_interest ON interest (d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget (i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||parameters'; END;
CREATE TRIGGER fkdc_node_parameters_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)] > ''new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)] > ''new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkdc_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkdc_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id’) WHERE NEW.rc_category_id_target=0 AND NEW.re_category_id_target!’=’ AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fkdu_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id’) WHERE NEW.rc_category_id_target=0 AND NEW.re_category_id_target!’=’ AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;

CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id’) WHERE NEW.rd_doctransaction_id=0 AND NEW.re_doctransaction_id!’=’ AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkd_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fkdc_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionmsgmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsgmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsgmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id')  WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN  DELETE FROM doctransactionmsg WHERE doctransactionmsg.id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest) Nom de la contrainte: fki_interest_account_rd_account_id_id')   WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest) Nom de la contrainte: fku_interest_account_rd_account_id_id')       WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN     DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node) Nom de la contrainte: fki_node_node_rd_node_id_id')   WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node) Nom de la contrainte: fku_node_node_rd_node_id_id')       WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation) Nom de la contrainte: fki_operation_account_rd_account_id_id')   WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation) Nom de la contrainte: fku_operation_account_rd_account_id_id')       WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN     DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation) Nom de la contrainte: fki_operation_payee_r_payee_id_id')   WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation) Nom de la contrainte: fku_operation_payee_r_payee_id_id')       WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation)
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW 
BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)') 
WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW 
BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)') 
WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de detruire un objet (unit est utilis par operation)') 
WHERE rc_unit_id = OLD.id IS NOT NULL; END;

CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON 
recurrentoperation FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation)') 
WHERE r_recurrentoperation_id!=0 AND r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON 
recurrentoperation FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)') 
WHERE r_recurrentoperation_id!=0 AND r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON 
recurrentoperation FOR EACH ROW BEGIN 
UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;

CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance 
FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance)') 
WHERE r_operation_id!=0 AND r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance 
FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)') 
WHERE r_operation_id!=0 AND r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operationbalance 
FOR EACH ROW BEGIN 
UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;

CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation 
FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation)') 
WHERE rd_operation_id!=0 AND rd_operation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation 
FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)') 
WHERE rd_operation_id!=0 AND rd_operation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkd_recurrentoperation_operation_rd_operation_id_id BEFORE DELETE ON recurrentoperation 
FOR EACH ROW BEGIN 
UPDATE recurrentoperation SET rd_operation_id=0 WHERE rd_operation_id=OLD.id; END;
NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN
    DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par subopération)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par subopération)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN
    DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par subopération)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par subopération)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category
FOR EACH ROW BEGIN
    UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par subopération)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par subopération)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkdc_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund
FOR EACH ROW BEGIN
    UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit
FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='''
CREATE VIEW `v_operation_display_all` AS SELECT *
    , (SELECT s.t_name FROM account s WHERE s.id=v.operation.rd_account_id) AS t_ACCOUNT
    , (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v.operation.rc_unit_id) AS t_UNIT
    , (SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v.operation.i_MOSTIMPSUBOP) AS t_CATEGORY
    , (SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v.operation.i_MOSTIMPSUBOP) AS t_REFUND
    , (CASE WHEN v.operation.f_QUANTITY<0 THEN '-' WHEN v.operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE
    , (CASE WHEN v.operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS
    , STRFTIME('%Y-W%W',v.operation.d_date) AS d_DATEWEEK
    , STRFTIME('%Y-%m',v.operation.d_date) AS d_DATEMONTH
    , STRFTIME('%Y',v.operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v.operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v.operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v.operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER
    , STRFTIME('%Y',v.operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v.operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER
    , STRFTIME('%Y',v.operation.d_date) AS d_DATEYEAR
    , (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v.operation.id) AS i_NBRECURRENT
    , (CASE WHEN v.operation.f_QUANTITY>=0 THEN v.operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME
    , (CASE WHEN v.operation.f_QUANTITY<=0 THEN v.operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE
    , (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v.operation.id ) AS f_BALANCE
    , (CASE WHEN v.operation.f_QUANTITY>=0 THEN v.operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME
    , (CASE WHEN v.operation.f_QUANTITY<=0 THEN v.operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;

CREATE VIEW `v_operation_template_display` AS SELECT * FROM v_operation_display_all WHERE t_template='Y';

CREATE VIEW `v_operation_display` AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW `v_unit_display` AS SELECT *
    , (SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;

CREATE VIEW `v_account_display` AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prit' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS
    , bank.t_name  AS t_BANK
    , bank.t_bank_number AS t_BANK_NUMBER
    , bank.t_icon AS t_ICON
    , v_account.*
    , (v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY
    , (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT
    , (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS
    , IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;

CREATE VIEW `v_operation_consolidated` AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW `v_operation_unit_display` AS SELECT *
    , (SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;

CREATE VIEW `v_operation_account_display` AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prit' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS
    , (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON
    , (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT
    , IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id), '') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target), '') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS, (CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_univalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
FROM v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/./* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
finish_test
return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
    CREATE VIRTUAL TABLE fts USING fts4;
    CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
    CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
    CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
    CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
    CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
    CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);

CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);

CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);

CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER, "ncal:completed" INTEGER, "ncal:completed:graph" INTEGER, "ncal:completed:localDate" INTEGER, "ncal:completed:localTime" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER,
"ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER,
"ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL, "ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" INTEGER, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY, "nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER, "nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:tableOfContents" TEXT COLLATE NOCASE, "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:softwareItem" INTEGER, "nfo:softwareItem:graph" INTEGER, "nfo:softwareService" INTEGER, "nfo:softwareService:graph" INTEGER);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE, "nfo:programmingLanguage:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER, 
"nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate" REAL, 
"nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER,
"nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph" INTEGER, 
"nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,
"nid3:contentType" TEXT COLLATE NOCASE, "nid3:contentType:graph" INTEGER,
"nid3:length" INTEGER, "nid3:length:graph" INTEGER, 
"nid3:recordingYear" INTEGER, "nid3:recordingYear:graph" INTEGER,
"nid3:trackNumber" TEXT COLLATE NOCASE, "nid3:trackNumber:graph" INTEGER, 
"nid3:partOfSet" TEXT COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT COLLATE NOCASE, 
"nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY, 
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime" INTEGER, 
"nie:created" INTEGER, "nie:created:graph" INTEGER,
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph" INTEGER,
"nie:contentLastModified:localDate" INTEGER, "nie:contentLastModified:localTime" INTEGER,

"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph" INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER, 
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs" INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER, 
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER, 
"nie:license" TEXT COLLATE NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE NOCASE, "nie:identifier:graph" INTEGER, "nie:licenseType" TEXT COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet" TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:ContentSize" INTEGER, "nie:ContentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER, 
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER, 
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph" INTEGER, 
"slo:location" INTEGER, "slo:location:graph" INTEGER, 
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER, "osinfo:id" TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER, "osinfo:mediaId" TEXT COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER);
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL,
"mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:albumDiscTitle" TEXT COLLATE NOCASE, "nmm:albumDiscTitle:graph" INTEGER, "nmm:albumDiscYear" INTEGER, "nmm:albumDiscYear:graph" INTEGER, "nmm:albumDiscGain" INTEGER, "nmm:albumDiscGain:graph" INTEGER, "nmm:albumDiscPeakGain" INTEGER, "nmm:albumDiscPeakGain:graph" INTEGER);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,"nmo:hasSubtitle:graph" INTEGER, "nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER, "nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);

CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
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<tr>
<th>Создание таблицы</th>
<th>Описание</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CREATE TABLE &quot;dc:relation&quot;</code></td>
<td>Определение отношения между ресурсами, <code>ID INTEGER NOT NULL</code>, <code>dc:relation&quot; TEXT NOT NULL, &quot;dc:relation:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;dc:source&quot;</code></td>
<td>Определение источника ресурса, <code>ID INTEGER NOT NULL</code>, <code>dc:source&quot; INTEGER NOT NULL, &quot;dc:source:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;rdf:type&quot;</code></td>
<td>Определение типа ресурса, <code>ID INTEGER NOT NULL</code>, <code>&quot;rdf:type&quot; INTEGER NOT NULL, &quot;rdf:type:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:AccessLevel&quot;</code></td>
<td>Определение уровня доступа, <code>ID INTEGER NOT NULL PRIMARY KEY</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:AttendanceStatus&quot;</code></td>
<td>Определение состояния участия, <code>ID INTEGER NOT NULL PRIMARY KEY</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:AttendeeRole&quot;</code></td>
<td>Определение роли участника, <code>ID INTEGER NOT NULL PRIMARY KEY</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:Attendee_scal:delegated-from&quot;</code></td>
<td>Определение делегированного от участника, <code>ID INTEGER NOT NULL</code>, <code>&quot;scal:delegated-from&quot; INTEGER NOT NULL, &quot;scal:delegated-from:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:Attendee_scal:delegated-to&quot;</code></td>
<td>Определение делегированного участнику, <code>ID INTEGER NOT NULL</code>, <code>&quot;scal:delegated-to&quot; INTEGER NOT NULL, &quot;scal:delegated-to:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:Attendee_scal:member&quot;</code></td>
<td>Определение участника-члена, <code>ID INTEGER NOT NULL</code>, <code>&quot;scal:member&quot; INTEGER NOT NULL, &quot;scal:member:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:Attendee_scal:sent-by&quot;</code></td>
<td>Определение участника-отправителя, <code>ID INTEGER NOT NULL</code>, <code>&quot;scal:sent-by&quot; INTEGER NOT NULL, &quot;scal:sent-by:graph&quot; INTEGER</code></td>
</tr>
<tr>
<td><code>CREATE TABLE &quot;scal:Calendar&quot;</code></td>
<td>Определение календаря, <code>ID INTEGER NOT NULL PRIMARY KEY</code></td>
</tr>
</tbody>
</table>
CREATE TABLE "scal:CalendarItem_cal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_cal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_cal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_cal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_cal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_cal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl")
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium")
CREATE INDEX "nco:Role_nco:hasEmailAddress" (ID)
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" (ID, "nco:hasEmailAddress")
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress")
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber")
CREATE INDEX "nco:Role_nco:hasPostalAddress" (ID)
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" (ID, "nco:hasPostalAddress")
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url")
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl")
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder")
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark")
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified")
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts")
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest")
CREATE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry" (ID)
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry")
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry")
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden")
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia")
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated")
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist")
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource")
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_nml:location_ID" ON "nie:InformationElement_nml:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_nml:location_ID_ID" ON "nie:InformationElement_nml:location" ("nml:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" ("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" ("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc" (ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message" ("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" ("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
create unique index "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
create unique index "nmo:PhoneMessage_nmo:toVCard_ID_ID" on "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
create unique index "rdf:Property_rdfs:subPropertyOf_ID_ID" on "rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
create unique index "rdfs:Class_tracker:domainIndex_ID_ID" on "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
create unique index "rdfs:Resource_dc:contributor_ID_ID" on "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
create unique index "rdfs:Resource_dc:date_ID_ID" on "rdfs:Resource_dc:date" (ID, "dc:date");
create unique index "rdfs:Resource_nao:deprecated_ID_ID" on "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
create index "rdfs:Resource_nao:hasTag_ID" on "rdfs:Resource_nao:hasTag" (ID);
create unique index "rdfs:Resource_nao:isRelated_ID_ID" on "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
create unique index "scal:Attendee_scal:delegated-from_ID_ID" on "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
create unique index "scal:Attendee_scal:delegated-to_ID_ID" on "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
create unique index "scal:CalendarItem_scal:belongsToCalendar_ID_ID" on "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
create unique index "scal:CalendarItem_scal:contact_ID_ID" on "scal:CalendarItem_scal:contact" (ID, "scal:contact");
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation2", "nco:Role_nco:hasIMAddress3" AS
"nco:Role_nco:hasIMAddress3" AS "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ? FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||"nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',' FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."nco:EmailAddress" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"), ',' FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"), ',' FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"), ',' FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE))) FROM (SELECT "rdfs:Resource_nao:hasTag9"."nco:Tag" AS "6_u" FROM "rdfs:Resource_nao:hasTag9" WHERE "1_u" = "rdfs:Resource_nao:hasTag9"."ID"),(SELECT GROUP_CONCAT("6_u", ',' FROM (SELECT "rdfs:Resource_nao:hasTag9"."nco:Tag" AS "6_u" FROM "rdfs:Resource_nao:hasTag9" WHERE "1_u" = "rdfs:Resource_nao:hasTag9"."ID"),(SELECT Uri FROM Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT("nco:title", ',' FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE), ','))") FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation10"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE)||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress" WHERE ID = "7_u"), ? COLLATE NOCASE)) FROM "nco:Affiliation" WHERE ID = "2_u"))) WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||"nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',' FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."nco:EmailAddress" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"), ',' FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"), ',' FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"), ',' FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE))) FROM (SELECT "rdfs:Resource_nao:hasTag9"."nco:Tag" AS "6_u" FROM "rdfs:Resource_nao:hasTag9" WHERE "1_u" = "rdfs:Resource_nao:hasTag9"."ID"),(SELECT Uri FROM Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u"), ? COLLATE NOCASE)||COALESCE((SELECT GROUP_CONCAT("nco:title", ',' FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE), ','))") FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation10"."ID"),(SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE)||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress" WHERE ID = "7_u"), ? COLLATE NOCASE)) FROM "nco:Affiliation" WHERE ID = "2_u"))) WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID")
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:postalcode" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM Resource WHERE ID = (SELECT "nco:addressLocation" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE)||(select 1)) FROM (SELECT "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11"."ID" AND "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12"."ID"), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyName" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nao:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13"."ID" AND "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" = "nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT "nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS "nco:PersonContact1") ORDER BY "1_u";
} {/* Goto */}
No license file was found, but licenses were detected in source scan.

# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#***********************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

ifcapable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
    INSERT INTO t2 VALUES('c', 'III');

    CREATE TABLE t3(a, c);
    INSERT INTO t3 VALUES('a', 1);
    INSERT INTO t3 VALUES('b', 2);

    CREATE TABLE t4(a, c);
    INSERT INTO t4 VALUES('a', NULL);
    INSERT INTO t4 VALUES('b', 2);
} {}
set t1_cross_t2 [list }
# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
# * s/%JOIN%/,
# * s/%JOIN%/JOIN/
# * s/%JOIN%/INNER JOIN/
# * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
    foreach {tn2 joinop} [list 1 , 2 "CROSS JOIN" 3 "INNER JOIN"] {
        set S [string map [list %JOIN% $joinop] $select]
        uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
    }
}

#---------------------------------------------------------------
# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
proc do_join_test e_select-0.1.1 {
    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} [3]
proc do_join_test e_select-0.1.2 {
...
SELECT count(*) FROM t1 %JOIN% t2 USING (a) } {3}
do_join_test e_select-0.1.3 {
SELECT count(*) FROM t1 %JOIN% t2 } {9}
do_catchsql_test e_select-0.1.4 {
SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the same join}}
do_catchsql_test e_select-0.1.5 {
SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...
#
# 0: No FROM clause
# 1: Has FROM clause
#
# 0: No WHERE clause
# 1: Has WHERE clause
#
# 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {

0000.1 "SELECT 1, 2, 3 " {1 2 3}
1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

0010.1 "SELECT a, b, a||b FROM t1 " {
a one a one b two b two c three c three
}
1010.1 "SELECT DISTINCT a, b, a||b FROM t1 " {
a one a one b two b two c three c three
}
1200.1 "SELECT ALL a, b, a||b FROM t1 " {
a one a one b two b two c three c three
}

0010.1 "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
0010.2 "SELECT 1, 2, 3 WHERE 0 " {}
0010.3 "SELECT 1, 2, 3 WHERE NULL " {}

1010.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}
2010.1 "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0110.1 "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}
0110.2 "SELECT a, b, a||b FROM t1 WHERE a=='x' " {}

1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}
1110.2 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a=='x' " {}

2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x' " {}
0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1"
    {1 2 3}
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1 "SELECT count(*), max(a) FROM t1
    WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2 "SELECT count(*), max(a) FROM t1
    WHERE 0 GROUP BY b HAVING count(*)=2" {}

1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b"
    {1 a 1 b}
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
    GROUP BY b HAVING count(*)=1" {1 c 1 b}
1112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
    GROUP BY b HAVING count(*)=2" {}

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
    {1 c 1 b}
2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
    GROUP BY b HAVING count(*)=1" {1 a 1 c}
2112.2 "SELECT ALL count(*), max(a) FROM t1
    WHERE 0 GROUP BY b HAVING count(*)=2" {}

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
    1 "SELECT * FROM t1" {a one b two c three}
    2 "SELECT t1.* FROM t1" {a one b two c three}
    3 "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
    4 "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
5 "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
1 "SELECT t1.rowid FROM t1" {1 2 3}
2 "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 3 3 3}
3 "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 3 3 3 3 3}

4 "SELECT t1.rowid FROM t1" {1 2 3}
5 "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 3 3 3}
6 "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
{1 1 1 1 1 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3}

7 "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
8 "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
9 "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
do_select_tests e_select-0.5 {
1 "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
2 "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
3 "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
4 "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
do_select_tests e_select-0.6 {
1 "SELECT b||a FROM t1 ORDER BY b||a" {onea threec twob}
2 "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
3 "SELECT b||a FROM t1 ORDER BY (b||a) ASC" {onea threec twob}
4 "SELECT b||a FROM t1 ORDER BY (b||a) DESC" {twob threec onea}
}
do_select_tests e_select-0.7 {
  1 "SELECT * FROM t1" {a one b two c three}
  2 "SELECT * FROM t1 ORDER BY b" {a one c three b two}
  3 "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}
  4 "SELECT * FROM t1 LIMIT 10" {a one b two c three}
  5 "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
  6 "SELECT * FROM t1 LIMIT 10, 5" {}
  7 "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
  8 "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
  9 "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}
  10 "SELECT * FROM t1 UNION SELECT b, a FROM t1" 
     {a one b two c three one a three c two b}
  11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b" 
     {a one b two c three one a three c two b}
  12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a" 
     {a one b two c three one a three c two b}
  13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10" 
     {a one b two c three one a three c two b}
  14 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5" 
     {two b}
  15 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5" 
     {}
  16 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10" 
     {a one b two c three one a three c two b}
  17 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5" 
     {b two}
  18 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5" 
     {}
}

# The following tests focus on FROM clause (join) processing.

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple 
# SELECT statement, then the input data is implicitly a single row zero 
# columns wide

do_select_tests e_select-1.1 {
  1 "SELECT 'abc'" {abc}
  2 "SELECT 'abc' WHERE NULL" {}
  3 "SELECT NULL" {{}}
  4 "SELECT count(*)" {1}
5 "SELECT count(*) WHERE 0" {0}
6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
    CREATE TABLE xx(x, y);
    INSERT INTO xx VALUES('IiJlsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
    INSERT INTO xx VALUES(NULL, -16.87);
    INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}
do_select_tests e_select-1.2 {
1  "SELECT quote(x), quote(y) FROM xx" {
    'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
    NULL             -16.87
    -17.89           'linguistically'
}
2  "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
3  "SELECT sum(x), sum(y) FROM xx" {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#do_select_tests e_select-1.3 {
1  "SELECT * FROM t1, t2, t3" {
    a one a I a I a one a I b 2 a one b II a 1
    a one b II b 2 a one c III a 1 a one c III b 2
    b two a I a I b 2 b two a I b 2 b two b II a 1
    b two b II b 2 b two c III a 1 b two c III b 2
    c three a I a I c three a I b 2 c three b II a 1
    c three b II b 2 c three c III a 1 c three c III b 2
}}
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (""," and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and ",," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and ",," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
  CREATE TABLE x1(a, b);
  CREATE TABLE x2(c, d, e);
  CREATE TABLE x3(f, g, h, i);

  -- x1: 3 rows, 2 columns
  INSERT INTO x1 VALUES(24, 'converging');
  INSERT INTO x1 VALUES(NULL, X'CB71');
  INSERT INTO x1 VALUES('blonds', 'proprietary');

  -- x2: 2 rows, 3 columns
  INSERT INTO x2 VALUES(-60.06, NULL, NULL);
  INSERT INTO x2 VALUES(-58, NULL, 1.21);

  -- x3: 5 rows, 4 columns
  INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
  INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
  INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
  INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
  INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
} {}
# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
# dataset are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
    SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
    SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
    SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
    SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
    SELECT * FROM x2 %JOIN% x3
} [list -60.06 {} {}      -39.24 {} encompass -1                 \
    -60.06 {} {}      presenting 51 reformation dignified     \
    -60.06 {} {}      conducting -87.24 37.56 {}             \
    -60.06 {} {}      coldest -96 dramatists 82.3            \
    -60.06 {} {}      alerting {} -93.79 {}                  \
    -58 {} 1.21       -39.24 {} encompass -1                 \
    -58 {} 1.21       presenting 51 reformation dignified     \
    -58 {} 1.21       conducting -87.24 37.56 {}             \
    -58 {} 1.21       coldest -96 dramatists 82.3            \
    -58 {} 1.21       alerting {} -93.79 {}                  \
]

# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#
# x1, x2   (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
    SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
  expr {[llength [execsql {SELECT * FROM x1, x2}]] / 6}
} [expr 2+3]

# x2, x3  (Nlhs=2, Nrhs=5)  (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
  SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
  expr {[llength [execsql {SELECT * FROM x2 JOIN x3}]] / 10}
} [expr 3+4]

# x3, x1  (Nlhs=5, Nrhs=3)  (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
  SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
  expr {[llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 25}
} [expr 4+2]

# x3, x3  (Nlhs=5, Nrhs=5)  (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
  SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
  expr {[llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25}
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1

do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
  3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]

# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2
]
2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list] \ 
3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list] \ 
4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list] \ 
5 { SELECT * FROM t1 %JOIN% t2 ON ('lab') } $t1_cross_t2 \ 
6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2 \ 
7 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2 \ 
8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list] \ 
9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) } \ 
10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') } \ 
11 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } \ 
} 

do_join_test e_select-1.3.$tn $select $res

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {
  cannot join using column %s - column not present in both tables
} 

1 { SELECT * FROM t1, t3 USING (b) } "b"
2 { SELECT * FROM t3, t1 USING (c) } "c"
3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the
# expression "lhs.X = rhs.X" is evaluated for each row of the cartesian
# product as a boolean expression. All rows for which one or more of the
# expressions evaluates to false are excluded from the result set.
#
do_select_tests e_select-1.5 {
  1 { SELECT * FROM t1, t3 USING (a) } {a one 1 b two 2}
  2 { SELECT * FROM t3, t4 USING (a,c) } {b 2}
}

# EVIDENCE-OF: R-54046-48600 When comparing values as a result of a
# USING clause, the normal rules for handling affinities, collation
# sequences and NULL values in comparisons apply.
#
# EVIDENCE-OF: R-35466-18578 The column from the dataset on the
# left-hand side of the join operator is considered to be on the
# left-hand side of the comparison operator (=) for the purposes of
# do_execsql_test e_select-1.6.0 {

CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
INSERT INTO t5 VALUES('AA', 'cc');
INSERT INTO t5 VALUES('BB', 'dd');
CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
INSERT INTO t6 VALUES('aa', 'cc');
INSERT INTO t6 VALUES('bb', 'DD');
}

foreach {tn select res} {
  1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
  2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {}
  3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
      {aa cc bb DD dd}
  4 { SELECT * FROM t5 %JOIN% t6 USING (a,b) } {AA cc}
  5 { SELECT * FROM t6 %JOIN% t5 USING (a,b) } {}
}

# do_join_test e_select-1.6.$tn $select $res

# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.

# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.

foreach {tn select res} {
  1a { SELECT * FROM t1 %JOIN% t2 USING (a) } {a one I b two II c three III}
  1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) } {a one a I b two b II c three c III}
  2a { SELECT * FROM t3 %JOIN% t4 USING (a) } {a 1 b 2 2}
  2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) } {a 1 a b 2 b 2}
  3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) } {b 2}
  3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) } {b 2 b 2}
  4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
       %JOIN% t5 USING (a) } {aa cc cc aa bb DD dd}
  4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
       %JOIN% t5 USING (a) }
%JOIN% t5 ON (x.a=t5.a) }
{aa cc AA cc bb DD BB dd}
} }
do_join_test e_select-1.7.Stn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
do_execsql_test e_select-1.8.0 {
CREATE TABLE t7(a, b, c);
CREATE TABLE t8(a, d, e);

INSERT INTO t7 VALUES('x', 'ex', 24);
INSERT INTO t7 VALUES('y', 'why', 25);

INSERT INTO t8 VALUES('x', 'abc', 24);
INSERT INTO t8 VALUES('z', 'ghi', 26);
}
}
do_select_tests e_select-1.8 {
1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
do_select_tests e_select-1.9 {
1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
   {x ex 24 x abc 24 y why 25 {} {} {}}
2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
# do_select_tests e_select-1-10 {
  1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
  1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}

  2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
  2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}

  3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}}
  3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {}}

  4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x abc 24 ex 24 z ghi 26 {} {}}
  4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x abc 24 ex 24 z ghi 26 {} {}}

  5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}
  5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2}

  6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
  6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a 1 b 2}
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
# on the results of the join.
#
# do_execsql_test e_select-1.11.0 {
  CREATE TABLE t10(x, y);
  INSERT INTO t10 VALUES(1, 'true');
  INSERT INTO t10 VALUES(0, 'false');
} {}
# do_select_tests e_select-1-11 {
  1a "SELECT a, x FROM t1 CROSS JOIN t10" {a l a 0 b l b 0 c l c 0}
  1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a l a 0 b l b 0 c l c 0}
}

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
# foreach {tn sql} {
  1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
  2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
  3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
} {
  do_catchsql_test e_select-1.12.$tn "$sql"
}
The next block of tests - e_select-3.* - concentrate on verifying
statements made regarding WHERE clause processing.

drop_all_tables
do_execsql_test e_select-3.0 {
  CREATE TABLE x1(k, x, y, z);
  INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
  INSERT INTO x1 VALUES(2, X'A8E8D66F', X'07CF', -81);
  INSERT INTO x1 VALUES(3, -22, -27.57, NULL);
  INSERT INTO x1 VALUES(4, NULL, 'bygone', 'picky');
  INSERT INTO x1 VALUES(5, NULL, 96.28, NULL);
  INSERT INTO x1 VALUES(6, 0, 1, 2);

  CREATE TABLE x2(k, x, y2);
  INSERT INTO x2 VALUES(1, 50, X'B82838');
  INSERT INTO x2 VALUES(5, 84.79, 65.88);
  INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
  INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.

#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}
do_execsql_test e_select-3.2.1a {
  SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
  SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 3 5}
do_execsql_test e_select-3.2.2 {
  SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {2 4 6}
do_execsql_test e_select-3.2.3 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
}
drop_all_tables
do_execsql_test e_select-4.0 {
  CREATE TABLE z1(a, b, c);
  CREATE TABLE z2(d, e);
  CREATE TABLE z3(a, b);

  INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
  INSERT INTO z1 VALUES(-5, NULL, 75);
  INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
  INSERT INTO z1 VALUES(NULL, 67, 'quartets');
  INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
  INSERT INTO z1 VALUES(63, 'born', -26);

  INSERT INTO z2 VALUES(NULL, 21);
  INSERT INTO z2 VALUES(36, 6);

  INSERT INTO z3 VALUES('subsistence', 'gauze');
  INSERT INTO z3 VALUES(49.17, -67);
}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
  1  "SELECT * FROM z1 LIMIT 1"   {51.65 -59.58 belfries}
  2  "SELECT * FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries {} 21}
  3  "SELECT z1.* FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries}
  4  "SELECT z2.* FROM z1,z2 LIMIT 1" {{} 21}
  5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}

  6  "SELECT count(*), * FROM z1"   {6 63 born -26}
  7  "SELECT max(a), * FROM z1"     {63 63 born -26}
  8  "SELECT *, min(a) FROM z1"     {-5 {} 75 -5}

  9  "SELECT *,* FROM z1,z2 LIMIT 1" {
      51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21}
# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*" expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or "alias.*" expression in a simple SELECT query that does not have a FROM clause.
#
foreach {tn select err} {
    1.1 "SELECT a, b, c FROM z1 WHERE *"    {near ": syntax error}  
    1.2 "SELECT a, b, c FROM z1 GROUP BY *" {near ": syntax error}  
    1.3 "SELECT 1 + * FROM z1"                 {near ": syntax error}  
    1.4 "SELECT * + 1 FROM z1"                {near ": syntax error}  
    2.1 "SELECT *"   {no tables specified}     
    2.2 "SELECT * WHERE 1"   {no tables specified}     
    2.3 "SELECT * WHERE 0"   {no tables specified}     
    2.4 "SELECT count(*), *"   {no tables specified}     
} {
    do_catchsql_test e_select-4.2.$tn $select [list 1 $err]  
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned by a simple SELECT statement is equal to the number of expressions in the result expression list after substitution of * and alias.* expressions.
#
foreach {tn select nCol} {
    1   "SELECT * FROM z1"   3  
    2   "SELECT * FROM z1 NATURAL JOIN z3"  3  
    3   "SELECT z1.* FROM z1 NATURAL JOIN z3"  3 
    4   "SELECT z3.* FROM z1 NATURAL JOIN z3"  2 
    5   "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"  5 
    6   "SELECT 1, 2, z1.* FROM z1"  5  
    7   "SELECT a, *, b, c FROM z1"  6 
} {
    set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]  
    do_test e_select-4.3.$tn [ sqlite3_column_count ::stmt ] $nCol  
    sqlite3_finalize ::stmt  
}
In lang_select.html, a non-aggregate query is defined as any simple SELECT that has no GROUP BY clause and no aggregate expressions in the result expression list. Other queries are aggregate queries. Test cases e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of simple SELECT that is different for aggregate and non-aggregate queries verify (in a way) that these definitions are consistent:

- EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate query if it contains either a GROUP BY clause or one or more aggregate functions in the result-set.
- EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no aggregate functions or a GROUP BY clause, it is a non-aggregate query.

EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate query, then each expression in the result expression list is evaluated for each row in the dataset filtered by the WHERE clause.

do_select_tests e_select-4.4 {
  1 "SELECT a, b FROM z1"
    {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born} 

  2 "SELECT a IS NULL, b+1, * FROM z1"
    {0 -58.58   51.65 -59.58 belfries
     0 {}       -5 {} 75
     0 -22.18 -2.2 -23.18 suiters
     1 68 {} 67 quartets
     0 -31.3 -1.04 -32.3 aspen
     0 1 {} 63 born -26} 

  3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366} 
}

Test cases e_select-4.5.* and e_select-4.6.* together show that:

- EVIDENCE-OF: R-51988-01124 The single row of result-set data created by evaluating the aggregate and non-aggregate expressions in the result-set forms the result of an aggregate query without a GROUP BY clause.

- EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate query without a GROUP BY clause, then each aggregate expression in the result-set is evaluated once across the entire dataset.
do_select_tests e_select-4.5 {
  1 "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
  2 "SELECT count(*), max(1)"                                {1 1}
  3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
  4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
  5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
# Note: The results of many of the queries in this block of tests are
# technically undefined, as the documentation does not specify which row
# SQLite will arbitrarily select to use for the evaluation of the
# non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
  CREATE TABLE a1(one PRIMARY KEY, two);
  INSERT INTO a1 VALUES(1, 1);
  INSERT INTO a1 VALUES(2, 3);
  INSERT INTO a1 VALUES(3, 6);
  INSERT INTO a1 VALUES(4, 10);

  CREATE TABLE a2(one PRIMARY KEY, three);
  INSERT INTO a2 VALUES(1, 1);
  INSERT INTO a2 VALUES(3, 2);
  INSERT INTO a2 VALUES(6, 3);
  INSERT INTO a2 VALUES(10, 4);
}
}
do_select_tests e_select-4.6 {
  1 "SELECT one, two, count(*) FROM a1"                        {4 10 4}
  2 "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2}
  3 "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1}
  4 "SELECT *, count(*) FROM a1 JOIN a2"                      {4 10 10 4 16}
  5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
  6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
  7 "SELECT group_concat(three, ","), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
do_select_tests e_select-4.7 {
  1 "SELECT one, two, count(*) FROM a1 WHERE 0"   {{} {} 0}
  2 "SELECT sum(two), * FROM a1, a2 WHERE three>5"   {{} {} {} {} {}}
  3 "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {
      1 1 1
    }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
  8.1 "SELECT count(*) FROM a1"
  8.2 "SELECT count(*) FROM a1 WHERE 0"
  8.3 "SELECT count(*) FROM a1 WHERE 1"
  8.4 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
  8.5 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
  # Set $nRow to the number of rows returned by $select:
  set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
  set nRow 0
  while {"SQLITE_ROW" == [sqlite3_step ::stmt]} { incr nRow }
  set rc [sqlite3_finalize ::stmt]

  # Test that $nRow==1 and that statement execution was successful
  # (rc==SQLITE_OK).
  do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
  CREATE TABLE b1(one PRIMARY KEY, two);
  INSERT INTO b1 VALUES(1, 'o');
  INSERT INTO b1 VALUES(4, 'f');
  INSERT INTO b1 VALUES(3, 't');
  INSERT INTO b1 VALUES(2, 't');
  INSERT INTO b1 VALUES(5, 'f');
  INSERT INTO b1 VALUES(7, 's');
  INSERT INTO b1 VALUES(6, 's');
  CREATE TABLE b2(x, y);
  INSERT INTO b2 VALUES(NULL, 0);
  INSERT INTO b2 VALUES(NULL, 1);
  INSERT INTO b2 VALUES('xyz', 2);
  INSERT INTO b2 VALUES('abc', 3);
  INSERT INTO b2 VALUES('xyz', 4);
CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
INSERT INTO b3 VALUES('abc', 'abc');
INSERT INTO b3 VALUES('aBC', 'aBC');
INSERT INTO b3 VALUES('Def', 'Def');
INSERT INTO b3 VALUES('dEF', 'dEF');
}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
  1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
      /### f 1 o ### s ### t/  
  }  
  2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
      1,2,3,4 10  5,6,7 18  
  }  
  3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
      4  1,5  2,6  3,7  
  }  
  4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
      4,3,5,7,6  1,2  
  }  
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL
# values are considered equal.
#
do_select_tests e_select-4.10 {
  1  "SELECT group_concat(y) FROM b2 GROUP BY x"  
  2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END"  
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation
# sequence with which to compare text values apply when evaluating
# expressions in a GROUP BY clause.
#
do_select_tests e_select-4.11 {

The expressions in a GROUP BY clause may not be aggregate expressions.

EVIDENCE-OF: R-63573-50730

EVIDENCE-OF: R-31537-00101

EVIDENCE-OF: R-04132-09474

EVIDENCE-OF: R-28262-47447

EVIDENCE-OF: R-55403-13450

do_execsql_test e_select-4.13.0 {
CREATE TABLE c1(up, down);
INSERT INTO c1 VALUES('x', 1);
INSERT INTO c1 VALUES('x', 2);
INSERT INTO c1 VALUES('x', 4);
INSERT INTO c1 VALUES('x', 8);
INSERT INTO c1 VALUES('y', 16);
INSERT INTO c1 VALUES('y', 32);

CREATE TABLE c2(i, j);
INSERT INTO c2 VALUES(1, 0);
INSERT INTO c2 VALUES(2, 1);
INSERT INTO c2 VALUES(3, 3);
INSERT INTO c2 VALUES(4, 6);
INSERT INTO c2 VALUES(5, 10);
INSERT INTO c2 VALUES(6, 15);
INSERT INTO c2 VALUES(7, 21);
INSERT INTO c2 VALUES(8, 28);
INSERT INTO c2 VALUES(9, 36);

CREATE TABLE c3(i PRIMARY KEY, k TEXT);
INSERT INTO c3 VALUES(1, 'hydrogen');
INSERT INTO c3 VALUES(2, 'helium');
INSERT INTO c3 VALUES(3, 'lithium');
INSERT INTO c3 VALUES(4, 'beryllium');
INSERT INTO c3 VALUES(5, 'boron');
INSERT INTO c3 VALUES(94, 'plutonium');
}

do_select_tests e_select-4.13 {
  1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x} 
  1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y} 
  1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x} 
  1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4} 

  2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y} 
  2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y''" {y} 

  2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36} 
} 

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then 
# evaluated once for each group of rows. 
# 
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate 
# expression, it is evaluated across all rows in the group. 
# 
do_select_tests e_select-4.15 {
  1 "SELECT sum(down) FROM c1 GROUP BY up" [15 48] 
  2 "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)" [54 36 27 21 39 28] 
  3 "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)" [80 36 40 21] 
  4 "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" [81 37 41 22] 
  5 "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
  1  "SELECT i, j FROM c2 GROUP BY i%2"             {8 28   9 36}
  2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
  3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  4  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  5  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
      {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
  1  "SELECT i, j FROM c2 GROUP BY i%2"          2
  2  "SELECT i, j FROM c2 GROUP BY i"            9
  3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

#---------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
do_execsql_test e_select-5.1.0 {
  CREATE TABLE h1(a, b);
  INSERT INTO h1 VALUES(1, 'one');
  INSERT INTO h1 VALUES(1, 'I');
  INSERT INTO h1 VALUES(1, 'i');
  INSERT INTO h1 VALUES(4, 'four');
  INSERT INTO h1 VALUES(4, 'IV');
  INSERT INTO h1 VALUES(4, 'iv');
CREATE TABLE h2(x COLLATE nocase);
INSERT INTO h2 VALUES('One');
INSERT INTO h2 VALUES('Two');
INSERT INTO h2 VALUES('Three');
INSERT INTO h2 VALUES('Four');
INSERT INTO h2 VALUES('one');
INSERT INTO h2 VALUES('two');
INSERT INTO h2 VALUES('three');
INSERT INTO h2 VALUES('four');

CREATE TABLE h3(c, d);
INSERT INTO h3 VALUES(1, NULL);
INSERT INTO h3 VALUES(2, NULL);
INSERT INTO h3 VALUES(3, NULL);
INSERT INTO h3 VALUES(4, '2');
INSERT INTO h3 VALUES(5, NULL);
INSERT INTO h3 VALUES(6, '2,3');
INSERT INTO h3 VALUES(7, NULL);
INSERT INTO h3 VALUES(8, '2,4');
INSERT INTO h3 VALUES(9, '3');
}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
  1  "SELECT ALL a FROM h1"      {1 1 4 4 4}
  2  "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
# The three testable statements above are tested by e_select-5.2.*, 
# 5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
  3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}
}

3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate rows, two NULL values are considered to be equal.
# do_select_tests e_select-5.5 {
1  "SELECT DISTINCT d FROM h3" {{} 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation sequence to compare text values with apply.
# do_select_tests e_select-5.6 {
1  "SELECT DISTINCT b FROM h1" {one I i four IV iv}
2  "SELECT DISTINCT b COLLATE nocase FROM h1" {one I four IV}
3  "SELECT DISTINCT x FROM h2" {One Two Three Four}
4  "SELECT DISTINCT x COLLATE binary FROM h2" {
   One Two Three Four one two three four
}
}

#-------------------------------------------------------------------------
# The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#
# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
# All the other tests in this section use compound SELECTs created
# using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.
#
# drop_all_tables
do_execsql_test e_select-7.1.0 {
CREATE TABLE j1(a, b, c);
CREATE TABLE j2(e, f);
CREATE TABLE j3(g);
} {}
do_select_tests e_select-7.1 -error {
SELECTs to the left and right of %s do not have the same number of result columns
} {
1   "SELECT a, b FROM j1   UNION ALL SELECT g FROM j3" {{UNION ALL}}
2   "SELECT * FROM j1   UNION ALL SELECT * FROM j3" {{UNION ALL}}
"SELECT a, b FROM j1 UNION ALL SELECT g FROM j3"  {{UNION ALL}}

"SELECT a, b FROM j1 UNION ALL SELECT * FROM j3,j2"  {{UNION ALL}}

"SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1"  {{UNION ALL}}

"SELECT a, b FROM j1 UNION ALL SELECT g FROM j3"  {{UNION}}

"SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1"  {{INTERSECT}}

"SELECT a, b FROM j1 INTERSECT SELECT g FROM j3"  {{INTERSECT}}

"SELECT a, b FROM j1 INTERSECT SELECT * FROM j3,j2"  {{INTERSECT}}

"SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1"  {{EXCEPT}}

"SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"  {{EXCEPT}}

"SELECT a, b FROM j1 EXCEPT SELECT * FROM j3,j2"  {{EXCEPT}}

"SELECT * FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"  {{ORDER BY}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT * FROM j1 ORDER BY a UNION ALL SELECT g FROM j3"  {{ORDER BY}}  {{UNION ALL}}

"SELECT * FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"  {{ORDER BY}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT * FROM j1 LIMIT 10 UNION ALL SELECT g FROM j3"  {{LIMIT}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"  {{ORDER BY}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j3,j2"  {{LIMIT}}  {{UNION}}

"SELECT * FROM j1 ORDER BY a UNION ALL SELECT g FROM j3"  {{ORDER BY}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT count(*) FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j3,j2"  {{LIMIT}}  {{UNION}}

"SELECT * FROM j1 ORDER BY a UNION ALL SELECT g FROM j3"  {{ORDER BY}}  {{UNION ALL}}

"SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT count(*) FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {{ORDER BY}}  {{UNION}}

"SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j3,j2"  {{LIMIT}}  {{UNION}}
11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
LIMIT {UNION}
12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
LIMIT {UNION}
13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
{ORDER BY} {EXCEPT}
14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
{ORDER BY} {EXCEPT}
15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
{ORDER BY} {EXCEPT}
16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
LIMIT {EXCEPT}
17 "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
LIMIT {EXCEPT}
18 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
LIMIT {EXCEPT}
19 "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
{ORDER BY} {INTERSECT}
20 "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
{ORDER BY} {INTERSECT}
21 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
{ORDER BY} {INTERSECT}
22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
LIMIT {INTERSECT}

} {set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]}
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
  1 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
  2 "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
  3 "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
  4 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
  5 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  6 "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"
  7 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
8 "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
9 "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
10 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
11 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
12 "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

13 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
14 "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
15 "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
16 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
17 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
18 "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

19 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
20 "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
21 "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
22 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
23 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
24 "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

19 do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION
# ALL operator, and all the rows from the SELECT to the right of it.
# drop_all_tables
do_execsql_test e_select-7.4.0 {
  CREATE TABLE q1(a TEXT, b INTEGER, c);
  CREATE TABLE q2(d NUMBER, e BLOB);
  CREATE TABLE q3(f REAL, g);

  INSERT INTO q1 VALUES(16, -87.66, NULL);
  INSERT INTO q1 VALUES('legible', 94, -42.47);
  INSERT INTO q1 VALUES('beauty', 36, NULL);

  INSERT INTO q2 VALUES('legible', 1);
  INSERT INTO q2 VALUES('beauty', 2);
  INSERT INTO q2 VALUES(-65.91, 4);
  INSERT INTO q2 VALUES('emanating', -16.56);

  INSERT INTO q3 VALUES('beauty', 2);
  INSERT INTO q3 VALUES('beauty', 2);
} {
  do_select_tests e_select-7.4 {
    SELECT a FROM q1 UNION ALL SELECT d FROM q2
    { 16 legible beauty legible beauty -65.91 emanating}
2  {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}  
   {16 -87.66 {} x legible 1}

3  {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}  
   {3 -16.56}

4  {SELECT * FROM q2 UNION ALL SELECT * FROM q3}  
   {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as  
# UNION ALL, except that duplicate rows are removed from the final  
# result set.
#
do_select_tests e_select-7.5 {
  1  {SELECT a FROM q1 UNION SELECT d FROM q2}  
     {-65.91 16 beauty emanating legible}

  2  {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}  
     {16 -87.66 {} x legible 1}

  3  {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}  
     {-16.56 3}

  4  {SELECT * FROM q2 UNION SELECT * FROM q3}  
     {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the  
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
  1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2}  
     {beauty legible}

  2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3}  
     {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of  
# rows returned by the left SELECT that are not also returned by the  
# right-hand SELECT.
#
do_select_tests e_select-7.7 {
  1  {SELECT a FROM q1 EXCEPT SELECT d FROM q2}  
     {16}

  2  {SELECT * FROM q2 EXCEPT SELECT * FROM q3}  
     {-65.91 4 emanating -16.56 legible 1}
}
do_select_tests e_select-7.8 {
    0   {SELECT * FROM q3} {beauty 2 beauty 2}
    1   {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
    2   {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

db nullvalue null
do_select_tests e_select-7.9 {
    1   {SELECT NULL UNION ALL SELECT NULL} {null null}
    2   {SELECT NULL UNION SELECT NULL} {null}
    3   {SELECT NULL INTERSECT SELECT NULL} {null}
    4   {SELECT NULL EXCEPT SELECT NULL} {}
    5   {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
    6   {SELECT NULL UNION SELECT 'ab'} {null}
    7   {SELECT NULL INTERSECT SELECT 'ab'} {}
    8   {SELECT NULL EXCEPT SELECT 'ab'} {null}
    9   {SELECT NULL UNION ALL SELECT 0} {null 0}
   10  {SELECT NULL UNION SELECT 0} {null 0}
   11  {SELECT NULL INTERSECT SELECT 0} {}
   12  {SELECT NULL EXCEPT SELECT 0} {null}
   13  {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
   14  {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2}
   15  {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
   16  {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47}
}
db nullvalue {}

drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
    # EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
text values is determined as if the columns of the left and right-hand
SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
# collation sequence specified with the postfix COLLATE operator.
# drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}

do_select_tests e_select-7.10 {
1  { SELECT 'abc' UNION SELECT 'ABC' } { ABC abc }
2  { SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' } { ABC }
3  { SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase } { ABC }
4  { SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase } { ABC abc }
5  { SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary } { ABC }
6  { SELECT a FROM y1 UNION SELECT b FROM y1 } { abc }
7  { SELECT b FROM y1 UNION SELECT a FROM y1 } { Abc abc }
8  { SELECT a FROM y1 UNION SELECT c FROM y1 } { aBC }
9  { SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1 } { aBC }
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
# drop_all_tables
do_execsql_test e_select-7.10.0 {
  CREATE TABLE w1(a TEXT, b NUMBER);
  CREATE TABLE w2(a, b TEXT);

  INSERT INTO w1 VALUES('1', 4.1);
  INSERT INTO w2 VALUES(1, 4.1);
} {}

do_select_tests e_select-7.11 {
1  { SELECT a FROM w1 UNION SELECT a FROM w2 } { 1 1 }
2  { SELECT a FROM w2 UNION SELECT a FROM w1 } { 1 1 }
3  { SELECT b FROM w1 UNION SELECT b FROM w2 } { 4.1 4.1 }
4  { SELECT b FROM w2 UNION SELECT b FROM w1 } { 4.1 4.1 }
5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}
9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } { 1 }
10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } { 1 }
11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } { 4.1 }
12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } { 4.1 }
}

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
#   e_select-7.12.0: Precedence of UNION vs. INTERSECT
#   e_select-7.12.1: Precedence of UNION vs. UNION ALL
#   e_select-7.12.2: Precedence of UNION vs. EXCEPT
#   e_select-7.12.3: Precedence of UNION vs. UNION ALL
#   e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
#   e_select-7.12.5: Precedence of INTERSECT vs. UNION
#   e_select-7.12.6: Precedence of UNION ALL vs. UNION ALL
#   e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                   "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
  CREATE TABLE t1(x);
  INSERT INTO t1 VALUES(1);
  INSERT INTO t1 VALUES(2);
  INSERT INTO t1 VALUES(3);
}
drop_all_tables
do_execsql_test e_select-7.12.0 {
  CREATE TABLE t1(x);
  INSERT INTO t1 VALUES(1);
  INSERT INTO t1 VALUES(2);
  INSERT INTO t1 VALUES(3);
}
foreach {tn select res} {
  1a "(1,2) INTERSECT (1) UNION (3)" {1 3}
  1b "(1) UNION (2,3) INTERSECT (1)" {1}
  2a "(1,2) UNION (3) UNION ALL (1)" {1 2 3 1}
  2b "(1) UNION ALL (3) UNION (2,3)" {1 2 3}
  3a "(1,2) UNION (3) EXCEPT (1)" {2 3}
  3b "(1,2) EXCEPT (3) UNION (1)" {1 2}
  4a "(1,2) INTERSECT (1) UNION ALL (3)" {1 3}
  4b "(1) UNION (2,3) INTERSECT (1)" {1}
  5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
  5b "(2,3) EXCEPT (2) INTERSECT (2)" {}
  6a "(2) UNION ALL (2) EXCEPT (2)" {}
  6b "(2) EXCEPT (2) UNION ALL (2)" {2}
  7 "(2,3) EXCEPT (2) EXCEPT (3)" {}
}
set select [string map { {( } SELECT x FROM t1 WHERE x IN { } ) $select}]
do_execsql_test e_select-7.12.0 { $select list {*}$res]
ORDER BY clauses

# drop_all_tables

do_execsql_test e_select-8.1.0 {
    CREATE TABLE d1(x, y, z);
    INSERT INTO d1 VALUES(1, 2, 3);
    INSERT INTO d1 VALUES(2, 5, -1);
    INSERT INTO d1 VALUES(1, 2, 8);
    INSERT INTO d1 VALUES(1, 2, 7);
    INSERT INTO d1 VALUES(2, 4, 93);
    INSERT INTO d1 VALUES(1, 2, -20);
    INSERT INTO d1 VALUES(1, 4, 93);
    INSERT INTO d1 VALUES(1, 5, -1);

    CREATE TABLE d2(a, b);
    INSERT INTO d2 VALUES('gently', 'failings');
    INSERT INTO d2 VALUES('commercials', 'bathrobe');
    INSERT INTO d2 VALUES('iterate', 'sexton');
    INSERT INTO d2 VALUES('babied', 'charitableness');
    INSERT INTO d2 VALUES('solemnness', 'annexed');
    INSERT INTO d2 VALUES('rejoicing', 'liabilities');
    INSERT INTO d2 VALUES('pragmatist', 'guarded');
    INSERT INTO d2 VALUES('barked', 'interrupted');
    INSERT INTO d2 VALUES('reemphasizes', 'reply');
    INSERT INTO d2 VALUES('lad', 'relenting');
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
do_select_tests e_select-8.1 {
    1 "SELECT * FROM d1 ORDER BY x, y, z" {
        1 2 -20 1 2 3 1 2 7 1 2 8
        1 4 93 1 5 -1 2 4 93 2 5 -1
    }
}

# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
# Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows

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are sorted in ascending (smaller values first) order by default.
#
# Test cases e_select-8.3.* test the above. All 8.3 test cases are
# copies of 8.2 test cases with the explicit "ASC" removed.
#
do_select_tests e_select-8 {
  2.1 "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
    1 2 -20 1 2 3 1 2 7 1 2 8
    1 4 93 1 5 -1 2 4 93 2 5 -1
  }
  2.2 "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
    2 5 -1 2 4 93 1 5 -1 1 4 93
    1 2 8 1 2 7 1 2 3 1 2 -20
  }
  2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
    2 4 93 2 5 -1 1 2 8 1 2 7
    1 2 3 1 2 -20 1 4 93 1 5 -1
  }
  2.4 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
    2 4 93 2 5 -1 1 2 -20 1 2 3
    1 2 7 1 2 8 1 4 93 1 5 -1
  }
  3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20 1 2 3 1 2 7 1 2 8
    1 4 93 1 5 -1 2 4 93 2 5 -1
  }
  3.3 "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
    2 4 93 2 5 -1 1 2 8 1 2 7
    1 2 3 1 2 -20 1 4 93 1 5 -1
  }
  3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
    2 4 93 2 5 -1 1 2 -20 1 2 3
    1 2 7 1 2 8 1 4 93 1 5 -1
  }
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).
#
do_select_tests e_select-8.4 {
  1 "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
    1 2 -20 1 2 3 1 2 7 1 2 8
    1 4 93 1 5 -1 2 4 93 2 5 -1
  }
  2 "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier that corresponds to the alias of one of the output columns, then the expression is considered an alias for that column.

do_select_tests e_select-8.5 {
1  "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
   -19 0 0 4 8 9 94 94
}
2  "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
   94 94 9 8 4 0 0 -19
}
3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
   /# 1 # 1 # 1 # 1 # 1 # 1 # 2 # 2/
}
4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
   /# 1 # 1 # 1 # 1 # 1 # 1 # 2 # 2/
}
Otherwise, if the ORDER BY expression is any other expression, it is evaluated and the returned value used to order the output rows.

If the SELECT statement is a simple SELECT, then an ORDER BY may contain any arbitrary expressions.

```plaintext
do_select_tests e_select-8.6 {
  1  "SELECT * FROM d1 ORDER BY x+y+z" {
    1 2 -20 1 5 -1 1 2 3 2 5 -1
    1 2 7 1 2 8 1 4 93 2 4 93
  }
  2  "SELECT * FROM d1 ORDER BY x*z" {
    1 2 -20 2 5 -1 1 5 -1 1 2 3
    1 2 7 1 2 8 1 4 93 2 4 93
  }
  3  "SELECT * FROM d1 ORDER BY y*z" {
    1 2 -20 2 5 -1 1 5 -1 1 2 3
    1 2 7 1 2 8 2 4 93 1 4 93
  }
}

do_select_tests e_select-8.7.1 -error {
  %s ORDER BY term does not match any column in the result set
}

```plaintext
do_select_tests e_select-8.7.2 {
  1  "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" { 1st
    -20 -2 -1 3 7 8 93 186 babied barked commercials gently
    iterate lad pragmatist reemphasizes rejoicing solemnness
  }
  2  "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" { 2nd
    1 -1 1 0 1 0 1 0 1 0 1 0 2 -2 2 0
    babied charitableness barked interrupted commercials bathrobe gently
    failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
    rejoicing liabilities solemnness annexed
  }
}
do_execsql_test e_select-8.8.0 {
CREATE TABLE d3(a);
INSERT INTO d3 VALUES('text');
INSERT INTO d3 VALUES(14.1);
INSERT INTO d3 VALUES(13);
INSERT INTO d3 VALUES(X'78787878');
INSERT INTO d3 VALUES(15);
INSERT INTO d3 VALUES(12.9);
INSERT INTO d3 VALUES(null);
}

CREATE TABLE d4(x COLLATE nocase);
INSERT INTO d4 VALUES('abc');
INSERT INTO d4 VALUES('ghi');
INSERT INTO d4 VALUES('DEF');
INSERT INTO d4 VALUES('JKL');
}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
# correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
SELECT a FROM d3 ORDER BY a
}

do_execsql_test e_select-8.8.2 {
SELECT a FROM d3 ORDER BY a DESC
}

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
SELECT x FROM d4 ORDER BY 1 COLLATE binary
}

do_execsql_test e_select-8.9.2 {
SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
# In the test 8.10.2, the only result-column expression has no alias. So the
# ORDER BY expression is not a reference to it and therefore does not inherit
# the collation sequence. In test 8.10.3, "x" is the alias (as well as the
# column name), so the ORDER BY expression is interpreted as an alias and the
# collation sequence attached to the result column is used for sorting.
#
do_execsql_test e_select-8.10.1 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
do_execsql_test e_select-8.11.1 {
    SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
    SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
do_execsql_test e_select-8.12.1 {
    SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
do_execsql_test e_select-8.13.0 {
    CREATE TABLE d5(a, b);
    CREATE TABLE d6(c, d);
    CREATE TABLE d7(e, f);
INSERT INTO d5 VALUES(1, 'f');
INSERT INTO d6 VALUES(2, 'e');
INSERT INTO d7 VALUES(3, 'd');
INSERT INTO d5 VALUES(4, 'c');
INSERT INTO d6 VALUES(5, 'b');
INSERT INTO d7 VALUES(6, 'a');

CREATE TABLE d8(x COLLATE nocase);
CREATE TABLE d9(y COLLATE nocase);

INSERT INTO d8 VALUES('a');
INSERT INTO d9 VALUES('B');
INSERT INTO d8 VALUES('c');
INSERT INTO d9 VALUES('D');
}

do_select_tests e_select-8.13 {
  1   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY a
    } { 1 2 3 4 5 6 }
  2   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY c
    } { 1 2 3 4 5 6 }
  3   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY e
    } { 1 2 3 4 5 6 }
  4   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 1
    } { 1 2 3 4 5 6 }

  5   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 2
    } { f 1   c 4   4 c   1 f }
  6   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 2
    } { f 1   c 4   4 c   1 f }

  7   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY a
    } { 1 f  4 c  4 c  1 f 1 }
  8   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 1
    } { 1 f  4 c  4 c  1 f 1 }

  9   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY a+1
    } { f 2   c 5   4 c   1 f }
10   { SELECT a, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 2
    } { f 2   c 5   4 c   1 f }

11   { SELECT a+1, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY a+1
    } { 2 f  5 c  5 c  5 f 2 }
12   { SELECT a+1, b FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
          ORDER BY 1
    } { 2 f  5 c  5 c  5 f 2 }
# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
# do_select_tests e_select-8.14 -error {
%$ ORDER BY term does not match any column in the result set
} {
  1 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 } 1st
  2 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 } 2nd
  3 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' } 1st
  4 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah } 1st
  5 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d } 3rd
  6 { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b } 4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
# do_select_tests e_select-8.15 {
  1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
      {1 e 1 f 4 b 4 c}
  2 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
      {1 e 1 f 4 b 4 c}
  3 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
      {1 e 1 f 4 b 4 c}
}

#-------------------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
# do_execsql_test e_select-9.0 {
CREATE TABLE f1(a, b);
INSERT INTO f1 VALUES(26, 'z');
INSERT INTO f1 VALUES(25, 'y');
INSERT INTO f1 VALUES(24, 'x');
INSERT INTO f1 VALUES(23, 'w');
INSERT INTO f1 VALUES(22, 'v');
INSERT INTO f1 VALUES(21, 'u');
INSERT INTO f1 VALUES(20, 't');
INSERT INTO f1 VALUES(19, 's');
INSERT INTO f1 VALUES(18, 'r');
INSERT INTO f1 VALUES(17, 'q');
INSERT INTO f1 VALUES(16, 'p');
INSERT INTO f1 VALUES(15, 'o');
INSERT INTO f1 VALUES(14, 'n');
INSERT INTO f1 VALUES(13, 'm');
INSERT INTO f1 VALUES(12, 'l');
INSERT INTO f1 VALUES(11, 'k');
INSERT INTO f1 VALUES(10, 'j');
INSERT INTO f1 VALUES(9, 'i');
INSERT INTO f1 VALUES(8, 'h');
INSERT INTO f1 VALUES(7, 'g');
INSERT INTO f1 VALUES(6, 'f');
INSERT INTO f1 VALUES(5, 'e');
INSERT INTO f1 VALUES(4, 'd');
INSERT INTO f1 VALUES(3, 'c');
INSERT INTO f1 VALUES(2, 'b');
INSERT INTO f1 VALUES(1, 'a');

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
# do_select_tests e_select-9.1 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') } {a b c d e}
4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#
# do_select_tests e_select-9.2 -error "datatype mismatch" {
1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
#
# do_select_tests e_select-9.4 {
1  { SELECT b FROM f1 ORDER BY a LIMIT -1 } {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}
2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 }
   {a b c d e f g h i j k l m n o p q r s t u v w x y z}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 }
   {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N rows of its result set only, where N is the value that the LIMIT expression evaluates to.
#
do_select_tests e_select-9.5 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
  2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
  3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
  4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return less than N rows without a LIMIT clause, then the entire result set is returned.
#
do_select_tests e_select-9.6 {
  1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
  2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5 5}
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional OFFSET clause that may follow a LIMIT clause must also evaluate to an integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
  3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
  4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
  5  { SELECT b FROM f1 ORDER BY a
       LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
  }
}
}
do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then the first M rows are omitted from the result set returned by the SELECT statement and the next N rows are returned, where M and N are the values that the OFFSET and LIMIT clauses evaluate to, respectively.
do_select_tests e_select-9.8 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5 } {f g h i j k l m n o}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10 } {k l m n o}
  3 { SELECT b FROM f1 ORDER BY a
       LIMIT (SELECT a FROM f1 WHERE b='j')
       OFFSET (SELECT a FROM f1 WHERE b='b')
   } {c d e f g h i j k l}
  4 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
  5 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
  6 { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
  7 { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
#
# do_select_tests e_select-9.9 {
#  1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
#  2 { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
#}

# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a
# negative value, the results are the same as if it had evaluated to
# zero.
#
# do_select_tests e_select-9.10 {
#  1 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
#  2 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
#  3 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
#}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the
# LIMIT clause may specify two scalar expressions separated by a comma.
#
# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used
# as the OFFSET expression and the second as the LIMIT expression.
#
# do_select_tests e_select-9.11 {
#  1 { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
#  2 { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
#  3 { SELECT b FROM f1 ORDER BY a
#         LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
#   } {c d e f g h i j k l}
#  4 { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
#  5 { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}

---

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6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}
10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}

finish_test

application code is free to use these routines as well, if desired.

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1   - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com’, 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’;

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'g.weldon@enron.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/ref/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

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I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey'

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject, body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran, If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com',
    'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attended you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
* OUTAGE.dbf
* 111201R.xls
* 111201.xls ';

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',
    'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
    'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:  
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,',' Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '"', '');

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',
'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM ----------------------
"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc: Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................
Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------------------
From: William Kelly @ ECT

12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra

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Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :   East Northeast
Dick Jenkins: East Marketeast

WK

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com','RE:','i will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com','claudette.harvey@enron.com,
chaun.roberts@enron.com,judy.martinez@enron.com','Disaster Recovery Equipment',
'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com','dale.neuner@enron.com','5 X 24',
'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com','m..tholt@enron.com',
'Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 9781
Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. 'Thanks!

Ben'};

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';)

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement."

Sue Mara

---

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"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To: "smara@enron.com"
<smara@enron.com>  cc:  Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
c: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,
These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/ licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '-------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '----------------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM -----------------------------

tagoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com.', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.

');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net.', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com, ', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ')
-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',
'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartz@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', ' 2001 Enron Law Conference
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just haven't had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey;

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL”s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush”s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

'):

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

'):

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

'):

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,
I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.brandon@enron.com, debbie.brackett@enron.com', 'Coastal Merchant Energy/El Paso Merchant Energy',

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 9781
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

chris
x31666;

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490;

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &; 'CALENDAR ENTRY: APPOINTMENT

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)
Chairperson: Outlook Migration Team

Detailed Description:

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG);

 INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document>' - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');

 INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com
OPEN SOURCE USED IN FIELD NETWORK DIRECTOR FOR VIRTUAL MACHINE INSTALLATION 4.7.1  9794

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too

BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374

Reliant
Steve McGinn
713-207-4000

LOG MESSAGES:

Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.

Variances detected.

Variances detected in Load schedule.
PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP',
 'This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
   COMMIT;
} }

###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################
do_test fts2c-1.2 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark'
    }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan'
    }
} {24 40}
do_test fts2c-1.4 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
} {40}
do_test fts2c-1.5 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan mark'
    }
} {40}
do_test fts2c-1.6 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH "mark susan"
    }
} {}
do_test fts2c-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
    }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    }
} {24}
do_test fts2c-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
# do_test fts2c-2.1 {
execsql {
SELECT rowid, offsets(email) FROM email
  WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH '"child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20, 2000: E-<b>GAS</b> Request <b>Reminder</b>}}

do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b><b>eve</b>?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}

do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
Review Enron asset base for <b>potential</b>/ licensing
Contract negotiations <b>...</b>}}

do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}

do_test fts2c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{(Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}

do_test fts2c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}

do_test fts2c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH "pursuant to"
}
} {{Erin:

Pursuant to your request, attached are the Schedule to ...
}
do_test fts2c-4.8 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'ancillary load davis'
}
} {{pete.davis@enron.com Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@enron.com six reports:
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...
}
do_test fts2c-5.2 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com six reports:
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

finish_test

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>.

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1.885 picketlink-idm-core 1.5.0.Alpha02
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
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For example, if you distribute copies of the library, whether gratis
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complete object files to the recipients, so that they can relink them
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.887 util-linux 2.23.2-61.el7

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot Start   End Blocks Id System
----------- ------- ------ ------ ------ ------
__ts_dev__1 2048 4095   1024   83   Linux
----------- ------- ------ ------ ------ ------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot Start   End Blocks Id System
----------- ------- ------ ------ ------ ------
__ts_dev__1 2048 4095   1024   83   Linux
----------- ------- ------ ------ ------ ------

Create 2st primary partition
1beb87248e05d6e462b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f6e bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot  Start  End   Blocks  Id  System
__ts_dev__1  2048   4095   1024   83  Linux
__ts_dev__2  4096  20479   8192   a5  FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start    end    size  fstype  [fsize bsize cpg]
c:   4096   20479  16384   unused    0    0

d:    0   16064  16065   unused    0    0

BSD disklabel command (m for help):
Command (m for help):
-------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start    end    size  fstype  [fsize bsize cpg]
a:   4096   6144   2049  4.2BSD    0    0    0
c:   4096   20479  16384   unused    0    0

d:    0   16064  16065   unused    0    0

BSD disklabel command (m for help):
Command (m for help):
-------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660           10  AdvFS
4  System V

BSD disklabel command (m for help):

1.888 ceph 10.2.5-4.el7

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Name: ceph
Maintainer: Sage Weil <sage@newdream.net>
Source: http://ceph.com/

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6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

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reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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use both them and the Library together in an executable that you
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1.899 gdbm 1.10-8.el7

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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1.911 bouncycastle-fips 1.0.3

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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 * *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.912 stax 3.1.4
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/StreamWriterDelegate.java
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  jar/org/codehaus/stax2/ri/typed/ValueEncoderFactory.java
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  jar/org/codehaus/stax2/typed/Base64Variant.java
  /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variants.java
  /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/XMLStreamReader2.java
  /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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  jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java

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  jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java

1.913 shadow 4.5 1ubuntu2
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information and to Tony Walton (olapw@olgb1.oliv.co.uk) for the System
V Release 4 changes. Effort in porting to SunOS has been contributed
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(mke@kaberdrain.com). Effort in porting to AT&T UNIX System V Release
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "\$\(.*\)\(.*\)o \1\1 > $@; \n[ -s $@ ]|| rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "\$\(.*\)\(.*\)o \1\1 > $@; \n[ -s $@ ]|| rm -f $@' 

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION_MAJOR) $@

## End FreeBSD-specific setup

1.916 lzop 1.03-10.el7
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.918 cairomm 1.12.0-1.el7

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Because of this blurred distinction, using the ordinary General
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-
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sources-1-jar/netty_unix_buffer.h
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-
sources-1-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-
sources-1-jar/netty_unix_buffer.c
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-
sources-1-jar/io/netty/channel/unix/Buffer.java

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  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_jni.h
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  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/io/netty/channel/unix/SocketWritableByteChannel.java
  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_limits.c
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  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_util.c
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  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_util.h
  * /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_limits.h
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* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_errors.c
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* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_filedescriptor.c
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_filedescriptor.h
1.925 slf4j-ext 1.7.2.redhat-2

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* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/ext/EventData.java
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1.926 libarchive 3.1.2-12.el7

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1.928 microcode-ctl 2.1-53.7.el7_7

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1.934 sqlite 3.7.17 8.el7_7.1

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procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

%BeginResource
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#
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# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#******************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
    TEXT NOT NULL DEFAULT ",",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",",b_blob
    BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
    DEFAULT 0);
    CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
    NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R'))d_date DATE NOT
    NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
    t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
    CREATE TABLE doctransactionitem (id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,
    t_object_table TEXT NOT NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D'))t_sqlorder TEXT NOT NULL
    DEFAULT ");
    CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_message TEXT
    NOT NULL DEFAULT ",",t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
    CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
    NOT NULL,t_symbol TEXT NOT NULL DEFAULT ",",t_country TEXT NOT NULL DEFAULT ",",t_type VARCHAR(1)
    NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O'))t_internet_code TEXT NOT NULL
    DEFAULT ",",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0,
    t_source TEXT NOT NULL DEFAULT ");
    CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id
    NOT NULL,t_value TEXT NOT NULL DEFAULT ",",i_tmp INTEGER NOT NULL DEFAULT 0)
  }
}
| CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT ''); |
| CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365'))); |
| CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N', 'P', 'T')), t_import_id TEXT NOT NULL DEFAULT '', i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0); |
| CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, f_balance FLOAT NOT NULL DEFAULT 0, r_operation_id INTEGER NOT NULL); |
| CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N'))); |
| CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N'))); |
| CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT ''); |
| CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) NOT NULL DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), f_sortorder FLOAT); |
| CREATE TABLE budget (id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0); |
| CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0); |
| CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'N' CHECK (t_category_condition IN ('Y', 'N')), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, f_transferred FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12)); |
| CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK); |
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL DEFAULT 'M',t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp(id INT,t_name TEXT,t_fullname TEXT,rd_category_id INT,t_bookmarked TEXT,i_NBOPERATIONS,f_REALCURRENTAMOUNT);

CREATE TABLE vm_budget_tmp(id INT,rc_category_id INT,t_including_subcategories TEXT,f_budgeted REAL,f_budgeted_modified REAL,f_transferred REAL,i_year INT,i_month INT,t_CATEGORY,t_PERIOD,f_CURRENTAMOUNT,t_RULES);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
DETERMINE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DETERMINE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account) Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account) Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget) Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fk_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fk_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
NEW_r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW_r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation) Nom de la contrainte: fki_operation_unit_rc_unit_id_id' ) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation) Nom de la contrainte: fku_operation_unit_rc_unit_id_id' ) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation) Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id' ) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation) Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id' ) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance) Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id' ) WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance) Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id' ) WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operationbalance FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation) Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id' ) WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS...
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation)') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN     UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN     UPDATE unit SET rd_unit_id=0 WHERE rd_unit_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;

CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN     UPDATE unit SET rd_unit_id=0 WHERE rd_unit_id=OLD.id; END;
Nom de la contrainte: fki_unit_unit_rd_unit_id_id' WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id' WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id' WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id' WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id' WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)|| ||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers AS T2 ON
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;

CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,(SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY= v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;

CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;

CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisés à supprimer cette opération car en tant rapproché END) t_delete_message FROM operation;

CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM  interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;

CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNL FROM recurrentoperation;

CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;

CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;

CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND FROM v_suboperation;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop AS t_OPERATION,sop.f_value AS f_REALQUANTITY,sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, (SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,(SELECT w.t_TYPENLS FROM v_currency w WHERE w.id=sop.r_currency_id) AS t_CURRENCY) AS t_OPERATIONCURRENCY,(SELECT op.t_comment) AS t_REALCOMMENT, (SELECT op.t_CATEGORY) AS t_REALCATEGORY, (SELECT sop.r_refund_id) AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS t_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer ce suiveur car utilis par des opérations rapprochées' ELSE 'Vous pouvez effacer ce suiveur car il n’est utilisé par aucune opération rapprochée' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE  FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer ce tiers car utilis par des opérations rapprochées' ELSE 'Vous pouvez effacer ce tiers car il n’est utilisé par aucune opération rapprochée' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT *  FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname(' %')) AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer cette catégorie car elle est utilisée par des opérations rapprochées' ELSE 'Vous pouvez effacer cette catégorie car elle ne est utilisée par aucune opération rapprochée' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname) AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT...
CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname || '%') AS i_NBOPERATIONS, (CASE WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname || '%') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'D' ELSE 'R' END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_COMMENT, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Natif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Annee' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id)) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM v_budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA

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FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, tCATEGORY||t_PERIOD||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.id||'subcategory'; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
# The next test requires FTS4
if capable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
        CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
        CREATE VIRTUAL TABLE fts USING fts4;
        CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
        CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupId" INTEGER, "mfo:groupId:graph" INTEGER, "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
        CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
        CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
        CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Transfer_mlo:transferList" (ID INTEGER NOT NULL,
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL,
"mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL,
"mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER,
"nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member" INTEGER,
"ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph" INTEGER,
"ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
<table>
<thead>
<tr>
<th>SQL Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREATE TABLE &quot;ncal:AttendeeRole&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart_ncal:bydayModifier&quot; (ID INTEGER NOT NULL, &quot;ncal:bydayModifier&quot; INTEGER NOT NULL, &quot;ncal:bydayModifier:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart_ncal:bydayWeekday&quot; (ID INTEGER NOT NULL, &quot;ncal:bydayWeekday&quot; INTEGER NOT NULL, &quot;ncal:bydayWeekday:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:CalendarDataObject&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:CalendarScale&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:CalendarUserType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Calendar_ncal:component&quot; (ID INTEGER NOT NULL, &quot;ncal:component&quot; INTEGER NOT NULL, &quot;ncal:component:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Event&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:eventStatus&quot; INTEGER, &quot;ncal:eventStatus:graph&quot; INTEGER, &quot;ncal:transp&quot; INTEGER, &quot;ncal:transp:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:EventStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:Freebusy&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:FreebusyPeriod&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:fbtype&quot; INTEGER, &quot;ncal:fbtype:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:FreebusyType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:Freebusy_ncal:freebusy&quot; (ID INTEGER NOT NULL, &quot;ncal:freebusy&quot; INTEGER NOT NULL, &quot;ncal:freebusy:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:Journal&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:journalStatus&quot; INTEGER, &quot;ncal:journalStatus:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:JournalStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:NcalDateTime&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:ncalTimezone&quot; INTEGER, &quot;ncal:ncalTimezone:graph&quot; INTEGER, &quot;ncal:date&quot; INTEGER, &quot;ncal:date:graph&quot; INTEGER, &quot;ncal:date:localDate&quot; INTEGER, &quot;ncal:date:localTime&quot; INTEGER, &quot;ncal:dateTime&quot; INTEGER, &quot;ncal:dateTime:graph&quot; INTEGER, &quot;ncal:dateTime:localDate&quot; INTEGER, &quot;ncal:dateTime:localTime&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:NcalTimeEntity&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:Organizer&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:ParticipationStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:RecurrenceFrequency&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime" INTEGER,
"ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER,
"ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER,
"ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT COLLATE NOCASE,
"ncal:comment:graph" INTEGER, "ncal:summaryAltRep" INTEGER,
"ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration" INTEGER,
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasLocation" INTEGER NOT NULL, "ncal:hasLocation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER,
"nco:nameHonorificSuffix" TEXT COLLATE NOCASE, "nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix" TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER, "nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL,
"nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY, "nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE, "nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
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<th>Additional Information</th>
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CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER, "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER, "nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime"
INTEGER, "nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph"
INTEGER, "tracker:available" INTEGER, "tracker:available:graph"
INTEGER);

CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:storedAs">
"nie:storedAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate"
INTEGER, "nie:contentCreated:localTime" INTEGER, "nie:license" TEXT
COLLATE NOCASE, "nie:license:graph" INTEGER, "nie:licenseType" TEXT
COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet"
TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize" INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph"
INTEGER, "slo:location" INTEGER, "slo:location:graph" INTEGER,
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:mustAnswerReportRead" (ID INTEGER NOT NULL, "nmo:mustAnswerReportRead" INTEGER NOT NULL, "nmo:mustAnswerReportRead:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:mustAnswerReportRead" (ID INTEGER NOT NULL, "nmo:mustAnswerReportRead:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY, "scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER, "scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER, "scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER,
"scal:alarmAttendee" INTEGER, "scal:alarmAttendee:graph" INTEGER,
"scal:alarmAttendee:graph" INTEGER,
"scal:alarmAttendee:graph" INTEGER,
"scal:alarmAttendee:graph" INTEGER,
"scal:alarmAttendee:graph" INTEGER,
"scal:alarmAttendee:graph" INTEGER,
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY, "slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude" REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL, "slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON "mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList")
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest")
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast")
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON
"ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON
"ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON
"ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON
"ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON
"ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON
"ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToChild" (ID,
"ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToParent" (ID,
"ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON
"ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON
"ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact Scalars:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON
"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON "rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" (ID, "nao:hasTag");
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource_tracker:added" (ID, "tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact")
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule")
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress")
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory")
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact")
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails")

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE||COALESCE((SELECT "nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)||COALESCE((SELECT "nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE), '
')) FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS "3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" = "nco:Role_nco:hasIMAddress3"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ? COLLATE NOCASE||COALESCE((SELECT "nco:phoneName" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ? COLLATE NOCASE), '
')))
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID = "1_u", (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u") ? COLLATE NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:postalcode" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM Resource WHERE ID = (SELECT "nco:addressLocation" FROM "nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:country" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:region" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)), ? COLLATE NOCASE) FROM "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation11", "nco:PersonContact_nco:hasAffiliation11" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12","nco:hasPostalAddress" "7_u" FROM "nco:PersonContact_nco:hasAffiliation11", "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11","ID" AND "nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12","ID")), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyName" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "10_u")) ORDER BY "1_u";
finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained by third parties. You are welcomed to use SQLite in closed source, proprietary, and/or open source projects.

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
No license file was found, but licenses were detected in source scan.

<li>Sources are in the <a href="copyright.html">public domain</a>.

Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
No license file was found, but licenses were detected in source scan.
# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
## May you do good and not evil.
## May you find forgiveness for yourself and forgive others.
## May you share freely, never taking more than you give.
##
#*************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data.  The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
# do_test fts2c-1.1 {
#    db eval {
#        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
#        BEGIN TRANSACTION;
#        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1  -  24990
2500 - 54995000
5500 - 64996000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone's needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o'clock hour just let me know: I'll
be more than willing to stay.');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy);

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,' If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG++PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
Thank for your help!

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls

');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610;

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

Chris,

I like the looks of this place. What do you think about going here Christmas eve? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ii

- About St Pauls.url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,' kmccrea@sablaw.com, thompson@wrightlaw.com,' 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1- Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,' lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '"', '

Here is a goody for you);

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rorke@enron.com', 'k..allen@enron.com,' randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001)’, 'The report named: West VaR
LIST HPL LSK IC 30.000 / Enron

Is it safe to assume that practice is cancelled for tonight?

Susan Pereira

Huber Internal Memo

Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.;

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

------------ Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000

08:39 AM ---------------
We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re:
Light reading - see pieces beginning on page 7, 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhhl@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,
Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric'};

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe, click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452');
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,','CAFOS Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,'Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES(' peggy.a.kostial@accenture.com', ' dave.samuels@enron.com', ' EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES(' thomas.martin@enron.com', ' thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------')
The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: "    -   *Koch, Kent" <kkoch@nisource.com>, "    -
*Millar, Debra" <dmillar@nisource.com>, "    -   *Burke, Lynn"
<burke@nisource.com>
cc: "    -   *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is: 713-668-3712...... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.
I haven”t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference
San Antonio, Texas  May 2-4, 2001   Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

I'll get it done today.

DG  3-9573

From: Bryce Baxter  06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson  
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson  
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

')

Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

')

Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy;

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip;

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback.

Kourtney
-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email(from, to, subject, body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email(from, to, subject, body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email(from, to, subject, body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email(from, to, subject, body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', ", 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensesms.enron.com/

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:'
Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:
LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

John');

This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.
do_test fts2c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {}
# Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.

# do_test fts2c-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.

# do_test fts2c-3.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
}
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7]}

# Snippet generator tests
#
# do_test fts2c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}

# do_test fts2c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b><br> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}

# do_test fts2c-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
  Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
  Contract negotiations <b>...</b>}}

# do_test fts2c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations}}

# do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{[Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the {}}}
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} {
  <b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>...</b> next to the Warick?? Hotel. <b>...</b> place. What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}

do_test fts2c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {
  Erin:

  Pursuant to your request, attached are the Schedule to <b>...</b>}

do_test fts2c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {
  pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>...</b> schedules awarded.
  Variances detected.
  Variances detected in <b>...</b>Load schedule.

  LOG MESSAGES:

  PARSING <b>...</b>}

  # Combinations of AND and OR operators:
  #
do_test fts2c-5.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} {
  matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

  31 Keystone Receipts
  15 <b>...</b> Pipeline
  40 Rockies Production
  22 West_2 <b>...</b>}

do_test fts2c-5.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {
  matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 ..."</b> }

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {  
  db eval {  
    CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);  
    BEGIN TRANSACTION;  
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.  
    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:  
    ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.  
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.  
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.  
    Please see example below:  
    Parent's Settings:  
    Minimum: 5000  
    Increment: 1000  
    Volume on Autohedge transactionVolume Hedged  
    1 - 24990  
    2500 - 54995000  
    5500 - 64996000);  
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI: If it's ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);  
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:  
    Employee Name: Christopher F. Calger  
    Status last changed by: Mollie E. Gustafson Ms  
    Expense Report Name: CC02.06.02  
    Report Total: $3,972.93  
    Amount Due Employee: $3,972.93  
    To approve this expense report, click on the following link for Concur Expense.  
    http://expensesxms.enron.com');  
    INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,  
    Could you print off the current work request report by 1:30 today?  
}
Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.
Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

LaChandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

 -----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,'), 'TRV Notification: (NG - PROPT P/L - 09/27/2001)'; The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG++PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&xSV1=5&X1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS
E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ';
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',
'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch,           Limited Seating
We provide drinks and dessert.       RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:

TRV Notification: (West VaR - 11/07/2001), published as of 11/07/2001 is now available for viewing on the website.

Enron / HPL Actuals for July 10, 2000

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira;

Huber Internal Memo, 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.'

George, Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney 3-7160;

Re: (no subject), 'not yet';
'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295);

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>

cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
c: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.'
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,' Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][IMAGE][ IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', "The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben");

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.");

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

Who is General Brinks?

Fletch');

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ---------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ---------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum

Attached is Columbia Distribution''s notice of capacity available for release for

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
'):
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', '- Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is: 713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn); INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44. Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartz@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
 INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,
I'll get it done today.

DG  3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com, ', 'Postings', 'Please see the attached.

ds
Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Beverly - once again thanks so much for your help on this.
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   - Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

'));
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description: ');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962
running the reports now

-----Original Message-----
From: Storey, Geoff  
Sent: Wednesday, October 31, 2001 10:10 AM  
To: Quigley, Dutch  
Subject: RE:

give me a contact over there too  
BP

-----Original Message-----
From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject:

CoralJeff Whitnah713-767-5374  
RelaintSteve McGinn713-207-4000');  
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.  

Variances detected.  

Variances detected in Load schedule.  

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt  

---- Load Schedule ----  

$$$ Variance found in table tblLoads.  

Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)  
TRANS_TYPE: FINAL  
LOAD_ID: PGE4  
MKT_TYPE: 2  
TRANS_DATE: 4/22/01  
SC_ID: EPMI  

');  
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',  
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.  

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztolzprint.jpg');
    COMMIT;
}
{}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts1c-3.1 {
# execsql {
# SELECT rowid, offsets(email) FROM email
# WHERE body MATCH 'child product' AND +rowid=32
# }
# } {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7]}
# Snippet generator tests
#
# do_test fts1c-4.1 {
# execsql {
# SELECT snippet(email) FROM email
# WHERE email MATCH 'subject:gas reminder'
# }
# } {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}
do_test fts1c-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
Review Enron asset base for potential reuse/licensing
Contract negotiations

Review Enron asset base for potential reuse/licensing

Review Enron asset base for potential reuse/license
Contract negotiations

SELECT snippet(email, '<<<', '>>>', ' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'

SELECT snippet(email, '<<<', '>>>', ' ') FROM email
WHERE email MATCH 'first things'

SELECT snippet(email) FROM email
WHERE email MATCH '"pursuant to"'

Pursuant to your request, attached are the Schedule to...

Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING...

# Combinations of AND and OR operators:
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com <b>...</b> six reports:
  
  31 Keystone Receipts
  15 <b>Questar</b> Pipeline
  40 Rockies Production
  22 West_2</b>...<b>}</b>
}
do_test fts1c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com <b>...</b> six reports:
  
  31 Keystone Receipts
  15 <b>Questar</b> Pipeline
  40 Rockies Production
  22 West_2</b>...<b>}</b>
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%%Copyright
No license file was found, but licenses were detected in source scan.

%%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
SQLite is open source, and is available in the public domain

application code is free to use these routines as well, if desired.

MMFauxFont.prc

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members. <p>

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs. <p>

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction
of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet.”

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development,” said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian’s commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible.”

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

# # #

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:

SQLite Consortium
Dr. D. Richard Hipp
About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com
The `psow` query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The `<b><a href="th3.html">TH3</a></b>` test harness is a set of proprietary tests, written in

```c
/*
 ** Return a pointer to the "temporary page" buffer held internally
 ** by the pager. This is a buffer that is big enough to hold the
 ** entire content of a database page. This buffer is used internally
 ** during rollback and will be overwritten whenever a rollback
 ** occurs. But other modules are free to use it too, as long as
 ** no rollbacks are happening.
 */
```

application is free to use the same `<a href="../c3ref/sqlite3.html">database connection</a>` or the

```c
/*
 ** The "printf" code that follows dates from the 1980's. It is in
```
the public domain. The original comments are included here for completeness. They are very out-of-date but might be useful as an historical reference. Most of the "enhancements" have been backed out so that the functionality is now the same as standard printf().

**************************************************************************
**
** This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLite.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</b>

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

1.0 Definitions</h2>

1.1 SQLite Developers</h3>
<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

1.2 SQLite Architect</h3>
<p>The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

1.3 Consortium Member</h3>
<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p>

2.0 Agreement</h2>

2.1 Responsibilities And Obligations Of SQLite Developers</h3>

2.1.1 General Support</h4>
<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

2.1.5 Legacy Support

The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

2.1.6 Custom Testing

The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

2.1.7 Priority Bug Fixes

The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

2.1.8 Code Quality

The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.10 Test Coverage</h4>
The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

<h4>2.2.2 Direction</h4>
The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

<h4>2.2.4 Continuity</h4>
The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.
<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each
other and from the primary on-line SQLite repository by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>
<p>Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>
2.4.2 Copyright Disclaimer

Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees

In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.
**4.2.1 Disclosure Required by Law**

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

**4.3 Return of Materials.**

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

**5.0 Intellectual Property**

**5.1 No Assignment**

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

**5.2 Availability and Public Domain Dedication**

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files.
and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h3>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>
<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of
this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications,
representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table width="100%" border="0">
<tr><td valign="top">
  HWACI<br>
  By:<hr>
  Print Name:<hr>
  Title:<hr>
</td><td width="10%"></td><td valign="top">
  COMPANY<br>
</td></tr>
</table>
By:<hr>
<p>&nbsp;</p>
Print Name:<hr>
<p>&nbsp;</p>
Title:<hr>
<p>&nbsp;</p>
</td></tr></table>

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  * May you do good and not evil.
**  * May you find forgiveness for yourself and forgive others.
**  * May you share freely, never taking more than you give.
**
******************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**    * for Posix Advisory Locks
**    * for no-op locks
**    * for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**  plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version
No license file was found, but licenses were detected in source scan.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>
the public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.  </li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
    set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
    set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
    execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
               ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
    execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
    execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
    execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} og r ftw is}
do_test func-2.3 {
    execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
}

do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
}

do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {\"u1234\"!=\"u1234\"} {

  # Put some UTF-8 characters in the database
  #
  do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hi\u1234ho" {
      execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
  } "UTF-8 characters contains hi\u1234ho"

  do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
  } {5 10 8 5}

  do_test func-3.2 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
  } {UT ch co hi}

  do_test func-3.3 {
    execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
  } "UTF cha con hi\u1234"

  do_test func-3.4 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
  } "TF ha on i\u1234"

}
do_test func-3.5 {
  execsql (SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1)
} "TF- har ont i\u1234h"
do_test func-3.6 {
  execsql (SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1)
} "F- ar nt \u1234h"
do_test func-3.7 {
  execsql (SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1)
} ".8 ra ta ho"
do_test func-3.8 {
  execsql (SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1)
} "8 s s o"
do_test func-3.9 {
  execsql (SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1)
} "F- er in \u1234h"
do_test func-3.10 {
  execsql (SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1)
} "TF- ter ain \u1234h"
do_test func-3.99 {
  execsql (DELETE FROM tbl1)
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql (SELECT t1 FROM tbl1)
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 1.2345678901234 2]}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 12345.6789 5]}
}
ifcapable !floatingpoint {
if [[working_64bit_int]] {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 12345678901234 2]}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 1234567890 5]}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 [-2.0 1.23 2.0]}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 [2.0 1.0 2.0]}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 [3.0 -12345.68 -5.0]}
}
do_test func-4.10 {
    catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
    execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
    execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
    execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
    execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
    catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
        execsql {SELECT round($x1);} $x2
    }
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1);} $x2
    }
}
do_test func-4.20 {
    execsql {SELECT round(40223.49999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.49999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.49999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.49999999999,$i);} } {40223.5}
    do_test func-4.24.$i {
        execsql {SELECT round(40224.49999999999,$i);} } {40224.5}
    do_test func-4.25.$i {
        execsql {SELECT round(40225.49999999999,$i);} } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);} } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);} } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);} } {40225.4999999999}
    do_test func-4.29 {
        execsql {SELECT round(1234567890.5);} } {1234567891.0}
    do_test func-4.30 {
        execsql {SELECT round(12345678901.5);} } {12345678902.0}
    do_test func-4.31 {
        execsql {SELECT round(123456789012.5);} } {123456789013.0}
    do_test func-4.32 {
        execsql {SELECT round(1234567890123.5);} } {1234567890124.0}
    do_test func-4.33 {
        execsql {SELECT round(12345678901234.5);} } {12345678901235.0}
    do_test func-4.34 {
        execsql {SELECT round(123456789012345.0);} } {123456789012346.0}
    do_test func-4.35 {
        execsql {SELECT round(1234567890123456.0);} } {1234567890123457.0}
    do_test func-4.36 {
        execsql {SELECT round(99999999999994.5);} } {99999999999995.0}
    do_test func-4.37 {
        execsql {SELECT round(9999999999999999.4);} } {99999999999999995.0}
}

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do_test func-4.38 {
  execsql [SELECT round(9999999999999.556,2);]
} {9999999999999.56
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql [SELECT upper(t1) FROM tbl1]
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql [SELECT lower(upper(t1)) FROM tbl1]
} {this program is free software}
do_test func-5.3 {
  execsql [SELECT upper(a), lower(a) FROM t2]
} {1 1 [ ] [ ] 345 345 [ ] [ ] 67890 67890}

if capable !icu {
  do_test func-5.4 {
    catchsql [SELECT upper(a,5) FROM t2]
  } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql [SELECT upper(*) FROM t2]
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql [SELECT coalesce(a,'xyz') FROM t2]
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql [SELECT coalesce(upper(a),'nil') FROM t2]
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql [SELECT coalesce(nullif(1,1),'nil')]
} {nil}
do_test func-6.4 {
  execsql [SELECT coalesce(nullif(1,2),'nil')]
} {1}
do_test func-6.5 {
  execsql [SELECT coalesce(nullif(1,NULL),'nil')]
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {


execsql \{SELECT last_insert_rowid()\}
\} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql \{EXPLAIN SELECT sum(a) FROM t2;\}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
  }
  } {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql \{EXPLAIN SELECT sum(a) FROM t2;\}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
  } {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
  }
  } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
ifcapable tempdb {
do_test func-8.3 {
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
  } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
} else {
do_test func-8.3 {
  execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP') FROM t3;
  }
  } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
} do_test func-8.4 {
  execsql {

SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
} {z+67890abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ
ifcapable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                          UNION ALL SELECT -9223372036854775807)
    }
  } {0}
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                             UNION ALL SELECT -9223372036854775807)
    }
  } {integer}
  do_test func-8.7 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                             UNION ALL SELECT -9223372036854775807)
    }
  } {real}
  ifcapable floatingpoint {
    do_test func-8.8 {
      execsql {
        SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                                 UNION ALL SELECT -9223372036850000000)
      }
    } {1}
  }
  ifcapable !floatingpoint {
    do_test func-8.8 {
      execsql {
        SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                               UNION ALL SELECT -9223372036850000000)
      }
    } {1}
  }
}
# How do you test the random() function in a meaningful, deterministic way?
#
  do_test func-9.1 {
    execsql {
      SELECT random() is not null;
    }
  } {1}
  do_test func-9.2 {

execsql {
    SELECT typeof(random());
}
} {integer}
do_test func-9.3 {
    execsql {
        SELECT randomblob(32) is not null;
    }
} {1}
do_test func-9.4 {
    execsql {
        SELECT typeof(randomblob(32));
    }
} {blob}
do_test func-9.5 {
    execsql {
        SELECT length(randomblob(32)), length(randomblob(-5)),
        length(randomblob(2000))
    }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
# if capable bloblit {
#    do_test func-9.10 {
#        execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}  
#    } {00112233445566778899AABBCCDDEEFF}
# }
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        execsql {SELECT hex(replace('abcdefg','ef','12'))}  
        } {6100620063006400310032006700}
    do_test func-9.12-utf16le {
        execsql {SELECT hex(replace('abcdefg','','12'))}  
        } {6100620063006400650066006700}
    do_test func-9.13-utf16le {
        execsql {SELECT hex(replace('aabcdefg','a','aaa'))}  
        } {61006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
    do_test func-9.11-utf8 {
        execsql {SELECT hex(replace('abcdefg','ef','12'))}  
        } {61626364313267}
    do_test func-9.12-utf8 {
        execsql {SELECT hex(replace('abcdefg','','12'))}  
        } {6162636465666776
do_test func-9.13-utf8 {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))
} {616161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                    'int', 1234
    );
  }
} {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                    'string', NULL
    );
  }
} {[]}if capable floatingpoint {
do_test func-10.4 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                    'double', 1.234
    );
  }
} {1.234}
do_test func-10.5 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                    'int', 1234,
                    'double', 1.234
    );
  }
} {1.234,}
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234
);
}
} {1.234}
}
# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
SELECT sqlite_version(*);
}
} [sqlite3 -version]
# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
do_test func-12.1-utf8 {
execsql {
SELECT test_destructor('hello world'), test_destructor_count();
}
} {{hello world} 1}
} else {
ifcapable {utf16} {
do_test func-12.1-utf16 {
execsql {
SELECT test_destructor16('hello world'), test_destructor_count();
}
} {{hello world} 1}
}
}
do_test func-12.2 {

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execsql {
    SELECT test_destructor_count();
} {0}
do_test func-12.3 {
    execsql {
        SELECT test_destructor('hello') || ' world'
    } {hello world}
}
do_test func-12.4 {
    execsql {
        SELECT test_destructor_count();
    } {0}
}
do_test func-12.5 {
    execsql {
        CREATE TABLE t4(x);
        INSERT INTO t4 VALUES(test_destructor('hello'));
        INSERT INTO t4 VALUES(test_destructor('world'));
        SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    } {hello world}
}
do_test func-12.6 {
    execsql {
        SELECT test_destructor_count();
    } {0}
}
do_test func-12.7 {
    execsql {
        DROP TABLE t4;
    } {}
}
do_test func-13.1 {
    execsql {
        SELECT test_auxdata('hello world');
    } {0}
}
do_test func-13.2 {
    execsql {
        CREATE TABLE t4(a, b);
        INSERT INTO t4 VALUES('abc', 'def');
        INSERT INTO t4 VALUES('ghi', 'jkl');
    }
}
do_test func-13.3 {
    execsql {
        SELECT test_auxdata('hello world') FROM t4;
    } {0 1}
}
do_test func-13.4 {
    execsql {
        SELECT test_auxdata('hello world', 123) FROM t4;
    } {{0 0} {1 1}}
}
do_test func-13.5 {
    execsql {
        SELECT test_auxdata('hello world', a) FROM t4;
    } {{0 0} {1 0}}
}
do_test func-13.6 {
    execsql {
        SELECT test_auxdata('hello' || 'world', a) FROM t4;
    } {{0 0} {1 0}}
}
# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW" == [sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}
# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    } {0}
}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    } {1}
do_test func-15.1 {
  catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
  catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {
  catchsql {select test_error('this is the error message',12)}  
} {1 {this is the error message}}
do_test func-15.4 {
  db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
  sqlite3_bind_blob $::STMT 1 abc 3
  sqlite3_step $::STMT
  sqlite3_finalize $::STMT
  execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
} {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
} {9902}
ifcapable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
  do_test func-18.3 {
    execsql {
      DELETE FROM t5;
      SELECT sum(x), total(x) FROM t5;
    }
  } {{} 0.0}
  do_test func-18.4 {
    execsql {
      INSERT INTO t5 VALUES(NULL);
      SELECT sum(x), total(x) FROM t5
    }
  } {{} 0.0}
  do_test func-18.5 {
    execsql {
      INSERT INTO t5 VALUES(NULL);
      SELECT sum(x), total(x) FROM t5
    }
  } {{} 0.0}
  do_test func-18.6 {
    execsql {
      INSERT INTO t5 VALUES(123);
      SELECT sum(x), total(x) FROM t5
    }
  } {123 123.0}

  # Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
  # an error. The non-standard TOTAL() function continues to give a helpful
  # result.
  #
  do_test func-18.10 {
    execsql {
      CREATE TABLE t6(x INTEGER);
      INSERT INTO t6 VALUES(1);
      INSERT INTO t6 VALUES(1 << 62);
      SELECT sum(x) - ((1 << 62) + 1) FROM t6;
do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer
ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
  }
} {1 {integer overflow}}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
} 0.0
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    }
  }
} {1 {integer overflow}}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
} 0.0
}
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
  } -9223372036854775805
}
ifcapable compound&&!subquery {
  do_test func-18.15 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
    }
  }
} {1 {integer overflow}}
if {[working_64bit_int]} {
  do_test func-18.16 {
    catchsql {
      SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
         SELECT -10 AS x);
    }
  } {0 9223372036854775797}
  do_test func-18.17 {
    catchsql {
      SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
         SELECT 10 AS x);
    }
  } {0 -9223372036854775797}
  do_test func-18.18 {
    catchsql {
      SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
         SELECT -10 AS x);
    }
  } {1 {integer overflow}}
  do_test func-18.19 {
    catchsql {
      SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    }
  } {0 -1}
  do_test func-18.20 {
    catchsql {
      SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
  } {0 1}
  do_test func-18.21 {
    catchsql {
      SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
  } {0 -1}
  do_test func-18.22 {
    catchsql {
      SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
    }
  } {0 1}
} ;# if capable compound&subquery

# Integer overflow on abs()
if {![working_64bit_int]} { 
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
} 
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
# 
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
}
} {}

# Soundex tests.
# 
if {![catch {db eval {SELECT soundex('hello')}}]} {
set i 0
foreach {name sdx} {
    euler  E460
    EULER  E460
    Euler  E460
    ellery  E460
    gauss  G200
    ghosh  G200
}
hilbert      H416
Heilbronn    H416
knuth        K530
kant         K530
Lloyd        L300
LADD         L300
Łukasiewicz  L222
Lissajous    L222
A             A000
12345        ?000
}
}
incr i
do_test func-20.$i {
    execsql {SELECT soundex($name)}
} $sdx
}
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
    catchsql {
        SELECT replace(1,2);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
    catchsql {
        SELECT replace(1,2,3,4);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
    execsql {
        SELECT typeof(replace("This is the main test string", NULL, "ALT"));
    }
} {null}
do_test func-21.4 {
    execsql {
        SELECT typeof(replace(NULL, "main", "ALT"));
    }
} {null}
do_test func-21.5 {
    execsql {
        SELECT typeof(replace("This is the main test string", "main", NULL));
    }
} {null}
do_test func-21.6 {
    execsql {
        SELECT replace("This is the main test string", "main", "ALT");
    }
}
do_test func-21.7 {
  execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
  }
}

do_test func-21.8 {
  execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
  }
}

if cap able tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str [string repeat A 29998]CC[string repeat A 35537]
    set ::rep [string repeat B 65536]
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
  }
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
  do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
  } {1 {wrong number of arguments to function trim()}}
  do_test func-22.2 {
    catchsql {SELECT ltrim(1,2,3)}
  } {1 {wrong number of arguments to function ltrim()}}
  do_test func-22.3 {
    catchsql {SELECT rtrim(1,2,3)}
  } {1 {wrong number of arguments to function rtrim()}}
  do_test func-22.4 {
    execsql {SELECT trim('  hi  ');}  
  } {hi}
  do_test func-22.5 {
    execsql {SELECT ltrim('  hi  ');}  
  } {{hi}}
  do_test func-22.6 {
    execsql {SELECT rtrim('  hi  ')};
  } {{ hi}}
  do_test func-22.7 {
    execsql {SELECT trim('  hi  ','xyz')};
  } {{ hi}}
do_test func-22.8 {
  execsql {SELECT ltrim('  hi  ', 'xyz'); }
} {{ hi }}
do_test func-22.9 {
  execsql {SELECT rtrim('  hi  ', 'xyz'); }
} {{ hi }}
do_test func-22.10 {
  execsql {SELECT trim('xyxzy  hi  zzyy', 'xyz'); }
} {{ hi }}
do_test func-22.11 {
  execsql {SELECT ltrim('xyxzy  hi  zzyy', 'xyz'); }
} {{ hi zzyy}}
do_test func-22.12 {
  execsql {SELECT rtrim('xyxzy  hi  zzyy', 'xyz'); }
} {{xyxzy  hi  }}
do_test func-22.13 {
  execsql {SELECT trim('  hi  ', ''); }
} {{ hi }}
if {[db one {PRAGMA encoding}] == "UTF-8"} {
  do_test func-22.14 {
    execsql {SELECT hex(trim(x'c280e1bfbff48fbbf6869', x'6162e1bfbfc280'))}
  } {F48FBFBF6869}
do_test func-22.15 {
  execsql {SELECT hex(trim(x'6869c280e1bfbff48fbbf61',
      x'6162e1bfbfc280f48fbbf'))}
} {6869}
do_test func-22.16 {
  execsql {SELECT hex(trim(x'ceb1ceb2ceb3', x'ceb1'))};
} {CEB2CEB3}
}
do_test func-22.20 {
  execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
  execsql {SELECT typeof(trim(NULL, 'xyz'));}
} {null}
do_test func-22.22 {
  execsql {SELECT typeof(trim('hello', NULL));}
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
if capable deprecated {
do_test func-23.1 {
  sqlite3_create_aggregate db
  execsql {
    SELECT legacy_count() FROM t6;
  }
}
# The `group_concat()` function.
#
do_test func-24.1 {
    execsql {
        SELECT group_concat(t1) FROM tbl1
    }
} {this,program,is,free,software}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,' ') FROM tbl1
    }
} {{this program is free software}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
    }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {thisprogramisfreesoftware}
do_test func-24.6 {
    execsql {
        SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    }
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<\[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1\]} {incr i} {
    append midargs '/$i'
append midres '/$i'
set result [md5 \\n  "this${midres}program${midres}is${midres}free${midres}software${midres}" ]
set sql "SELECT md5sum(t1$midargs) FROM tbl1"
do_test func-24.7.$i {
  db eval $::sql
} $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
  } {,.program,is,free,software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
  } {,,,,software}
}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  } {program,is,free,software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
  } {software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
                    WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  } {,is,free,software}
}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
  execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678

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9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {

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INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer

do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}

do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+$x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
  do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x>100} {set x many}
    set x
  } {many}
}

do_test func-29.5 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT sum(length(x)) FROM t29}
} {1000009}

do_test func-29.6 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_execsql_test func-30.1 {SELECT unicode($);} 36
do_execsql_test func-30.2 [subst {SELECT unicode(¢);}] 162
do_execsql_test func-30.3 [subst {SELECT unicode(€);}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$¢€}]
for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
} for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
} for {set i 65536} {$i<=0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
# #
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a a
    aaron aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase abas
    abash abash
    abate abat
    abated abat
    abatement abat
    abatements abat
    abates abat
    abbess abbess
    abbey abbei
    abbeys abbei
    abominable abomin
    abbot abbot
    abbots abbot
    abbreviated abbrevi
    abed ab
    abel abel
    aberga aberga
    abergavenny abergavenni
    abet abet
    abetting abet
    abominable abomin
    abhor abhor
    abhorr abhorr
    abhorred abhor
    abhorring abhor
    abhors abhor
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alteration  alter
altered  alter
alters  alter
althaea  althaea
although  although
altitude  altitud
altogether  altogeth
alton  alton
alway  alwai
always  alwai
am  am
amaimon  amaimon
amain  amain
amaking  amak
amamon  amamon
amaz  amaz
amaze  amaz
amazed  amaz
amazedly  amazedli
amazedness  amazed
amazement  amaz
amazes  amaz
amazeth  amazeth
amazing  amaz
amazon  amazon
amazonian  amazonian
amazons  amazon
ambassador  ambassador
ambassadors  ambassador
amber  amber
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ambition  ambit
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archibald archibald
archidamus archidamus
architect architect
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}

# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
exesql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

No license file was found, but licenses were detected in source scan.

---

** CAPI3REF: Configuration Options

** KEYWORDS: {configuration option}

**

** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.

**

** New configuration options may be added in future releases of SQLite.

** Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.

**

**

** [[SQLITE_CONFIG_SINGLETHREAD]]<dt>SINGLETHREAD</dt>

**<dd>There are no arguments to this option. *This option sets the [threading mode] to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. *If SQLite is compiled with the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return
**[SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD**
**configuration option.</dd>
**
**[[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
**<dd>There are no arguments to this option. ^This option sets the
**[threading mode] to Multi-thread. In other words, it disables
**mutexing on [database connection] and [prepared statement] objects.
**The application is responsible for serializing access to
**[database connections] and [prepared statements]. But other mutexes
**are enabled so that SQLite will be safe to use in a multi-threaded
**environment as long as no two threads attempt to use the same
**[database connection] at the same time. ^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**it is not possible to set the Multi-thread [threading mode] and
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the
**SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
**[[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**<dd>There are no arguments to this option. ^This option sets the
**[threading mode] to Serialized. In other words, this option enables
**all mutexes including the recursive
**mutexes on [database connection] and [prepared statement] objects.
**In this mode (which is the default when SQLite is compiled with
**[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
**to [database connections] and [prepared statements] so that the
**application is free to use the same [database connection] or the
**same [prepared statement] in different threads at the same time.
**^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**it is not possible to set the Serialized [threading mode] and
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the
**SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
**[[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
**instance of the [sqlite3_mem_methods] structure. The argument specifies
**alternative low-level memory allocation routines to be used in place of
**the memory allocation routines built into SQLite.)^ ^SQLite makes
**its own private copy of the content of the [sqlite3_mem_methods] structure
**before the [sqlite3_config()] call returns.</dd>
**
**[[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
**<dd> ^(This option takes a single argument which is a pointer to an
**instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
**structure is filled with the currently defined memory allocation routines.)^ ^
**This option can be used to overload the default memory allocation
**routines with a wrapper that simulates memory allocation failure or
**tracks memory usage, for example. </dd>
** [SQLITE_CONFIG_MEMSTATUS] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
**  <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status()]
**  </ul>)^  
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [SQLITE_CONFIG_SCRATCH] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [SQLITE_CONFIG_PAGECACHE] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>

**

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt><br>** <dd> *(This option takes two arguments that determine the default memory allocation for the lookaside memory allocator on each database connection. The first argument is the size of each lookaside buffer slot and the second is the number of slots allocated to each database connection.)* *(This option sets the default lookaside size. The SQLITE_CONFIG_LOOKASIDE verb to sqlite3_db_config() can be used to change the lookaside configuration on individual connections.)* </dd><br>** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt><br>** <dd> *(This option takes a single argument which is a pointer to an sqlite3_pcache_methods2 object. This object specifies the interface to a custom page cache implementation.)* SQLite makes a copy of the object and uses it for page cache memory allocations. </dd><br>** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt><br>** <dd> *(This option takes a single argument which is a pointer to an sqlite3_pcache_methods2 object. SQLite copies of the current page cache implementation into that object.)* </dd><br>** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt><br>** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite global error log. *(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of void(*)(void*,int,const char*), and a pointer to void. If the function pointer is not NULL, it is invoked by sqlite3_log() to process each logging event. If the function pointer is NULL, the sqlite3_log() interface becomes a no-op. The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding sqlite3_log() call and is intended to be a [result code] or an extended result code. The third parameter passed to the logger is log message after formatting via sqlite3_snprintf(). The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe.)* </dd><br>** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</dt><br>** <dd> This option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. If URI handling is globally enabled, all filenames passed to sqlite3_open(), sqlite3_open_v2(), sqlite3_open16() or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the SQLITE_OPEN_URI flag is set when the database
connection is opened. If it is globally disabled, filenames are interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. By default, URI handling is globally disabled. The default value may be changed by compiling with the [SQLITE_USE_URI] symbol defined.

[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]

This option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the SQLITE_ALLOW_COVERING_INDEX_SCAN compile-time option, or is "on" if that compile-time option is omitted.

The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

These options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.

[[SQLITE_CONFIG_SQLLOG]]

This option is only available if sqlite is compiled with the SQLite_ENABLE_SQLLOG pre-processor macro defined. The first argument should be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int). The second should be of type (void*). The callback is invoked by the library in three separate circumstances, identified by the value passed as the fourth parameter. If the fourth parameter is 0, then the database connection passed as the second argument has just been opened. The third argument points to a buffer containing the name of the main database file. If the fourth parameter is 1, then the SQL statement that the third parameter points to has just been executed. Or, if the fourth parameter is 2, then the connection being passed as the second parameter is being closed. The third parameter is passed NULL in this case. An example of using this configuration option can be seen in the "test_sqllog.c" source file in the canonical SQLite source tree.

[[SQLITE_CONFIG_MMAP_SIZE]]

SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values that are the default mmap size limit (the default setting for [PRAGMA mmap_size]) and the maximum allowed mmap size limit. The default setting can be overridden by each database connection using the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
#$Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.
    
The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent’s Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transactionVolume Hedged
    1   - 24990
    2500 - 54995000
    5500 - 649960000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
    If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.‘);
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

    Employee Name: Christopher F. Calger
    Status last changed by: Mollie E. Gustafson Ms
    Expense Report Name: CC02.06.02
    Report Total: $3,972.93
    Amount Due Employee: $3,972.93

    To approve this expense report, click on the following link for Concur Expense.
    http://expensexms.enron.com’);
    INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rt/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.
Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email(from,to,subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!;

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

Attended you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE.
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610)

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii
Here is the curve file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',...
‘Change to Stack Manager’, 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '. The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "'smara@enron.com'" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ')

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution's Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

---

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time) I hope we can stay in touch.

Home# 234-0249
email: kpnuja@hotmail.com

Take Care,
Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,' , 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com, ', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 10801
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
     included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com','RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend!  Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax  713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks !

Best regards
Diana Seifert
EOL PCG;

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com;

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject:RE:
----- Original Message ----- 
From: Storey, Geoff 
Sent: Wednesday, October 31, 2001 10:10 AM 
To: Quigley, Dutch 
Subject: RE: 

give me a contact over there too 
BP 

----- Original Message ----- 
From: Quigley, Dutch 
Sent: Wednesday, October 31, 2001 9:42 AM 
To: Storey, Geoff 
Subject: 

coraljeff whitnah713-767-5374  
relaintsteve mcginn713-207-4000'); 
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded. 
Variances detected. 
Variances detected in Load schedule. 

LOG MESSAGES: 

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt 

---- Load Schedule ---- 
$$$ Variance found in table tblLoads. 
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89) 
TRANS_TYPE: FINAL 
LOAD_ID: PGE4 
MKT_TYPE: 2 
TRANS_DATE: 4/22/01 
SC_ID: EPMI 

'); 
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens. 

bp corl Albert LaMore 281-366-4962 

running the reports now
John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
} {}
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {

SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH ""child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
do_test fts3ac-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }
do_test fts3ac-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
} {{...chris.germany@enron.com' 'chris...bet this is next to...about going here Christmas eve...}}
do_test fts3ac-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"
}
} {{Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together...}}
do_test fts3ac-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.davis@enron.com3; No ancillary schedules awarded detected in Load schedule.

LOG...}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
execsql {
    SELECT snippet(email) FROM email
}
WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@enron.com...31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies...<b>]} }}

do_test fts3ac-5.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com...31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies...<b>]} }}

#---------------------------------------------------------------
# Test a problem reported on the mailing list.
#

do_test fts3ac-6.1 {
execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}

do_test fts3ac-6.2 {
execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3}}

finish_test

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Date:
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</table>
</p>
1.935 infinispan-client-hotrod 5.2.1.Final

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* /opt/cola/permits/1095753864_1601493825.33/0/jline-terminal-jna-3-15-0-sources-
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 */

Found in path(s):
*/
* /opt/cola/permits/1095753864_1601493825.33/0/jline-terminal-jna-3-15-0-sources-
  jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java

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1.937 gettext 0.19.8.1-2.el7

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```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@example
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end example

The hypothetical commands `show w' and `show c' should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and
`show c'; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a `copyright disclaimer' for the program, if
necessary. Here is a sample; alter the names:

@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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test-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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org.eclipse.jetty.toolchain:jetty-schemas

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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libraries themselves. This Library General Public License is intended to
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d) If a facility in the modified Library refers to a function or a
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in the event an application does not supply such function or
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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.987 ncompress 4.2.4.4-3.el7

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The following article from James A. Woods, one of the earlier authors of compress, explains its relationship to the Unisys patent on the LZW compression method:

Article: 1282 of gnu.misc.discuss
From: jaw@riacs.edu (James A. Woods)
Newsgroups: gnu.misc.discuss
Subject: Sperry patent #4,558,302 does *not* affect 'compress'
Keywords: data compression, algorithm, patent
Message-ID: <1990Jul31.220935.1424@riacs.edu>
Date: 31 Jul 90 22:09:35 GMT
Organization: RIACS, NASA Ames Research Center
Lines: 69

# "The chief defect of Henry King
Was chewing little bits of string."

-- Hilaire Belloc, Cautionary Tales [1907]

As a co-author of 'compress' who has had contact with an attorney for Unisys (nee Sperry), I would like to relay a very basic admission from Unisys that noncommercial use of 'compress' is perfectly legal. 'Compress' is also commercially distributed by AT&T as part of Unix System 5 release 4, with no further restrictions placed upon the use of the binary, as far as I am aware.

From conversations with Professor Abraham Lempel and others, it appears that neither AT&T, Sun Microsystems, Hewlett Packard, nor IBM are paying any sort of license fees to Unisys in conjunction with patent #4,558,302. It may be true that some organizations are paying fees for data compression technology licensed from one or more of the many holders of compression patents, but this is all independent from 'compress'.

In particular, I received a letter at NASA dated October 1, 1987 from John B. Sowell of the Unisys law department, informing me for the first time that some form of LZW was patented. I naturally expressed skepticism that an algorithm could be patented (a murky legal area
which remains so), stated that 'compress' is not identical to LZW, and in fact was designed, developed, and distributed before the ink on the patent was dry. Several telephone conversations later, Mr. Sowell intimated that they would *not* seek any fees from users of 'compress' but instead were signing licensees for hardware implementations of LZW.

So, regardless of what you believe about a shady legal area, if anyone from Unisys contacts you to extract tribute for the use of 'compress', please tell them that, first, it is not theirs to begin with, and, second, there is someone who will testify in court about the conversation above. It is not even clear if anyone can "own" 'compress', since original developer Spencer Thomas, myself, and others placed the code in the public domain long before the adoption of the Berne copyright convention.

In light of the events above, it seems that the Free Software Foundation is being unduly paranoid about the use of 'compress'. Now I can well believe that FSF is more likely to be a legal target than a behemoth like AT&T, but if they are simply redistributing untouched free software developed years ago in the public sector, I see no problem.

Aside: I am investigating, possibly for a case history to be recycled to USENET, the particulars of data compression patents. I am aware of the following patents: IBM's Miller-Wegman LZ variant, those of Telcor and ACT [losing candidates for the British Telecom modem standard], James A. Storer's work on limited lookahead as explicated in his text "Data Compression (methods and theory)", Computer Science Press, 1988, and the various patents pending associated with the Fiala and Greene CACM article of April, 1989 on textual substitution methods. If you have any lore, send it this way.

Sincerely,

James A. Woods
NASA Ames Research Center (RIACS)
jaw@riacs.edu (or ames!jaw)

P.S. The algorithm patent issue certainly is a "topic A" at the moment. One useful reference is the review article by Anthony and Colwell -- "Litigating the Validity and Infringement of Software Patents" in Washington and Lee Law Review, volume 41, fall 1984. I know Robert Colwell personally. As a practicing patent attorney, he tells me that, at a minimum, use of an invention "for research purposes" is legitimate.
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1.988 jboss-transaction-api 1.0.1.Final-redhat-2

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/CronTriggerBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3.0.7-release-sources-3-jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java

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jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/scheduling/quartz/SchedulerAccessor.java

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jar/org/springframework/ui/velocity/SpringResourceLoader.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/JavaMailSender.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/MailAuthenticationException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java

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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain c c++ pl cc h
#

text/html.html htm HTML HTM
text/plain.txt TXT TEXT java c c++ pl cc h
image/gif gif GIF
image/jpeg jpeg jpg jpe JPG
image/tiff tif
image/x-xwindowdump xwd
application/postscript ai eps ps
application/rtf rtf
application/x-tex tex
application/x-texinfo texinfo texi
application/x-troff tr roff
audio/basic au
audio/midi midi mid
audio/x-aiff aiff
audio/x-mpeg mpeg mpg
audio/x-wav wav
video/mpeg mpeg mpg mpe
video/quicktime mov
video/x-msvideo avi

# TEXT TYPES

text/x-speechtalk
text/css css
# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixmap (8-bit color)
image/x-xpm

# Portable Network Graphics
image/x-png

# Image Exchange Format (RFC 1314)
image/ief

# JPEG
image/jpeg

# RGB
image/rgb

# Group III Fax (RFC 1494)
image/g3fax

# X Windowdump format
image/x-xwindowdump

# Macintosh PICT format
image/x-pict

# PPM (UNIX PPM package)
image/x-portable-pixmapppm

# PGM (UNIX PPM package)
image/x-portable-greymappgm

# PBM (UNIX PPM package)
image/x-portable-bitmappbm

# PNM (UNIX PPM package)
image/x-portable-anymappnm

# Microsoft Windows bitmap
image/x-ms-bmp

# CMU raster
image/x-cmu-raster

# Kodak Photo-CD
image/x-photo-cd

# Computer Graphics Metafile
image/cgm

# CALS Type 1 or 2
image/x-cals

# Fractal Image Format (Iterated Systems)
image/fif

# QuickSilver active image (Micrografx)
image/x-mgx-dsf

# CMX vector image (Corel)
image/x-cmx

# Wavelet-compressed (Summus)
image/wavelet
# AutoCad Drawing (SoftSource)
image/vnd.dwg
dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
dxf
# Simple Vector Format (SoftSource)
image/vnd.svf
svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# "Basic" audio - 8-bit u-law PCM
audio/basic snd
# Macintosh audio format (Apple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav.wav
# MPEG audio
audio/x-mpeg mp3 aac
# MPEG-2 audio
audio/x-mpeg-2 mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echoespecheches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midi
# Koan music data (Seyo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpeg mpg mpe
# MPEG-2 video
video/mpeg-2 mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie movie
# VDOlive streaming video (VDOnet)
video/vndvdo
# Vivo streaming video (Vivo software)
video/vnd.vivo

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig

# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscript eps ps

# Microsoft Rich Text Format
application/rtf

# Adobe Acrobat PDF
application/pdf

# Maker Interchange Format (FrameMaker)
application/vnd.mif

# Troff document
application/x-troff tr roff

# Troff document with MAN macros
application/x-troff-man man

# Troff document with ME macros
application/x-troff-meme

# Troff document with MS macros
application/x-troff-msms

# LaTeX document
application/x-latex latex

# Tex/LateX document
texinfo texi

# TeX dvi format
texinfo texi

# MS word document
application/msword DOC

# Office Document Architecture
application/odaoda

# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
gtar

# 4.BSD tar format
application/x-tar
tar
application/x-tar	# POSIX tar format
application/x-ustar	# Old CPIO format
application/x-bcpio	# POSIX CPIO format
application/x-cpio	# UNIX sh shell archive
application/x-shar	# DOS/PC - Pkzipped archive
application/zip	# Macintosh Binhexed archive
application/mac-binhex40	# Macintosh Stuffit Archive
application/x-stuffit	# Fractal Image Format
application/octet-stream	# "Binary UUencoded"
application/octet-stream	# PC executable
application/octet-stream	# "WAIS ""sources""
application/octet-stream	# NCSA HDF data format
application/octet-stream

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript
application/javascript
application/x-sh
application/x-csh
application/x-perl
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/x-futuresplash
application/mbedlet
application/x-rad-powermedia
# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-streamexe com
# Pointcast news data (Pointcast)
application/x-penpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvwr
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsrvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrvwr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdwf

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  jar/org/springframework/mail/javamail/mime.types
jar/org/springframework/mail/SimpleMailMessage.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java

1.994 python-setuptools 0.9.8 7.el7

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Contributors
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* Alex Grnholm
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* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Dirley Rodrigues
* Donald Stufit
* Grigory Petrov
* Hanno Schlichting
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation. Callers
* are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

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  jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/stereotype/Controller.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java

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/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value() specified conditions] match.
 *
 * A `<em>condition</em>` is any state that can be determined programmatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 *
 * The [@code @Conditional] annotation may be used in any of the following ways:
 *
 * As a type-level annotation on any class directly or indirectly annotated with
 * [@code @Component], including [@link Configuration @Configuration] classes</li>
 *
 * As a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 *
 * As a method-level annotation on any [@link Bean @Bean] method</li>
 *
 * If a [@code @Configuration] class is marked with [@code @Conditional], all of the
 * [@code @Bean] methods, [@link Import @Import] and [@link ComponentScan @ComponentScan]
 * annotations associated with that class will be subject to the conditions.
 *
 * NOTE: [@code @Conditional] annotations are not inherited; any conditions from
 * superclasses or from overridden methods are not being considered.
 *
 * @author Phillip Webb
 * @since 4.0
 * @see Condition
 */

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/EmbeddedValueResolverAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/SmartLifecycle.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/Primary.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jmx/support/MetricType.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
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 */

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 * @link FactoryBean} that obtains a WebSphere \{ @link javax.management.MBeanServer\}
 * reference through WebSphere's proprietary \{ @code AdminServiceFactory\} API,
 * available on WebSphere 5.1 and higher.
 *
 * \{ @code MBeanServer\} for bean references.
 * This FactoryBean is a direct alternative to \{ @link MBeanServerFactoryBean\},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * See the javadocs for WebSphere's
 * \{ @href="http://bit.ly/UzccDr\}" \{ @code AdminServiceFactory\}\</a> \{ @code MBeanFactory\}\</a>.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

/*
 */

Found in path(s):
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/win32/test/TestFileVersion.java

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/cmd/EventLogTail.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarRegistry.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarCpuInfo.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarMem.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/AbstractMBean.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarLoadAverage.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarCpu.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/jmx/SigarCpuPerc.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestSignal.java
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  org/hyperic/sigar/test/TestNetStatPort.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/jni/ArchNotSupportedException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/jni/ArchLoaderException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/jni/CopyDependsTask.java

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  org/hyperic/sigar/SigarLoader.java
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  org/hyperic/sigar/CpuPerc.java
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  org/hyperic/sigar/cmd/CpuInfo.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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  org/hyperic/sigar/MultiProcMem.java
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  org/hyperic/sigar/test/TestNetInfo.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/win32/ServiceConfig.java
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  org/hyperic/sigar/NfsFileSystem.java
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  org/hyperic/sigar/test/TestProcStat.java
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  org/hyperic/sigar/ptql/ProcessQueryFactory.java
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  org/hyperic/sigar/test/TestNetIf.java
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  org/hyperic/sigar/win32/Win32.java
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  org/hyperic/sigar/vmware/VMControlLibrary.java
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  org/hyperic/sigar/cmd/Top.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/win32/Service.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
  org/hyperic/sigar/Sigar.java
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  org/hyperic/sigar/test/TestProcState.java
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  org/hyperic/sigar/shell/FileCompleter.java
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  org/hyperic/sigar/util/Getline.java
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  org/hyperic/sigar/cmd/MemWatch.java
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  org/hyperic/sigar/pager/PagerProcessorExt.java
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  org/hyperic/sigar/cmd/MemWatch.java
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  org/hyperic/sigar/pager/PagerProcessorExt.java
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  org/hyperic/sigar/shell/ShellCommand_alias.java
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  org/hyperic/sigar/shell/ShellCommandInitException.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestInvoker.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestFileSystem.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestCpuInfo.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestProcEnv.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestWho.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestProcFd.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/win32/test/TestRegistryKey.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestUptime.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/org/hyperic/sigar/test/TestProcArgs.java
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## -*-makefile-*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsypmolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.c) $< \n | sed s/\(^.*\)\.o\ [ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec $(GEN_DEPS.cc) $< \n | sed s/\(^.*\)\.o\ [ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.%$(SO).%$(SO_TARGET_VERSION_MAJOR): %.%$(SO).%$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.%$(SO): %.%$(SO).%$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.%$(SO).%$(SO_TARGET_VERSION) $@

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* /opt/cola/permits/1136035018_1613662390.92/0/jaxws-api-2-2-2-promoted-b02-sources-2-
  jar/javax/xml/ws/spi/Invoker.java
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 * *$Id: Provider.java,v 1.9.2.15 2009/09/08 20:27:02 jitu Exp $
 */

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* /opt/cola/permits/1136035018_1613662390.92/0/jaxws-api-2-2-2-promoted-b02-sources-2-
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  jar/javax/xml/ws/spi/http/package-info.java
* /opt/cola/permits/1136035018_1613662390.92/0/jaxws-api-2-2-2-promoted-b02-sources-2-
  jar/javax/xml/ws/RequestWrapper.java
* /opt/cola/permits/1136035018_1613662390.92/0/jaxws-api-2-2-2-promoted-b02-sources-2-
  jar/javax/xml/ws/handler/MessageContext.java
* /opt/cola/permits/1136035018_1613662390.92/0/jaxws-api-2-2-2-promoted-b02-sources-2-
  jar/javax/xml/ws/ResponseWrapper.java
1.1020 python-schedutils 0.4-6.el7

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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1.1027 alsa-tools 1.1.0-1.el7

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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 */
/**
* Enumeration of supported Base64 dialects.
*<p>*
The internal lookup tables in this class has been derived from
*<a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/base64/Base64Dialect.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/CompressionUtil.java
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/ */
/**
* A decoder that splits the received `ByteBuf`s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* <p>
* * ch3>2 bytes length field at offset 0, do not strip header</h3>
* <p>
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <p>
* * 2 bytes length field at offset 0, strip header</h3>
* <p>
* Because we can get the length of the content by calling
* * [@link ByteBuf#readableBytes()], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <p>
* * BEFORE DECODE (14 bytes)          AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* <p>
* * BEFORE DECODE (14 bytes)          AFTER DECODE (12 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \texttt{lengthAdjustment}. Because the length value in this example message
* is always greater than the body length by \texttt{2}, we specify \texttt{-2} for
* compensation.

\begin{verbatim}
  lengthFieldOffset   =  0
  lengthFieldLength   =  2
  \texttt{lengthAdjustment}    = \texttt{-2} (= the length of the Length field)
  initialBytesToStrip = 0

  BEFORE DECODE (14 bytes)  AFTER DECODE (14 bytes)
  +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Length | Actual Content |
  | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
\end{verbatim}

* \texttt{lengthFieldOffset}   = \texttt{2} (= the length of Header 1)
* \texttt{lengthFieldLength}   = \texttt{3}
* \texttt{lengthAdjustment}    = 0
* initialBytesToStrip = 0

\begin{verbatim}
  BEFORE DECODE (17 bytes)  AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
  | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
\end{verbatim}

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
  header into the frame length calculation.
* `<pre>`
* lengthFieldOffset  = 0
* lengthFieldLength  = 3
* `<b>`lengthAdjustment`<b>`  = `<b>`2`<b>` (= the length of Header 1)
* initialBytesToStrip = 0
* `</pre>`
* `* BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
  * +----------+----------+----------------+      +----------+----------+----------------+
  * |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
  * | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
  * +----------+----------+----------------+      +----------+----------+----------------+
  * </pre>`
* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field</h3>
  *
  * This is a combination of all the examples above. There are the prepended
  * header before the length field and the extra header after the length field.
  * The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
  * header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
  * `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
  * header from the frame. If you don't want to strip the prepended header, you
  * could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* `<pre>`
* lengthFieldOffset  = 1 (= the length of HDR1)
* lengthFieldLength  = 2
* `<b>`lengthAdjustment`<b>`  = `<b>`1`<b>` (= the length of HDR2)
* `<b>`initialBytesToStrip`<b>`  = `<b>`3`<b>` (= the length of HDR1 + LEN)
* `</pre>`
* `* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
  * +----------+--------+----------+----------------+      +----------+----------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE  | "HELLO, WORLD" |      | 0xFE  | "HELLO, WORLD" |
  * +----------+--------+----------+----------------+      +----------+----------------+
  * </pre>`
* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field, the length field
  * represents the length of the whole message</h3>
  *
  * Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
  * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
  * Please note that we don't need to take the length of HDR2 into account
  * because the length field already includes the whole header length.
* \texttt{lengthFieldOffset} = 1
* \texttt{lengthFieldLength} = 2
* \texttt{<b>lengthAdjustment</b>\texttt{= <b>-3</b> (= the length of HDR1 + LEN, negative)}
* \texttt{<b>initialBytesToStrip</b>\texttt{= <b>3</b>}}

* \texttt{BEFORE DECODE (16 bytes) \hspace{1cm} AFTER DECODE (13 bytes)}
* \begin{verbatim}
| HDR1 | Length | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
\end{verbatim}

* \texttt{</pre>}
* \texttt{@see LengthFieldPrepender}
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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/**
* Utility class for \{@link ByteBuf\} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* *
* The encoding and decoding algorithm in this class has been derived from
1.1030 totem-pl-parser 3.26.1-1.el7

1.1030.1 Available under license:

# The Totem Playlist parser library "pl-parser" is licensed under the terms
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# plparse directory. See GNOME Bugzilla bug 164193 for details.

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1.1040 libcap 2.44

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* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-
jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-
jar/org/springframework/web/context/WebApplicationContext.java
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jar/org/springframework/http/client/support/HttpAccessor.java
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jar/org/springframework/web/context/request/FacesRequestAttributes.java
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jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
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jar/org/springframework/remote/remoting/caucho/BurlapProxyFactoryBean.java
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1.1046 jboss-classfilewriter 1.0.3.Final-redhat-1

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*/
package javax.servlet.jsp;

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 * A generic exception known to the JSP engine; uncaught
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007373481_1601397089.69/0/jackson-mapper-asl-1-9-9-sources-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1052 python-pip-epel 8.1.2-14.el7
1.1052.1 Available under license:
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  * /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-
  | jar/io/netty/handler/codec/socksx/package-info.java
  |
  * /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-
  | jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java

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****

A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
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    'Programming Language :: Python :: 3.7',
    'Programming Language :: Python :: 3.8',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    ]
```
setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.1085 hk2-locator 2.6.1

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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a Sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.
Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the
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permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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2.2.5_1

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  jar/org/springframework/test/web/servlet/DefaultMvcResult.java
* /opt/cola/permits/1136652648_1613848804.30/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/test/web/servlet/package-info.java
* /opt/cola/permits/1136652648_1613848804.30/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/test/web/servlet/result/package-info.java
* /opt/cola/permits/1136652648_1613848804.30/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/test/web/servlet/ResultMatcher.java
* /opt/cola/permits/1136652648_1613848804.30/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/test/web/servlet/package-info.java
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*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/web/AnnotationConfigWebContextLoader.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/util/XmlExpectationsHelper.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/mock/env/MockPropertySource.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/transaction/AfterTransaction.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/TestExecutionListener.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/TestExecutionListeners.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/web/WebMergedContextConfiguration.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/web/servlet/request/MockMvcRequestBuilders.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/web/servlet/MockMvcBuilderSupport.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/mock/web/MockServletContext.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/ContextLoaderUtils.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/TestContext.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/ContextLoaderUtils.java
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*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/context/TestContext.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/mock/web/portlet/MockPortletContext.java
*/opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-jar/org/springframework/test/jdbc/JdbcTestUtils.java
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  jar/org/springframework/test/annotation/SystemProfileValueSource.java
* /opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/test/ConditionalTestCase.java
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  jar/org/springframework/mock/web/portlet/MockMultipartActionRequest.java
* /opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/mock/web/MockMultipartFile.java
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  jar/org/springframework/test/web/servlet/setup/PatternMappingFilterProxy.java

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  jar/org/springframework/mock/web/portlet/MockResourceResponse.java
* /opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockPortletPreferences.java
* /opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockResourceURL.java
* /opt/cola/permits/1136652648_1613848804.3/0/spring-test-3-2-5-release-sources-2-
  jar/org/springframework/mock/web/portlet/MockBaseURL.java
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1.1103 commons-collections 4.4

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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1.1114 iso-codes 3.46-2.el7

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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1.1115 python-backports 1.0-8.el7

1.1116 bouncycastle-fips 1.0.2
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1.1117 jcl-over-slf4j 1.7.30

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1.1118 farstream 0.1.2-8.el7
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Ajay Joshi <jaj@google.com>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.1126 jetty-util 9.4.31.v20200723

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */

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1.1129 zlib 1.2.8

1.1129.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.1130 jboss-as-jpa 7.3.0.Final-redhat-14

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1.1131 gtk-vnc 0.7.0-3.el7

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Written by: Philip Hazel
Email local part: ph10
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%global fontname paratype-pt-sans
%global fontconf 57-%{fontname}

%global archivename PTSans.zip

%global common_desc
The PT Sans family was developed as part of the “Public Types of Russian Federation” project. This project aims at enabling the peoples of Russia to read and write their native languages, using free/libre fonts. It is dedicated to the 300-year anniversary of the Russian civil type invented by Peter the Great from 1708 to 1710, and was realized with financial support from the Russian Federal Agency for Press and Mass Communications.

The fonts include support for all 54 title¹ languages of the Russian Federation as well as more common Western, Central European and Cyrillic blocks making them unique and a very important tool for modern digital communications.

PT Sans is a grotesque font based on Russian type designs of the second part of the 20th century. However, it also includes very distinctive features of modern humanistic design, fulfilling present day aesthetic and functional requirements.

It was designed by Alexandra Korolkova, Olga Umpleva and Vladimir Yefimov and released by ParaType.

¹ A “title” language is named after an ethnic group.

Name:           %{fontname}-fonts
Version:        20101909
Release:        3%{?dist}
Summary:        A pan-Cyrillic typeface

Group:          User Interface/X
License:        OFL
URL:            http://www.paratype.com/public/
Source0:        http://www.fontstock.com/public/PTSans_OFL.zip
Source10:       %{name}-fontconfig.conf
Source11:       %{name}-caption-fontconfig.conf

BuildArch:      noarch
Requires:       fontpackages-filesystem
BuildRequires:  fontpackages-devel
%description
%common_desc

This package includes the four basic styles and two narrows styles for economic setting.

%_font_pkg -f %{fontconf}.conf PTS*.ttf PTN*.ttf
%doc *.txt

%package -n %{fontname}-caption-fonts
Summary: A pan-Cyrillic typeface (caption forms for small text)
BuildRequires: fontpackages-devel

%description -n %{fontname}-caption-fonts
%common_desc

This package includes 2 captions styles for small text sizes.

%_font_pkg -n caption -f %{fontconf}-caption.conf PTC*.ttf
%doc *.txt

%prep
%setup -q -c

for txt in *.txt ; do
    if $(echo "$txt" | grep -q "rus\.") ; then
        iconv --from=UTF-16 --to=UTF-8 "$txt" > "$txt.1"
    else
        iconv --from=WINDOWS-1251 --to=UTF-8 "$txt" > "$txt.1"
    fi
    sed -i 's/\r//"$txt.1"
    touch -r "$txt" "$txt.1"
    mv "$txt.1" "$txt"
done

%build

%install
install -m 0755 -d %{buildroot}%{_fontdir}
install -m 0644 -p *.ttf %{buildroot}%{_fontdir}

install -m 0755 -d %{buildroot}%{_fontconfig_templatedir} \
    %{buildroot}%{_fontconfig_confdir}
install -m 0644 -p %{SOURCE10} \
    %{buildroot}%{_fontconfig_templatedir}/%{fontconf}.conf
install -m 0644 -p %{SOURCE11} \
    %{buildroot}%{_fontconfig_templatedir}/%{fontconf}-caption.conf
for fconf in %{fontconf}.conf \n    %{fontconf}-caption.conf ; do
    ln -s %{_fontconfig_templatedir}/$fconf \
    %{buildroot}%{_fontconfig_confdir}/$fconf
done

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 20101909-3
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20101909-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Fri Nov 30 2012 Parag <paragn AT fedoraproject DOT org> - 20101909-1
  - Resolves:rh#882107 - source files does not match with upstream

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 25 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100408-1
  — Update to latest upstream release
  — Switch to the OFL version

* Thu Feb 18 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-3
  — Remove vestigial dep in caption subpackage

* Sat Feb 13 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-2
  — Update for review

* Sun Jan 17 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-1
— Initial release

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1.1147 gupnp-igd 0.2.5-2.el7

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.
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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS
Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \texttt{[Lesser]} General Public License because it does \texttt{[Less]} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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@enumerate a
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  The modified work must itself be a software library.
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  You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
  @item
  You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
  @item
  If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
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@end enumerate

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sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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However, linking a "work that uses the Library" with the Library
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Axel Haslam
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Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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+ many more (please mail me if you are missing in this list and would like to be mentioned)

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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POSSIBILITY OF SUCH DAMAGES.
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* *
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M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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That's all there is to it!

1.1161 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3
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 * Rob Earhart
 * Rob Siemborski
 */

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1.1162 glibc 2.17-323.el7_9

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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to use the modified definitions.)

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1.1166 bridgeutils 1.5-9.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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the interface presents a list of user commands or options, such as a
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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

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standard defined by a recognized standards body, or, in the case of
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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1.1176 jackson-jaxrs 1.8.1

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   Unix SMB/CIFS implementation.

Python interface to tdb.

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*/

1.1178 jul-to-slf4j-stub 1.0.1.Final-redhat-1
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* /opt/cola/permits/1077217821_1601879954.1/0/jul-to-slf4j-stub-1-0-1-final-redhat-3-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java
1.1179 jboss-common-beans 1.1.0.Final

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1.1180 cxf-tools-wsdlto-frontend-jaxws 2.7.18

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1.1181 spring-beans 4.1.5.RELEASE

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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/support/BeanDefinitionRegistryPostProcessor.java

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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/util/ServiceFactoryBean.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/parsing/ReaderEventListener.java
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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
jar/org/springframework/beans/factory/annotation/Lookup.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java

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  jar/org/springframework/beans/factory/BeanNameAware.java
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  jar/org/springframework/beans/factory/annotation/Qualifier.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
  jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-
  jar/org/springframework/beans/factory/service/loader/ServiceListFactoryBean.java

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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/BeanMetadataAttribute.java
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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/NamedBean.java
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---------------------------------------------------------------------
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- 'Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-
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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';


# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => [ ['-v'] ];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.1186 libogg 1.3.0-7.el7

1.1186.1 Available under license:

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

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1.1192 tomcat 10.5.1

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* /opt/cola/permits/1129656068_1612323854.31/0/mendsley-bsdiff-v4-3-0-gbd08be7-1-tar-gz/mendsley-bsdiff-9f3db69/bspatch.c
* /opt/cola/permits/1129656068_1612323854.31/0/mendsley-bsdiff-v4-3-0-gbd08be7-1-tar-gz/mendsley-bsdiff-9f3db69/bsdiff.c

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requiredElements = EnumSet.of(Element.INTEGRITY, Element.CONFIDENTIALITY, case CONFIDENTIALITY: { transportConfig.setConfidentiality(getElementText(reader, propertyReplacer)); CONFIDENTIALITY("confidentiality");'
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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.1197 infinispan-client-hotrod 9.2.5.Final

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2005030511225002005030511122500000000000000000000000000000000

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mkisofs 2.01a17 -gui -graft-points -volset-size 1 -volset-seqno 1 -sort .../k3bsESIfc.tmp -rational-rock -hide-list ...
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SPRRPX$mAAmTFh

ih

CEfh

RRPX$mAAmTFh

ih

riCOPYRRNMcopyPX$mAAmTFi

3COPY2.:1RRNM

Copy2PX$mmmSLCOPYINGTFi

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```
/:
  dr-xr-xr-x  2 0 0 [LSN  23]  2048 Oct 22 2004 02:21:14 ..
  dr-xr-xr-x  2 0 0 [LSN  24]  2048 Mar 05 2005 16:12:25 copy
 -r-xr-xr-x  1 0 0 [LSN  27]  0 Mar 05 2005 15:26:00 Copy2
  -r--r--r--  1 0 0 [LSN  27]  17992 Mar 05 2005 15:25:51 COPYING
 -r--r--r--  1 0 0 [LSN  36]  0 Mar 05 2005 15:32:05 fdo
  dr-xr-xr-x  2 0 0 [LSN  25]  2048 Mar 05 2005 16:12:25 tmp
  cr--r--r--  1 0 0 [LSN  36]  0 Mar 05 2005 15:51:42 zero

/copy/:
  dr-xr-xr-x  4 0 0 [LSN  23]  2048 Mar 05 2005 16:12:25 ..
 -r-xr-xr-x  1 0 0 [LSN  36]  0 Mar 05 2005 15:27:05 COPYING

/tmp/:
  dr-xr-xr-x  4 0 0 [LSN  23]  2048 Mar 05 2005 16:12:25 ..
 -r-xr-xr-x  1 0 0 [LSN  36]  0 Mar 05 2005 15:51:05 COPYING

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This interface is used to manage a database of named <code>Role</code> objects,
which can be used for authentication and authorization purposes.

This version of the User Admin service defines two types of <code>Role</code> objects: "User" and "Group". Each type of role is represented by an
<code>int</code> constant and an interface. The range of positive integers is
reserved for new types of roles that may be added in the future. When
defining proprietary role types, negative constant values must be used.

Every role has a name and a type.

A <code>User</code> object can be configured with credentials (e.g., a password)
and properties (e.g., a street address, phone number, etc.).

A <code>Group</code> object represents an aggregation of <code>User</code> and
<code>Group</code> objects. In other words, the members of a <code>Group</code>
object are roles themselves.

Every User Admin service manages and maintains its own namespace of
<code>Role</code> objects, in which each <code>Role</code> object has a unique
name.

@version $Revision: 5673 $
Service for administering configuration data.

The main purpose of this interface is to store bundle configuration data persistently. This information is represented in Configuration objects. The actual configuration data is a Dictionary of properties inside a Configuration object.

There are two principally different ways to manage configurations. First there is the concept of a Managed Service, where configuration data is uniquely associated with an object registered with the service registry.

Next, there is the concept of a factory where the Configuration Admin service will maintain 0 or more Configuration objects for a Managed Service Factory that is registered with the Framework.

The first concept is intended for configuration data about "things/services" whose existence is defined externally, e.g. a specific printer. Factories are intended for "things/services" that can be created any number of times, e.g. a configuration for a DHCP server for different networks.

Bundles that require configuration should register a Managed Service or a Managed Service Factory in the service registry. A registration property named service.pid (persistent identifier or PID) must be used to identify this Managed Service or Managed Service Factory to the Configuration Admin service.

When the ConfigurationAdmin detects the registration of a Managed Service, it
* checks its persistent storage for a configuration object whose
* <code>service.pid</code> property matches the PID service property ( 
* <code>service.pid</code>) of the Managed Service. If found, it calls 
* [<@link ManagedService#updated] method with the new properties. The 
* implementation of a Configuration Admin service must run these call-backs 
* asynchronously to allow proper synchronization.
*
* <p>
* When the Configuration Admin service detects a Managed Service Factory 
* registration, it checks its storage for configuration objects whose 
* <code>service.factoryPid</code> property matches the PID service property of 
* the Managed Service Factory. For each such <code>Configuration</code> 
* objects, it calls the <code>ManagedServiceFactory.updated</code> method 
* asynchronously with the new properties. The calls to the <code>updated</code> 
* method of a <code>ManagedServiceFactory</code> must be executed sequentially 
* and not overlap in time.
*
* <p>
* In general, bundles having permission to use the Configuration Admin service 
* can only access and modify their own configuration information. Accessing or 
* modifying the configuration of another bundle requires 
* <code>ConfigurationPermission[]{*,CONFIGURE}</code>.
*
* <p>
* <code>Configuration</code> objects can be <i>bound</i> to a specified bundle 
* location. In this case, if a matching Managed Service or Managed Service 
* Factory is registered by a bundle with a different location, then the 
* Configuration Admin service must not do the normal callback, and it should 
* log an error. In the case where a <code>Configuration</code> object is not 
* bound, its location field is <code>null</code>, the Configuration Admin 
* service will bind it to the location of the bundle that registers the first 
* Managed Service or Managed Service Factory that has a corresponding PID 
* property. When a <code>Configuration</code> object is bound to a bundle 
* location in this manner, the Configuration Admin service must detect if the 
* bundle corresponding to the location is uninstalled. If this occurs, the 
* <code>Configuration</code> object is unbound, that is its location field is 
* set back to <code>null</code>.
*
* <p>
* The method descriptions of this class refer to a concept of "the calling 
* bundle". This is a loose way of referring to the bundle which obtained the 
* Configuration Admin service from the service registry. Implementations of 
* <code>ConfigurationAdmin</code> must use a 
* [<@link org.osgi.framework.ServiceFactory] to support this concept.
*
* @version $Revision: 8483 $
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdmin.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ImportRegistration.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteConstants.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/EndpointListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdminListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ExportReference.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/RemoteServiceAdminEvent.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/remoteserviceadmin/ImportReference.java
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ManagedService.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/User.java
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationPlugin.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationException.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/Configuration.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/metatype/ObjectClassDefinition.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdminEvent.java
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdminListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Role.java

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* /opt/cola/permits/1132217574_1613127158.51/0/org osgi/util/tracker/BundleTracker.java
* /opt/cola/permits/1132217574_1613127158.51/0/org osgi/util/tracker/AbstractTracked.java
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/provisioning/ProvisioningService.java

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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/metatype/MetaTypeProvider.java

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<one line to give the library's name and a brief idea of what it does.>
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1211 libgsm 1.0.13-11.el7
1.1211.1 Available under license:

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Berlin, 28.11.1994
Jutta Degener
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Berkeley/Bremen, 05.04.2009
Jutta Degener
Carsten Bormann

1.1212 python-futures 3.2.0-1.ph3

1.1212.1 Available under license :

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1.1213 xcb-util-keysyms 0.4.0-1.el7

1.1213.1 Available under license:

No license file was found, but licenses were detected in source scan.

```bash
# ===========================================================================
#           http://autoconf-archive.cryp.to/ax_compare_version.html
# ===========================================================================
#
# SYNOPSIS
#
# AX_COMPARE_VERSION(VERSION_A, OP, VERSION_B, [ACTION-IF-TRUE], [ACTION-IF-FALSE])
#
# DESCRIPTION
#
# This macro compares two version strings. Due to the various number of
```
# minor-version numbers that can exist, and the fact that string
# comparisons are not compatible with numeric comparisons, this is not
# necessarily trivial to do in a autoconf script. This macro makes doing
# these comparisons easy.
#
# The six basic comparisons are available, as well as checking equality
# limited to a certain number of minor-version levels.
#
# The operator OP determines what type of comparison to do, and can be one
# of:
#
# eq - equal (test A == B)
# ne - not equal (test A != B)
# le - less than or equal (test A <= B)
# ge - greater than or equal (test A >= B)
# lt - less than (test A < B)
# gt - greater than (test A > B)
#
# Additionally, the eq and ne operator can have a number after it to limit
# the test to that number of minor versions.
#
# eq0 - equal up to the length of the shorter version
# ne0 - not equal up to the length of the shorter version
# eqN - equal up to N sub-version levels
# neN - not equal up to N sub-version levels
#
# When the condition is true, shell commands ACTION-IF-TRUE are run,
# otherwise shell commands ACTION-IF-FALSE are run. The environment
# variable 'ax_compare_version' is always set to either 'true' or 'false'
# as well.
#
# Examples:
#
# AX_COMPARE_VERSION([3.15.7],[lt],[3.15.8])
# AX_COMPARE_VERSION([3.15],[lt],[3.15.8])
# would both be true.
#
# AX_COMPARE_VERSION([3.15.7],[eq],[3.15.8])
# AX_COMPARE_VERSION([3.15],[gt],[3.15.8])
# would both be false.
#
# AX_COMPARE_VERSION([3.15.7],[eq2],[3.15.8])
# would be true because it is only comparing two minor versions.
#
# AX_COMPARE_VERSION([3.15.7],[eq0],[3.15])
would be true because it is only comparing the lesser number of minor
versions of the two values.

Note: The characters that separate the version numbers do not matter. An
empty string is the same as version 0. OP is evaluated by autoconf, not
configure, so must be a string, not a variable.

The author would like to acknowledge Guido Draheim whose advice about
the m4_case and m4_ifvaln functions make this macro only include the
portions necessary to perform the specific comparison specified by the
OP argument in the final configure script.

LICENSE

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dnl # In the case of le, ge, lt, and gt, the strings are sorted as necessary

dnl AC_DEFUN([AX_COMPARE_VERSION], [AC_PROG_AWK

# Used to indicate true or false condition
ax_compare_version=false

# Convert the two version strings to be compared into a format that
# allows a simple string comparison. The end result is that a version
# string of the form 1.12.5-r617 will be converted to the form
# 0001001200050617. In other words, each number is zero padded to four
# digits, and non digits are removed.

A=`echo "$1" | sed -e 's/\[[0-9]*\]/Z\1Z/g' -e 's/\[[0-9]\]/Z0\1Z/g' -e 's/\[[0-9]\][0-9]/Z0\1Z/g' -e 's/\[[0-9]\][0-9][0-9]/Z0\1Z/g' -e 's/[\[^0-9\]]//g`

B=`echo "$3" | sed -e 's/\[[0-9]*\]/Z\1Z/g' -e 's/\[[0-9]\]/Z0\1Z/g' -e 's/\[[0-9]\][0-9]/Z0\1Z/g' -e 's/\[[0-9]\][0-9][0-9]/Z0\1Z/g' -e 's/[\[^0-9\]]//g`
dnl # then the first line is used to determine if the condition is true.
dnl # The sed right after the echo is to remove any indented white space.
m4_case(m4_tolower($2),
  [lt],[
    ax_compare_version=`echo "x$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [gt],[
    ax_compare_version=`echo "x$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [le],[
    ax_compare_version=`echo "x$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ].
  [ge],[
    ax_compare_version=`echo "x$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ].
  dnl Split the operator from the subversion count if present.
m4_bmatch(m4_substr($2,2),
    [0],[
      # A count of zero means use the length of the shorter version.
      # Determine the number of characters in A and B.
      ax_compare_version_len_A=`echo "$A" | $AWK '{print(length)}'`
      ax_compare_version_len_B=`echo "$B" | $AWK '{print(length)}'`
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{m4_substr($2,2)\}\)/\1/"
    ],
    [[0-9]+],[
      # A count greater than zero means use only that many subversions
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
    ],
    [-+],[
      AC_WARNING(
        [illegal OP numeric parameter: $2])
    ])
  ).
# Pad zeros at end of numbers to make same length.
ax_compare_version_tmp_A="A`echo $B | sed 's/\s\+//g''"n
B="$B`echo $A | sed 's/\s\+//g''"n
A="$x_compare_version_tmp_A"

# Check for equality or inequality as necessary.
m4_case(m4_tolower(m4_substr($2,0,2)),
  [lt],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [gt],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [le],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ].
  [ge],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ],
  dnl Split the operator from the subversion count if present.
m4_bmatch(m4_substr($2,2),
    [0],[
      # A count of zero means use the length of the shorter version.
      # Determine the number of characters in A and B.
      ax_compare_version_len_A=`echo "$A" | $AWK '{print(length)}'`
      ax_compare_version_len_B=`echo "$B" | $AWK '{print(length)}'`
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
    ],
    [[0-9]+],[
      # A count greater than zero means use only that many subversions
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
    ],
    [-+],[
      AC_WARNING(
        [illegal OP numeric parameter: $2])
    ])
  ).
# Pad zeros at end of numbers to make same length.
ax_compare_version_tmp_A="A`echo $B | sed 's/\s\+//g''"n
B="$B`echo $A | sed 's/\s\+//g''"n
A="$x_compare_version_tmp_A"

# Check for equality or inequality as necessary.
m4_case(m4_tolower(m4_substr($2,0,2)),
  [lt],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [gt],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/false/s/x$B\{}/true/;1q"`
  ].
  [le],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ].
  [ge],[
    ax_compare_version=`echo "$A
    x$B" | sed 's/\s\+//l' | sort -r | sed "s/x$A\{}/true/s/x$B\{}/false/;1q"`
  ],
  dnl Split the operator from the subversion count if present.
m4_bmatch(m4_substr($2,2),
    [0],[
      # A count of zero means use the length of the shorter version.
      # Determine the number of characters in A and B.
      ax_compare_version_len_A=`echo "$A" | $AWK '{print(length)}'`
      ax_compare_version_len_B=`echo "$B" | $AWK '{print(length)}'`
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
    ],
    [[0-9]+],[
      # A count greater than zero means use only that many subversions
      A=`echo "$A" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
      B=`echo "$B" | sed "s/\(\[[0-9]+\)\{4\}\{m4_substr($2,2)\}\)/\1/"
    ],
    [-+],[
      AC_WARNING(
        [illegal OP numeric parameter: $2])
    ])
  ).
[$eq,$]
  test "x$A" = "x$B" && ax_compare_version=true
$],
[$ne,$]
  test "x$A" != "x$B" && ax_compare_version=true
$]
  AC_WARNING([illegal OP parameter: $2])
$]
)

AS_VAR_POPDEF([A])
dnl
AS_VAR_POPDEF([B])
dnl

dnl # Execute ACTION-IF-TRUE / ACTION-IF-FALSE.
if test "$ax_compare_version" = "true" ; then
  m4_ifvaln([$4],[4],[:])
dnl
  m4_ifvaln([$5],[else $5])
dnl
fi
$) dnl AX_COMPARE_VERSION

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0 xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-
epqQtMyt xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFlLph xcb-util-keysyms-
0.4.0/m4/ax_compare_version.m4

No license file was found, but licenses were detected in source scan.

Name: xcb-util-keysyms
Version: 0.4.0
Release: 1% {?dist}
Summary: Standard X key constants and keycodes conversion on top of libxcb
Group: System Environment/Libraries
License: MIT
URL: http://xcb.freedesktop.org
Source0: http://xcb.freedesktop.org/dist/%{name}-%{version}.tar.bz2
BuildRequires: pkgconfig(xcb-util) >= 0.3.8
BuildRequires: m4

%description
XCB util-keysyms module provides the following library:

- keysyms: Standard X key constants and conversion to/from keycodes.

%package devel
Summary: Development and header files for xcb-util-keysyms
Group: System Environment/Libraries
Requires: %{name} %{?_isa} = %{version}-%{release}
%description
devel
Development files for xcb-util-keysyms.

%prep
%setup -q

%build
%configure --with-pic --disable-static --disable-silent-rules
make %{_smp_mflags}

%check
make check

%install
make install DESTDIR=%{buildroot} INSTALL="install -p"
rm %{buildroot}%{_libdir}/*.la

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%files
%doc README
%{_libdir}/*.so.*

%files devel
%doc NEWS
%{_libdir}/pkgconfig/*.pc
%{_libdir}/*.so
%{_includedir}/xcb/*.h

%changelog
* Sat Oct 11 2014 Thomas Moschny <thomas.moschny@gmx.de> - 0.4.0-1
  - Update to 0.4.0.

* Mon Aug 18 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sun Jun 08 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-4
- Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Mon Aug 20 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.9-1
- Update to 0.3.9.

* Sun Jul 22 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.8-4
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Apr 6 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-3
- Fix explicit requires.

* Tue Mar 13 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-2
- Specfile cleanups suggested in the review.

* Mon Dec 5 2011 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-1
- New package.

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0/xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-epqQtMyt/xcb-util-keysyms.spec

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Found in path(s):
  */opt/cola/permits/1148332141_1619430820.99/0 xcb-Util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-
  epqQtMyt xcb-Util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFfLph xcb-Util-keysyms-
  0.4.0/keysyms/keysyms.c

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Installation Instructions
*************************

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Basic Installation
=================

Briefly, the shell commands `./configure; make; make install' should
configure, build, and install this package. The following
more-detailed instructions are generic; see the `README' file for
instructions specific to this package. Some packages provide this
`INSTALL' file but do not implement all of the features documented
below. The lack of an optional feature in a given package is not
necessarily a bug. More recommendations for GNU packages can be found
in *note Makefile Conventions: (standards)Makefile Conventions.

The `configure' shell script attempts to guess correct values for
various system-dependent variables used during compilation. It uses
those values to create a `Makefile' in each directory of the package.
It may also create one or more `.h' files containing system-dependent
definitions. Finally, it creates a shell script `config.status' that
you can run in the future to recreate the current configuration, and a
file `config.log' containing compiler output (useful mainly for
debugging `configure').
It can also use an optional file (typically called `config.cache' and enabled with `--cache-file=config.cache' or simply `-C') that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how `configure' could check whether to do them, and mail diffs or instructions to the address given in the `README' so they can be considered for the next release. If you are using the cache, and at some point `config.cache' contains results you don't want to keep, you may remove or edit it.

The file `configure.ac' (or `configure.in') is used to create `configure' by a program called `autoconf'. You need `configure.ac' if you want to change it or regenerate `configure' using a newer version of `autoconf'.

The simplest way to compile this package is:

1. `cd' to the directory containing the package's source code and type `/configure' to configure the package for your system.

   Running `configure' might take a while. While running, it prints some messages telling which features it is checking for.

2. Type `make' to compile the package.

3. Optionally, type `make check' to run any self-tests that come with the package, generally using the just-built uninstalled binaries.

4. Type `make install' to install the programs and any data files and documentation. When installing into a prefix owned by root, it is recommended that the package be configured and built as a regular user, and only the `make install' phase executed with root privileges.

5. Optionally, type `make installcheck' to repeat any self-tests, but this time using the binaries in their final installed location. This target does not install anything. Running this target as a regular user, particularly if the prior `make install' required root privileges, verifies that the installation completed correctly.

6. You can remove the program binaries and object files from the source code directory by typing `make clean'. To also remove the files that `configure' created (so you can compile the package for
a different kind of computer), type `make distclean'. There is also a `make maintainer-clean' target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

7. Often, you can also type `make uninstall' to remove the installed files again. In practice, not all packages have tested that uninstallation works correctly, even though it is required by the GNU Coding Standards.

8. Some packages, particularly those that use Automake, provide `make distcheck', which can by used by developers to test that all other targets like `make install' and `make uninstall' work correctly. This target is generally not run by end users.

Compilers and Options
=====================

Some systems require unusual options for compilation or linking that the `configure' script does not know about. Run `./configure --help' for details on some of the pertinent environment variables.

You can give `configure' initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

    ./configure CC=c99 CFLAGS=-g LIBS=-lposix

*Note Defining Variables::, for more details.

Compiling For Multiple Architectures
====================================

You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you can use GNU `make'. `cd' to the directory where you want the object files and executables to go and run the `configure' script. `configure' automatically checks for the source code in the directory that `configure' is in and in `..'. This is known as a "VPATH" build.

With a non-GNU `make', it is safer to compile the package for one architecture at a time in the source code directory. After you have installed the package for one architecture, use `make distclean' before reconfiguring for another architecture.

On MacOS X 10.5 and later systems, you can create libraries and
executables that work on multiple system types--known as "fat" or "universal" binaries--by specifying multiple `-arch' options to the compiler but only a single `-arch' option to the preprocessor. Like this:

```
./configure CC="gcc -arch i386 -arch x86_64 -arch ppc -arch ppc64" 
     CXX="g++ -arch i386 -arch x86_64 -arch ppc -arch ppc64" 
     CPP="gcc -E" CXXCPP="g++ -E"
```

This is not guaranteed to produce working output in all cases, you may have to build one architecture at a time and combine the results using the `lipo' tool if you have problems.

Installation Names
==================

By default, `make install' installs the package's commands under `/usr/local/bin', include files under `/usr/local/include', etc. You can specify an installation prefix other than `/usr/local' by giving `configure' the option `--prefix=PREFIX', where PREFIX must be an absolute file name.

You can specify separate installation prefixes for architecture-specific files and architecture-independent files. If you pass the option `--exec-prefix=PREFIX' to `configure', the package uses PREFIX as the prefix for installing programs and libraries. Documentation and other data files still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `--bindir=DIR' to specify different values for particular kinds of files. Run `configure --help' for a list of the directories you can set and what kinds of files go in them. In general, the default for these options is expressed in terms of `${prefix}', so that specifying just `--prefix' will affect all of the other directory specifications that were not explicitly provided.

The most portable way to affect installation locations is to pass the correct locations to `configure'; however, many packages provide one or both of the following shortcuts of passing variable assignments to the `make install' command line to change installation locations without having to reconfigure or recompile.

The first method involves providing an override variable for each affected directory. For example, `make install
prefix=alternate/directory' will choose an alternate location for all directory configuration variables that were expressed in terms of `$prefix'. Any directories that were specified during `configure', but not in terms of `$prefix', must each be overridden at install
time for the entire installation to be relocated. The approach of makefile variable overrides for each directory variable is required by the GNU Coding Standards, and ideally causes no recompilation. However, some platforms have known limitations with the semantics of shared libraries that end up requiring recompilation when using this method, particularly noticeable in packages that use GNU Libtool.

The second method involves providing the `DESTDIR` variable. For example, `make install DESTDIR=/alternate/directory` will prepend `/alternate/directory` before all installation names. The approach of `DESTDIR` overrides is not required by the GNU Coding Standards, and does not work on platforms that have drive letters. On the other hand, it does better at avoiding recompilation issues, and works well even when some directory options were not specified in terms of `${prefix}` at `configure` time.

Optional Features
=================

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `configure` the option `--program-prefix=PREFIX` or `--program-suffix=SUFFIX`.

Some packages pay attention to `--enable-FEATURE` options to `configure`, where FEATURE indicates an optional part of the package. They may also pay attention to `--with-PACKAGE` options, where PACKAGE is something like `gnu-as` or `x` (for the X Window System). The `README` should mention any `--enable-` and `--with-` options that the package recognizes.

For packages that use the X Window System, `configure` can usually find the X include and library files automatically, but if it doesn't, you can use the `configure` options `--x-includes=DIR` and `--x-libraries=DIR` to specify their locations.

Some packages offer the ability to configure how verbose the execution of `make` will be. For these packages, running `./configure --enable-silent-rules` sets the default to minimal output, which can be overridden with `make V=1`; while running `./configure --disable-silent-rules` sets the default to verbose, which can be overridden with `make V=0`.

Particular systems
==================

On HP-UX, the default C compiler is not ANSI C compatible. If GNU CC is not installed, it is recommended to use the following options in order to use an ANSI C compiler:
/configure CC="cc -Ae -D_XOPEN_SOURCE=500"

and if that doesn't work, install pre-built binaries of GCC for HP-UX.

HP-UX `make' updates targets which have the same time stamps as their prerequisites, which makes it generally unusable when shipped generated files such as `configure' are involved. Use GNU `make' instead.

On OSF/1 a.k.a. Tru64, some versions of the default C compiler cannot parse its `\<wchar.h\>' header file. The option `-nodtk' can be used as a workaround. If GNU CC is not installed, it is therefore recommended to try

/configure CC="cc"

and if that doesn't work, try

/configure CC="cc -nodtk"

On Solaris, don't put `/usr/ucb' early in your `PATH'. This directory contains several dysfunctional programs; working variants of these programs are available in `/usr/bin'. So, if you need `/usr/ucb' in your `PATH', put it _after_ `/usr/bin'.

On Haiku, software installed for all users goes in `/boot/common', not `/usr/local'. It is recommended to use the following options:

/configure --prefix=/boot/common

Specifying the System Type
==========================

There may be some features `configure' cannot figure out automatically, but needs to determine by the type of machine the package will run on. Usually, assuming the package is built to be run on the _same_ architectures, `configure' can figure that out, but if it prints a message saying it cannot guess the machine type, give it the `--build=TYPE' option. TYPE can either be a short name for the system type, such as `sun4', or a canonical name which has the form:

CPU-COMPANY-SYSTEM

where SYSTEM can have one of these forms:

OS
KERNEL-OS
See the file `config.sub' for the possible values of each field. If `config.sub' isn't included in this package, then this package doesn't need to know the machine type.

If you are _building_ compiler tools for cross-compiling, you should use the option `--target=TYPE' to select the type of system they will produce code for.

If you want to _use_ a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `--host=TYPE'.

Sharing Defaults
================

If you want to set default values for `configure' scripts to share, you can create a site shell script called `config.site' that gives default values for variables like `CC', 'cache_file', and 'prefix'.

`configure' looks for 'PREFIX/share/config.site' if it exists, then 'PREFIX/etc/config.site' if it exists. Or, you can set the 'CONFIG_SITE' environment variable to the location of the site script. A warning: not all `configure' scripts look for a site script.

Defining Variables
==================

Variables not defined in a site shell script can be set in the environment passed to `configure'. However, some packages may run configure again during the build, and the customized values of these variables may be lost. In order to avoid this problem, you should set them in the `configure' command line, using `VAR=value'. For example:

```
./configure CC=/usr/local2/bin/gcc
```

causes the specified `gcc' to be used as the C compiler (unless it is overridden in the site shell script).

Unfortunately, this technique does not work for `CONFIG_SHELL' due to an Autoconf bug. Until the bug is fixed you can use this workaround:

```
CONFIG_SHELL=/bin/bash
./configure CONFIG_SHELL=/bin/bash
```

`configure' Invocation
======================

`configure' recognizes the following options to control how it
operates.

`--help'
`-h'
  Print a summary of all of the options to `configure', and exit.

`--help=short'
`--help=recursive'
  Print a summary of the options unique to this package's
  `configure', and exit. The `short' variant lists options used
  only in the top level, while the `recursive' variant lists options
  also present in any nested packages.

`--version'
`-V'
  Print the version of Autoconf used to generate the `configure'
  script, and exit.

`--cache-file=FILE'
  Enable the cache: use and save the results of the tests in FILE,
  traditionally `config.cache'. FILE defaults to `/dev/null' to
  disable caching.

`--config-cache'
`-C'
  Alias for `--cache-file=config.cache'.

`--quiet'
`--silent'
`-q'
  Do not print messages saying which checks are being made. To
  suppress all normal output, redirect it to `/dev/null' (any error
  messages will still be shown).

`--srcdir=DIR'
  Look for the package's source code in directory DIR. Usually
  `configure' can determine that directory automatically.

`--prefix=DIR'
  Use DIR as the installation prefix. *note Installation Names::
  for more details, including other options available for fine-tuning
  the installation locations.

`--no-create'
`-n'
  Run the configure checks, but stop before creating any output
  files.
'configure' also accepts some other, not widely useful, options. Run 'configure --help' for more details.

Found in path(s):
* /opt/cola/permits/1148332141_1619430820.99/0/xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-epqQtMyt/xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFlph/xcb-util-keysyms-0.4.0/INSTALL

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 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
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/**
* [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer] reference through WebSphere's proprietary [@code AdminServiceFactory] API, available on WebSphere 5.1 and higher.

* </p>
* Exposes the [@code MBeanServer] for bean references.
* This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean], which uses standard JMX 1.2 API to access the platform's MBeanServer.

* </p>
* See the javadocs for WebSphere's

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
A condition is any state that can be determined programmatically before the bean definition is due to be registered (see \link Condition for details).

The \code\Conditional\ annotation may be used in any of the following ways:

- as a type-level annotation on any class directly or indirectly annotated with \code\Component\, including \link Configuration \Configuration\ classes
- as a meta-annotation, for the purpose of composing custom stereotype annotations
- as a method-level annotation on any \link Bean \Bean\ method

If a \code\Configuration\ class is marked with \code\Conditional\, all of the \code\Bean\ methods, \link Import \Import\ annotations, and \code\ComponentScan \ComponentScan\ annotations associated with that class will be subject to the conditions.

**NOTE**: Inheritance of \code\Conditional\ annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, \code\Conditional\ itself is not declared as \code\Inherited\; furthermore, any custom \em condition\ that is meta-annotated with \code\Conditional\ must not be declared as \code\Inherited\.

@since 4.0
@see Condition

*/

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  jar/org/springframework/jndi/JndiAccessor.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanElement.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXHelper.java

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
1.1242 libtool 2.4.2-22.el7_3

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.1243 dleyna-connector-dbus 0.2.0-2.el7

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for
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encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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1.1249 gnome-settings-daemon 3.28.1-5.el7

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1.1250 udisks 2.7.3-9.el7
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1.1256 jboss-as-jpa-hibernate3 7.3.0.Final-redhat-14

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1.1260 stateless4j 2.5.0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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1.1275 weld-environment-common 2.4.8.Final

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---
abstract: 'alternative warn and die for modules'
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0

---
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Exporter: 0
  IPC::Open3: 1.0103
  Test::More: 0
  strict: 0
  warnings: 0
version: 1.26

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* /opt/cola/permits/1135855290_1613616277.4/0/perl-Carp-1.26-244.el7-1.src.rpm-cosi-expand-archive-uTFUuI0M/Carp-1.26.tar.gz-cosi-expand-archive-bamXpm7i/Carp-1.26/META.yml
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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck not exported by default
use Carp qw(cluck);
cluck "This is how we got here!";

=head1 DESCRIPTION
The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use C<carp> or C<croak> which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to, "inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)
=item 5.

Any call to Perl’s warning system (e.g. Carp itself) is safe.  
(This rule is what keeps it from reporting the error at the 
point where you call C<croak> or C<carp>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional 
call levels.  Using this is not recommended because it is very 
difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess 
and a carp as a cluck across I<all> modules.  In other words, force a 
detailed stack trace to be given.  This can be very helpful when trying 
to understand why, or from where, a warning or error is being generated.

This feature is enabled by ‘importing’ the non-existent symbol 
’verbose’.  You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT 
environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. 
See the C<GLOBAL VARIABLES> section below.

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to 
be shown in the output.  Use a value of C<0> to show all text.

Defaults to C<0>.

=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a 
function to print.  Use a value of C<0> to show the full length of the 
argument.

Defaults to C<64>. 
=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a value of C<0> to show all arguments to a function call.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp> and C<croak> generate stack backtraces just like C<cluck> and C<confess>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

    # These work
    our @CARP_NOT; # file scope
    use vars qw(@CARP_NOT); # package scope
    @My::Package::CARP_NOT = ... ; # explicit package variable

    # These don't work
    sub xyz { ... @CARP_NOT = ... } # w/o declarations above
    my @CARP_NOT; # even at top-level

Example of use:

    package My::Carping::Package;
    use Carp;
    our @CARP_NOT;
    sub bar { .... or _error('Wrong input') }
    sub _error {
        # temporary control of where'ness, __PACKAGE__ is implicit
        local @CARP_NOT = qw(My::Friendly::Caller);
        carp(@_)
    }

This would make C<Carp> report the error as coming from a caller not in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.
Also read the L</DESCRIPTION> section above, about how C<Carp> decides where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never report an error as being from a line in a package that is internal to Perl. For example:

```perl
$Carp::Internal{ (__PACKAGE__) }++; # time passes...
sub foo { ... or confess("whatever") };```

would give a full stack backtrace starting from the first caller outside of __PACKAGE__. (Unless that package was also internal to Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of C<Carp>'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that C<Carp> goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call
stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use
C<$@CARP_NOT>, C<$%Carp::Internal> and C<$%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently.
If called with a first argument that is a reference, they simply
call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
distribution.

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Carp - alternative warn and die for modules

DESCRIPTION

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that context is a summary of every call in the call-stack. For a shorter
message you can use carp or croak which report the error as being from
where your module was called. There is no guarantee that that is where
the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing
some global variables in the Carp namespace.

INSTALLATION

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make
make test
make install

AUTHOR

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.1291.1 Available under license:

No license file was found, but licenses were detected in source scan.

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No license file was found, but licenses were detected in source scan.

/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
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* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/GenerexIterator.java
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1.1292 xorg-x11-font-utils 7.5-21.el7

1.1292.1 Available under license:

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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/linux/LinuxNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/Levenshtein.java
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fuchsia
aqua
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grey0
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darkblue
blue3
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darkgreen
deepskyblue4
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green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deepink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
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lightskyblue3
lightskyblue3a
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darkseagreen3
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skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
darkslategray1
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deeppink4b
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magenta3
darkvioleta
purple
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/ScriptEngine.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/Builtinss.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/spi/JnWinSysTerminal.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/spi/JansiSupport.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/TTop.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/CommandRegistry.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/Printer.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/NfaMatcher.java

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can_change, ccc, cc
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cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
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1.1310 libvorbis 1.3.7

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1.1311 jandex 1.0.3.Final
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1.1312 jctools-core 3.0.0
1.1312.1 Available under license:
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1.1313 meanwhile 1.1.0-12.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
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library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.1314 cogl 1.22.8

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1315 jackson-dataformat-yaml 2.9.8

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1.1316 xorg-x11-xinit 1.3.4-2.el7

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1.1317 ubuntu-keyring 2018.09.18.1~18.04.0

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1.1318 libsmbios 2.3.3-8.el7
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 * * Whom: Steve Mertz <steve@dragon-ware.com>
 * * Date: 20010111
 * * Why: Because I couldn't find one that I liked. So I wrote this one.
 * *
 * * * *
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077229585_1601397420.45/0/jackson-mapper-asl-1-9-9-redhat-6-sources-
  jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.1329 selinux 2.7-2build2

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1.1335 gnome-icon-theme-symbolic 3.12.0-2.el7

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1.1339 cxf-rt-databinding-aegis 2.7.18

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Version 3, 29 June 2007

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1.1341 opensaml-java 2.5.3.redhat-2

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* limitations under the License.
*/
/** Overrides binding confidentiality. */
/**
 * Returns confidentiality override flag.
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * Sets confidentiality override flag.
 * @param flag override flag
 */

Found in path(s):
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1.1342 jackson-annotations 2.10.0
1.1342.1 Available under license:

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1.1343 libasyncns 0.8-7.el7

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The packages:

com.hazelcast.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).

The class `classloading.ThreadLocalLeakTestUtils` contains code originating from the Tomcat project (https://github.com/apache/tomcat).

`com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector` contains code originating from the Akka project (https://github.com/akka/akka/).

The package `com.hazelcast.internal.json` contains code originating from minimal-json project (https://github.com/ralfstx/minimal-json).

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1.1347 guava 13.0.1-redhat-1

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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/primitives/ParseRequest.java
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/collection/TreeRangeSet.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/primitives/UnsignedInts.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/primitives/UnsignedInts.java
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jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/TimeLimiter.java

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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/collect/RowSortedTable.java
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources.jar/com/google/common/primitives/Shorts.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
jar/com/google/common/collect/Maps.java.orig

1.1348 debianutils 4.8.4

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Modifications: Added cronjob, configuration file, and man pages.

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[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
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I am sympathetic. Guys, what do you reckon?

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If it's sinful, it's more fun.

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GPL would permit applications which were released under version 3 of the
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In any case, I thank you both for working on sorting this out.

Cheers,

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

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-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTPE id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTPE id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com

Open Source Used In Network Director for Virtual Machine Installation 4.7.1
14426
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
Found in path(s):
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/RoutingContext.java

No license file was found, but licenses were detected in source scan.

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*
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*/

Found in path(s):
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RouteState.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/MultiTenantHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/MultiTenantHandler.java

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 */

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/*
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 * The Apache License v2.0 is available at
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 *
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/*
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 * and Apache License v2.0 which accompanies this distribution.
 *
 * The Eclipse Public License is available at
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/SockJSHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/XhrTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/EventSourceTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/BaseTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/SockJSSocketBase.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/SockJSSession.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/EventBusBridgeImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/TransportListener.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/HtmlFileTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/JsonCodec.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/SockJSSocket.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/WebSocketTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/RawWebSocketTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/Transport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/JsonPTransport.java

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Found in path(s):
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/FaviconHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/DigestAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/impl/LocalSessionStoreImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/TimeoutHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/Router.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/BridgeEvent.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/SessionHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/TimeoutHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ErrorHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ErrorHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/ErrorHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/FormLoginHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/OAuth2AuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/RedirectAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/CookieHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/TemplateHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/socketjs/SocketHandlerOptions.java
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14433

jar/io/vertx/ext/web/handler/impl/LoggerHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/templ/CachingTemplateEngine.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/FileUpload.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/AuthorizationAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ResponseTimeHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/BridgeEventImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/RedirectAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/VirtualHostHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/SessionHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/BodyHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/FormLoginHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/ResponseTimeHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/RoutingContextWrapper.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/PublicSessionStore.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/Utils.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/BasicAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/StaticHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/JWTAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/CorsHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/TemplateHandlerImpl.java

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Found in path(s):
1.1352 expression 3.0.7.RELEASE

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Found in path(s):
* // Chew on the expression text - relying on the rules
  * case ""
  * case '
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0 []

Found in path(s):
* // brackets must be in pairs
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
  jar/org/springframework/expression/spel/ast/AstUtils.java
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" +

Found in path(s):
* "" for expression starting at character " + prefixIndex + "

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Found in path(s):
  * * http
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case '[': case '(': 

Found in path(s):
  * case '{'
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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
    jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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"foo${expr0}bar${expr1}". The static

Found in path(s):
  * * number of expressions all contained in "${...}" markers. For instance
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/SpelParseException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/ParserContext.java
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case ']':case ')

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* case ']
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* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Projection.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
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jar/org/springframework/expression/common/LiteralExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/InternalParseException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/PropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/Operator.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/support/ExpressionException.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/ws_local/PERMITS_SQL/1068640224_1597132714.93/0/spring-expression-3-0-7-release-sources-1-
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
1.1353 shadow 4.6-5.el7

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 */

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

(namespace Gio
{

/** An object representing the permission to perform a certain action.
 *
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 *
 * You can query if the action is currently allowed and if it is
 * possible to acquire the permission so that the action will be allowed
 * in the future.
 *
 * There is also an API to actually acquire the permission and one to
 * release it.
 *
 * As an example, a Permission might represent the ability for the
 * user to write to a Settings object. This Permission object could
 * then be used to decide if it is appropriate to show a "Click here to
 * unlock" button in a dialog and to provide the mechanism to invoke
class Permission : public Glib::Object
{
  _CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

  _WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire, errthrow)
  _WRAP_METHOD(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{?.}), g_permission_acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish, errthrow)

  _WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release, errthrow)
  _WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), g_permission_release_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish, errthrow)

  _WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
  _WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
  _WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

  _WRAP_PROPERTY("allowed", bool)
  _WRAP_PROPERTY("can-acquire", bool)
  _WRAP_PROPERTY("can-release", bool)

protected:

  _CTOR_DEFAULT

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#m4 _CONVERSION(`GAsyncResult*`,`const Glib::RefPtr<AsyncResult>&`,`Glib::wrap($3, true)`)  
#m4 _CONVERSION(`GCancellable*`,`const Glib::RefPtr<Cancellable>&`,`Glib::wrap($3, true)`)  

  _WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{& cancellable}), acquire, errthrow)
  _WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)
  _WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable{& cancellable}), release, errthrow)
_WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), release_async, slot_name slot, slot_callback SignalProxy_async_callback)

// You should never call this function except from a Gio::Permission implementation.
_WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release), g_permission_impl_update)
}

} // namespace Gio

1.1357 hornetq-server 2.3.12.Final-redhat-1

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jar/org/springframework/core/convert/converter/GenericConverter.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/TypeDescriptor.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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/*
   Unix SMB/CIFS implementation.

generalised event loop handling

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Mesa 3-D graphics library
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1.1410 perl-plrpc 0.2020-14.el7
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From 29f5ad4805a04e4c44d18795f7153798c80a46ce Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:20:52 +0100
Subject: [PATCH] Security notice on Storable and reply attack
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Signed-off-by: Petr Psa <ppisar@redhat.com>
---
README              | 16 ++++++++++++++++  
lib/RPC/PlServer.pm | 15 ++++++++++++++++  
2 files changed, 31 insertions(+)

diff --git a/README b/README
index 8a68657..48a33e4 100644
--- a/README
+++ b/README
@@ -204,6 +204,7 @@ EXAMPLE
            require RPC::PlServer;
            require MD5;

+            package MD5_Server; # Clients need to request application
+            # "MD5_Server"

@@ -245,6 +246,10 @@ SECURITY
    Due to implementation of PlRPC, it's hard to use internal authentication
    mechanisms properly to achieve secured remote calls. Therefore users are
    advised to use an external authentication mechanism like TLS or IPsec.
+    I highly recommend the following design principles:

Protection against "trusted" users
@@ -263,6 +268,14 @@ SECURITY
        # Clients need to request application
        # "MD5_Server"

+    Due to implementation of PIRPC, it's hard to use internal authentication
+    mechanisms properly to achieve secured remote calls. Therefore users are
+    advised to use an external authentication mechanism like TLS or IPsec.
+    I highly recommend the following design principles:

Use of Storable
    Storable module used for serialization and deserialization
    underneath is inherently insecure. Deserialized data can contain
    objects which lead to loading foreign modules and executing possible
    attached destructors. Do not accept host-based unauthorized
    connections. The Storable module is exercised before checking user
    password.
+    perlsec
        And just in case I forgot it: Read the "perlsec" man page. :-)


SECURITY

authorized, you should switch to a user based key. See the
DBI::ProxyServer for an example.

+ Please note PlRPC encryption does not protect from reply attacks.
+ You should have implement it on the application or the cipher level.
+

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The PlRPC-modules are

diff --git a/lib/RPC/PlServer.pm b/lib/RPC/PlServer.pm
index 10b56c9..ce38594 100644
--- a/lib/RPC/PlServer.pm
+++ b/lib/RPC/PlServer.pm
@@ -613,6 +613,10 @@ I did my best to avoid security problems, but it is more than likely,
that I missed something. Security was a design goal, but not *the*
design goal. (A well known problem ...)

+Due to implementation of PlRPC, it's hard to use internal authentication
+mechanisms properly to achieve secured remote calls. Therefore users are
+advised to use an external authentication mechanism like TLS or IPsec.
+
+I highly recommend the following design principles:

=head2 Protection against "trusted" users

Think twice, before you give a client access to a method.

+=item Use of Storable
+
+L<Storable> module used for serialization and deserialization underneath is
+inherently insecure. Deserialized data can contain objects which lead to
+loading foreign modules and executing possible attached destructors. Do not
+accept host-based unauthorized connections. The L<Storable> module is
+exercised before checking user password.
+
+=item perlsec

And just in case I forgot it: Read the C<perlsec> man page. :-)

Please note PlRPC encryption does not protect from reply attacks. You should
+have implement it on the application or the cipher level.
+

1.1411 jboss-transaction-api 1.1.1.Final

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1.1412 cxf-rt-management 2.7.18

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.1422 jboss-threads 2.1.1.Final-redhat-1

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  QubZF6jA/mwords.tar.Z-cosi-expand-archive-81hGVEu8/mwords/113809of.fic
No license file was found, but licenses were detected in source scan.

QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk
(make sure you have at two (4) megabytes of free space on
your hard disk for each disk of Moby product).
Change your current directory ('CD') to that folder,
type BUILD and press (enter).
The files that are extracted may be viewed and edited by
any capable text-editor, such as Microsoft Word 5.x.

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Moby (tm) Words II for the MSDOS operating system is compressed and distributed on two 1.4MB double-sided diskettes. After self-extraction, the vocabulary files included with this product are in ordinary ASCII format with CRLF (ASCII 13/10) delimiters.

MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.

256,772 compound words
Over 256,700 hyphenated or other entries containing more than one word as well as all capitalized words and acronyms. Phrases were considered 'common' if they or variations of them occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm). Compatible with the first edition of the Official Scrabble Players Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the
74,550 common dictionary words
A list of words in common with two or more published dictionaries. This gives the developer of a custom spelling checker a good beginning pool of relatively common words.

21,986 names
This database contains the most common names used in the United States and Great Britain. Spelling checkers may want to supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used English words from a wide variety of common texts listed in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a best-selling novel by Amy Tan in 1990.

USA Constitution
The Constitution of the United States, including the Bill of Rights and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'etude'
does not mark the accent on the initial 'e'.

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B Special
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B battery
B board
B complex
B horizon
B major
B mi
B minor
B natural
B powder
B power supply
B quadrum
B rotundum
B supply
B'nai B'rith
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B-axes
B-axis
B-flat
B-flat major
B-flat minor
B-girl
B-scope
B-shaped
B-type
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Humayun
Humber
Humberside
Humbert
Humbert I
Humberto
Humberto Calderon
Humberto Calderon Berti
Hungarian
Hungarian brome grass
Hungarian goulash
Hungarian lilac
Hungary
Hungary blue
Hungary leather
Hungary water
Hunger
Hungerford
Hungnam
Hungtow Island
Hunk
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Hunsinger
Hunt
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Hunting Dogs
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Huntington
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Huntingtown
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Huon pine
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Hurleigh
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Hurwit
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Hyde
Hyde Park
Hyden
Hyder Ali
Hyderabad
Hydes
Hydesville
Hydetown
Hydeville
Hydnaceae
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Hydnoraceae
Hydnum
Hydra
Hydra-headed
Hydra-tainted
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Hydractinia
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Hydrangea
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Hydrocaryaceae
Hydrocharidaceae
Hydrocharis
Hydrocharitaceae
Hydrochelidon
Hydrochoerus
Hydrocleis
Hydrocorallia
Hydrocorallinae
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Hydrocorisae
Hydrocortone
Hydrocotyle
Hyper-uranian
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Hypercheiria
Hyperenor
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Hyperion to a satyr
Hypermnestra
Hyperoartia
Hyperoodon
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Hypocheiria
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Hypohippus
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Hypoparia
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Hypostomata
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Hypotheria
Hypotremata
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Hypsiprymnodontinae
Hypsiprymnus
Hypsipyle
Hypsistarian
Hypsistus
Hyrachyus
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Hyracina
Hyracodon
Hyracodontidae
Hyracoidea
Hyracotheriinae
Hyracotherium
Hyrcan
Hycania
Hyrcanian
Hyrie
Hyrmia
Hymnetho
Hyrtius
Hyrum
Hyrup
Hysham
Hyssopus
Hysteriales
Hystercarpus
Hysterophyta
Hystricidae
Hystricinae
Hystricomorpha
Hystrix
Hz
I
I Am
I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don't care
I don't have the first idea
I don't know what
I don't see how
I don't see why
I don't understand
I girder
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I''d
I''ll
I''s
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
I's
I've
I-beam
I-bunga
I-go
I-ism
I-ness
I-railed
I-ship
ISH
ISI
ISIS
ISLM
ISLU
ISM
ISN
ISO
ISODE
ISOO
ISOP
ISPM
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ISRG
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ISSN
IST
ISUP
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IT&T
ITA
ITC
ITCZ
ITM
ITO
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ITSEC
ITSO
ITT
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IWBNI
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Ibagu
Iban
Ibanag
Ibanez
Ibanez Del Campo
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Ibarquen Herrara
Ibarruri
Ibbetson
Ibbie
Ibbison
Ibby
Iberes
Iberi
Iberia
Iberian
Iberian Peninsula
Iberic
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Ibero-celtic
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Ibert
Ibibio
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Ibilao
Ibiza
Iblis
Ibn
Ibn Hussein
Ibo
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Ibrahim
Ibrahim Abdel Hadi
Ibrahim Al Soleiman
Ibrahim Hakimi
Ibrahim Hashim
Ibrahim Hussein
Ibrahim Pasha
Ibrahim el Kassem
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Icosteidae
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Idabel
Idaea
Idaeae
Idaeae
Idaeae Dactyl
Idaeae Mother
Idaho
Idaho cedar
Idaho white pine
Idahoan
Idaic
Idalia
Idalian
Idalina
Idomeneus
Idona
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Idothea
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Idou
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Idris I
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Ieda
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Ifill
Ifni
Ifugao
Ifugaos
Igal
Igara
Igbira
Igbo
Igbos
Igdrasil
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Iliadize
Iliamna
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Iligan
Iline
Ilio Bosi
Ilion
Ilione
Ilioneus
Ilisa
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Ilissus
Ilithyia
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Ilkeston
Ilkka Sinisalo
Ilkley
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Ilia
Illeaeus
Ilampu
Ilano
Ilanun
Ilawarra
Ilawarra ash
Ilawarra pine
Ille-et-Vilaine
Illecobraceae
Ilene
Ilertissen
Ilia
Illich
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Illinoisan
Illinois
Illinois gooseberry
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Imperata
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In Dubious Battle
In God We Trust
In Praise of Folly
Ina
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Inanna
Inari
Inarticulata
Inauguration Day
Inauguration day
Inavale
Inc
Inca
Inca bone
Inca dove
Incabloc
Incaic
Incan
Incaparina
Incarial
Incarnation
Incarvillea
Inchelium
Inchon
Incognito
Incorruptible
Increase
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Indanthrene
Indecidua
Independence
Independence Day
Independence Hall
Independence day
Independence hall
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Independent
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India
India berry tree
India buff
India chintz
India cotton
India drugget
India gall
India gum
India ink
India malacca
India matting
India muslin
India paper
India pepper
India pink
India print
India proof
India red
India rubber
India scrim
India shawl
India silk
India tan
India tea
India tint
India wheat
India-cut
India-rubber tree
India-rubber vine
Indiahoma
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Indian
Indian Claims Commission
Indian Desert
Indian Empire
Indian Hill
Indian Mutiny
Indian National Congress
Indian Ocean
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Indian agency
Indian agent
Indian apple
Indian balsam
Indian bison
Indian blanket
Indian bread
Indian breadroot
Indian bridle
Indian buffalo
Indian cherry
Indian cholera
Indian club
Indian cobra
Indian corn
Indian cress
Indian cup
Indian currant
Indian drug
Indian elephant
Indian fig
Indian file
Indian gift
Indian giver
Indian giving
Indian grackle
Indian hawthorn
Indian header
Indian heat
Indian hemp
Indian hippo
Indian house
Indian ink
Indian jujube
Indian lettuce
Indian licorice
Indian liquorice
Indian list
Indian lotus
Indian madder
Indian mallow
Indian meal
Indian millet
Indian mode
Indian mulberry
Indian paintbrush
Indian pink
Indian pinkroot
Indian pipe
Indian pitcher
Indian pony
Indian potato
Indian pudding
Indian red
Indian reservation
Indian reserve
Indian rice
Indian rope-trick
Indian rug
Indian ruler
Indian salad
Indian sanicle
Indian sign
Indian silk
Indian summer
Indian sweater
Indian tea
Indian tobacco
Indian turnip
Indian weed
Indian wolf
Indian wrestling
Indian yellow
Indian-meal moth
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Irish daisy
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Irish harp
Irish lord
Irish moss
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Irish setter
Irish soda bread
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Irish tweed
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Irish yew
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Isidorus
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Islesboro
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Isleta
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Ismet Inonu
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Italian
Italian East Africa
Italian Somaliland
Italian Wars of Independence
Italian aster
Italian blue
Italian bob
Italian bread
Italian clover
Italian corn salad
Italian cypress
Italian dressing
Italian earth
Italian greyhound
Italian hand
Italian honeysuckle
Italian ice
Italian jasmine
Italian leprosy
Italian ocher
Italian paste
Italian pink
Italian pox
Italian reed
Italian rye grass
Italian school
Italian sixth
Italian sonnet
Italian vermouth
Italian vote
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Japanese bath
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Japanese black pine
Japanese burnet
Japanese cedar
Japanese cherry
Japanese chestnut
Japanese clematis
Japanese crab
Japanese deities
Japanese flowering cherry
Japanese garden
Japanese gelatin
Japanese holly
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Japanese isinglass
Japanese ivy
Japanese lantern
Japanese larch
Japanese laurel
Japanese lawn grass
Japanese leaf
Japanese lily
Japanese maple
Japanese morning-glory
Japanese pagoda tree
Japanese paper
Japanese pear
Japanese persimmon
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Japanese red
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Japanese spaniel
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Muscovy duck
Muse
Muse of history
Muse-descended
Muse-haunted
Muse-inspired
Muse-led
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Musella
Muses
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Museum of Modern Art
Musgu
Musshabhihite
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Muskegon Heights
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Myrtillus
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Myrtlewood
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Mytilus
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Myxobacteriaceae
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N electron
N pole
N radiation
N series
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N station
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Nanga Parbat
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Nanjemoy
Nanjie
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Nankeen yellow
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Nanking china
Nanking porcelain
Nanking ware
Nanking yellow
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Naples yellow
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Napoleon III
Napoleon blue
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Naruna
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Nashville
Nashville warbler
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Nasireddin
Naskhi
Nasmyth
Nason
Nassa
Nassau
Nassau Mountains
Nassau grouper
Nassawadox
Nathrop
Natica
Naticidae
Natick
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Natiha
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Nation of Islam
National
National Academy of Engineering
National Academy of Sciences
National Assembly
National Aviation Day
National Bureau of Standards
National Charter
National Congress
National Convention
National Council
National Country Party
National Covenant
National Enterprise Board
National Front
National Gallery
National Guard
National Health Service
National Industrial Recovery Act
National Labor Relations Act
National Labor Relations Board
National Liberation Front
National Mediation Board
National People's Congress
National Republican Party
National Science Foundation
National Security Council
National Socialism
National Socialist
National Trust
National Union Catalog
National War Labor Board
National Wildlife Service
Nationalist China
Nationalist Party
Nations
Native American
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Natividad
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Naval Construction Battalion
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Neo-Hegelianism
Neo-Impressionism
Neo-Impressionist
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Neo-Kantian
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Neo-Latin
Neo-Lutheranism
Neo-Melanesian
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Neo-Plasticist
Neo-Platonism
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Neo-Pythagoreanism
Neo-Realism
Neo-Realist
Neo-Romanticism
Neo-Synephrine
Neo-attic
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Neo-egyptian
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Neo-marxian
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Neo-persian
Neo-plantonic
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Nernst heat theorem
Nernst lamp
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Nessler's solution
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New Guinea macrophylum
New Hampshire
New Hampshire red
New Hampton
New Harmony
New Haven
New Haven theology
New Hebrides
New Hebrides Condominium
New High German
New Holland
New Iberia
New Ireland
New Jersey
New Jersey plan
New Jerseyan
New Jerseyite
New Jerusalem
New Jerusalem Church
New Journalism
New Kensington
New Kingdom
New Latin
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New Lexington
New London
New Look
New Madrid
New Mexico
New Milford
New Model Army
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New Objectivity
New Orleans
New Orleans jazz
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New Orleans style
New Paltz
New Plymouth
New Providence
New Quebec
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New Romney
New Scotland Yard
New Siberian Islands
New South
New South Wales
New Spain
New Stone Age
New Style
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New Thought
New Thoughter
New Thoughtist
New Wave
New Wave'
New Windsor
New World
New World monkey
New Year
New Year's Day
New Year's Eve
New York
New York Bay
New York City
New York Curb Exchange
New York State
New York State Barge Canal
New York State wine
New York Stock Exchange
New York aster
New York cheese
New York cut
New York point
New York's finest
New Yorkese
New Zealand
New Zealand flax
New Zealand seal
New Zealand wineberry
New england
New englander
New englandish
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New hampshire
New hampshirean
New hampshirite
New jersey
New jerseyite
New mexican
New thought
New thoughter
New thoughtist
New world
New years day
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New york
New yorker
New zealand
New zealand
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Newark Bay
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Newcastle disease
Newcastle-under-Lyme
Newcastle-upon-Tyne
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Newmarket coat
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Newport Beach
Newport News
Newport boat
Newsom
Newsweek
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Newton Falls
Newton's law of gravitation
Newton's law of motion
Newton's laws of motion
Newton's method
Newton's rings
Newtonabbey
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Newtonian mechanics
Newtonian physics
Newtonian telescope
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Nicolae Ceausescu
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Ningirsu
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Ningsia Hui Autonomous Region
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Non-american
Non-anglican
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Non-archimedean
Non-asiatic
Non-attic
Non-bantu
Non-baptist
Non-biblical
Non-bolshevik
Non-bolshevist
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Non-british
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Non-calvinist
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Non-chaucerian
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Non-christian
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Non-congressional
Non-cymric
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Non-druid
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Non-european
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Non-israelite
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Non-italian
Non-japanese
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Non-negro
Non-nicene
Non-norman
Non-norse
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Non-peruvian
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Non-protestant
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Non-quaker
Non-riemannian
Non-russian
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Non-scandinavian
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Non-slavic
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Non-stoic
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Non-tartar
Non-teuton
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Non-umbrian
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Non-zionist
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Nonconformist
Nondalton
Nondeciduata
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Nordland
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Nordrhein-Westfalen
Nordstrom
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Noreen
Norene
Norfolk
Norfolk Island
Norfolk Island Pine
Norfolk coat
Norfolk jacket
Norfolk spaniel
Norfolkian
Norford
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Norlène
Norlina
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Normalie
Normalville
Norman
Norman Conquest
Norman English
Norman French
Norman Wells
Norman arch
Norman-French
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North Africa
North African
North America
North American
North Arlington
North Atlantic Current
North Atlantic Drift
North Atlantic Treaty
North Battleford
North Bay
North Bellevernon
North Bellmore
North Belmont
North Bend
North Bergen
North Borneo
North Brabant
North Brookfield
North Cape
North Carolina
North Carolinian
North Catasauqua
North Caucasian
North Caucasus
North Central region
North Channel
North Chicago
North Country
North Dakota
North East Frontier Agency
North Fond du Lac
North Frigid Zone
North Germanic
North Haledon
North Highlander
North Highlands
North Holland
North Island
North Korea
North Little Rock
North Manchester
North Mankato
North Miami
North Miami Beach
North Muskegon
North New Hyde Park
North Ogden
North Olmsted
North Pacific current  
North Palm Beach  
North Pelham  
North Pole  
North Rhine-Westphalia  
North Richland Hills  
North Riding  
North River  
North Riverside  
North Saskatchewan  
North Sea  
North Star  
North Syracuse  
North Tarrytown  
North Temperate Zone  
North Vietnam  
North Wales  
North Wildwood  
North Wilkesboro  
North Yorkshire  
North pole  
North-Sea gas  
North-West Frontier  
North-West Frontier Province  
Northallerton  
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Northampton  
Northamptonshire  
Northanger Abbey  
Northants  
Northborough  
Northcliff  
Northeast  
Northeast Passage  
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Northern Cameroons  
Northern Cross  
Northern Dvina  
Northern Ireland  
Northern Michigan  
Northern Paiute  
Northern Rhodesia  
Northern Rhodesian  
Northern Sotho  
Northern Sporades  
Northern Spy  
Northern Territories
Norway lobster
Norway maple
Norway rat
Norway ries
Norway spruce
Norwegian
Norwegian Coastal Current
Norwegian Current
Norwegian Sea
Norwegian elkhound
Norwegian saltpeter
Norwegian stove
Norwell
Norwich
Norwich terrier
Norwood
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Notasulga
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Notodontidae
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Novato
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Novikoff
Novinger
Novo-zelanian
Novocain
Novocaine
Novocherkassk
Novokuznetsk
Novonikolaevsk
Novorossiisk
Novoshakhtinsk
Novosibirsk
Novotny
Novum
Novum Organum
Nowa Huta
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Nudibranchia
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Nueva Gerona
Nueva Ocotepeque
Nuevo
Nuevo Laredo
Nuevo Leon
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Nuffield teaching project
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Nugent
Nugumiut
Nuits-Saint-Georges
Nuits-St-Georges
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Nukuhiwan
Nukus
Nuli
Nullarbor Plain
Nullipennes
Nullstellensatz
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Numa Pompilius
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Numantine
Numanus
Number Ten
Numbers
Numenius
Numerische
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Tycho
Tychon
Tychonian
Tychonic
Tychon
Tydeus
Tydides
Tye
Tyigh
Tyika
Tyl Eulenspiegel
Tylenchus
Tyler
Tylerism
Tylerite
Tylerize
Tylersburg
Tylersport
Tylersville
Tylerton
Tylertown
Tyll Eulenspiegel
Tylopoda
Tylosaurus
Tylostoma
Tylostomaceae
Tylosurus
Tymes
Tymon
Tymothy
Tympano-eustachian
Tympanuchus
Tynan
Tynadle
Tyndall
Tyndall beam
Tyndall effect
Tyndallization
Tyndallize
Tyndareos
Tyndareus
Tyndaridae
Tyne
Tyne and Wear
Tynemouth
Tyner
Tyneside
Tyngsboro
Tynwald
Typees
Typewriter
Typha
Typhaceae
Typhlomolge
Typhlopidae
Typhlops
Typhoean
Typhoeus
Typhoid Mary
Typhon
Typhonian
Typhonic
Typhula
Typotheria
Typotheriidae
Tyr
Tyra
Tyranni
Tyrannidae
Tyrannides
Tyranninae
Tyrannosaurus
Tyrannus
Tyre
Tyree
Tyrian
Tyrrian dye
Tyrrian purple
Tyro
Tyroglyphidae
Tyroglyphus
Tyrol
Tyrolean
Tyrolese
U tube
U valley
U's
U-boat
U-boot
U-cut
U-shaped
U-stirrup
U-turn
U/S
UA
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UAE
UAM
UAPDU
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UART
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UNEF
UNESCO
UNHCR
UNICEF
UNICS
UNIDO
UNISTAR
UNIVAC
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UNRWA
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UPC
UPDS
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UPWA
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Ubald
Ubali
Ubana
Ubangi
Ubangi-Shari
Ubbenite
Ubbonite
Ube
Ubermensch
Ubii
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Ubiquitism
Ubiquittist
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Ubu Roi
Uca
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Ucalegon
Ucayale
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Uccello
Uchean
Uchee
Uchida
Uchish
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Udaipur
Udale
Udall
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Ulonata
Ulophocinae
Ulothrix
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Ulphiiah
Ulpiam
Ulric
Ulrica
Ulrich
Ulrick
Ulrika
Ulrikaumeko
Ulrice
Ulrike
Ulrike Maier
Ulster
Ulster Defence Association
Ulsterian
Ulsterite
Ulsterman
Ultan
Ultann
Ultima
Ultima Thule
Ultonian
Ultor
Ultra-anglican
Ultra-byronic
Ultra-byronism
Ultra-calvinist
Ultra-christian
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Ultra-englishUltra-french
Ultra-french
Ultra-gallican
Ultra-gangetic
Ultra-german
Ultra-julian
Ultra-lutheran
Ultra-lutheranism
Ultra-martian
Ultra-neptunian
Ultra-pauline
Ultra-pecksniffian
Ultra-pluralism
Ultra-pluralist
Ultra-presbyterian
Ultra-puritan
Ultra-puritanical
Ultra-romanist
Ultra-tory
Ultra-toryism
Ultra-whig
Ultrasuede
Ultun
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Ulu-juz
Ulua
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Umbria
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Umbrian school
Umbriel
Umbro-etruscan
Umbro-florentine
Umbro-latin
Umbro-ocular
Umbro-roman
Umbro-sabellian
Umbro-samnite
Umbro-sienese
Umbundu
Ume
Umea
Umeh
Umeko
Ummersen
Umont
Umpqua
Umtali
Un
Un Ballo in Maschera
Un-african
Un-american
Un-americanism
Un-americanization
Un-americanize
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Un-anglican
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Un-athenian
Un-attic
Un-augian
Un-australian
Un-babylonian
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Un-biblically
Un-bostonian
Un-brahminic
Un-brazilian
Un-british
Un-buddhist
Un-chinese
Un-christlike
Un-christlikeness
Un-christliness
Un-christly
Un-christmaslike
Un-dominican
Un-doric
Un-egyptian
Un-elizabethan
Un-english
Un-englished
Un-englishmanlike
Un-etruscan
Un-european
Un-fenian
Un-finnish
Un-flemish
Un-florentine
Un-franciscan
Un-french
Un-georgian
Un-german
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Un-grandisonian
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Un-gregorian
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Un-hebraic
Un-hebrew
Un-hellenic
Un-hibernically
Un-hindu
Un-homeric
Un-horatian
Un-iberian
Un-icelandic
Un-indian
Un-indianlike
Un-ionic
Un-iranian
Un-irish
Un-irishly
Un-italian
Un-italiamate
Un-jacobean
Un-japanese
Un-jeffersonian
Un-johnsonian
Un-judaize
Un-kantian
Un-korean
Un-lacedaemonian
Un-latin
Un-lutheran
Un-machiavellian
Un-magyar
Un-malay
Un-maltese
Un-manchaeanize
Un-mediterranean
Un-methodize
Un-mexican
Un-miltonic
Un-mohammedan
Un-mongolian
Un-moorish
Un-mormon
Un-mosaic
Un-moslem
Un-moslemlike
Un-neapolitan
Un-norman
Un-norwegian
Un-olympian
Un-ovidian
Un-parisian
Un-parisianized
Un-peloponnesian
Un-persian
Un-petrarchan
Un-philadelphian
Un-pindaric
Un-pindarical
Un-pindarically
Un-platonic
Un-platonically
Un-polish
Un-portuguese
Un-presbyterian
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Un-protestantlike
Un-prussian
Un-prussianized
Un-pythagorean
Un-roman
Un-romanize
Un-romanized
Un-saracenic
Un-saxon
Un-scotch
Un-scottish
Un-scripturality
Un-semitic
Un-serbian
Un-shakespearean
Un-siberian
Un-sicilian
Un-slavic
Un-socratic
Un-southern
Un-spaniardized
Un-spanish
Un-spartan
Un-spenserian
Un-sundaylike
Un-swedish
Un-swiss
Un-teutonic
Un-thespian
Un-tudor
Un-turkish
Un-tuscan
Un-vedic
Un-venetian
Un-vergilian
Un-victorian
Un-viennese
Un-virgilian
Un-virginian
Un-voltairean
Un-wagnerian
Un-washingtonian
Un-welsh
Un-wordworthian
Un-yankee
Una
Una boat
Unadilla
Unakhotana
Unalachtigo
Unalaska
Unalaska Island
Unami
Unamuno
Uncaria
Uncasville
Uncinaria
Uncinata
Uncinula
Uncle
Uncle Remus
Uncle Sam
Uncle Sugar
Uncle Tom
Uncle Tom's Cabin
Uncle Vanya
Uncompahgre
Unit
Unit Citation
Unitarian
Unitarianism
Unitarianize
Unitas Fratrem
United
United Arab Emirates
United Arab Republic
United Arab States
United Brethren
United Church of Christ
United Empire Loyalist
United Kingdom
United Mexican States
United Nations
United Nations Children's Fund
United Nations Day
United Nations Educational
United Nations troops
United Party
United Presbyterian
United Press International
United Provinces
United Reformed Church
United States
United States Army
United States District Court
United States Employment Service
United States Information Agency
United States Marine Corps
United States Navy
United States Postal Service
United States Ship
United States Supreme Court
United States Tariff Commission
United States Tax Court
United States attorney
United States of America
United states
United-states-man
United-statesian
Unity
Unityhouse
Unityville
Univ
Univac
Universal Postal Union
Universal Product Code
Universal Soul
Universal Time
Universalian
Universalism
Universalist
Universalistic
University
University Heights
University Park
University Wits
Unix
Unjewish
Unkelos
Unknowable
Unknown American
Unknown Sea
Unknown Soldier
Unknown Warrior
Unni
Uno
Unona
Unrra
Unrussian
Unter den Linden
Untermeyer
Unterricht's disease
Unterseeboot
Unterwalden
Unuk al h
Unuk al hay
Unungun
Up-country
Up-state
Up-stater
Upali
Upanishad
Updike
Upham
Uphemia
Upington
Upis
Upland
Upolu
Upper Arlington
Upper Austria
Upper Burma
Upper Canada
Upper Chinook
Upper Cretaceous
Upper Egypt
Upper Michigan
Upper Palaeolithic
Upper Palatinate
Upper Peninsula
Upper Sandusky
Upper Silesia
Upper Tertiary
Upper Tunguska
Upper Volta
Upperco
Upperville
Uppsala
Upsala
Upshaw
Upson
Upton
Upupa
Upupidae
Ur
Ur of the Chaldees
Ur-Nammu
Uragoga
Ural
Ural Mountains
Ural-Altaic
Ural-altaiian
Ural-altaic
Uralian
Uralian emerald
Uralic
Uralo-altaiian
Uralo-altaic
Uralo-caspian
Uralo-finnic
Uran
Urana
Urania
Urania blue
Uranian
Uranicentric
Uranie
Uramiidae
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Uranoscopus
Uranus
Urartean
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Urartic
Urata
Uravan
Urba
Urbai
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Urban I
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Urbanist
Urbanna
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Urena
Urey
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Urginea
Urgonian
Urho Kekkonen
Uri
Uria
Uriah
V crowder
V croze
V curve
V formation
V neck
V point
V scraper
V section
V sign
V tail
V thread
V tool
V vat
V weld
V winding
V's
V-1
V-2
V-Day
V-E Day
V-J-P
V-J Day
V-blouse
V-bottom
V-eight
V-engine
V-formed
V-girl
V-grooved
V-mail
V-neck sweater
V-necked
V-particle
V-shaped
V-shaped comb
V-sign
V-type engine
V-weapon
V/STOL
V6
V8
V8A
V8A hospital
VAB
VABIS
VAC
VAD
VADS
VPF
VPISU
VPN
VR
VRC
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VSAM
VSAT
VSB
VSE
VSO
VSOP
VSP
VSR
VSS
VSSP
VSX
VT
VT fuse
VT fuze
VTAM
VTC
VTI
VTO
VTOC
VTOL
VTP
VTR
VTS
VTVM
VU
VUIT
VUP
VV
VVSS
VW
VWS
VXI
Va
Vaal
Vaalpens
Vaas
Vaasa
Vaasta
Vacation Bible School
Val
Val lace
Val-d'Oise
Val-de-Marne
Vala
Valadon
Valais
Valaree
Valaria
Valaskjalf
Valatie
Valborg
Valcour Island
Valda
Valdai Hills
Valdas
Valdemar
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Valdes
Valdese
Valdez
Valdimir Kryuchkov
Valdis
Valdivia
Valdosta
Vale
Valeda
Valenay
Valenba
Valence
Valencia
Valencia orange
Valencian
Valenciennes
Valenciennes lace
Valene
Valenka
Valens
Valenta
Valente
Valentia
Valentine
Valentide
Valentijn
Valentin
Valentina
Valentine
Vallejo
Vallenar
Valley
Valletta
Valley
Valley Center
Valley Forge
Valley Park
Valley Stream
Valley of Ten Thousand Smokes
Valleys of Andorra
Valli
Valliant
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Valliscaulian
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Vallisneriaceae
Vallo
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Valsalvan
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Valtin
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Valyermo
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Vaman
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Van
Van Allen belt
Van Allen radiation belt
Van Buren
Van Devanter
Van Diemen Gulf
Van Diemen's Land
Van Dyck
Van Gogh
Van de Graaff generator
Van der Waal's forces
VanAtta
VanHook
Vanaheim
Vanalstyne
Vanbrugh
Vance
Vanceboro
Vanceburg
Vancourt
Vancouver
Vancouveria
Vanda
Vandal
Vandalia
Vandalic
Vandemere
Vandemonian
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Vanden
Vandenberg
Vander
Vanderbilt
Vandergrift
Vanderhoek
Vanderpoel
Vanderpool
Vandervelde
Vandervoort
Vandiemenian
Vandiver
Vanduser
Vandyke
Vandyke beard
Veda
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Vedalia
Vedanga
Vedanta
Vedantic
Vedantism
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Vedas
Vedas, the
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Veddah
Vedder
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Vedetta
Vedette
Vedi
Vedic
Vedic Sanskrit
Vedic chant
Vedic hymn
Vediovis
Vedis
Vedism
Vedist
Vedius
Vee
Veedersburg
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Vega
Vegabaja
Veguita
Vehmgericht
Vehmgerichte
Vehmic
Veii
Veiko Hakulinen
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Veiltail
Veiowis
Veit
Vejoces
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Vejoz
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Velarde
Ventersdorp
Vento
Ventose
Ventre
Ventress
Ventriculites
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Ventris
Ventura
Venture Scout
Venturi meter
Venturi tube
Venturia
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Venus and Adonis
Venus de Milo
Venus flytrap
Venus hairstyle
Venus of Willendorf
Venus probes
Venus's curse
Venus's flower basket
Venus's flytrap
Venus's girdle
Venus's looking-glass
Venus's-flytrap
Venus's-girdle
Venus's-hair
Venusberg
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Veps
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Vera Cruz
Veracruz
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Veradale
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Veradia
Veradis
Veralyn
Verity
Verkhne-Udinsk
Verla
Verlag
Verlaine
Verlee
Verlia
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Vermeer
Vermes
Vermetidae
Vermetus
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Vermiformia
Vermilingues
Vermilinguia
Vermillion
Vermont
Vermont cent
Vermont cheese
Vermont snakeroot
Vermontian
Vermontese
Vermontville
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Verna
Vernaccia
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Verneuil
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Verney
Vernice
Vernier
Vernita
Vernoleninsk
Vernon
Vernon Valley
Vernonia
Vernoniceae
Vernor
Vernunft
Victoria
Victoria Cross
Victoria Day
Victoria Desert
Victoria Falls
Victoria Island
Victoria Land
Victoria Nile
Victoria Nyanza
Victoria blue
Victoria cross
Victoria day
Victoria de Durango
Victoria embankment
Victoria green
Victoria lake
Victoria lawn
Victoria lily
Victoria violet
Victorian
Victorian box
Victoriana
Victorianism
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Victormanuel
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Victory
Victory Day
Victory Medal
Victory button
Victory day
Victory garden
Victory loan
Victory of Samothrace
Victory ship
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Vida
Vida Breve La
Vidal
Vidalia
Vidar
Vidda
Viddah
Viguerie
Viipuri
Vijayawada
Viki
Viking
Vikki
Vikky
Viktor Chebrikov
Viktor Korchnoi
Vilas
Vilberg
Vilela
Vilfredo
Viilhelmina
Vilhjalmur
Vili
Villa
Villa Cisneros
Villa Park
Villa Rica
Villa-Lobos
Villach
Villada
Villahermosa
Villalba
Villamaria
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Villanova
Villanova culture
Villanovan
Villanueva
Villard
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Villarica
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Ville Platte
Ville Siren
Villeda Morales
Villeneuve
Villeurbanne
Villiers
Villiplacentalia
Villisca
Villon
Vilma
Vilnius
Vilonia
Viminal
Vimy
Vin
Vina
Vinalia
Vinaya
Vinaya Pitaka
Vinca
Vince
Vince Boryla
Vincelette
Vincennes
Vincent
Vincent Askew
Vincent Barabba
Vincent Bugliosi
Vincent Cianci
Vincent de Paul
Vincent sauce
Vincent's angina
Vincent's infection
Vincenta
Vincente Aleixandre
Vincente Cauce
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Vindhya Range
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Volksdeutscher
Volkslied
Volksschule
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Vtesse
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Vudimir
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Vueltas tobacco
Vuillard
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Vulcanian
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Vulturinae
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W
W Va
W chromosome
W star
Wagneriana
Wagnerianism
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Wagon
Wagoner
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Wagram
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Wagweno
Waha lake trout
Wahabi
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Wahhabism
Wahiawa
Wahima
Wahkiacus
Wahkon
Wahkuna
Wahl
Wahlenbergia
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Wahoo
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Waianaee
Waibling
Waicuri
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Waikato
Waikiki
Wailaki
Wailing Wall
Wailoo
Wailuku
Waimanalo
Waimea
Wain
Waine
Wainscott
Wainwright
Waipahu
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Wait
Waite
Waiter
Waiteville
Waiting for Godot
Waitsburg
Waitsfield
Waiwai
Waiyeung
Wajda
Waka
Wakamba
Wakarusa
Wakashan
Wakayama
Wake
Wake Forest
Wake Island
Wake knot
Wakeen
Wakeeney
Wakefield
Wakeman
Wakenda
Wakerly
Wakhi
Waki
Wakita
Wakonda
Wakore
Wakpala
Waksman
Wakulla
Wakwafi
Wal
Walach
Walachia
Walachian
Walapai
Walbrzych
Walburg
Walburga
Walcheren
Walchia
Walcoff
Walcott
Walczak
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Waldack
Waldemar
Waldemar I
Walden
Walden inversion
Waldenburg
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Waldoboro
Waldon
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Waldron
Waldstein
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Waldwick
Waler
Wales
Waleska
Waley
Walfish Bay
Walford
Walgreen
Walhall
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Yellow Hats
Yellow Pages
Yellow River
Yellow Sea
Yellow Springs
Yellowknife
Yellowstone
Yellowstone Falls
Yellowstone National Park
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Yenisei ostyak
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Yeoman of the Royal Guard
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Yerava
Yeraver
Yerba de para
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Yin and Yang
Yin-Yang School
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Yingkow
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Yitzhak Shamir
Yizkor
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Yoshio
Yoshkar-Ola
Yost
You Can't Go Home Again
You Can't Take It With You
Youlou
Youlton
Young
Young Ireland
Young Italy
Young Lonigan
Young Pretender
Young Turk
Young plan
Young's modulus
Younger
Younger Edda
Younglove
Youngman
Youngran
Youngstown
Youngsville
Youngtown
Youngwood
Yountville
Your Excellency
Your Highness
Your Ladyship
Your Lordship
Your Majesty
Yousaf Abu Hantash
Youskevitch
Yousuf
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Yponomeuta
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Zakir Husain
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Zermelo's axiom
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Zero-zero
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Zerubbabel
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Zhang Chungqiao
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Zonotrichia
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Zonta club
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Zonuridae
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Zorn's lemma
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Zosteropinae
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Zouave jacket
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Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
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Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
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Zuider Zee
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Zuleika
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Zulfikar Ali Bhutto
Zulhijjah
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Zulu-kaffir
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Zygophyllum
Zygoptera
Zygopteraceae
Zygopterides
Zygopteris
Zygosaccharomyces
Zyrenian
Zyrian
Zyrrian
Zysk
Zythia
Zyzomys
Zyzzogeton
Zz
a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deux
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hand at
a hand for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemende
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'étouffée
a l'improviste
a l'italienne
a la
a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearnaise
a la bonne femme
a la bordelaise
a la bourgeoise
a la carte
a la casserole
a la cocotte
a la coque
a la creole
a la dauphine
a la dauphinoise
a la derobee
a la diable
a la francaise
a la godiveau
a la grecque
a la jardiniere
a la julienne
a la king
a la lyonnaise
a la macedoine
a la maitre d'hotel
a la matelote
a la mire
a la mode
a la mode de Caen
a la mort
a la napolitaine
a la normande
a la parisienne
a la polonaise
a la printaniere
a la ravigote
a la reine
a la russe
a la serviette
a la sourdine
a la suisse
a la tartare
a la vinaigrette
a lac
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a rebours
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a string to it
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-dead
a-deep
a-doors
a-flicker
a-game
a-glimmer
a-glucosidase
a-good
ab extra
ab initio
ab intra
ab origine
ab ovo
ab ovo usque ad mała
ab urbe condita
ab-
abacus major
abacus pythagoricus
abalone shell
abandon hope
abandon the world
abandoned person
abandoned thing
abase bemean
abase yourself
abatement of differences
abb wool
abbey counter
abbey laird
abbey lands
abbey lubber
abbot cloth
abbreviated number
abc soil
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abducens nerve
abducent nerve
abelian group
aberdeen angus
aberrant duct
aberration constant
abide by
abide in
abide with
abide your time
abiding place
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablation room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
above-quoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxas stone
abreast of
abreast of the times
abruptly acuminate
abruptly pinnate
abs-
abscisic acid
absciss layer
abscission layer
abscission zone
absence flag
absence of assignable cause
absence of authority
absence of charge
absence of color
absence of mind
absence of motion
absence state
absence without leave
absent flag
absent treatment
absent voter
absent without leave
absent yourself
absent yourself from
absent-minded
absent-mindedly
absent-mindedness
absente reo
absentee ballot
absentee landlord
absentee vote
absentee voter
absentee voting
absinthe green
absinthe oil
absit omen
absolute alcohol
absolute altimeter
absolute altitude
absolute angstrom
absolute ceiling
absolute certainty
absolute complement
absolute contradiction
absolute convergence
absolute credibility
absolute ego
absolute fact
absolute free will
absolute humidity
absolute idea
absolute idealism
absolute idealist
absolute impediment
absolute index of refraction
absolute indication
absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
absolute permittivity
absolute pitch
absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
absorbed interest
absorbed with
absorbent cotton
absorber oil
absorbing well
absorption and regurgitation
absorption band
absorption bands
absorption circuit
absorption coefficient
absorption current
absorption discontinuity
absorption dynamometer
absorption edge
absorption factor
absorption limit
absorption lines
absorption pipette
absorption screen
absorption spectrum
absorption system
abstain from
abstinence from food
abstinence theory
abstract algebra
abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
acajou balsam
acanth-
acantho-
acanthosis nigricans
acanthus family
acanthus leaf
acaroid gum
acaroid resin
acaroid resins
accede to
accede to prejudice
accede to the throne
acceleration coefficient
acceleration due to gravity
acceleration note
acceleration of free fall
acceleration of gravity
acceleration principle
accelerator globulin
accelerator nerve
accent mark
accentual meter
accept Christ
accept a challenge
accept advice
accept for gospel
accept implicitly
accept obligation
accept responsibility
accept the responsibility
accept unquestioningly
accept your fate
accept your lot
acceptable person
acceptance bill
acceptance house
acceptance race
acceptance sampling
acceptance speech
acceptance supra protest
accepted conduct
accepted fact
accepted masons
accepted meaning
acceptor atom
acceptor impurity
acceptor supra protest
access road
access time
accession book
accession number
accession service
accession to power
accessory adjunct
accessory after the fact
accessory before the fact
accessory chromosome
accessory fruit
accessory nerve
accident boat
accident insurance
accident neurosis
accident prone
accident tout
accident-prone
accidental discovery
acclamnation medal
acclimation fever
accommodate distribution
accommodate to
accommodate with
accommodate yourself to
accommodated to
accommodation acceptance
accommodation address
accommodation bill
accommodation draft
accommodation group
accommodation ladder
accommodation line
accommodation paper
accommodation train
accommodation works
accompaniment figure
accompanying fire
accomplice in crime
accomplished fact
accord a blank check
accord respect to
accord to
according as
according to
according to Hoyle
according to circumstances
according to custom
according to expectation
according to law
according to regulations
according to reports
according to rule
according to rumor
according to the agreement
according to the bargain
according to the contract
according to the dictates of Mrs
according to the evidence
according to the letter
according to this reading
according to use
according to your lights
accordion pleat
accordion pleats
account as
account book
account current
account day
account days
account duty
account entry
account executive
account for
account of
account payable
account receivable
account render
account rendered
account sales
account stated
account with
accountant general
accounted as
accounting for
accounting period
accounts current
accounts payable
accounts payable ledger
accounts receivable
accounts receivable ledger
accredit with
accrete to
accretion borer
accretion cutting
accroach to yourself
accroides gum
accrual basis
accrue from
accrue to
accrued dividend
accrued dividends
accrued interest
accrued liability
accumulated dividends
accumulation factor
accumulation point
accusative-dative
accuse of
accuse yourself
accustom yourself to
ace in the hole
ace point
ace-high
acet-
acetal phosphatide
acetate green
acetate nitrate
acetate rayon
acetic acid
acetic acid amide
acetic anhydride
aceto-
acetoacetic acid
acetone alcohol
acetone body
acetone chloroform
acetone oil
acetous fermentation
acetyl benzoyl peroxide
acetyl bromide
acetyl carbinol
acetyl chloride
acetyl group
acetyl index
acetyl number
acetyl oxide
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylformic acid
acetylsalicylic acid
acey-deucy
ach-y-fi
ache for
ache to
achemon sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achylia gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsine
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acid-base metabolism
acid-binding
acid-fast
acid-fastness
acid-forming
acid-head
acid-mordant dye
acid-treat
acidity coefficient
acidophilus milk
ack emma
ack-ack
ack-pirate
acknowledge defeat
acknowledge receipt of
aclinic line
acme harrow
acme of perfection
acme screw thread
acme thread
acne vulgaris
aconite violet
acorn barnacle
acorn chair
acorn clock
acorn cup
acorn duck
acorn moth
acorn shell
acorn spoon
acorn squash
acorn sugar
acorn tube
acorn valve
acorn weevil
acorn worm
acorn-shell
acouchi resin
acoustic feature
acoustic gramophone
acoustic impedance
acoustic inertance
acoustic mass
acoustic meatus
acoustic mine
acoustic nerve
acoustic ohm
acoustic phonetics
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acrylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acrylyl group
acrylyl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
action filer
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
action time
action viewer
action-taking
action-taking knave
activated alumina
activated carbon
activated charcoal
activated epilepsy
activated sludge
activated-sludge process
activation energy
active algolagnia
active carbon
active communications satellite
active current
active duty
active fancy
active immunity
active layer
active list
active market
active operations
active principle
active reason
active securities
active service
active stock
active treatment
active use
active voice
active-bodied
active-limbed
active-minded
activist art
activity coefficient
activity stream
activity theory
actor's agent
actor's lines
actor-manager
actor-proof
actual cautery
actual cost
actual energy
actual fact
actual grace
actual presence
actual price
actual sin
actual thing
actuality theory
actuarial calculation
actuarial prediction
actuarial table
acute accent
acute alcoholism
acute angle
acute anterior poliomyelitis
acute arch
acute arthritis
acute articular rheumatism
acute bisectrix
acute bronchitis
acute condition
acute conjunctivitis
acute disease
acute inflammation
acute leukemia
acute pain
acute sense of hearing
acute sight
acute-angled
acute-angled triangle
acuti-
acuto-
acuyari palm
acuyari wood
acyclic co-ordinates
acyclic terpene
acyl group
acyl radical
ad Kalendas Graecas
ad arbitrium
ad astra per aspera
ad captandum vulgus
ad esse
ad eundem
ad extremum
ad fin
ad gloriam
ad hoc
ad hoc committee
ad hoc measure
ad hominem
ad hominem attack
ad in
ad inf
ad infinitum
ad init
ad initium
ad int
ad interim
ad lib
ad libitum
ad limina
ad litem
ad litteram
ad loc
ad majorem Dei gloriam
ad nauseam
ad out
ad patres
ad quem
ad rem
ad utrumque paratus
ad val
ad valorem
ad valorem duty
ad valorem tax
ad verbum
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
aductor canal
aductor impressions
aden-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylylpyrophosphoric acid
adept in
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
adjutant bird
adjutant crane
adjutant general
adjutant general corps
adjutant stork
adjutant-general
adjutants general
adjuvant treatment
administer Communion
administer a sacrament
administer absolution
administer an oath
administer extreme unction
administer justice
administer rites
administer the Eucharist
administer to
administration of justice
administration, the
administrative county
administrative engineer
administrator ad litem
admiral of the fleet
admiral shell
admiralty alloy
admiralty bond
admiralty brass
admiralty bronze
admiralty cloth
admiralty law
admiralty metal
admiralty mile
admiration mark
admission fee
admission of light
admit everything
admit exceptions
admit of
admit of comparison
admit of no doubt
admit of no option
admitted fact
admitting no denial
admitting no dispute
admitting no doubt
admitting no exception
admitting no question
admitting that
adobe bug
adobe flat
adobe house
adobe lily
adobe tick
adolescent beard
adolescent stream
adopt a belief
adopt the cause of
adorer le veau d’or
adp-
adq-
adren-
adrenal gland
adrenal insufficiency
adrenocorticotropic hormone
adrenocorticotropic hormone
adsorption compound
adsorption isotherm
adsuki bean
adult education
adulterous affair
advance against
advance agent
advance base
advance fee
advance guard
advance man
advance note
advance notice
advance party
advance payment
advance poll
advance sheets
advance signal
advance to the rear
advance tracks
advance upon
advanced age
advanced degree
advanced gas-cooled reactor
advanced guard
advanced in life
advanced in years
advanced standing
advanced trainer
advanced work
advanced years
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbal noun
adverbial phrase
aversative asyndeton
aversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
advertising matter
advertising writer
advice boat
advise colleague
advise with
advise with your pillow
advisory body
advisory council
aerodynamic wave drag
eaerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aerootitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aesth-physiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
affaire de coeur
affaires d'amour
affaires d'honneur
affaires de coeur
affect emotionally
affect epilepsy
affect memory
affect the guise of
affect the interest
affect the manner of
affect your mind
affectedly nice
affectionate name
affective faculty
affective meaning
afferent neuron
affiliate to
affiliate with
affiliated stations
affiliation order
affiliation proceedings
affine connection
affine geometry
affine group
affine transformation
affinity constant
affirmative action
affirmative attitude
affirmative expression
affirmative flag
affirmative voice
affirmative vote
affirmative-action
affirming gun
afford hope
afford proof of
afford support
afford to pay
afford you pleasure
affording no hope
afghan hound
afghan stitch
afghani rupee
afoot and lighthearted
afore-acted
afore-cited
afore-coming
afore-decried
afore-given
afore-going
afore-granted
afore-heard
afore-known
afore-mentioned
afore-planned
afore-quoted
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
afternoon lady
afternoon tea
afternoon watch
aftershave lotion
ag lug
ag-
again and again
again and yet again
again-
against all expectation
against order and discipline
against the
against the clock
against the grain
against the law
against the new and untried
against the sun
against the tide
against the time when
against the wind
against time
against your grain
against your will
agal-agal
agar-agar
agaric acid
agaric mineral
agaricic acid
agate glass
agate gray
agate jasper
agate line
agate opal
agate shell
agate snail
agatho-
agave cactus
age class
age coating
age distribution
age grade
age group
age hardening
age limit
age norm
age of Aquarius
age of consent
age of discretion
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
agee-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato-
aggressive mimicry
aggressive self-confidence
aggressively self-confident
aggressor nation
agile wit
again the government
agitator feed
agnus castus
agnus dei
agnostic accent
agonic line
agonize over
agonizing pain
agony column
agony of mind
agony of spirit
agony of suspense
agricultural economics
agricultural economy
agree for the sake of argument
agree in opinion
agree in principle
agree on
agree on a verdict
agree on terms
agree provisionally
agree to
agree to anything
agree to differ
agree to disagree
agree upon
agree with
agreeable rattle
agreeable to
agreeable-sounding
agreeably to
agreed case
agreed on all hands
agreement in principle
agreement of all
agreement to disagree
agricultural agent
agricultural ant
agricultural chemical
agricultural deities
agricultural engineer
agricultural geology
agricultural region
agriculture divinity
agrimony bark
agrimony water hemp
agro-
ague bark
ague cake
ague drop
ague grass
ague tree
ague-faced
ague-plagued
ague-rid
ague-sore
ague-struck
aguja volador
ahead both motors
ahead full
ahead of
ahead of its time
ahead of the game
ahead of time
ahead one-third
ahead standard
ahead two-thirds
ahoy there
aid and abet
aid and comfort
aid for the blind
aid grant
aid prayer
aid station
aid to dependent children
aid to navigation
aid to the blind
aid-de-camp
aide-de-camp
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air coach
air cock
air combat
air command
air commodore
air compressor
air condenser
air conditioner
air conditioning
air conduction
air consignment note
air control
air controlman
air controls
air cooler
air cooling
air corps
air corridor
air course
air cover
air crash
air crew
air crossing
air cruiser
air current
air curtain
air cushion
air cushion car
air cylinder
air discharge
air division
air drain
air drainage
air drill
air duct
air ejector
air embolism
air engine
air express
air filter
air fleet
air float
air flow
air force
air freight
air furnace
air gap
air gas
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air injector
air intake
air jack
air jacket
air lance
air lane
air law
air layering
air leak
air legs
air letter
air level
air lift
air line
air liner
air lock
air log
air machine
air mail
air maneuver
air map
air marshal
air mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cured
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
airspeed indicator
airtight secrecy
airway beacon
airy hope
airy nothing
airy sign
airy texture
airy-fairy
aisle seat
aitch-bone
ajax the less
ajowan oil
akamushi mite
akinetic epilepsy
al Marsala
al burro
al dente
al fine
al fresco
al limone
al piacere
al segno
al-
al-Fustat
al-Lat
al-Mamoun
al-Sahih
al-Uzza
alamo vine
alang grass
alang-alang
alant camphor
alant starch
alar cartilages
alar ligaments
alar septum
alar thoracic artery
alarm bell
alarm bird
alarm clock
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albumino-
albino-
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-metric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
aldleaved
alderman lizard
aldol condensation
ale brewer
ale brewing
ale drinker
ale drinking
ale feast
ale gallon
ale garland
ale glass
ale pitcher
ale seller
ale selling
ale stain
ale tun
ale vinegar
ale-blown
ale-born
ale-fed
ale-swilling
ale-washed
ale-wife
aleatory music
aleichem shalom
alekey trout
aleph-null
aleph-zero
alert for
aleurone grains
aleurone layer
alexander's foot
alfalfa butterfly
alfalfa caterpillar
alfalfa hopper
alfalfa looper
alfalfa meal
alfalfa valve
alfalfa weevil
alfresco meal
alg-
algae layer
algae zone
algal disease
algal fungus
algal-algal
algarroba bean
algebra of classes
algebra of relations
algebra of sets
algebraic conjugate
algebraic equation
algebraic extension
algebraic geometry
algebraic number
algebraic topology
algebraically closed field
algid cholera
algid fever
alginate fiber
alginate acid
algo-
algorhythmic language
ali-
alias dictus
alias writ
alibi out of
alien corporation
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquot part
aliquot tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all atwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools' day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints' day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls' day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all threes
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
all' ottava
all's well
all-
all-American
all-a-mort
all-abhorred
all-able
all-absorbing
all-accomplished
all-acting
all-admired
all-admiring
all-advised
all-affecting
all-afflicting
all-aged
all-air
all-amazed
all-american
all-appaled
all-appointing
all-approved
all-approving
all-armed
all-around
all-arraigning
all-arranging
all-assistless
all-atoning
all-attempting
all-availing
all-bearing
all-beauteous
all-beautiful
all-beholding
all-bestowing
all-binding
all-bitter
all-black
all-blasting
all-blessing
all-bounteous
all-bountiful
all-bright
all-brilliant
all-changing
all-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-disgraced
all-dispensing
all-disposer
all-disposing
all-divine
all-divining
all-dreaded
all-dreadful
all-drowsy
all-earnest
all-eating
all-efficacious
all-efficient
all-eloquent
all-embracing
all-embracingness
all-encompasser
all-encompassing
all-ending
all-enduring
all-engrossing
all-engulfing
all-enlightened
all-enlightening
all-enraged
all-envied
all-essential
all-evil
all-excellent
all-expense
all-expenses-paid
all-eyed
all-fair
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
all-knowingness
all-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obscuring
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overish
all-overishness
all-overpowering
all-overs
all-overtopping
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perfectly
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quicken
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rending
all-righteous
all-round
all-round price
all-roundedness
all-round
all-ruber
all-ruling
all-sacred
all-sanctifying
all-satiating
all-satisfying
all-saving
all-sayer
all-sea
all-searching
all-seeing
all-seeingly
all-seeingness
all-seer
all-shaking
all-shamed
all-shaped
all-shrouding
all-shunned
all-sided
all-silent
all-sized
all-sliming
all-soothing
all sorts
all-soul
all-spradning
all-star
all-stars
all-steel
all-strangling
all-subduing
all-summise
all-substantial
all-sufficiency
all-sufficient
all-sufficiently
all-sufficing
all-surpassing
all-surrounding
all-surveying
all-sustainer
all-sustaining
all-swallowing
all-swaying
all-telling
all-terrible
all-thorny
all-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
all-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshiped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allergic shock
allergy diet
alley cat
alley-oop
allez-vous-en
alice shad
alligation alternate
alligation medial
alligator apple
alligator bonnets
alligator buttons
alligator cacao
alligator clip
alligator fish
alligator forceps
alligator gar
alligator head
alligator jaw
alligator juniper
alligator lizard
alligator pear
alligator pepper
alligator shear
alligator shears
alligator snapper
alligator snapping turtle
alligator squeezer
alligator terrapin
alligator tree
alligator turtle
alligator wampee
alligator weed
alligator wrench
alliterative meter
allo-
allo-octaploid
allow for
allow the occasion to go by
allow yourself to hope
allowance account
allowance race
allowed time
allowing that
alloy balance
alloy charge
alloy iron
alloy steel
alloyed junction
allspice oil
allspice tree
allude to
alluring gland
alluvial cone
alluvial fan
alluvial plain
allways fuze
ally-ally out'n free
allyl alcohol
allyl aldehyde
allyl caproate
allyl chloride
allyl group
allyl isothiocyanate
allyl mercaptan
allyl mustard oil
allyl radical
allyl resin
allyl sulfide
allyl sulphide
allyl thiocarbamide
alma mater
alma-materism
almain-rivets
almenn turma
almes se
almighty dollar
almond black
almond brown
almond cake
almond extract
almond eye
almond family
almond green
almond kernel
almond meal
almond milk
almond oil
almond paste
almond peach
almond tumbler
almond willow
almond-eyed
almond-furnace
almond-leaved
almond-leaved willow
almond-shaped
almoner's cupboard
almost entirely
almost everywhere
almost periodic function
almost unheard-of
alms bag
alms basin
alms basket
alms box
alms bread
alms chest
alms dish
alms fee
alms gate
alms land
alms penny
alms priest
alms purse
alms-dealing
alms-fed
alms-house
almucantar staff
aloe creole
aloe hemp
aloe lace
aloe malgache
aloe-emodin
aloes green
aloes wood
aloft there
along by
along in years
along of
along the side of
along the way
along these lines
along toward
along with
alongside of
aloof from
alopecia areata
alopecia celsi
alopecia circumsicta
alouchi resin
alow and aloft
alpha and omega
alpha brass
alpha decay
alpha iron
alpha particle
alpha privative
alpha pulse analyzer
alpha radiation
alpha radiator
alpha ray
alpha rhythm
alpha score
alpha test
alpha-amylase
alpha-beta brass
alpha-cellulose
alpha-eucaine
alpha-hypophamine
alpha-naphthol
alpha-naphthyl group
alpha-naphthyl radical
alpha-naphthylamine
alpha-naphthyliiourea
alpha-particle scattering
alpha-stannic acid
alpha-tocopherol
alpha-truxilline
alphabet book
alphabet code
alphabet method
alphabet plant
alphabet soup
alphabetic character
alphabetic data
alphabetic symbol
alphabetical printer
alphanumeric code
alpine anemone
alpine aster
alpine azalea
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alterni-
alti-
alti-riilevi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relievo
alto-relieves
alto-riiievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
altocumulus floccus
altocumulus lenticularis
altocumulus stratiformis
altogether, the
altruistic ethics
aluchi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumino-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
aluminum sulfate
aluminum sulphate
alun-alun
alva marina
alveolar arch
alveolar process
alveolar ridge
alveolo-
alveolabial sulci
alveololingual sulci
always and everywhere
always trot out
alyce clover
amalgam arc
amalgam gilding
amalgamation process
amande amere
amande douce
amande pralinee
amandes mondees
amanita hemolysin
amanita toxin
amarant family
amaranth family
amaranth pink
amaranth-purple
amaryllis family
amassing evidence
amateur athlete
amateur band
amateur radio operator
amateur standing
amateur station
amateur status
amateur theatricals
amateur transmitter
amazing thing
amazon ant
ambary hemp
ambassador-at-large
ambassadors-at-large
amber brown
amber forest
amber jack
amber light
amber malt
amber mica
amber miner
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
ammoniac plant
ammoniacal liquor
ammoniaco-
ammoniob-
ammonioferric oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoeboid verse
amoebic dysentery
among other things
among the blest
among the living
among us
amor patriae
amorous dalliance
amorous looks
amorous pursuit
amorpho-
amorphous ergotinine
amorphous phosphorus
amount at risk
amount due
amount limit
amount of money
amount of stock
amount to
amount to something
amour propre
amour-propre
amparo blue
amparo purple
ampere arc
ampere balance
ampere turn
ampere-foot
ampere-hour
ampere-hour meter
ampere-minute
ampere-second
ampere-turn
amperometric titration
amphetamine sulfate
amphetamine sulphate
amphetamine withdrawal symptoms
amphi-
amphibian tractor
amphibian transport
amphibious attack
amphibious operations
amphibious warfare
amphibole group
ample scope
ample sufficiency
amplification factor
amplifier chain
amplifier circuit
amplifying circuit
amplifying generator
amplitude compass
amplitude control
amplitude factor
amplitude modulation
amply endowed
ampullar sense
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylicetic ether
amyylene hydrate
amyl-
amyloid degeneration
amyllum body
amyllum center
amyllum grain
amyllum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable Somewhat
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
anal character
anal fin
anal intercourse
anal sex
anal vein
analcite basalt
analog computer
analog feedback control
analog process
analog-digital converter
analogue computer
analogy test
analysis of variance
analysis situs
analytic continuation
analytic faculty
analytic geometry
analytic philosopher
analytic philosophy
analytic power
analytic psychology
analytical balance
analytical chemistry
analytical control unit
analytical cubism
analytical cubist
analytical geometry
analytical mechanics
analytical psychology
analytical spectrometer
analytico-architectural
analyze your motives
analyzed rhyme
anamite yeast
anamorphic lens
ananas oil
anaphylactic antibody
anaphylactic shock
anarcho-syndicalism
anarcho-syndicalist
anastomotic operation
anathema maranatha
anatomic diagnosis
anatomic medicine
anatomical pathology
anatomical snuffbox
anatomico-
ance errand
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien régime
ancien régime
ancienne noblesse
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strengt
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
androgenital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel-warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal disease
animal diseases
animal dyestuff
animal electricity
animal enclosure
animal faith
animal fiber
animal flower
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
animus revocandi
animus testandi
anionic detergent
anis-
anise camphor
anise hyssop
anise oil
anise plant
anise-scented goldenrod
aniseed fox
aniseed oil
aniseed star
aniseed tree
anisic alcohol
anisic aldehyde
aniso-
anisyl acetate
anisyl alcohol
ankle boot
ankle clonus
ankle cutter
ankle jerk
ankle ring
ankle sock
ankle strap
ankle tie
ankle-deep
ankle-jacked
annatto tree
anni mirabiles
annihilation radiation
anno Domini
anno Hejirae
another go
another kettle of fish
another shot
another time
another try
another-gates
another-guess
another-guise
anoxic anoxia
anp-
ansa hypoglossi
ansa subclavia
ansate cross
anserine skin
answer back
answer book
answer conclusively
answer for
answer the call of duty
answer the helm
answer the purpose
answer to
answer to a problem
answer to no man
answer-back
answerable for
answerable to
answering pennant
answering service
ant acacia
ant bear
ant bird
ant catcher
ant cattle
ant cow
ant egg
ant fly
ant heap
ant hill
ant hillock
ant king
ant lion
ant pipit
ant plant
ant rice
ant shrike
ant thrush
ant tree
ant worm
ant wren
ant-
ant-eater
ant-pipit
ant-thrush
antarctic beech
antarctic circle
antarctic circumpolar current
ante Christum
ante bellum
ante meridiem
ante mortem
ante partum
ante up
ante-
ante-Christum
ante-Nicaean
ante-Nicene
ante-Nicene Fathers
ante-acted
ante-ambulo
ante-bellum
ante-chapel
ante-ecclesiastical
ante-eternity
ante-mortem
ante-mortem clot
ante-orbital
ante-partum
ante-room
ante-temple
antecedent right
antecedent used in
antediluvian patriarch
antelope brush
antelope chipmunk
antelope squirrel
antenna array
antenna circuit
antenna filter
antenna grounding switch
antenna inductance
antenna mine
antenna resistance
antenna switch
antenna tower
antennae sword
antennal gland
antennal lobe
antenuptial contract
antenuptial settlement
anterior pituitary
anterior pituitary luteotropin
anterior tooth
antero-
antero-gradation
anterograde amnesia
anterograde memory
anth-
anthelic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthra-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Biblically
anti-Bolshevik
anti-Bolshevism
anti-Bolshevist
anti-Bolshevistic
anti-British
anti-Calvinism
anti-Calvinist
anti-Calvinistic
anti-Calvinistical
anti-Catholic
anti-Catholicism
anti-Darwin
anti-Darwinian
anti-Darwinism
anti-Darwinist
anti-English
anti-Europe
anti-European
anti-Europeanism
anti-France
anti-French
anti-Freud
anti-Freudian
anti-Freudianism
anti-G suit
anti-German
anti-Germanic
anti-Germanism
anti-Germanization
anti-Greece
anti-Greek
anti-Irish
anti-Italian
anti-Italianism
anti-Japanese
anti-Jesuit
anti-Jesuitic
anti-Jesuitical
anti-Jesuitically
anti-Jesuitism
anti-Jesuitry
anti-Jewish
anti-Judaic
anti-Judaism
anti-Judaist
anti-Judaistic
anti-Latin
anti-Latinism
anti-Malthusian
anti-Malthusianism
anti-Mexican
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Plato
anti-Platonic
anti-Platonically
anti-Platonism
anti-Platonist
anti-Polish
anti-Populist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semitic
anti-Semitism
anti-Serb
anti-Slav
anti-Slavic
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attrition
anti-birmingham
anti-christian
anti-depressant
anti-emetic
anti-ethmc
anti-federalist
anti-gallic
anti-galican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecomption
anti-lecomptom
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existentiary
anti-roman
anti-semite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberi-beri factor
antiblackout suit
antiblastic immunity
antic wit
anticipate a blessed event
anticipating a blessed event
anticrepuscular arch
antidote cacoon
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonie acid
antimonioso-
antimonious hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydride
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonal potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal canting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
anxioused up
any Tom
any color
any day
any he
any hour
any minute
any moment
any more
any old way
any one
any road
any time
any time now
any which way
any-kyn
anything but
anything like
anything soever which
anywhere near
ao dai
aoi tsuba
aortic arch
aortic incompetence
aortic insufficiency
aortic stenosis
aortic valve
ap proving
ap-
apache dance
apar-
apart from
apartment building
apartment hotel
apartment house
ape about
ape fissure
ape hand
ape man
ape over
ape-headed
ape-man
ape-men
apel-
apen-
aper-
aperiodic discharge
aperture card
aperture ratio
aperture stop
aperture vignette
apot-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplastic anemia
apo-
apoca trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles' creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
appalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
appertain to
appetizing store
appian way
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-checked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
appleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
apposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
aqua phagedaenica nigra
aqua pura
aqua regia
aqua rosae
aqua tofana
aqua vitae
aqua-vitae
aquamarine chrysolite
aquamarine topaz
aquatic plant
aqueduct bridge
aqueduct of Sylvius
aqueo-
aqueous ammonia
aqueous humor
aqueous humour
aquiline-nosed
aquo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitrament of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitae leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arc sine
arc spectrum
arc tangent
arc transmitter
arc weld
arc welder
arc welding
arc-back
arc-boutant
arc-jet engine
arc-over
arc-shaped
arcane meaning
arcanum arcanorum
arch aurora
arch bar
arch barrel
arch beam
arch board
arch brace
arch brick
arch bridge
arch buttress
arch dam
arch head
arch order
arch over
arch press
arch ring
arch solid
arch spring
arch stone
arch support
arch-
arch-brahman
arch-butler
arch-buttress
arch-chanter
arch-christendom
arch-christianity
arch-enemy
arch-fiend
arch-flamen
arch-foe
arch-gravity dam
arch-heretic
arch-poet
arch-prelate
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
archaeo-
archaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archiepiscopal cross
archil extract
archil liquor
archimedes’ screw
archippus butterfly
architect's table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
arcs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-altaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
argento-
argento-cuprous sulfide
argillaceo-
argillo-
arginine phosphagen
argle-bargie
argle-bargle
argon lamp
argon potassium dating
argue at the bar
argue down
argue for
argue insincerely
argue into
argue to no purpose
argue your case
argue-bargue
argument by analogy
argument from design
argument principle
argumentMaths
arguments at the bar
argumentum a fortiori
argumentum ad baculum
argumentum ad captandum
argumentum ad captandum vulgus
argumentum ad hominem
argumentum ad rem
argumentum baculinum
argus brown
argus pheasant
argus shell
argus tortoise beetle
argus-eyed
argy-bargied
argy-bargies
argy-bargy
argy-bargying
argyr-
arth-
aria buffa
aria cantabile
aria d'agilita
aria d'imitazione
aria da capo
aria da chiesa
aria di bravura
aria di coloratura
aria fugata
aria parlante
aria singer
arias da capo
arid region
ariel gazelle
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetico-geometric
arithmetico-geometrical
arithmo-
arjun wax
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bander
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
aroint thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrear-guard
arrear-ward
arrest attention
arrest of judgment
arrest the thoughts
arrest your notice
arrested development
arresting gear
arrester hook
arriere fee
arriere tenant
arriere vassal
arriere-ban
arriere-pensee
arris fillet
arris gutter
arris piece
arris rail
arrive at
arrive at a conclusion
arrive at an agreement
arrive in
arrive upon
arrogate to yourself
arrow aimed at your heart
arrow arum
arrow cane
arrow for
arrow grass
arrow horn
arrow maker
arrow making
arrow mehl
arrow release
arrow rest
arrow shot
arrow snake
arrow stave
arrow straightener
arsenious oxide
arseniuretted hydrogen
arseno group
arseno radical
arseno-
arsenous acid
arsenous anhydride
arsenous oxide
arsha rite
arsino group
arsino radical
arson investigator
arsy-varsiness
arsy-varsy
arsy-versy
art autre
art brown
art brut
art center
art column
art composition
art critic
art criticism
art dealer
art deco
art department
art design
art director
art editor
art equipment
art exhibition
art expression
art film
art form
art gallery
art glass
art gray
art green
art guild
art league
art lining
art manual
art museum
art music
art nouveau
art object
art of public speaking
art of reason
art of war
art paper
art period
art school
art schools
art shade
art song
art square
art student
art styles
art supervisor
art teacher
art theater
art union
art work
art-colored
art-conscious
art-like
art-minded
artemisia green
arteri-
arthritis deformans
arterial aneurism
arterial blood
arterial highway
arterial street
arterial transfusion
arterial varix
arteriosclerotic psychosis
artery forceps
artesian borer
artesian well
artful dodge
artful endearments
arth-
arthritis fungosa
arthitis pauperum
arthro-
arthrode
artichoke bottom
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articled clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist's model
artist's proof
artist-in-residence
artiste-peintre
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists' canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
aryteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make ‘em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn’d snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
as you will
as you wish
as-
asa dulcis
asafetida oil
asarum camphor
asarum oil
asbestos blanket
asbestos board
asbestos braid
asbestos carder
asbestos cement
asbestos cloth
asbestos covering
asbestos crusher
asbestos curtain
asbestos doubler
asbestos felt
asbestos fiber
asbestos filter
asbestos flooring
asbestos lagging
asbestos lining
asbestos listing
asbestos lumber
asbestos paper
asbestos porcelain
asbestos rock
asbestos tile
asbestos toaster
asbestos weaver
asbestos wood
asbestos-coated
asbestos-corrugated
asbestos-covered
asbestos-packed
asbestos-protected
asbestos-welded
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
ascorbic acid
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ash heap
ash hopper
ash key
ash leaf
ash oven
ash pile
ash pole
ash pone
ash pumpkin
ash rock
ash spear
ash staff
ash tray
ash tree
ash wednesday
ash wood
ash-bellied
ash-blond
ash-blue
ash-colored
ash-free
ash-gray
ash-gray blister beetle
ash-leaved
ash-leaved maple
ash-looking
ash-staved
ash-throated
ash-wednesday
ash-white
ashamed of yourself
ashen-hued
ashes in the mouth
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
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assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses' bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignation house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant buyer
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
astringent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockcrow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death's door
at demand
at discretion
at each other's throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at law
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o’clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war ’twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit's end
at your wits' end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamasco lily
ate-
atef crown
atef-crown
atelets sauce
atelo-
ater-
athanasian creed
athel tree
athlete's foot
athlete's heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
ataka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atlo-odontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic age
atomic arsenal
atomic attack
atomic battery
atomic beam
atomic bomb
atomic cannon
atomic chemistry
atomic clock
atomic cluster
atomic cocktail
atomic constants
atomic decay
atomic disintegration
atomic energy
atomic energy plant
atomic engine
atomic explosion
atomic furnace
atomic gun
atomic heat
atomic hydrogen torch
atomic hydrogen welding
atomic hypothesis
atomic mass
atomic mass unit
atomic model
atomic nucleus
atomic number
atomic particle
atomic particles
atomic pile
atomic power
atomic power plant
atomic project
atomic radiation
atomic ray
atomic reaction
atomic research
atomic science
atomic scientist
atomic structure
atomic submarine
atomic theory
atomic units
atomic units and constants
atomic volume
atomic war
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atone for
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atrocious pain
atrocity story
atrophic arthritis
atrophic inflammation
attacha subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attache case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
au courant
au fait
au fond
au fromage
au gras
au gratin
au jus
au kirsch
au lait
au maigre
au naturel
au pair
au pair girl
au pied de la lettre
au reste
au revoir
au vert pre
au vin blanc
au vol
aubergine purple
auburn-haired
auction agent
auction block
auction bridge
auction euchre
auction hearts
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
auto pilot
auto polish
auto radio
auto sacramental
auto show
auto-
auto-alarm
auto-audible
auto-da-f
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automanual system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
automatic plotter
automatic premium loan
automatic printer
automatic range finder
automatic reaction
automatic response
automatic rifle
automatic screw machine
automatic sight
automatic sprinkler
automatic stability
automatic stop
automatic switch
automatic technician
automatic technology
automatic telegraph
automatic telephone
automatic telephone exchange
automatic telephone system
automatic tracking
automatic transmission
automatic trip
automatic typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
automotive engineer
automotive engineering
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autoserum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autumnal equinox
autumnal point
aux abois
average-life period
averse to
aversion therapy
avert the eyes
avian diphtheria
avian leukosis
avian pneumoencephalitis
avian pox
avian pseudoplaue
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
avoirdupois pound
avoirdupois weight
avowed Communist
aw-
awake a doubt
awake a suspicion
awake the dead
awake the echoes
awake to
awake to life immortal
awaken the memory
awaken the mind
awaken the thoughts
awaken to
award wage
award winner
aware of
away back
away from
away from home
away from the point
away off
away with you
away-going
away-going crop
awe-awakening
awe-band
awe-bound
awe-commanding
awe-compelling
awe-filled
awe-inspired
awe-inspiring
awe-inspiringly
awe-stricken
awe-strike
awe-struck
awful silence
awful-eyed
awful-gleaming
awful-looking
awful-voiced
awkward age
awkward person
awkward squad
awl bird
awl-fruited
awl-leaved
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awnless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
aza-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseilline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-penciled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azurite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbitt metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies’-breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
baby buggy
baby bunting
baby carriage
baby clothes
baby eyes
baby face
baby farm
baby farmer
baby farming
baby fern
baby grand
baby grand piano
baby heathberry
baby jib topsail
baby kisser
baby lace
baby linen
baby orchid
baby pin
baby pink
baby primrose
baby rambler
baby ribbon
baby seal
baby sitter
baby snatcher
baby split
baby spot
baby spotlight
baby step
baby talk
baby tears
baby threader
baby tooth
baby walker
baby's breath
baby's-breath
baby's-slippers
baby-blue-eyes
baby-browed
baby-doll
baby-face
baby-faced
baby-featured
baby-kissing
baby-sat
baby-sit
baby-sitter
baby-sitting
baby-sized
baby-snatching
baby-tears
bacalao bird
baccalaureate sermon
baccalaureate service
bach it
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back green
back hair
back head
back home
back judge
back letter
back line
back liner
back lining
back link
back list
back lot
back maker
back marker
back matter
back molding
back number
back o' Bourke
back o' beyond
back of
back of beyond
back off
back one-third
back order
back out
back out of
back overman
back pack
back page
back painting
back passage
back paternoster
back payments
back pitch
back plastering
back play
back pressure
back projection
back rest
back road
back rod
back room
back run
back sail
back saw
back scatter
back scene
back score
back scratcher
back scratching
back seat
back shaft
back shop
back shutter
back side
back sinew
back slang
back staff
back stairs
back step
back stop
back straight
back strapper
back stream
back street
back stretch
back swath
back swimmer
back talk
back tendon
back the wrong horse
back to back
back track
back trail
back turn
back two-thirds
back up
back vent
back venting
back water
back way
back when
back yard
back-
back-acting
back-acting steam engine
back-action steam engine
back-alley
back-and-forth
back-angle
back-bencher
back-berend
back-biting
back-blocker
back-blowing
back-board
back-breaking
back-breathing
back-broken
back-burner
back-check
back-cloth
back-cloths
back-coming
back-connected
back-connected switch
back-country
back-door
back-drawing
back-drawn
back-end
back-face
back-facing
back-fanged
back-fence gossip
back-filleted
back-fire
back-flowing
back-flung
back-focused
back-formation
back-geared
back-glancing
back-going
back-hand
back-handed
back-handed compliment
back-hander
back-lash
back-leaning
back-light
back-lighted
back-lighting
back-list
back-lit
back-log
back-looking
back-lying
back-making
back-number
back-paddle
back-paint
back-palm
back-pedal
back-pedaled
back-pedaling
back-pedalled
back-pedalling
back-piece
back-plaster
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scratcher
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrate
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backstay stools
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bacon-lettuce-tomato sandwich
bacteri-
bacteria bed
bacterial blight
bacterial canker
bacterial disease
bacterial plaque
bacterial therapy
bacterial vaccine
bacterial wilt
bacterio-
bacterio-opsonic
bacterio-opsonin
bacteriological warfare
baculo-metry
bad actor
bad behavior
bad blood
bad books
bad boy
bad break
bad breath
bad case
bad cess
bad character
bad check
bad child
bad condition
bad conduct discharge
bad copy
bad debt
bad debts
bad deed
bad dream
bad ear
bad egg
bad example
bad eyesight
bad fairy
bad faith
bad feeling
bad for
bad fortune
bad graces
bad grammar
bad guy
bad habit
bad hand
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
badger bird
badger dog
badger game
badger plane
badger skunk
badger-legged
badging hook
badly off
badminton court
badminton cup
bae-
baeberry bark
baffle board
baffle description
baffle gate
baffle painting
baffle plate
baffling problem
baffling wind
bag and baggage
bag bearer
bag beater
bag boom
bag bundler
bag cap
bag clasp
bag cleaner
bag cutter
bag dryer
bag feeder
bag filler
bag fitter
bag folder
bag fox
bag frame
bag framer
bag holder
bag house
bag loader
bag machinist
bag maker
bag marker
bag mender
bag net
bag of bones
bag of tricks
bag of wind
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stuffer
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
baggage wagon
baggage-smasher
bags I
bagworm moths
baib grass
bail bond
bail out
bail up
bail you out
bail-dock
bail-out
bailer shell
bailey bridge
bain-marie
bains-marie
bait and switch
bait bug
bait casting
bait set
bait the hook
baited trap
bake cart
bake kettle
bake sale
bake-meat
bake-off
baked Alaska
baked beans
baked goods
baked meat
baked sheep's head
baked-apple
baken by surprise
baker bird
baker sheet
baker's cheese
baker's dozen
baker's legs
baker-knee
baker-kneed
baker-leg
baker-legged
bakers' yeast
bakery moth
bakery proofer
baking powder
baking soda
bal costume
bal masque
balaclava helmet
balance accounts
balance adjuster
balance arm
balance beam
balance bob
balance bridge
balance clerk
balance cock
balance coil
balance crane
balance dock
balance electrometer
balance fish
balance frame
balance gate
balance in hand
balance income with outgo
balance level
balance link
balance lug
balance maker
balance of nature
balance of payments
balance of power
balance of precision
balance of trade
balance pin
balance piston
balance pit
balance plane
balance rail
balance reef
balance ring
balance rope
balance rudder
balance rynd
balance screw
balance sheet
balance spring
balance staff
balance step
balance the books
balance valve
balance watch
balance weight
balance wheel
balanced diet
balanced fund
balanced line
balanced personality
balanced rudder
balanced sentence
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
bale buckle
bale conveyor
bale feeder
bale goods
bale hook
bale jumper
bale marker
bale opener
bale out
bale stick
bale stitcher
bale strap
bale tie
bale tier
bale-fire
baleen whale
baling machine
balk at
balk day
balk line
balk-line game
balky horse
ball and chain
ball and ring
ball bearing
ball boy
ball breaker
ball cactus
ball cartridge
ball caster
ball clay
ball club
ball cock
ball fern
ball foot
ball game
ball gentle
ball grinder
ball gudgeon
ball handle
ball indicator
ball ironstone
ball joint
ball lever
ball lightning
ball mill
ball moss
ball mustard
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball scater
ball smut
ball snake
ball stitch
ball tap
ball the jack
ball thistle
ball top
ball turret
ball up
ball valve
ball-and-claw foot
ball-and-socket joint
ball-bearing
ball-carrier
ball-flower
ball-hooter
ball-jasper
ball-park
ball-peen hammer
ball-planting
ball-point
ball-point pen
ball-shaped
ball-thrombus
ball-turret gun
ballad horn
ballad maker
ballad making
ballad measure
ballad meter
ballad metre
ballad opera
ballad poetry
ballad reciter
ballad rhyme
ballad singer
ballad singing
ballad stanza
ballad style
ballad writer
ballast brakesman
ballast car
ballast cleaner
ballast crusher
ballast engine
ballast fin
ballast ganger
ballast heaver
ballast hole
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballet slippers
ballet suite
ballets blancs
balli buntl
ballibuntl hat
balling furnace
balling gun
balling head
balling iron
ballistic camera
ballistic capsule
ballistic galvanometer
ballistic missile
ballistic pendulum
ballistic trajectory
ballistic wind
ballon d'essai
ballon-sonde
ballonet ceiling
ballons d'essai
balloon ball
balloon barrage
balloon bed
balloon chuck
balloon clock
balloon cloth
balloon fabric
balloon feather
balloon foresail
balloon frame
balloon framing
balloon in
balloon jib
balloon sail
balloon seat
balloon sickness
balloon sleeve
balloon tire
balloon trainshed
balloon tyre
balloon vine
balloon-berries
balloon-berry
ballooning in
ballooning spider
ballot box
ballot paper
ballot-box stuffer
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
balto-slavic
baluster column
baluster measure
baluster shaft
baluster stem
bambara butter
bamboo brier
bamboo curtain
bamboo fern
bamboo fish
bamboo grass
bamboo money
bamboo oyster
bamboo palm
bamboo partridge
bamboo rat
bamboo reed
bamboo screen
bamboo shade
bamboo shoot
bamboo shoots
bamboo sugar
bamboo turning
bamboo vine
bamboo ware
bambui butter
bambuk butter
banana bean
banana belt
banana bird
banana boa
banana eater
banana family
banana fish
banana flour
banana fly
banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
band bracelet
band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
band plant
band pulley
band resaw
band saw
band screen
band shell
band spectrum
band steel
band theory of solids
band together
band wagon
band wheel
band-aid
band-gala
band-pass filter
band-saw file
band-sawing
band-sawyer
band-shaped
band-tailed
band-tailed pigeon
bandage compress
bandar-log
banded anteater
bank auditor
bank balance
bank barn
bank beaver
bank bill
bank bird
bank book
bank boss
bank brakesman
bank call
bank card
bank cashier
bank charter
bank check
bank claim
bank clearings
bank clerk
bank cod
bank court
bank credit
bank cress
bank deposit
bank deposit insurance
bank discount
bank draft
bank engine
bank examiner
bank fish
bank fisher
bank fisheries
bank footman
bank foreman
bank gravel
bank guaranty
bank guard
bank head
bank heading
bank holiday
bank indicator
bank inspector
bank jug
bank laborer
bank ledger
bank letter
bank loan
bank manager
bank martin
bank messenger
banns of matrimony
banquet of the soul
banquette slope
banquette tread
banyan day
banyan tree
banzai attack
banzai charge
baptism for the dead
baptism in the spirit
baptism of fire
baptismal dress
baptismal font
baptismal gown
baptismal name
baptismal regeneration
baptismal robe
bar beat
bar bell
bar billiards
bar bit
bar cent
bar chart
bar chuck
bar code
bar discharger
bar fee
bar fly
bar foot
bar gemel
bar girl
bar gown
bar graph
bar iron
bar joist
bar keel
bar line
bar magnet
bar mitzvah
bar mizvah
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
bar-
bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
barber bug
barber chair
barber college
barber pole
barber's basin
barber's chair
barber's itch
barber's pole
barber's shop
barber-bug fever
barber-surgeon
barberry family
barberry fig
barberry rust
barbershop chords
barbershop harmony
barbette carriage
barbette gun
barbital sodium
barbiturate addiction
barbiturate pill
barbituric acid
bare as the back of your hand
bare cupboard
bare fact
bare fallow
bare flesh
bare minimum
bare necessities
bare of
bare pole
bare possibility
bare skin
bare subsistence
bare sufficiency
bare suggestion
bare your fangs
bare-ankled
bare-armed
bare-ass
bare-assed
bare-backed
bare-bitten
bare-boned
bare-bosomed
bare-branched
bare-breasted
bare-chested
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
barge boom
barge canal
barge couple
barge course
barge in
barge into
barge rig
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
bark-bared
bark-cutting
bark-formed
bark-galled
bark-galling
bark-grinding
bark-shredding
bark-tanned
barkhausen effect
barking bill
barking deer
barking drum
barking frog
barking iron
barley broth
barley cake
barley candy
barley carrier
barley cleaner
barley clipper
barley coal
barley crusher
barley flour
barley fork
barley grass
barley mill
barley reel
barley scald
barley scourer
barley smut
barley straw
barley stripe
barley sugar
barley water
barley wine
barley-break
barley-bree
barley-broo
barley-cap
barley-clipping
barley-corn
barley-fed
barley-grinding
barley-hood
barley-hulling
barley-sugar
barn cake
barny beer
barn boards
barn dance
barn door
barn door skate
barn fowl
barn gallon
barn grass
barn gun
barn lantern
barn owl
barn raising
barn sash
barn swallow
barn-brack
barn-door
barn-door fowl
barn-door hanger
barn-door roller
barn-door skate
barn-door stay
barn-raising
barnacle goose
barnacle grass
barnacle scale
barnacle-back
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
barometer gauge
barometer paper
barometric error
barometric gradient
barometric pressure
barometric switch
barometric wind rose
baron bailie
baron court
baron et femme
baron of beef
baroque formalism
baroque formalist
baroque organ
barrack emperors
barrack roof
barracks bag
barracks lawyer
barrage balloon
barrage receiver
barrage reception
barrage rocket
barred owl
barred spiral
barred spiral galaxy
barred spiral nebula
barrel amalgamation
barrel arch
barrel bolt
barrel bulk
barrel cactus
barrel chair
barrel chest
barrel contractor
barrel copper
barrel cuff
barrel distortion
barrel drain
barrel driver
barrel engine
barrel fish
barrel gentian
barrel header
barrel helm
barrel hoop
barrel house
barrel knot
barrel maker
barrel of money
barrel organ
barrel packer
barrel palm
barrel pen
barrel pier
barrel process
barrel quartz
barrel repairer
barrel roll
barrel roof
barrel saw
barrel scale
barrel sewer
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrer-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
barrow boy
barrow tram
barrow truck
barrow-boy
barrow-man
barrow-men
barry-bendy
barry-nebuly
barry-pily
barry-wavy
bars gemels
barter economy
barter unit
barycentric coordinate system
baryon number
baryta feldspar
baryta paper
baryta water
baryta white
baryta yellow
baryto-
bas bleu
bas bleus
bas mitzvah
bas-fond
bas-relief
basal anaesthesia
basal body
basal conglomerate
basal ganglia
basal ganglion
basal metabolic rate
basal metabolism
basal ridge
basal-cell carcinoma
basal-nerved
basalt glass
basalt quarrier
basalt-porphry
bascine case
bascule bridge
bascule escapement
base angle
base animals
base bend
base block
base box
base broom
base bullion
base burner
base camp
base cinnamon
base circle
base clef
base coin
base component
base course
base current
base depot
base estate
base exchange
base fee
base fuse
base hit
base horehound
base hospital
base knob
base level
base line
base load
base map
base metal
base metals
base net
base of operations
base oil
base on
base on balls
base pay
base period
base piece
base plate
base plug
base point
base price
base rate
base resistance
base right
base ring
base rocker
base rocket
base runner
base running
base salary
base signal current
base signal voltage
base speed
base stone
base tenant
base tree
base vervain
base wage
base wallah
base-ball
base-begged
base-begot
base-born
base-burner
base-court
base-forming
base-level plain
base-mettled
base-minded
base-mindedly
base-mindedness
base-souled
base-spirited
base-spiritedness
base-witted
baseball bat
baseball cap
baseball field
baseball glove
baseball mitt
baseball rounders
baseball season
based on
basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
bashi-bazouk
bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
basic dichromate
basic dress
basic dye
basic education
basket cloth
basket couching
basket elm
basket fern
basket fish
basket flower
basket grass
basket hare
basket hilt
basket hoop
basket maker
basket mast
basket oak
basket osier
basket palm
basket plant
basket salt
basket star
basket stitch
basket tree
basket weave
basket willow
basket withe
basket-ball
basket-bearing
basket-handle arch
basket-hilted
basket-of-gold
basket-star
basketball court
basketball season
basking shark
bass broom
bass bug
bass clef
bass deafness
bass drum
bass fiber
bass fiddle
bass flute
bass fly
bass guitar
bass hogfish
bass horn
bass killy
bass oboe
bass passage
bass player
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-wood
basse danse
basse-taille
basses danses
basset griffon
basset horn
basset hound
basset oboe
basset table
basset-horn
bassi cantanti
bassi profundi
bassi-rilievi
basso buffo
basso cantante
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
basso-relievo
basso-relievos
basso-rilievo
bassra locust
bast cell
bast fiber
bast palm
bast parenchyma
bast ray
bast tree
bast vessel
bastard acacia
bastard agrimony
bastard alkanet
bastard aloe
bastard amber
bastard apple
bastard ash
bastard ashlar
bastard asphodel
bastard baldmoney
bastard balm
bastard bar
bastard blue gum
bastard box
bastard bryony
bastard bullet tree
bastard canna
bastard cedar
bastard cherry
bastard chestnut
bastard chickweed
bastard child
bastard chinaroot
bastard cinnamon
bastard clover
bastard cork tree
bastard cress
bastard culverin
bastard cusk
bastard daisy
bastard dittany
bastard dogwood
bastard dory
bastard eigne
bastard elder
bastard elm
bastard fallow
bastard feverfew
bastard fig
bastard file
bastard gemsbok
bastard gentian
bastard gidgee
bastard goosefoot
bastard grain
bastard granite
bastard gromwell
bastard gunter
bastard halibut
bastard hartebeest
bastard hawkweed
bastard hellbore
bastard hemp
bastard horehound
bastard hyssop
bastard indigo
bastard ipecac
bastard ironwood
bastard jarrah
bastard jasmine
bastard jute
bastard lignum vitae
bastard locust
bastard locust tree
bastard lupine
bastard mahogany
bastard manchineel
bastard margaret
bastard marjoram
bastard measles
bastard mouse-ear
bastard myall
bastard nettle
bastard nightshade
bastard olive
bastard parsley
bastard pellitory
bastard pennyroyal
bastard pimpernel
bastard pine
bastard plantain
bastard plover
bastard pointing
bastard quartz
bastard quince
bastard rhubarb
bastard rocket
bastard rosewood
bastard saffron
bastard sago palm
bastard sandalwood
bastard schooner
bastard sea grape
bastard senna
bastard sensitive plant
bastard service tree
bastard snapper
bastard speedwell
bastard spikenard
bastard spruce
bastard strangles
bastard sugar
bastard sycamore
bastard tamarind
bastard teak
bastard thread
bastard title
bastard toadflax
bastard tree
bastard trefoil
bastard trout
bastard trumpeter
bastard tuck pointing
bastard turtle
bastard type
bastard vervain
bastard vetchling
bastard weakfish
bastard windflower
bastard wing
bastard wormwood
bastard yellowlegs
bastard yellowwood
bastard-cut
bastard-saw
bastard-sawed
bastard-sawing
bastard-sawn
bastel house
bastel-house
bastille day
bastille house
bastle house
bat about
bat around
bat bolt
bat bomb
bat boy
bat dance
bat ear
bat in
bat mitzvah
bat money
bat of an eye
bat out
bat out of hell
bat printing
bat ray
bat stingray
bat the breeze
bathing place
bathing sandal
bathing shoe
bathing suit
bathing trunks
bathing-machine
batho-
bathroom tissue
bathtub gin
bathy-
bathyal zone
batiator root
batracho-
bats in one's belfry
bats in the belfry
bats-in-the-belfry
batswing burner
batswing coral
battalia pie
batten door
batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
batten upon
batter board
batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
battered baby
battered child syndrome
battering ram
battering train
battering-ram
battery acid
battery cable
battery case
battery cell
battery charger
battery chart
battery eliminator
battery jar
battery lamp
battery maker
battery mud
battery radio
battery supply voltage
battery tester
battery wagon
battery water
battery-charging
battery-powered
battery-testing
batting average
batting block
batting eye
batting hammer
batting order
battle array
battle brand
battle call
battle clasp
battle club
battle cruiser
battle cry
battle din
battle fatigue
battle flag
battle fleet
battle front
battle gaff
battle game
battle group
battle horn
battle hymn
battle it out
battle jacket
battle lantern
battle line
battle piece
battle place
battle plane
battle police
battle position
battle quoit
battle range
battle royal
battle shield
battle shout
battlesight
battle site
battle smoke
battle song
battle star
battle station
battle twig
battle wagon
battle word
battle-ax
battle-axe
battle-fallen
battle-scarred
battle-slain
battle-spent
battle-writhen
battered embattled
battledore and shuttlecock
battleship gray
batule board
batwing burner
batwing chair
batwing sleeve
baulk line
baum marten
bauple nut
bauson-faced
bawdy house
bawl out
bawling-out
bawsay fern
bay antler
bay at the moon
bay bar
bay bean
bay bird
bay camphor
bay cat
bay cedar
bay coot
bay floe
bay goose
bay grass
bay holly
bay hops
bay ice
bay lambs
bay laurel
bay lavender
bay leaf
bay lynx
bay mackerel
bay mahogany
bay mare
bay myrtle
bay oak
bay oil
bay plum
bay point
bay poplar
bay rum
bay rum tree
bay salt
bay snipe
bay stall
bay stater
bay stone
bay tree
bay willow
bay winders
bay window
bay yarn
bay-bay
bay-breasted
bay-cedar family
bay-colored
bay-head bar
bay-leaf willow
bay-rum willow
bay-salt
bay-top palmetto
bay-window
bay-winged
bayacura root
bayamo winds
bayberry bark
bayberry candle
bayberry family
bayberry oil
bayberry wax
bayeux tapestry
bayonet base
bayonet clasp
bayonet joint
bayonet leg
bayonet legs
bayonet plant
bayonet socket
bayou bass
bayou lake
bazooka rocket
bc soil
bcg vaccine
bchamel sauce
bd ft
be Greek to
be OK
be a bargain
be a bear for
be a cold fish
be a coward
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sideliner
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be borning
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative
be considerate
be consistent
be conspicuous
be constituted by
be construed as
be consumed
be consumed with desire
be contained in
be contemptuous of
be content
be content with
be contiguous
be contingent
be contingent on
be continuous
be contrary to
be conversant with
be converted
be converted into
be convicted
be convinced
be convincing
be convulsed with laughter
be correct
be courteous
be covetous of
be credulous
be crestfallen
be crowned with success
be cruel to be kind
be crushed
be curious
be damaged
be damned
be damp
be dark
be dated
be dead
be dead and gone
be deaf
be death on
be deceived
be defeated
be demonstrable
be dependent on
be deserving
be desirous of
be despaired of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
be determined
be diagnostic of
be difficult
be diffident
be dilatory
be disagreeable
be disappointed
be disappointing
be discovered
be discriminating
be disenCHANTED
be disgraced
be dishonest
be disillusioned
be disorderly
be disposed to
be disrespectful
be dissonant
be distant
be distasteful
be distinct
be distinguished
be doing
be done for
be doomed
be doubly punished
be doubtful
be down on
be downbeat
be dressed in
be driven
be driven into a corner
be drunk
be dry
be dubious
be due
be due to
be dumb with grief
be dying for
be dying to
be eager
be eager about
be earless
be earlier
be early
be easy
be easy in your mind about
be easy of belief
be easy of persuasion
be easy on
be easy to recall
be easy with
be eaten away
be eating someone
be effective
be effortless
be elastic
be eloquent
be embarrassed
be employed
be employed in
be energetic
be enfeoffed of
be enfranchised
be engaged
be engaged in
be engrossed in
be enthusiastic
be entitled to
be envious of
be equal to
be eradicated
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incommunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be instated
be instrumental
be insufficient
be intelligent
be intelligible
be intemperate
be intimate
be into
be intoxicated
be invisible
be involved
be irrefutable
be irreligious
be irresolute
be it so
be jealous
be jealous of your good name
be jealous of your repute
be jobber for
be joined
be judged
be judgmental
be judicious
be just
be just like one
be just like you
be just right
be just the thing
be just the ticket
be just what the doctor ordered
be keen
be kept waiting
be killed
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be possessive
be possible
be practical
be precise
be predicated on
be predisposed
be pregnant
be prejudiced
be preoccupied
be prepared
be present
be present at
be present in
be printed
be prior
be probable
be prodigal with
be productive
be profitable
be prolonged
be prominent
be promiscuous
be promising
be proof against
be prosperous
be proud
be proud of
be proved
be pungent
be punished
be pushed to the wall
be put out of countenance
be put out to pasture
be put to the blush
be put to your wit's end
be putty in the hands of
be qualified
be quiet
be quits
be quits with
be rash
be ravenous
be ready
be ready and waiting
be ready for
be realized
be reasonable
be received
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be strapped
be stricken
be stricken by
be strict
be striken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be uninteresting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unprepared
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsocial
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
beach apple
beach aster
beach bag
beach ball
beach bird
beach boat
beach buggy
beach bum
beach clam
beach crab
beach cusp
beach drifting
beach flea
beach goldenrod
beach grass
beach heather
beach pea
beach plant
beach plover
beach plum
beach ridge
beach robin
beach strawberry
beach tan
beach umbrella
beach wagon
beach wormwood
beach-la-mar
beach-sap
beaching gear
beacon boat
beacon fire
beacon lights
beacon station
bead and reel
bead edging
bead furnace
bead lightning
bead molding
bead plane
bead plant
bead slick
bead snake
bead tree
bead-eyed
bead-hook
bead-like
bead-roll
bead-rubies
bead-ruby
bead-shaped
beaded brow
beaded lizard
beaded with sweat
beaded-edge
beading plane
beading tool
beads of sweat
beady-eyed
beak flute
beak molding
beak rush
beak sedge
beak wattles
beak willow
beak-bearing
beak-head
beak-iron
beak-like
beak-nosed
beak-shaped
beaked salmon
beaked whale
beaker culture
beaker folk
beakhorn stake
beaking joint
beam aerial
beam anchor
beam antenna
beam arm
beam board
beam brick
beam bridge
beam caliper
beam center
beam clamp
beam compass
beam engine
beam fill
beam filling
beam hole
beam knee
beam knife
beam light
beam maker
beam mill
beam net
beam of light
beam plate
beam pump
beam reach
beam riding
beam roll
beam sea
beam tetrode
beam texture
beam transmission
beam trawl
beam trawler
beam trawling
beam tree
beam well
beam wind
beam-bending
beam-end
beam-ends
beam-power tube
beam-straightening
beam-switching tube
beam-tree
beaming knife
beaming machine
bean anthracnose
bean aphid
bean aphis
bean ball
bean beetle
bean blight
bean blower
bean cake
bean caper
bean clover
bean crake
bean curd
bean cutworm
bean dolphin
bean flour
bean goose
bean harvester
bean hole
bean honey
bean house
bean king
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean thresher
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeiters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-foots
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darnel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
bearer bond
bearer certificate
bearer of glad tidings
bearer plate
bearer security
bearer-off
bearing arms
bearing arrow
bearing bar
bearing block
bearing bow
bearing brass
bearing bronze
bearing cloth
bearing door
bearing gear
bearing in mind
bearing metal
bearing neck
bearing note
bearing out
bearing pile
bearing plate
bearing rail
bearing rein
bearing ring
bearing robe
bearing steel
bearing sword
bearing timber
bearing wall
bearish market
bearish prices
bearnaise sauce
bearskin gray
bearskin jobber
bearskin rug
beast epic
beast fable
beast fly
beast god
beast of burden
beast of prey
beast tale
beasts of field
beasts of prey
beasts of venery
beat a dead horse
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beauty sleep
beauty spot
beauty treatment
beauty unadorned
beauty wash
beauty-beaming
beauty-berry
beauty-blind
beauty-blooming
beauty-blushing
beauty-breathing
beauty-bright
beauty-bush
beauty-clad
beauty-fruit
beauty-loving
beauty-parlor chitchat
beauty-proof
beauty-waning
beaux arts
beaux esprits
beaux gestes
beaux ideal
beaux yeux
beaux-arts
beaux-esprits
beaver board
beaver brown
beaver cloth
beaver dam
beaver eater
beaver finish
beaver lily
beaver poison
beaver rat
beaver stones
beaver top
beaver tree
beaver-tree
beavertail beam
beavertail reflector
beazor nuts
bec et ongles
because of
because of that
because of this
bechamel sauce
beche-de-mer
beche-le-mar
beck and call
becket bend
becket knot
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
become fixed
become higher
become informed
become insolvent
become known
become larger
become lost to sight
become manifest
bedspring type
bedstead fitter
bedstead wrench
bedstraw bellflower
bedtime prayer
bedtime story
bee balm
bee beetle
bee bird
bee block
bee brush
bee candy
bee cellar
bee culture
bee eater
bee escape
bee feed
bee fly
bee glue
bee gum
bee hawk
bee in the bonnet
bee in the head
bee in your bonnet
bee killer
bee kite
bee larkspur
bee laurel
bee louse
bee martin
bee milk
bee moth
bee nettle
bee orchid
bee orchis
bee plant
bee sage
bee scap
bee smoker
bee space
bee tree
bee wine
bee wolf
bee's knees
bee-butt
bee-eater
bee-headed
bee-loud
beech agaric
beech cherry
beech coal
beech family
beech fern
beech leaf snake
beech marten
beech mast
beech oil
beech tree
beech wheat
beech-green
beech-seedling mildew
beechnut oil
beechwood creosote
beef Bourguignon
beef Bourguignonne
beef Wellington
beef apple
beef bouillon
beef bread
beef cattle
beef dodger
beef extract
beef ham
beef juice
beef marrow
beef road
beef stearin
beef stroganoff
beef tallow
beef tea
beef up
beef's blood
beef-brained
beef-eating
beef-faced
beef-steak
beef-suet tree
beef-witted
beef-wittedly
beef-wittedness
beef-wood
beefed-up
beefing-up
beefsteak begonia
beefsteak fungus
beefsteak geranium
beefsteak plant
beefsteak saxifrage
beefwood family
beehive coke
beehive house
beehive kiln
beehive oven
beehive shelf
beehive tomb
beehive-shaped
beena marriage
beer and skittles
beer barrel
beer bottle
beer bottler
beer brewer
beer cellar
beer chiller
beer drinker
beer engine
beer fall
beer gallon
beer garden
beer glass
beer grains
beer hall
beer heart
beer keg
beer maker
beer money
beer mug
beer parlor
beer pump
beer scale
beer stone
beer vat
beer vinegar
beer yeast
beer-up
bees and honey
bees-wax
beeswax flint
beet army worm
beet blight
beet blocker
beet greens
beet harvester
beet heart rot
beet leafhopper
beet lifter
beet puller
beet root
beet rot
beet scab
beet sugar
beet webworm
beet-red
beetle brow
beetle over
beetle-browed
beetle-crusher
beetle-green
beetle-headed
beetling machine
befit the occasion
befit the season
befit the time
before Christ
before all
before an audience
before everything
before its time
before long
before noon
before now
before one
before the Christian Era
before the Common Era
before the Fall
before the Flood
before the bar
before the bench
before the court
before the fact
before the footlights
before the house
before the judge
before the mast
before the war
before the wind
before your eyes
before your face
before your time
before your very eyes
before-cited
before-created
before-delivered
before-going
before-known
before-mentioned
before-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before-warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-louse
beggar's-tick
beggar's-ticks
beggar-lice
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beggar-ticks
beggarly fellow
begging hermit
begging hermits
begging the question
begin again
begin to
beginner's luck
beginning and end
beginning of the end
begonia family
begonia rose
beguile of
beguile out of
beguile the time
behave ill
behave self-destructively
behave toward
behave yourself
behavior modification
behavior pattern
behavior psychology
behavior therapist
behavior therapy
behavioral norm
behavioral science
behaviorial scientist
behavioristic psychology
behaviour therapy
behavioural science
behen oil
behenic acid
behenolic acid
behind bars
behind closed doors
behind the curtain
behind the eight ball
behind the eightball
behind the scenes
behind the times
behind the veil
behind the veil of secrecy
behind time
behind your back
behind your defenses
behind-the-scenes influence
behind-the-scenes operator
behind-the-scenes pressure
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accoi
bel-esprit
belay that
belay there
belaying cleat
belaying pin
belgian hare
belie-ve
believe anything
believe at the drop of a hat
believe in
believe without reservation
belittle yourself
bell animalcule
bell arch
bell beaker
bell book
bell borer
bell buoy
bell button
bell cage
bell canopy
bell captain
bell caster
bell casting
bell chasuble
bell chime
bell chuck
bell cord
bell cot
bell cote
bell cow
bell crank
bell crater
bell deck
bell founder
bell founding
bell frog
bell gable
bell gamba
bell glass
bell harp
bell heather
bell horse
bell jar
bell kite
bell ling
bell loft
bell magpie
bell maker
bell mare
bell metal
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-band
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
banded kingfisher
banded knight
banded radial tire
banded sandfish
beler-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
bench-legged
bench-made
bench-mark
bench-warmer
bencing iron
bend an ear
bend an ear to
bend attention to
bend back
bend dexter
bend leather
bend might and main
bend over
bend over backward
bend over backwards
bend pipe
bend sinister
bend the elbow
bend the eyes
bend the head
bend the knee
bend the knee to
bend the mind
bend the mind to
bend the mind upon
bend the neck
bend the thoughts to
bend the truth
bend to
bend to your will
bend to your yoke
bend your course
bend your ear
bend your effort
bend your steps
bend your steps for
bend your steps to
bending moment
bending press
bending punch
bending shackle
bending the knee
bending works
bends, the
bendy tree
bendy-wavy
bene vale
beneath contempt
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
benzoic acid
benzoic aldehyde
benzoic sulphinate
benzol distiller
benzol extractor
benzoyl acetyl peroxide
benzoyl chloride
benzoyl green
benzoyl group
benzoyl hydride
benzoyl peroxide
benzoyl radical
benzyl acetate
benzyl alcohol
benzyl benzoate
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
berg crystal
berg ice
berg till
berg wind
bergamot camphor
bergamot mint
bergamot oil
bergamot orange
beta-eucaine
beta-glucose
beta-indoleacetic acid
beta-naphthol
beta-naphthyl
beta-naphthyl benzoate
beta-naphthyl group
beta-naphthyl radical
beta-naphthyl salicylate
beta-naphthylamine
beta-orcin
beta-orcinol
beta-ray spectrograph
beta-ray spectrometer
betake yourself
betake yourself to
bete noire
betel nut
betel palm
betel pepper
betel phenol
bethink yourself
bethink yourself of
betray a confidence
betray itself
betray yourself
betrayed hope
better days
better for
better half
better off
better part
better self
better sort
better than nothing
better thoughts
better world
better yourself
better-advised
better-affected
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bhut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicuspide valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bicyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-hearted
big-hoofed
big-jawed
big-laden
big-leaf ivy
big-leaf laurel
big-leaf maple
big-league
big-leaguer
big-leaved
big-leaved magnolia
big-looking
big-mouthed
big-name
big-nosed
big-note
big-rich
big-souled
big-sounding
big-swollen
big-ticket
big-time
big-time operator
big-time spender
big-timer
big-voiced
big-waisted
big-eye scad
bigger half
biggest frog in the pond
bighorn sheep
biglip sucker
bigmouth buffalofish
bihar tree
bilk tooling
bilateral symmetry
bile acid
bile cyst
bile duct
bile pigment
bile salt
bile vessel
bilge block
bilge board
bilge coad
bilge keel
bilge keelson
bilge log
bilge piece
bilge pump
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
bilingual edition
bilingual text
bilious cholera
bill and coo
bill book
bill broker
bill case
bill clerk
bill collector
bill discounter
bill discounting
bill file
bill of account
bill of adventure
bill of attainder
bill of complaint
bill of draft
bill of entry
bill of exchange
bill of fare
bill of goods
bill of health
bill of indictment
bill of lading
bill of mortality
bill of particulars
bill of rights
bill of sale
bill-and-cooers
bill-broker
bill-hook
bill-like
bill-patched
bill-shaped
billet at
billet boy
billet breaker
billet car
billet chipper
billet cutter
billet heater
billet man
billet piler
billet rolls
billet wheeler
billet worker
billet-doux
billets-doux
billiard ball
billiard cloth
billiard cue
billiard green
billiard match
billiard parlor
billiard player
billiard room
billiard table
billing and cooing
billing machine
billion-dollar grass
billow cloud
billowy cloud
billy check
billy club
billy fairplay
billy gar
billy gate
billy goat
billy owl
billy playfair
billy tea
billy-button
billy-goat
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bind day
bind off
bind over
bind rail
bind up
bind yourself to
bind-days
binder board
binder course
binder pulley
binder twine
binder's board
binder's cloth
binder's title
bindi-eye
binding agreement
binding arbitration
binding course
binding edge
binding energy
binding off
binding over
binding post
binding rafter
binding receipt
binding screw
binding stone
binding strake
binding tape
binding twine
bindle stiff
bindweed nightshade
binet-simon scale
binnacle list
binocular fusion
binocular microscope
binodal quartic
binomial coefficient
binomial distribution
binomial name
binomial nomenclature
binomial series
binomial theorem
bio-
bio-aeration
bio-assay
bio-economic
bio-electric
bio-electrogenesis
bio-energetics
bio-osmosis
bio-osmotic
biochemical oxygen demand
biographical dictionary
biographical material
biographical records
biographical sketch
biological adaptive reactions
biological classification
biological clock
biological control
biological death
biological diagnosis
biological evolution
biological method
biological oxygen demand
biological product
biological science
biological sociology
biological species
biological stain
biological supplies
biological taxonomy
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird life
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird's-nest soup
bird-batting
bird-brained
bird-cage
bird-dog
bird-dogged
bird-dogging
bird-egg pea
bird-eyed
bird-faced
bird-fingered
bird-foot
bird-foots
bird-in-the-bush
bird-lime
bird-nest
bird-nesting
bird-of-paradise bush
bird-of-paradise flower
bird-ridden
bird-voiced tree frog
bird-watch
bird-watcher
bird-witted
bircage clock
birding piece
birds of a feather
birds-in-the-bush
birdseed grass
birdseed rape
birth canal
birth certificate
birth control
birth control device
birth control pill
birth controller
birth date
birth defect
birth flower
birth gift
birth hour
birth month
birth name
birth pain
birth palsy
birth pang
birth pangs
birth phantasy
birth rate
birth sin
birth theory
birth throe
birth throes
birth trauma
birth year
birth-control pill
birthday cake
birthday gift
birthday present
birthday suit
birthwort family
bis-
  biscuit bag
biscuit baker
biscuit baking
biscuit beetle
biscuit box
biscuit china
biscuit clay
biscuit cutter
biscuit drawer
biscuit fire
biscuit fireman
biscuit firing
biscuit kilnman
biscuit leaves
biscuit oven
biscuit painter
biscuit pan
biscuit plant
biscuit porcelain
biscuit pottery
biscuit tortoni
biscuit ware
biscuit warehouse
biscuit weevil
biscuit worm
biscuit-brained
biscuit-colored
biscuit-fired
biscuit-shaped
bisecting compass
bisecting dividers
bishop bird
bishop coadjutor
bishop cotton
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
bitter-ender
bitter-enderism
bitter-endism
bitter-orange oil
bitter-rinded
bitter-sweet
bitter-sweeting
bitter-tasting
bitter-tongued
bitterly cold
bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
black bass
black bead
black bean
black bear
black beast
black beetle
black belt
black bent
black bile
black bindweed
black blizzard
black board
black body
black book
black bottom
black box
black brant
black bread
black bryony
black buck
black buffalo
black buran
black butter
black calla
black cap
black carpet beetle
black cat
black chaff
black cherry
black chokeberry
black clouds
black cod
black cohosh
black comedy
black copper
black cosmos
black crappie
black currant
black death
black despondency
black diamond
black diamonds
black disease
black dog
black drop
black duck
black durgon
black earth
black eye
black face
black face Highland
black fever
black fish
black flag
black flux
black fly
black fog
black foot
black fox
black friar
black frost
black game
black gang
black ghetto
black gnat
black gold
black gown
black gram
black grouse
black guillemot
black gum
black hand
black haw
black heat
black hellebore
black henbane
black hole
black horehound
black huckleberry
black humor
black ice
black ink
black ivory
black jack
black kite
black knot
black lead
black letter
black light
black liquor
black list
black locust
black look
black looks
black lung
black magic
black mail
black man
black maple
black margate
black maria
black mark
black mark to
black market
black marketeer
black marketer
black marten
black mass
black measles
black medic
black medick
black mercuric sulfide
black mold
black molly
black monday
black monk
black moor
black mould
black mulberry
black mustard
black nickel oxide
black nightshade
black nob
black oak
black opal
black or white
black out
black paternoster
black pepper
black perch
black pewter
black pit
black plague
black poplar
black powder
black power
black prince
black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black sand
black sap
black scoter
black sea bass
black selenium
black shank
black sheep
black skimmer
black snake
black snakeroot
black soap
black spot
black spruce
black squall
black squirrel
black stem
black stick
black storm
black studies
black stuff
black stump
black sucker
black supremacy
black swallowtail
black swan
black tea
black tie
black titi
black tracker
black treacle
black turnstone
black velvet
black vomit
black vote  
black vulture  
black walnut  
black wash  
black wattle  
black whale  
black widow  
black widow spider  
black witch  
black-a-vised  
black-a-vised  
black-and-blue  
black-and-blue mark  
black-and-tan  
black-and-tan terrier  
black-and-white  
black-and-white film  
black-and-white photograph  
black-and-white television  
black-aproned  
black-back flounder  
black-backed  
black-backed gull  
black-ball  
black-banded  
black-bark pine  
black-bearded  
black-bellied  
black-bellied plover  
black-belt  
black-berried  
black-billed  
black-billed cuckoo  
black-billed magpie  
black-blooded  
black-blue  
black-bodied  
black-boding  
black-bordered  
black-boughed  
black-breasted  
black-browed  
black-brown  
black-bulb thermometer  
black-bundle disease  
black-capped  
black-capped chickadee
black-chinned
black-clad
black-coat worker
black-coated
black-colored
black-cornered
black-crested
black-crowned
black-currant rust
black-eared
black-ears
black-edged
black-eye bean
black-eye sunfish
black-eyed
black-eyed Susan
black-eyed pea
black-eyed susan
black-faced
black-favored
black-feathered
black-figure
black-figured
black-fin snapper
black-footed
black-footed ferret
black-fruited
black-gowned
black-hafted
black-haired
black-head
black-headed
black-headed fireworm
black-headed gull
black-hearted
black-hilted
black-hole
black-hooded
black-hoofed
black-leg
black-legged
black-letter
black-letter day
black-lidded
black-lipped
black-locked
black-looking
black-maned
black-margined
black-market
black-marketeer
black-mouth
black-mouthed
black-neb
black-necked
black-necked stork
black-nosed
black-out
black-peopled
black-plumed
black-pot
black-red
black-robbed
black-rooted
black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
blackback flounder
blackbanded sunfish
blackbelly rosefish
blackberry bark
blackberry lily
blackberry token
blackberry wine
blackbird bindweed
blackboy gum
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blanket binder
blanket binding
blanket chest
blanket cloth
blanket deposit
blanket drill
blanket fish
blanket holder
blanket leaf
blanket maker
blanket mortgage
blanket moss
blanket policy
blanket rate
blanket roll
blanket scum
blanket sheet
blanket stiff
blanket stitch
blanket washer
blanket weaver
blanket weaving
blanket-flower
blanket-stitch
blankety blank
blankety-blank
blanking amplifier
blanking die
blanking press
blanking punch
blanking signal
blanquette de veau
blare abroad
blare forth
blarney stone
blast away
blast bloomery
blast engine
blast fan
blast freezing
blast furnace
blast lamp
blast neurosis
blast off
blast pipe
blast propulsion
blast roasting
blast the ear
blast wave
blast your hope
blast-
blast-borne
blast-freeze
blast-freezing
blast-frozen
blast-furnace
blast-off
blasted expectation
blasting cap
blasting cartridge
blasting circuit
blasting detonator
blasting fuse
blasting gelatin
blasting machine
blasting mat
blasting needle
blasting oil
blasting paper
blasting powder
blasting spoon
blasting tools
blasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bleed white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenko-
blennorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighted section
blighting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind staggers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
blinker light
blinker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
blister canopy
blister cone
blister copper
blister flower
blister fly
blister gas
blister mite
blister pearl
blister plant
blister plaster
blister rust
blister spot
blister steel
blithe-looking
blithering idiocy
blithering idiot
blitz can
blitzkrieg tactics
blo doper
bloat clover
bloat colic
bloat herring
bloated aristocrat
bloated plutocrat
bloated with pride
bloater whitefish
blobber lip
blobber-lipped
block and block
block and fall
block and falls
block and tackle
block anesthesia
block ball
block bond
block book
block booking
block brake
block capital
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood grouping
blood guilt
blood heat
blood horse
blood islands
blood knot
blood lily
blood lust
blood mare
blood meal
blood mole
blood money
blood orange
blood pheasant
blood picture
blood pink
blood plant
blood plasma
blood platelet
blood plum
blood poisoning
blood pressure
blood pudding
blood purge
blood rain
blood red
blood refiner
blood relation
blood relationship
blood relative
blood revenge
blood rite
blood royal
blood sacrifice
blood sausage
blood seller
blood serum
blood sister
blood spavin
blood sport
blood spot
blood strain
blood stream
blood substitute
blood sugar
blood test
blood ties
blood transfusion
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot

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blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavin
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloodless revolution
bloodless surgery
bloodwort family
bloody butchers
bloody flux
bloody hands
bloody mary
bloody mess
bloody murder
bloody noun
bloody shirt
bloody your hands with
bloody-back
bloody-bones
bloody-eyed
bloody-faced
bloody-handed
bloody-hearted
bloody-minded
bloody-mindedness
bloody-mouthed
bloody-nosed
bloody-red
bloody-sceptered
bloody-veined
bloom boy
bloom bud
bloom convayer
bloom cutter
bloom heater
bloom hook
bloom late
bloom loader
bloom mill
bloom oil
bloom poison
bloom runner
bloom saw
bloom shearer
bloom shears
bloom side
bloom slinger
bloom smithy
bloom swinger
bloom tongs
bloom yard
bloom-colored
bloom-fell
bloom-shearing
bloomer girl
bloomer pit
blooming mill
blooming oil
blooming rolls
bloomy-down
blossom blight
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blubber lamp
blubber oil
blubber ship
blubber spade
blubber stove
blubber-cheeked
blubber-fed
blue Andalusian
blue Johnnies
blue Monday
blue Orpington
blue alert
blue angel
blue asbestos
blue baby
blue bag
blue bed
blue bell
blue belt
blue bird
blue black
blue blazing star
blue blindness
blue blood
blue bloods
blue bonnet
blue book
blue bottle
blue buck
blue bull
blue butcher
blue cat
blue cheese
blue chip
blue chip stock
blue coat
blue cohosh
blue colors and pigments
blue comb
blue copperas
blue coral
blue crab
blue crane
blue curls
blue daisy
blue dandelion
blue darter
blue dawn-flower
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue-annealed
blue-aproned
blue-arc phenomenon
blue-backed
blue-banded
blue-bellied
blue-belt
blue-berried
blue-billed
blue-bird
blue-black
blue-blackness
blue-blind
blue-bloody
blue-blossom
blue-bloused
blue-bottle
blue-breasted
blue-breasted darter
blue-brick university
blue-cap
blue-checked
blue-checked
blue-chip
blue-coated
blue-collared
blue-collar worker
blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
blue-curls
blue-devilage
blue-devilism
blue-eared
blue-eye
blue-eyed
blue-eyed Mary
blue-eyed boy
blue-eyed grass
blue-eyed soul
blue-faced
blue-fish
blue-flowered
blue-footed
blue-fronted
blue-glancing
blue-glimmering
blue-graylue-gray gnatcatcher
blue-green
blue-green alga
blue-green algae
blue-green flame
blue-gum leaves
blue-haired
blue-headed
blue-headed vireo
blue-hearts
blue-hot
blue-john
blue-leaved
blue-lined
blue-mantled
blue-molded
blue-molding
blue-mottled
blue-mouthed
blue-nose
blue-nosed
blue-pencil
blue-penciled
blue-penciling
blue-pencilled
blue-pencilling
blue-rayed
blue-red
blue-ribbon
blue-ribbon jury
blue-ribbon panel
blue-ribboner
blue-ribbonism
blue-ribbonist
blue-roan
blue-rolled
blue-sailors
blue-sighted
blue-sky
blue-sky law
blue-slate
blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stockings
blue-striped
blue-tailed
blue-throated
blue-tinted
blue-tongued
blue-veined
blue-washed
blue-water
blue-water school
blue-wattled
blue-white
blue-winged
blue-winged teal
blue-yellow
blue-yellow blindness
blue-yellow-blind
blueback mullet
blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
bluff formation
bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunders round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
blunt-lobed
blunt-nosed
blunt-pointed
blunt-spoken
blunt-witted
blur circle
blur distinctions
blurred speech
blurred vision
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
board scale
board school
board side
board wages
board work
board worker
board-and-roomer
board-and-shingle
board-school
board-wages
boarder-up
boarding house
boarding nettings
boarding officer
boarding pike
boarding ramp
boarding school
boarding-out system
boards, the
boast of
boasting chisel
boat ax
boat bed
boat boy
boat bridge
boat bug
boat chock
boat club
boat crane
boat deck
boat drill
boat falls
boat hand
boat hire
boat hook
boat line
boat livery
boat nail
boat neck
boat neckline
boat pan
boat patch
boat people
boat race
boat seaplane
boat show
boat song
boat spike
boat steerer
boat train
boat truck
boat-bill
boat-billed heron
boat-fly
boat-green
boat-handler
boat-lowering
boat-race
boat-shaped
boat-tailed
boat-tailed grackle
boat-woman
boatswain bird
boatswain's call
boatswain's chair
boatswain's mate
boatswain's pipe
boatswain's stores
bob a curtsy
bob and wheel
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin Stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
bobby socks
bobby soxer
bobby-dazzler
bobby-socker
bobby-soxer
bobsy-die
bobtail drawbridge
bobtail flush
bobtail straight
bobtailed arrow
bobwhite quail
bock beer
bodd-
bodhi tree
bodice maker
bodies seven
bodily appetite
bodily charm
bodily comfort
bodily discharge
bodily grace
bodily love
bodily pleasure
bodily size
bodkin beard
body Brussels
body English
body and blood of Christ
body armor
body axis
body bag
body blight
body blow
body brace
body building
body cavity
body cell
body centre
body check
body cloth
body clothes
body clothing
body coat
body color
body colour
body constituent
body corporate
body count
body curer
body designer
body ease
body erecter
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
bogey-hole
boggle-dy-botch
bogie engine
bogie roll
bogus money
bohemian bob
bohemian brethren
bohr theory
bohun upas
boil away
boil down
boil off
boil over
boil smut
boil up
boil-off
boiled dinner
boiled dressing
boiled eggs
boiled meat
boiled oil
boiled shirt
boiled sweet
boiler alarm
boiler blower
boiler cleaner
boiler compound
boiler coverer
boiler factory
boiler fitter
boiler fixer
boiler flue
boiler head
boiler horsepower
boiler inspector
boiler iron
boiler plate
boiler room
boiler scale
boiler shell
boiler shop
boiler suit
boiler tenter
boiler tube
boiler tuber
boiler-cleaning
boiler-off
boiler-out
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
bolster plate
bolster up
bolt action
bolt auger
bolt boat
bolt chisel
bolt down
bolt forger
bolt from the blue
bolt hole
bolt hook
bolt in
bolt knife
bolt maker
bolt of lightning
bolt out of the blue
bolt rope
bolt strake
bolt the door
bolt threader
bolt upright
bolt upsetter
bolt-action
bolt-action rifle
bolt-cutting
bolt-forging
bolt-head
bolt-hole
bolt-pointing
bolt-rope
bolt-shaped
bolt-threading
bolt-turning
bolter-down
bolter-up
bolters-down
bolters-up
bolting cloth
bolting house
bolting hutch
bolting tub
bolus alba
bomah nut
bomahnut oil
bomb bay
bomb calorimeter
bomb ketch
bomb lance
bomb out
bomb plane
bomb rack
bomb release
bomb run
bomb shelter
bomb site
bomb thrower
bomb tube
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombaje palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bombing locator
bombing machine
bombing mission
bombing run
bombing sap
bon ami
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bon viveur
bon voyage
bon-accord
bon-bon
bon-ton
bon-vivant
bona activa
bona fide
bone charcoal
bone china
bone conduction
bone corpuscle
bone crusher
bone cutter
bone dust
bone earth
bone fat
bone forceps
bone glass
bone grinder
bone heap
bone house
bone idle
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisher
bone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
bonny-clabber
bons amis
bons mots
bons vivants
bont tick
bonus issue
bonus system
bony fish
bony labyrinth
boo at
boo-boo
boo-boos
boob stunt
boob tube
booby gannet
booby hatch
booby hutch
booby prize
booby trap
booby-trap
booby-trapped
booby-trapping
boodle bag
boogie-woogie
book account
book agent
book burning
book canvasser
book card
book clamp
book clasp
book cloth
book club
book collecting
book collector
book corner
book cover
book credit
book debt
book end
book fair
book fell
book gill
book hand
book house
book in
book into
book inventory
boot the
boot top
boot tree
boot-cleaning
boot-hale
boot-leg
boot-topping
booted and spurred
booting out
bootlace worm
bootle-blade
bootleg liquor
bootleg play
bootleg sucker
bootless errand
boots and all
boots and saddles
booze fighter
booze up
booze-up
bor-
borage family
borax bead
borax carmine
borax glass
borax honey
borax pentahydrate
borax usta
bord gate
bord-and-pillar
bord-land
bord-lode
bordeaux mixture
border ballads
border ground
border irrigation
border light
border line
border on
border pen
border service
border stone
border terrier
border upon
border world
border-land
bordering on
bordering upon
borderline case
bore bit
bore meal
bore out of all patience
bore out of your life
bore stiff
bore to death
bore to distraction
bore to extinction
bore to tears
boreal blast
bored stiff
bored to death
bored to extinction
bored to tears
boric acid
boring bar
boring block
boring head
boring journal
boring machine
boring mill
boring pain
boring person
boring rod
boring tool
boring tube
born again
born before your time
born days
born fool
born for
born in Poland
born leader
born on itself
born out of wedlock
born to the purple
born under a bad sign
born under a lucky star
born under an evil star
born within sound of Bow bells
born yesterday
borne out
borning day
bornyl acetate
bornyl alcohol
bornyl formate
boro-
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
bottle-assed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-butted
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bottled in bond
bottlenose dolphin
bottlenose oil
bottlenose whale
bottling up
bottling works
bottom boards
bottom bolt
bottom canch
bottom disease
bottom dog
bottom dollar
bottom drawer
bottom fermentation
bottom gear
bottom glade
bottom grass
bottom heat
bottom house
bottom ice
bottom land
bottom line
bottom line, the
bottom of the barrel
bottom of the heart
bottom of the sea
bottom on
bottom out
bottom plate
bottom price
bottom rake
bottom rot
bottom round
bottom sawyer
bottom side
bottom side up
bottom stope
bottom tool
bottom up
bottom water
bottom waters
bottom yeast
bottom-dump bucket
bottom-road bridge
bottom-set
bottoming hole
bottoming out
bottoming tap
bottomless depths
bottomless pit
bottomless purse
bottomry bond
bottoms up
bottoms up!
botulismus toxin
boudoir cap
boudoir chair
boudoir dress
boudoir photograph
bough-pot
bought note
bought ready-to-wear
bougie decimale
bouillon cube
bouillon cup
bouillon spoon
bouillotte lamp
bouillotte table
boulder bast
boulder belt
boulder clay
boulder fern
boulder flat
boulder gravel
boulder raspberry
boulder train
boulder-stone
boulder-strewn
bouldering stone
boulevard stop
bounce back
bounce drill
bounce upon
bounced check
bouncing Bess
bouncing Bet
bouncing baby
bouncing bess
bouncing bet
bouncing check
bouncing-pin indicator
bound and determined
bound back
bound bailiff
bound book
bound charge
bound electron
bound foot
bound form
bound morpheme
bound over
bound to
bound up
bound up in
bound up with
bound variable
boundary condition
boundary layer
boundary light
boundary line
boundary point
boundary rider
boundary stone
boundary value problem
boundary-marking
bounden duty
bounden to
bounding bow
boundless pit
bounty hunter
bounty jumper
bounty jumping
bounty-fed
bouquet garni
bouquet larkspur
bouquets garnis
bourbon and branch water
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bovver boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bowie knife
bowie-knife
bowing acquaintance
bowing and scraping
bowing down
bowing stone
bowl a bosey
bowl a googly
bowl a wrong 'un
bowl along
bowl down
bowl game
bowl over
bowl spirit
bowl-shaped
bowled down
bowled over
bowline bridle
bowline cringle
bowline knot
bowling alley
bowling average
bowling ball
bowling crease
bowling green
bowling on the green
bowling stump
bowman's root
bows on
bows under
bowsprit bed
bowsprit cap
bowsprit shroud
bowstring beam
bowstring bridge
bowstring creeper
bowstring girder
bowstring hemp
bowstring roof
bowstring truss
bowtie antenna
bowwow theory
box barberry
box barrage
box barrow
box beam
box bed
box bill
box bolt
box bridge
box brier
box buggy
box caisson
box calf
box camera
box canyon
box chisel
box loom
box maker
box metal
box midge
box myrtle
box nail
box nailer
box nut
box oak
box of cigarettes
box of cigars
box off
box office
box on the ear
box opener
box oyster
box pew
box plait
box plaister
box plaiting
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shook
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stoop
box stove
box strap
box stretcher
box strike
box string
box tail
box taker
box tenon
box the compass
box the ears
box toe
box tool
box tortoise
box trap
box tree
box truck
box turtle
box up
box valve
box waggon
box wagon
box wrench
box-bordered
box-branding
box-calf
box-cleating
box-covering
box-edged
box-elder aphid
box-elder bug
box-haul
box-leaved
box-locking
box-nailing
box-office
box-plaited
box-shaped
box-strapping
box-top mission
box-tree
box-trimming
box-turning
boxed cornice
boxed in
boxed-in
boxer shorts
boxer's ear
boxer-off
boxer-up
boxing blow
boxing day
boxing glove
boxing gloves
boxing match
boxing ring
boxing shutter
boxing weight
boxing-day
boxing-in
boy bishop
boy friend
boy oh boy
boy scout
boy wonder
boy's love
boy-meets-girl
boyar palm
boyish bob
boys' haircuts
boys' room
brab tree
brace a yard fore and aft
brace and bit
brace bit
brace block
brace box
brace bumpkin
brace comb
brace game
brace head
brace in
brace jack
brace molding
brace pendant
brace piece
brace root
brace table
brace up
brace wire
brace wrench
brace yourself
braced arch
braced frame
bracelet tie
bracelet wood
brachialis anticus
brachio-
brachio-cephalic
brachisto-
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braided rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fever bird
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spattering
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
branch trace
branch water
branch wilt
branch-bearing
branch-building
branch-charmed
branch-climber
branch-embellished
branch-rent
branch-strewn
branched chain
branches of
branches of medicine
branchial arch
branchial cleft
branchial groove
branching off
branching out
brancho-
branchiostegal ray
brand goose
brand iron
brand-goose
brand-mark
brand-new
brand-newness
brand-spanking new
branding iron
brandy Alexander
brandy and soda
brandy ball
brandy bottle
brandy butter
brandy mazzard
brandy mint
brandy smash
brandy snap
brandy snifter
brandy sour
brandy-bottle
brandy-burnt
brandy-faced
brandy-pawnee
brank-new
brank-ursine
brant bird
brant fox
brant goose
brant snipe
brant-fox
bras-dessus-bras-dessous
brash bearing
brass ankle
brass band
brass buffer
brass buttons
brass choir
brass farthing
brass finisher
brass fitter
brass founder
brass hat
brass instrument
brass knuckles
brass knucks
brass molder
brass pounder
brass quintet
brass section
brass spinner
brass tacks
brass turner
brass wind
brass, the
brass-armed
brass-bold
brass-browed
brass-cheeked
brass-colored
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved
brass-lined
brass-melting
brass-mounted
brass-plated
brass-renting
brass-shapen
brass-smith
brass-tipped
brass-visaged
brass-wind instrument
brass-working
brattice cloth
brave face
brave front
brave person
brave show
brave west winds
brave-horsed
brave-looking
brave-minded
brave-sensed
brave-showing
brave-souled
brave-spirited
brave-spiritedness
braze-jointed
brazen boldness
brazen it out
brazen law of wages
brazen out
brazen through
brazen-barking
brazen-browed
brazen-clawed
brazen-colored
brazen-face
brazen-faced
brazen-facedly
brazen-fisted
brazen-floored
brazen-footed
brazen-fronted
brazen-gated
brazen-headed
brazen-hilted
brazen-hoofed
brazen-imaged
brazen-leaved
brazen-lunged
brazen-mailed
brazen-mouthed
brazen-pointed
brazil nut
braziel wood
brazing alloy
bre kekekek
breach of contract
breach of faith
breach of friendship
breach of law
breach of privilege
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumble
bread-crumbling
bread-crust bomb
bread-cutting
bread-eating
bread-faced
bread-fruit
bread-liner
bread-stitch
bread-stuff
bread-tree
bread-winner
bread-wrapping
breadth extreme
breadth index
breadth molded
break Priscian's head
break a lance with
break a strike
break and entry
break away
break back
break bean
break boundary
break bounds
break bread
break bread with
break bulk
break camp
break cover
break down
break down and confess
break down and cry
break even
break faith
break flour
break for
break forth
break free
break front
break ground
break in
break in on
break in the market
break in upon
break into
break into a smile
break into music
break into pieces
break into smithereens
break iron
break it off
break it to
break it up
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break of
break of day
break of serve Tennis
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
break to pieces
break to smithereens
break up
break van
break water
break wind
break with
break with the past
break you up
break your back
break your bonds
break your chains
break your eyes away
break your fast
break your fetters
break your heart
break your heart over
break your neck
break your promise
break your word
break yourself away
break-
break-back
break-circuit
break-down
break-even
break-even point
break-front
break-in
break-neck
break-off
break-promise
break-through
break-up
breakaway group
breakbone fever
breakdown lights
breakdown of authority
breakdown van
breakdown voltage
breaker card
breaker strip
breaker-down
breaker-off
breaker-up
breakers ahead
breakeven chart
breakfast bacon
breakfast bell
breakfast food
breakfast knife
breakfast nook
breakfast plate
breakfast room
breakfast set
breakfast table
breakfast time
breaking and entering
breaking down
breaking engine
breaking joint
breaking load
breaking loose
breaking off of negotiations
breaking out
breaking piece
breaking plough
breaking plow
breaking point
breaking strength
breaking up
breaking water
breaking-in
breakoff point
breaks, the
breakthrough weapons
breakup switch
breakup value
breast auger
breast backstay
breast beam
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
breech pin
breech plug
breech screw
breech sight
breech-loader
breech-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breeching body
breeching loop
breeching strap
breed in and in
breed true
breeder reactor
breeder tulip
breeding ground
breeding place
breeding plumage
breeding sore
breeds of
breeds of cats
breeds of cattle
breeds of chickens
breeds of dogs
breeds of horses
breeds of sheep
breeds of swine
breeze along
breeze block
breeze box
breeze burner
breeze carrier
breeze concrete
breeze filler
breeze fly
breeze in
breeze into
breeze loader
breeze oven
breeze picker
breeze plant
breeze riddler
breeze tallyman
breeze up
breeze washer
breeze wheeler
breeze-borne
breeze-fanned
breeze-lifted
breeze-shaken
breeze-swept
breeze-wooing
brent goose
brent-new
brepho-
brest summer
bret-full
breu-
breve rest
brevet d'invention
brevi manu
brevi-
brewer's yeast
briar pipe
briar-hopper
bribe broker
bribe money
bribe-devouring
bribe-free
bribery and corruption
bribery oath
bric-a-brac
bric-a-brackery
brick arch
brick archer
brick ax
brick beam
brick burner
brick carrier
brick cheese
brick chipper
brick chisel
brick clay
brick cutter
brick drier
brick dust
brick earth
brick factory
brick hammer
brick hod
brick machine
brick machinist
brick mold
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer's hammer
bricks and mortar
bridal hymn
bridal outfit
bridal saddle
bridal suite
bridal wreath
bride and groom
bride duck
bride price
bride-ale
bride-cup
bride-lace
bride-to-be
bridge bar
bridge between
bridge bird
bridge bracket
bridge circuit
bridge coupler
bridge crane
bridge deck
bridge engineer
bridge engineering
bridge fluting
bridge grafting
bridge guard
bridge house
bridge islet
bridge joint
bridge lamp
bridge lock
bridge maker
bridge money
bridge over
bridge passage
bridge pewee
bridge piece
bridge rail
bridge seat
bridge sign
bridge stay
bridge stone
bridge table
bridge tower
bridge train
bridge wall
bridge whist
bridge-house
bridle bar
bridle bridge
bridle cable
bridle chain
bridle gate
bridle hand
bridle iron
bridle joint
bridle part
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bridle tape
bridle trail
bridle up
bridle way
bridle wire
bridle-wise
brief bag
brief case
brief of title
brief span
brief success
brier bamboo
brier bush
brier rose
brier stitch
brig-rigged
brigade major
brigadier general
brigadier generals
bright and early
bright and fair
bright and shining
bright and sunny
bright color
bright days
bright diffuse nebula
bright eyes
bright idea
bright light
bright lights
bright outlook
bright prospect
bright rose
bright sentinels of the sky
bright side
bright smile
bright thought
bright wanderer
bright with promise
bright wool
bright young man
bright's disease
bright-bloomed
bright-cheeked
bright-colored
bright-dyed
bright-eyed
bright-eyed and bushy-tailed
bright-faced
bright-featured
bright-field
bright-flaming
bright-haired
bright-headed
bright-hued
bright-leaved
bright-line spectrum
bright-minded
bright-robbed
bright-spotted
bright-striped
bright-studded
bright-tinted
bright-witted
brighten up
brightline spectrum
brightness equation
brightness temperature
brill's disease
brilliant cut
brilliant idea
brilliant light
brilliant success
brilliant-cut
brim over
brimming eyes
brimstone acid
brimstone butterfly
brimstone yellow
brindled gnu
brine fly
brine gauge
brine pan
brine pit
brine pump
brine pumper
brine shrimp
brine worm
brine-bound
brine-cooler
brine-cooling
brine-dripping
brine-pumping
brine-soaked
brinell hardness
brinell number
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to
bring to a happy issue
bring to a head
bring to a stand
bring to a standstill
bring to a stop
bring to account
bring to an end
bring to an understanding
bring to attention
bring to bay
bring to bear
bring to bear upon
bring to birth
bring to book
bring to completion
bring to effect
bring to fruition
bring to justice
bring to life
bring to light
bring to maturity
bring to mind
bring to naught
bring to nothing
bring to notice
bring to nought
bring to pass
bring to reason
bring to recollection
bring to ruin
bring to tears
bring to terms
bring to test
bring to the bar
bring to the block
bring to the boiling point
bring to the fore
bring to the front
bring to the gallows
bring to trial
bring to view
bring to your notice
bring to your senses
bring together
bring trouble
bring tumbling down
bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brim
broad-brimmed
broad-built
broad-chested
broad-chinned
broad-crested
broad-eared
broad-eyed
broad-faced
broad-flapped
broad-fronted
broad-gage
broad-gaged
broad-gauge
broad-gauge person
broad-gauged
broad-guage
broad-handed
broad-headed
broad-hoofed
broad-horned
broad-jump
broad-leafed
broad-leaved
broad-leaved bottle tree
broad-leaved maple
broad-limbed
broad-lipped
broad-listed
broad-margined
broad-minded
broad-minded person
broad-mindedly
broad-mindedness
broad-mouthed
broad-nosed
broad-piece
broad-ribbed
broad-roomed
broad-set
broad-shouldered
broad-skirted
broad-souled
broad-spectrum
broad-spectrum antibiotic
broad-spectrum drug
broad-spoken
broad-spreading
broad-sterned
broad-striped
broad-tailed
broad-thighed
broad-tired
broad-toed
broad-toothed
broad-wayed
broad-wheeled
broad-winged
broad-winged hawk
broadbill dipper
broadcast band
broadcast channel
broadcast drama
broadcast journalism
broadcast loop
broadcasting regulation
broaden the mind
broadening the mind
broadleaf tree
broadloom carpet
broadly speaking
broadside aspect
broadside ballad
broadside on
broadtail cloth
broccoli brown
brock-faced
broderie anglaise
brogue hole
broil n
broiler house
broiling sun
broken accents
broken arch
broken chord
broken circuit
broken coal
broken color
broken dose
broken fortune
broken ground
broken heart
broken home
broken in
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken water
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
broken-legged
broken-minded
broken-mouthed
broken-nosed
broken-paced
broken-record
broken-shanked
broken-spirited
broken-winded
broken-winged
broker's agent
broker's loan
brokerage house
brokerage office
brolly-hop
brom-
brome grass
bromic acid
bromide paper
bromine pentafluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-
bronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-
broncho-
bronco grass
bronx cheer
bronze age
bronze caster
bronze diabetes
bronze medal
bronze smelter
bronze star medal
bronze-bearing
bronze-bound
bronze-brown
bronze-casting
bronze-clad
bronze-colored
bronze-covered
bronze-foreheaded
bronze-gilt
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
bronzed grackle
brood above
brood bud
brood cell
brood chamber
brood gemma
brood mare
brood matron
brood nest
brood over
brood patch
brood pouch
brooder house
broody coop
broody hen
brook bean
brook betony
brook celandine
brook feather
brook lamprey
brook lobelia
brook mink
brook mint
brook no
brook no denial
brook pimpernel
brook runner
brook silk
brook sunflower
brook tongue
brook trout
broom birch
broom brush
broom clover
broom corn
broom crowberry
broom cypress
broom goosefoot
broom grass
broom handle
broom heath
broom hickory
broom maker
broom millet
broom moss
broom palm
broom pine
broom sage
broom sedge
broom straw
broom tea tree
broom toadflax
broom tops
broom tree
broom twine
broom wattle
broom-leaved
broom-sewing
broomcorn millet
broomrape family
broomstick marriage
brother-german
brother-in-arms
brother-in-law
brotherly love
brothers under the skin
brothers-in-law
brougham-landaulet
brought about
brought down
brought in from nowhere
brought low
brought to notice
brought to your knees
brow ague
brow antler
brow point
brow tine
brow-bent
brow-wreathed
brown Bess
brown Betty
brown alga
brown algae
brown as a berry
brown bagging
brown bear
brown belt
brown bent
brown bess
brown betty
brown bill
brown bread
brown bullhead
brown butter
brown canker
brown coal
brown coat
brown creeper
brown george
brown gravy
brown hackle
brown heart
brown hematite
brown hyena
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown-armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brush fire
brush hand
brush harrow
brush heap
brush holder
brush hook
brush kangaroo
brush keeper
brush maker
brush myrtle
brush off
brush on paint
brush ore
brush pile
brush polisher
brush puller
brush rabbit
brush sawyer
brush scythe
brush shunt
brush stick
brush stock
brush trimmer
brush turkey
brush turner
brush up
brush up on
brush varnisher
brush wheel
brush wolf
brush yoke
brush-breaking
brush-fire
brush-footed
brush-footed butterfly
brush-off
brush-shaped
brush-tail
brush-tailed
brush-tongued
brush-treat
brusher-off
brusher-up
brushfire war
brussels carpet
brussels lace
brussels sprout
brut champagne
brut concrete
brutal act
brutal fact
brutal task
brute creation
brute force
brute matter
brute strength
bruzz iron
bry-
bry-
bton de commandement
buaze fiber
bubble and squeak
bubble bath
bubble canopy
bubble car
bubble chamber
bubble dance
bubble dancer
bubble glass
bubble gum
bubble hood
bubble nest
bubble over
bubble sextant
bubble shell
bubble tower
bubble tube
bubble up
bubble-and-squeak
bubble-bow
bubbling over
bubbly-jock
bubonic plague
buccinator novi temporis
bucco camphor
buchu camphor
buchu oil
bucket carrier
bucket conveyer
bucket down
bucket dredge
bucket hook
bucket hooker
bucket ladder
bucket maker
bucket orchid
bucket out
bucket pump
bucket rope
bucket seat
bucket shop
bucket snapper
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
buckeye rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forger
buckle into
buckle maker
buckle mounter
buckle on your armor
buckle presser
buckle rollerer
buckle stamper
buckle to
buckle tongue
buckle tonguer
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulp angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyer
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull ditcher
bull donkey
bull dust
bull dyke
bull earing
bull fiddle
bull float
bull gear
bull grape
bull grass
bull gun
bull header
bull horn
bull in a china shop
bull kelp
bull mackerel
bull market
bull mastiff
bull meat
bull moose
bull neck
bull net
bull nettle
bull nose
bull oak
bull peep
bull pen
bull pine
bull plum
bull point
bull pool
bull press
bull pump
bull quartz
bull raid
bull rattle
bull redfish
bull ring
bull riveter
bull rope
bull session
bull shark
bull snake
bull stag
bull stretcher
bull terrier
bull the market
bull thistle
bull tongue
bull train
bull trout
bull wheel
bull's nose
bull's-eye
bull's-eye lantern
bull's-eye mirror
bull's-eye rot
bull's-eye squall
bull's-eyed
bull's-eyes
bull-
bull-bait
bull-baiter
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bullet wood
bullet-head
bullet-hole
bullet-resisting glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullish market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunch oyster
bunch peanut
bunch pink
bunch plum
bunch together
bunch up
bunch-backed
bunch-word
buncher resonator
bunchflower family
bunchy top
bunco artist
bunco game
bunco steerer
bunder boat
bundle away
bundle branch
bundle branch block
bundle browning
bundle burial
bundle of His
bundle of isoglosses
bundle off
bundle out
bundle pillar
bundle sheath
bundle up
bundle work
bundle-rooted
bundu bashing
bung start
bung up
bung-full
bungalow tent
bunghole oil
bungup and bilge-free
bunji-bunji
bunk bed
bunk chain
bunk fence
bunker coal
bunker oil
bunko artist
bunko steerer
bunny brown
bunny girl
bunny hop
bunny hug
bunny rabbit
bunsen burner
bunt glut
bunter dog
bunting crow
bunting iron
bunting lark
buntline cloth
bunya-bunya
buon fresco
buon giorno
buona notte
buona sera
buono fresco
buoy boat
buoy up
buoy-tender
buoyancy force
buoyant force
buoyant market
buoyant mine
buoyed up
buoyed-up
buprestid beetle
bur artichoke
bur chervil
bur clover
bur cucumber
bur gherkin
bur grass
bur marigold
bur oak
bur parsley
bur reed
bur sage
bur thistle
bur vervain
bur-reed
buratto lace
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmannia family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn- ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
bush country
bush cow
bush cranberry
bush disease
bush doe
bush dog
bush dove
bush flying
bush forest
bush fruit
bush goat
bush grape
bush hammer
bush harrow
bush hawk
bush honeysuckle
bush hook
bush house
bush huckleberry
bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
bush soul
bush swamp
bush tamarind
bush tea
bush telegraph
bush tit
bush trefoil
bush up
bush vetch
bush warbler
bush wren
bush-fighter
bush-grown
bush-hailed
bush-hammer
but-and-ben
but-end
butacaine sulfate
butane lighter
butane stove
butane torch
butch haircut
butcher bird
butcher knife
butcher linen
butcher paper
butcher rayon
butcher shop
butcher's broom
butcher's meat
butcher's saw
butcher's-broom
butcher-bird
butcher-row
butea gum
butea kino
butea seed
butenedioic acid
butler's pantry
butler's sideboard
buts-and-bens
butt against
butt block
butt bolt
butt chain
butt chisel
butt cut
butt end
butt fitter
butt handler
butt haulier
butt head
butt hinge
butt in
butt joint
butt knuckle
butt leather
butt lifter
butt on
butt out
butt packer
butt plate
butt puller
butt roller
butt rot
butt saw
butt shaft
butt shooting
butt sling
butt strap
butt striker
butt weld
butt welding
butt-headed
butt-in
butt-stock
butter ale
butter basket
butter bean
butter blender
butter boat
butter carrier
butter chip
butter clam
butter color
butter cooler
butter cress
butter crock
butter cutter
butter daisy
butter dealer
butter dipper
butter dish
butter dock
butter duck
butter firkin
butter grinder
butter kit
butter knife
butter maker
butter merchant
butter mold
butter muslin
butter of arsenic
butter of zinc
butter oil
butter packer
butter pat
butter pear
butter pick
butter plate
butter plum
butter print
butter roller
butter salve
butter sauce
butter server
butter shop
butter spreader
butter tooth
butter tree
butter tub
butter up
butter weight
butter yellow
butter your bread on both sides
butter-and-egg man
butter-and-eggs
butter-billed
butter-box
butter-bump
butter-colored
butter-cutting
butter-fingered
butter-mouthed
butter-nut
butter-print
butter-rigged
butter-rose
butter-smooth
butter-toothed
butterboat-bill
butterboat-billed
buttercup family
buttercup yellow
buttered eggs
buttered rum
butterfly agama
butterfly bomb
butterfly bush
butterfly chair
butterfly dam
butterfly damper
butterfly dance
butterfly dock
butterfly fish
butterfly flower
butterfly lily
butterfly map
butterfly net
butterfly nut
butterfly orchid
butterfly orchis
butterfly pea
butterfly plant
butterfly ray
butterfly roof
butterfly table
butterfly tail
butterfly tulip
butterfly valve
butterfly wedge
butterfly weed
butterfly-flower
butterfly-pea
butternut squash
buttery bar
buttery hatch
butting in
butting-in
butting-joint
buttock line
buttock mail
button aster
button balance
button blank
button borer
button bottomer
button burnisher
button cactus
button chrysanthemum
button clamper
button cleaner
button clover
button coverer
button cutter
button day
button die
button dipper
button disease
button driller
button ear
button fastener
button finisher
button flower
button gauge
button grass
button head
button hole
button lac
button maker
button making
button man
button mangrove
button mottler
button pearl
button piercer
button polisher
button quail
button sage
button saw
button scar
button seal
button sedge
button sewer
button shank
button shanker
button shoe
button shoes
button snakeroot
button snakeweed
button sorter
button stamper
button stick
button strike
button switch
button thistle
button tree
button turner
button up
button up your pockets
button willow
button worker
button your lip
button-covering
button-down
button-down collar
button-eared
button-fastening
button-headed
button-hold
button-holder
button-hole
button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyr-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
buy a piece of
buy a pig in a poke
buy a share of
buy and sell
buy at a bargain
buy at cost
buy at wholesale prices
buy back
buy boat
buy dirt cheap
buy for a mere nothing
buy for a song
buy for nickels and dimes
buy in
buy in futures
buy into
buy it
buy off
buy on credit
buy on the cuff
buy on the installment plan
buy out
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
by cracky
by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
by horse
by ill hap
by ill luck
by inches
by inchmeal
by installments
by instinct
by interpretation
by intervals
by intuition
by itself
by jerks
by land
by law
by leaps and bounds
by little and little
by long odds
by mail
by main force
by marriage
by me
by means of
by memory
by merest chance
by my halidom
by name
by nature
by necessity
by night
by no manner of means
by no means
by odds
by one
by order
by ordinary
by parol
by parts
by preference
by proxy
by quarters
by rail
by reason of
by reason of that
by reflex
by remote control
by request
by return mail
by right
by rights
by rote
by rule of thumb
by sea
by sections
by sight
by skips
by slow degrees
by snatches
by some means
by special delivery
by speech or action
by stages
by stealth
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperment
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by way of opposition
by way of parenthesis
by what means
by what mode
by what name
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
by yourself
by-
by-alley
by-altar
by-and-by
by-and-large
by-bid
by-bidder
by-bidding
by-blow
by-boat
by-product oven
by-purpose
by-reaction
by-respect
by-result
by-road
by-room
by-route
by-sitter
by-speech
by-spel
by-stake
by-street
by-stroke
by-talk
by-term
by-the-bye
by-the-way
by-thing
by-throw
by-thrust
by-time
by-tone
by-track
by-trail
by-turning
by-view
by-walk
by-walking
by-wash
by-water
by-way
by-west
by-wipe
by-wood
by-word
by-work
by-your-leave
bye-blow
bye-bye
bye-byes
bye-election
bye-low
bye-stake
bye-turn
bye-water
bye-wood
bygone days
bygone times
bypass burner
bypass condenser
bypass engine
bypass ratio
hypaths and crooked ways
byre-man
byre-men
byword of reproach
c & b
c battery
c clef
c ration
c'est autre chose
c'est bien
c'est ca
c'est la guerre
c'est la vie
c'est selon
c-axes
c-axis
c-horizon
c-mitosis
c/-
cS
c a canny
c a sa
c a' canny
c a'-thro'
ca'ing-whale
c a-ca
caaing whale
cab fare
cab hire
cabana set
cabaret tax
cabbage aphis
cabbage bark
cabbage bug
cabbage butterfly
cabbage lettuce
cabbage moth
cabbage palm
cabbage palmetto
cabbage repeatedly
cabbage root fly
cabbage rose
cabbage tree
cacao bean  
cacao butter  
cache-cache  
cachectic fever  
cachou de Laval  
cack-handed  
caco-  
caco-zeal  
cocoa bean  
cacodyl group  
cacodyl radical  
cacodylic acid  
cacoethes scribendi  
cactus alkaloid  
cactus dahlia  
cactus family  
cactus geranium  
cactus wren  
caddie bag  
caddie car  
caddie cart  
caddis bait  
caddis case  
caddis fly  
caddis worm  
caddy spoon  
cadency mark  
cadet blue  
cadet cloth  
cadet gray  
cadet grey  
cadge a ride  
cadmium bronze  
cadmium carmine  
cadmium cell  
cadmium green  
cadmium orange  
cadmium poisoning  
cadmium red  
cadmium standard cell  
cadmium sulfide  
cadmium sulphate  
cadmium sulphide  
cadmium vermilion  
cadmium yellow  
cae-  
caen-  
caen-stone
calabur tree
calamander wood
calamine blue
calamine brass
calamint balm
calamity howler
calamondin orange
calamus oil
calc-
calc-aphanite
calc-sinter
calc-spar
calc-tufa
calc-tuff
calcanecuboid ligament
calcareo-
calcareous tufa
calce-scence
calci-
calcined baryta
calcined lime
calcio-
calcium arsenate
calcium bisulphite
calcium carbide
calcium carbonate
calcium caseinate
calcium chloride
calcium creosotate
calcium cyanamide
calcium cyanide
calcium cyclamate
calcium cyclohexylsulfamate
calcium dibromobehenate
calcium fluoride
calcium hydrate
calcium hydroxide
calcium hypochlorite
calcium iodobehenate
calcium lactate
calcium lamp
calcium light
calcium nitrate
calcium oxide
calcium oxych
(calcium oxychloride
(calcium permanganate
(calcium phosphate
calcium propionate
calcium soap
calcium sulfide
calcium sulphate
calcium sulphite
calco-
calculate on
calculate upon
calculate your position
calculated deception
calculated distortion
calculated risk
calculated to
calculating machine
calculus of differences
calculus of finite differences
calculus of individuals
calculus of pleasure
calculus of variations
caldo verde
caldron bottom
calendar art
calendar clock
calendar day
calendar maker
calendar month
calendar of bills
calendar stone
calendar watch
calendar year
calendar-making
calenture of the brain
calf feed
calf leather
calf love
calf's brains
calf's head
calf's liver
calf's tongue
calf's-foot
calf's-foot jelly
calf-skin
cali-
caliatour wood
caliber compass
calibrated scale
calibrating circuit
calibrating terminal
calibrating unit
calico ash
calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
call loan
call mark
call market
call money
call names
call number
call of duty
call off
call on
call on the carpet
call on the phone
call on you for
call option
call out
call over
call price
call rate
call sign
call slip
call spirits from the vasty deep
call the play
call the roll
call the shots
call the signals
call the tune
call the turn
call time
call time-out
call to
call to account
call to active duty
call to arms
call to mind
call to notice
call to order
call to quarters
call to the colors
call to witness
calm and free
calm as a mill pond
calm before the storm
calm disposition
calm down
calm mind
calm of mind
calm weather
calm yourself
calm-eyed
calm-minded
calm-throated
calming hand
calo-
calomel electrode
calore sore
calorie chart
calorie counter
calorie engine
calorie-counting
calorific value
calorimeter bomb
calumet dance
calvary cross
calyx drill
calyx spray
calyx teeth
calyx tube
cam chain
cam cleat
cam contactor
cam engine
cam press
cam squeezer
cam switch
cam wheel
cam-contactor switch
cam-cutting machine
cam-wood
camadula seed
camara nutmeg
camass rat
camb sizer
cambe wood
camber arch
camber beam
camber piece
camber slip
camber-keeled
camberwell beauty
cambric grass
cambric muslin
cambric tea
camel back
camel caravan
camel driver
camel grass
camel hay
camel insect
camel litter
camel saddle
camel's hair
camel's hair rug
camel's-hair
camel-backed
camel-faced
camel-grazing
camel-hair
camel-haired
camel-kneed
camel-shaped
camel-yarn
camelback truss
cameline oil
cameo blue
cameo conch
cameo encrustation
cameo glass
cameo pink
cameo role
cameo stamper
cameo ware
camera angle
camera assembler
camera booth
camera deflection generator
camera lucida
camera obscura
camera tube
camera tubes
camera-eye
camera-ready copy
camera-shy
caminos reales
camomile oil
camp ball
camp bed
camp bird
camp car
camp ceiling
camp chair
camp circle
camp color
camp disease
camp fever
camp fire girl
camp flux
camp follower
camp hospital
camp it up
camp meeting
camp on the trail of
camp out
camp robber
camp root
camp royal
camp sheathing
camp site
camp stove
camp trailer
camp-fight
camp-meeting
camp-out
camp-shedding
camp-shot
camp-site
campaign book
campaign button
campaign chair
campaign chest
campaign commitments
campaign contribution
campaign dinner
campaign for
campaign fund
campaign hat
campaign medal
campaign oratory
campaign promises
campaign ribbon
campaign wig
campeachy wood
campernelle jonquil
campfire girl
camph-
camphane group
camphor ball
camphor glass
camphor gum
camphor ice
camphor laurel
camphor liniment
camphor oil
camphor tree
camphor water
camphor weed
camphorated oil
campi santi
camping bus
camping ground
camping site
campo pea
campo santo
campos santos
campus shoes
campus university
camra stylo
can buoy
can burnisher
can calm
can capper
can carrier
can coverer
can crimper
can do
can faucet
can filler
can floater
can frame
can header
can hook
can it
can it be
can jacket
can key
can liner
can not
can of worms
can opener
can plug
can press
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can't be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
can-buoy
can-burnishing
can-can
can-capping
can-cleaning
can-closing
can-crimping
can-dock
can-filling
can-flanging
can-heading
can-hook
can-labeling
can-lacquering
can-lining
can-marking
can-opener
can-opening
can-polishing
can-quaffing
can-salting
can-scoring
can-sealing
can-seaming
can-slitting
can-soldering
can-squeezing
can-stamping
can-sterilizing
can-testing
can-washing
can-weighing
can-wiping
can-wrapping
cana brava
cana espina
canada balsam
canada lynx
canada thistle
canadian french
canal barge
canal boat
canal cell
canal coal
canal lock
canal ray
canal rays
canal system
canal-bone
canal-built
cananga oil
canard sauvage
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
canary seed
canary stone
canary vine
canary weed
canary wine
canary wood
canary yellow
canary-bird
canary-bird flower
canary-yellow
canarybird flower
canarybird vine
cancel out
canceled check
canceled type
cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
cancrinite-syenite
cancrum oris
candelabra lamp holder
candelabra plant
candelabrum tree
candelilla wax
candid camera
candid photograph
candid photography
candied apple
candle alder
candle anemone
candle auction
candle bearer
candle cactus
candle case
candle end
candle ends
candle fly
candle gleam
candle grease
candle hour
candle larkspur
candle lumen
candle mold
candle molder
candle paper
candle plant
candle power
candle rush
candle shade
candle snuff
candle snuffer
candle tree
candle tube
candle wicking
candle-beam
candle-bearing
candle-branch
candle-dipper
candle-end
candle-foot
candle-holder
candle-hour
candle-lighter
candle-meter
candle-rent
candle-shaped
candle-snuff
s candle-snuff fungus
candle-tapering
candle-tree
candle-waster
candle-wood
candleberry bark
candleberry myrtle
candleberry tree
candlenut oil
candlestick lily
candlewick bedspread
candlewood pine
candy cane
candy carrot
candy corn
candy grass
candy kitchen
candy pull
candy pulling
candy store
candy stripe
candy striper
candy thermometer
candy-striped
cane apple
cane ash
cane blight
cane borer
cane bottoming
cane brimstone
cane cactus
cane chair
cane crusher
cane cutter
cane field
cane fruit
cane gall
cane grass
cane gun
cane killer
cane knife
cane mill
cane osier
cane palm
cane piece
cane press
cane rat
cane reed
cane rush
cane rust
cane seat
cane seating
cane splicer
cane sugar
cane syrup
cane trash
cane weaver
cane webbing
cane withy
cane-backed
cane-bottomed
cane-phorus
cane-seated
canebrake rattler
canebrake rattlesnake
canella alba
canella bark
canella-bark family
cangica-wood
canicola fever
canicular days
canine appetite
canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canna-down
cannabis indica
cannabis resin
canned foods
canned goods
canned heat
canned show
cannel coal
cannel-bone
cannon ball
cannon bit
cannon bone
cannon cracker
cannon curl
cannon fodder
cannon metal
cannon off
cannon pinion
cannon shot
cannon stove
cannon-ball
cannon-ball fruit
cannon-ball tree
cannon-proof
cannon-royal
cannon-shot
cannonball express
cannot choose but
cannot do otherwise
cannot help but
canoe adz
canoe birch
canoe burial
canoe cedar
canoe gum
canoe tent
canoe yacht
canoe yawl
canon bit
canon form
canon law
canon lawyer
canon regular
canonical age
canonical books
canonical form
canonical hour
canonical hours
canonical prayers
canonical writings
canonized mortal
canons regular
canopic jar
canopy of heaven
canopy switch
cant across
cant block
cant body
cant chisel
cant dog
cant file
cant frame
cant hook
cant molding
cant purchase
cant ribband
cant round
cant spar
cant strip
cant timber
canted column
canterbury bell
cantharid luster
cantharides cerate
cantilever bridge
cantilever foundation
cantilever spring
canting arms
canting coat
canting hypocrite
canting quoin
cantle bar
canto fermo
cantocanto fermo
canton blue
canton crepe
canton flannel
canton ginger
cantorial side
cantus figuratus
cantus firmus
cantus planus
canvas baster
canvas board
canvas dam
canvas dresser
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
cap scuttle
cap spinning
cap square
cap the climax
cap verses
.cap-a-pie
cap-case
cap-flash
cap-in-hand
cap-paper
cap-stone
capable of
capable of life
capable of living
capable of solution
capable of survival
capacitive coupling
capacitive reactance
capacitor microphone
capacitor motor
capacitor speaker
capacity coupling
capacity factor
capacity for
capacity load
capacity load factor
capacity reactance
cape chisel
cape cod cottage
cape crawfish
cape doctor
cape gooseberry
cape parvum
cape-merchant
caper berry
caper family
caper sauce
caper spurge
caper tea
caper tree
caper-cut
capeseed oil
capful of wind
capillary action
capillary analysis
capillary attraction
capillary capacity
capillary chemistry
capillary electrometer
capillary potential
capillary pyrites
capillary tube
capillary water
capital account
capital accounts
capital asset
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsule-
captain ball
captain general
captain glass
captain lieutenant
captain of industry
captain's biscuit
captain's chair
captain's mast
captain's table
captain's walk
captain-generalcy
captain-lieutenant
captaincy general
captains general
captious critic
captive audience
captive balloon
captive bolt
captive nation
captive test
capture on film
capture theory
captured-air bubble
captured-air vehicle
capuchin capers
capucine buff
capucine lake
capucine madder
capucine orange
capucine red
capucine yellow
caput mortuum
car accounting
car bit
car brake
car card
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicide
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbro process
carbureted-hydrogen gas
carburetor altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brusher
card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer
card-carrier
card-carrying
card-carrying Communist
card-carrying member
card-counting
card-cut
card-cutting
card-devoted
card-index
card-perforating
card-printing
card-setting machine
card-sorting
cardamom oil
carder bee
cardi-
cardiac arrest
cardiac cycle
cardiac epilepsy
cardiac glucoside
cardiac glycoside
cardiac hormone
cardiac infarction
cardiac insufficiency
cardiac neurosis
cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
cardinal system
cardinal virtue
cardinal virtues
cardinal vowel
cardinal’s hat
cardinal-bishop
cardinal-deacon
cardinal-flower
cardinal-priest
cardinal-red
carding hair
carding machine
carding thistle
carding wool
cardio-
cardio-aortic
cardio-inhibitory
cardiogenic shock
cardioid microphone
cardiogenic disease
cards and spades
care a snap
care a snap of your fingers for
care about
care for
care for truth
care naught for
care nothing about
care nothing for
care of souls
care sunday
care-bewitching
care-bringing
care-charmer Sleep
care-charming
care-cloth
care-crazed
care-crossed
care-defying
care-dispelling
care-eluding
care-encumbered
care-fraught
care-killing
care-laden
care-lined
care-scorched
care-taker
care-tired
care-tuned
care-wounded
career building
career diplomat
career girl
career man
career politics
carnation-red
carnauba wax
carnegie unit
carnelian red
carnival glass
carnival lace
carnosio-
carob bean
carob brown
carob gum
carob tree
caroline hat
carom ball
carom into
carotid artery
carotid body
carotid gland
carotid sinus
carp at
carp louse
carp sucker
carp-
carpal tunnel syndrome
carpe diem
carpenter ant
carpenter bee
carpenter bird
carpenter grass
carpenter moth
carpenter's hammer
carpenter's square
carpet alterer
carpet beating
carpet bed
carpet bedding
carpet beetle
carpet binding
carpet bombing
carpet braid
carpet broom
carpet brush
carpet bug
carpet chair
carpet cleaner
carpet cleaning
carpet dance
carpet dealer
carpet drive
carpet-cut
carpet-knight
carpet-smooth
carpet-sweeper
carpetweed family
carpo-
carpo-olecranal
carriage apron
carriage blind
carriage body
carriage bolt
carriage boot
carriage bow
carriage bridge
carriage builder
carriage building
carriage cleaner
carriage cleaning
carriage company
carriage coupler
carriage coupling
carriage dog
carriage drive
carriage driver
carriage entrance
carriage forward
carriage free
carriage gate
carriage guard
carriage harness
carriage head
carriage horse
carriage house
carriage hub
carriage iron
carriage ironer
carriage joiner
carriage lady
carriage lamp
carriage lampman
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wrench
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cash basis  
cash capital  
cash carrier  
cash clerk  
cash contract  
cash credit  
cash crop  
cash customer  
cash desk  
cash discount  
cash dividend  
cash down  
cash drawer  
cash flow  
cash in  
cash in hand  
cash in on  
cash in your checks  
cash in your chips  
cash journal  
cash letter  
cash line  
cash money  
cash on delivery  
cash on the barrelhead  
cash on the nail  
cash payment  
cash price  
cash purchase  
cash railway  
cash ratio  
cash register  
cash remittance  
cash reserves  
cash sale  
cash store  
cash supply  
cash surrender value  
cash tenant  
cash terms  
cash up  
cash value  
cash-and-carry  
cash-book  
cash-refund annuity  
cashed up  
cashew apple  
cashew bird
cashew family
cashew lake
cashew nut
cashier's check
cashmere shawl
cashmere sweater
casing cutter
casing dog
casing head
casing knife
casing nail
casing shoe
casing spear
casing splitter
casing spool
casing swab
casing-head gas
casing-head gasoline
casing-in
casinghead gas
casino pink
cask marker
cask-shaped
cassava wood
casse paper
casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggan-gird
cast a nativity
cast a pall upon
cast a reproach upon
cast a shadow
cast a slur on
cast a slur upon
cast a spell
cast a traverse
cast about
cast about for
cast anchor
cast aside
cast aspersions on
cast at
cast away
cast back
cast blame upon
cast coquettish glances
cast down
cast envious eyes
cast forth
cast gear
cast in a different mold
cast in prison
cast in the eye
cast in the same mold
cast in your lot with
cast in your teeth
cast into hell
cast iron
cast light upon
cast loose
cast lots
cast naked upon the naked earth
cast of characters
cast of countenance
cast of the dice
cast off
cast on
cast out
cast out devils
cast pearls before swine
cast plastic
cast plow
cast reflection upon
cast reflections on
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-buttressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
casual clothes
casual discovery
casual dress
casual house
casual laborer
casual remark
casual suit
casual ward
casual water
casualty insurance
casualty list
casualty ward
casualty-evacuation plane
casus belli
cat and dog
cat and mouse
cat and rat
cat around
cat back
cat beam
cat block
cat brier
cat burglar
cat castle
cat chain
cat cracker
cat cradle
cat davit
cat distemper
cat fever
cat fit
cat flea
cat food
cat grape
cat hair
cat ham
cat haw
cat hip
cat hole
cat hook
cat house
cat ice
cat ladder
cat man
cat nap
cat o’mountain
cat owl
cat pea
cat-clover
cat-eyed
cat-fish
cat-foot
cat-hammed
cat-harpin
cat-harpings
cat-head
cat-hole
cat-lap
cat-like
cat-locks
cat-o'-mountain
cat-o'-nine-tails
cat-o-nine-tails
cat-rigged
cat-scratch disease
cat-scratch fever
cat-stick
cat-train
cat-whistles
cat-witted
cata-
cataleptic hypnosis
catalog buying
catalog card
catalog goods
catalog selling
catalogue raisonn
catalogue raisonne
catalpa sphinx
catalytic agent
catalytic converter
catalytic cracker
catamenial discharge
catapult flight
catapult fruit
cataract bird
catarrhal fever
catarrhal inflammation
catarrhal pneumonia
catastrophe hazard
catastrophe reserve
catastrophe risk
catastrophic change
catatonic schizophrenia
catatonic stupor
catawba rhododendron
catawba rose bay
catawba tree
catbird grape
catbird seat
catch a Tartar
catch a crab
catch a glimpse of
catch a likeness
catch a lobster
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
catch off your guard
catch off-guard
catch on
catch on fire
catch on to
catch out
catch phrase
catch pit
catenary furnace
catenary system
cater to
cater trey
cater-corner
cater-cornered
cater-cousin
cater-cousinship
catercorner ar catty-corner
catercorner kitty-corner
caterpillar catcher
caterpillar fern
caterpillar fungus
caterpillar gate
caterpillar hunter
caterpillar plant
caterpillar tractor
caterpillar tread
catfoot poplar
cath-
catharine wheel
cathead chuck
cathead stopper
cathectic energy
cathedral builder
cathedral ceiling
cathedral chimes
cathedral church
cathedral close
cathedral dome
cathedral glass
cathedral music
cathedral service
cathedral tower
cathedral town
cathedral walk
cathedral-like
catherine wheel
catheter fever
cathode current
cathode dark space
cathode drop
cathode glow
cathode luminescence
cathode particle
cathode ray
cathode rays
cathode-ray oscillograph
cathode-ray oscilloscope
cathode-ray tube
cathodic protection
cathodo-luminescent
catholico-
cation detergent
cation-active
cationic detergent
catjang pea
cats and dogs
cattail family
cattail flag
cattail fungus
cattail grass
cattail millet
cattail rush
cattle boat
cattle breeder
cattle breeding
cattle buyer
cattle camp
cattle car
cattle crossing
cattle dealer
cattle dehorner
cattle dog
cattle drover
cattle egret
cattle farcy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab
cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck
cattle wire
cattle-grid
cattle-guard
cattle-plague
cattle-ranching
cattle-speckled
cattleya guava
cattleya fly
catty-co
catty-corner
catty-cornered
caucus nomination
cauda galli
cauda-galli grit
caudal anesthesia
caudal appendage
caudal fin
caudal peduncle
caudle cup
cought in your own trap
cought napping
cought off balance
cought off base
cought short
cought tripping
caught up in
catch up your pants down
cauldron
caul fat
cauliflower cheese
cauliflower disease
cauliflower ear
cauliflower excrescence
cauliflower ware
cauliflower-eared
caulk off
caulking chisel
caulk cotton
caulking iron
caulking tool
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause clbre
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cause vertigo
cause-and-effect
caused by
causeway grass
causing cause
caustic alcohol
caustic baryta
caustic critic
caustic curve
caustic lime
caustic potash
caustic remark
caustic soda
caustic surface
caution card
cautions light
cautions money
cavalier battery
cavalier projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavalieri serventi
cavalry bone
cavalry horse
cavalry saddle
cavalry tactics
cavalry twill
cave art
cave bear
cave beetle
cave canem
cave cricket
cave drawing
cave dweller
cave dwelling
cave earth
cave fish
cave hunter
cave hyena
cave in
cave lion
cave man
cave of Trophonius
cave of despair
cave painting
cave pearl
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
cavity resonator
cavity source
cavity wall
caviuna wood
cavo-relievo
cavo-relievos
cavo-rilievo
cayenne pepper
cayenne whist
cease fire
cease hostilities
cease not
cease resistance
cease to be
cease to exist
cease to live
cease to use
cease-and-desist order
cease-fire
cecropia moth
cedant arma togae
cedar apple
cedar bird
cedar camphor
cedar chest
cedar elm
cedar grass
cedar green
cedar leaf
cedar maker
cedar manna
cedar moss
cedar nut
cedar of Lebanon
cedar pine
cedar rust
cedar swamp
cedar tree
cedar waxwing
celestial hierarchy
celestial horizon
celestial kingdom
celestial latitude
celestial longitude
celestial marriage
celestial mechanics
celestial meridian
celestial navigation
celestial pole
celestial spaces
celestial sphere
celestial throne
celiac disease
celiac plexus
cell body
cell bridge
cell cavity
cell charger
cell cleavage
cell count
cell cup
cell division
cell doctrine
cell family
cell house
cell kernel
cell membrane
cell multiplication
cell nest
cell nucleus
cell organ
cell physiology
cell plasm
cell plate
cell product
cell proliferation
cell sap
cell substance
cell tester
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
cellophane tape
cellular kite
cellular tissue
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
cellulose flour
cellulose nitrate
cellulose plastic
cellulose triacetate
cellulose xanthate
celo-navigation
celtic cross
celt-
cembal damore
cembra nut
cembra pine
cement a union
cement conveyer
cement disease
cement dusting
cement filler
cement gauger
cement gland
cement grinder
cement hardener
cement kiln
cement layer
cement maker
cement mill
cement miller
cement mixer
cement of friendship
cement organ
cement paver
cement pulverizer
cement rod
cement sprayer
cement steel
cement tester
cement-coated
cement-covered
cement-drying
cement-faced
cement-forming

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center of lateral resistance
center of life
center of manufacture
center of mass
center of origin
center of oscillation
center of ossification
center of percussion
center of pressure
center of projection
center of similitude
center of suspension
center of symmetry
center of the mind
center of volume
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficient
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centri-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephal-
cephalic index
cephalo-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerat-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsey
cerebral palsy
cerebral rheumatism
cerebral shock
cerebral tabes
cerebral tuberculosis
cerebro-
cerebro-ocular

cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerinic acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerre-tree
cerro green
certain knowledge
certain person
certainly not
certifiable case
certificate of admeasurement
certificate of character
certificate of deposit
certificate of enrollment
certificate of incorporation
certificate of indebtedness
certificate of insurance
certificate of invention
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo-
cervical smear
cervico-
cervico-occipital
cervico-orbicular
ceryl alcohol
cessation of combat
cessation of life
cessio bonorum
cestui que trust
cestui que use
cet-
cetane number
cetane rating
cetera desunt
ceteris paribus
cetyl alcohol
cetyl palmitate
cetylic acid
cetylic alcohol
cevitamic acid
cgs units
cha-cha
cha-cha-cha
cha-chaed
cha-chaing
cha-chas
chac-chac
chack-bird
chafe at the bit
chafe iron
chafe-wax
chaff scale
chaff-flower
chaff-weed
chaffer whale
chaffeur-ship
chafing dish
chafing gear
chafing pan
chagas' disease
chagual gum
chai meu
chai vai
chain argument
chain armor
chain banking
chain belt
chain bit
chain block
chain boat
chain bolt
chain brake
chain cable
chain cent
chain closure
chain conveyer
chain coral
chain coupling
chain creeper
chain discount
chain dog
chain drill
chain drive
chain driving
chain fall
chain feed
chain fern
chain gang
chain gear
chain gearing
chain grab
chain grate
chain guard
chain harrow
chain hoist
chain hook
chain isomerism
chain joiner
chain jointer
chain knot
chain letter
chain lightning
chain line
chain link fence
chain linker
chain locker
chain mail
chain maker
chain mark
chain measure
chain mechanism
chain of being
chain of cause and effect
chain of circumstances
chain of command
chain of evidence
chain of ideas
chain of office
chain of thought
chain pickerel
chain pillar
chain pin
chain pipe
chain plate
chain printer
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
chair cane
chair car
chair leg
chair lift
chair of English
chair organ
chair rail
chair seat
chair seater
chair shaper
chair table
chair turner
chair, the
chair-fast
chair-mortising
chair-shaped
chair-warmer
chairman of the board
chaise cart
chaise d'or
chaise longue
chaise longues
chaise lounge
chaise-longue
chaise-marine
chaises longues
chakazzi copal
chalcedony yellow
chalcid fly
chalcid wasp
chalcis fly
chalco-
chalice cell
calice flower
calice moss
calice veil
calice vine
calk and talk
calk burner
calk cliff
calk down
calk dust
calk engraving
calk flint
calk hill
calk lime
calk line
calk maple
calk mixture
calk out
calk pit
calk plant
calk process
calk quarry
calk stripe
calk talk
calk talker
calk up
calk-eating
calk-eyed
calk-plate process
calk-stone
calk-talk
calk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleonic grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champlin enamel
chance arrival
chance at odds
chance barn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandelier tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
cchangements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
character witness
character woman
characteristic curve
characteristic equation
characteristic function
characteristic polynomial
characteristic root
characteristic subgroup
characteristic value
characteristic vector
characteristic velocity
characteristic x-ray
charcoal black
charcoal burner
charcoal drawing
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
charge the jury
charge to
charge to experience
charge to the jury
charge to your account
charge up
charge upon
charge weigher
charge with
charge-a-plate
charge-exchange accelerator
charge-house
charge-off
chargeable to
charged moment
charged up
charges forward
charging of the jury
charging order
charging rate
charging stick
chariot driver
chariot driving
chariot plane
chariot pole
chariot race
chariot racer
chariot side
chariot wheel
chariot-shaped
charismatic figure
charismatic gift
charismatic leader
charismatic movement
charismatic renewal
charity ball
charity bazaar
charity boy
charity case
charity commission
charity girl
charity house
charity school
charity stamp
charity ward
charity work
charity worker
charles's wain
charley horse
charlotte russe
charm school
charm the birds out of the trees
charm-bound
charm-built
charm-engirdled
charm-struck
charmed circle
charmed life
charnel house
chart a course
chart house
chart room
charter colony
charter hand
charter hold
charter land
charter member
charter party
charter school
charter-party
chartered accountant
chartered bus
chartreuse green
chartreuse tint
chartreuse yellow
chase after
chase away
chase gun
chase halter
chase hoop
chase mortise
chase mortised
chase off
chase out
chase piece
chase port
chase ring
chase up a stump
chase up a tree
chase women
chase your tail
chase-hooped
chase-hooping
chase-mortised
chaser hob
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
check lock
check mark
check nut
check of
check off
check on
check out
check over
check over and through
check punch
check puncher
check rail
check ring
check roller
check sheet
check side
check stamp
check stamper
check stopper
check system
check the growth of
check the helm
check through
check up
check up and down
check up on
check valve
check washer
check your speech
check-canceling
check-endorsing
check-flood
check-in
check-out
check-out pilot
check-over
check-perforating
check-roll
check-stone
check-string
check-writing
checked out
checked-out
checker plate
checker tree
checker-berry
checker-brick
checker-roll
checker-up
checkered lily
checkered plate
checking account
checking signals
checks and balances
cheddar pink
chee-chee
cheek block
cheek by cheek
cheek by jowl
cheek cut
cheek knee
cheek pouch
cheek strap
cheek to cheek
cheek tooth
cheek-by-jowl
cheer on
cheer pine
cheer the inner man
cheer to the very echo
cheer up
cheer-up
cheerful consent
cheerful expectation
cheerful fire
cheerful giver
cheerful outlook
cheerful readiness
cheery mood
cheery vein
cheese bail
cheese basket
cheese blintz
cheese block
cheese bolt
cheese cake
cheese cement
cheese chandler
cheese color
cheese cutter
cheese dream
cheese finger
cheese fly
cheese grater
cheese hoop
cheese it
cheese knife
cheese maggot
cheese maker
cheese making
cheese mite
cheese mold
cheese pitch
cheese plate
cheese press
cheese rack
cheese rennet
cheese running
cheese scoop
cheese skipper
cheese souffle
cheese straw
cheese toaster
cheese trier
cheese tub
cheese vat
cheese wring
cheese-head
cheese-headed
cheese-paring
cheesebox seat
cheesed off
cheeseparings and candle ends
chef d’oeuvre
chef d’oeuvre
chef d’ouvre
chef de cuisine
chef salad
chef-d'
chef-d'oeuvre
chefs de cuisine
chefs-d'oeuvre
cheil-
cheir-
cheiro-
chem-
chemic mixer
chemical analysis
chemical apparatus
chemical bond
chemical closet
chemical corps
chemical detector
chemical dictionary
chemical dynamics
chemical element
chemical elements
chemical engineer
chemical engineering
chemical equation
chemical fertilizer
chemical fuse
chemical lead
chemical physics
chemical potential
chemical reaction
chemical rocket
chemical solution
chemical sympathectomy
chemical toilet
chemical warfare
chemically pure
chemico-
chemin de fer
chemist's shop
chemo-
chemosynthetic bacteria
chenille Axminster
chenille carpet
chenille plant
chenille rug
chenopodium oil
cheoplastic metal
cheque card
chequer-chamber
chequer-wise
chequer-work
chequered flag
cherchez la femme
cherish a belief
cherish a feeling
cherish an idea
cherish at the heart’s core
cherish the hope
cherish the memory of
cherokee rose
cheroomjie nut
cherry aphid
cherry apple
cherry bay
cherry birch
cherry bird
cherry bomb
cherry bounce
cherry brandy
cherry chopper
cherry coal
cherry coffee
cherry cordial
cherry country
cherry crab
cherry crush
cherry currant
cherry fair
cherry Finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cherry scale
cherry seeder
cherry slug
cherry smash
cherry stone
cherry stoner
cherry sucker
cherry tomato
cherry wine
cherry-bob
cherry-cheeked
cherry-colored
cherry-crimson
cherry-flavored
cherry-laurel oil
cherry-lipped
cherry-merry
cherry-pie
cherry-red
cherry-ripe
cherry-rose
cherry-tree gum
cherry-wood
chert quarrier
chesapeake bay retriever
cheshire cat
cheshire cheese
chess apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue
chest X-ray
chest expander
chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-foundered
chest-on-chest
chested arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
chevron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
chez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chickasaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken colonel
chicken coop
chicken corn
chicken fancier
chicken farm
chicken farmer
chicken farming
chicken feed
chicken foot
chicken grape
chicken gumbo
chicken halibut
chicken hawk
chicken hazard
chicken heart
chicken house
chicken ladder
chicken liver
chicken louse
chicken mite
chicken out
chicken paprikas
chicken pepper
chicken pest
chicken plover
chicken pox
chicken ranch
chicken roost
chicken salad
chicken septicemia
chicken snake
chicken soup
chicken switch
chicken thief
chicken tick
chicken tortoise
chicken turtle
chicken wire
chicken yard
chicken-billed
chicken-brained
chicken-breasted
chicken-breastedness
chicken-farming
chicken-hazard
chicken-hearted
chicken-heartedly
chicken-heartenedness
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
chickweed phlox
chickweed wintergreen
chicle bleeder
chicle gum
chico mamey
chicory family
chief constable
chief cook
chief engineer
chief executive
chief executive officer
chief justice
chief justiceship
chief librarian
chief master sergeant
chief mate
chief of police
chief of staff
chief of state
chief of the deadly sins
chief officer
chief petty officer
chief pilot
chief rabbi
chief thing
chief warrant officer
chief-justiceship
chief-pledge
chiefly Austral
chiff chaff
chiff-chaff
chignon bob
chigoe flea
chigoe-poison
chih hsien
child actor
child benefit
child born out of wedlock
child care
child guidance
child labor
child labour
child life
child mind
child minder
child of nature
child prodigy
child psychiatry
child psychology
child rearing
child welfare
child's play
child-bearing
child-bereft
child-birth
child-fashion
child-god
child-hearted
child-heartedness
child-loving
child-minded
child-mindedness
childbed fever
childhood's careless days
childish scrawl
childish treble
children of Israel
children of darkness
children of the devil
children's book
children's dictionary
children's hospital
children's librarian
children's magazine
children's shop
children's wear
chile con carne
chile niter
chile saltpeter
chile sauce
chili and beans
chili con carne
chili pepper
chili powder
chili sauce
chili vinegar
chilio-
chill along the spine
chill casting
chill mold
chill plow
chill to the bone
chill to the marrow
chill your spine
chill-cast
chilled to the bone
chilli con carne
chilli pepper
chilli powder
chilli sauce
chilling wind
chills of fear
chills of terror
chilo-
chime hoop
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repairer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chinless wonder
chino-
chinook jargon
chinook salmon
chinook wind
chinquapin oak
chip ax
chip basket
chip bird
chip board
chip break
chip budding
chip carving
chip in
chip log
chip of
chip of the old block
chip off
chip off the old block
chip on the shoulder
chip on your shoulder
chip pan
chip ring
chip shot
chip-hat palm
chip-proof
chipped beef
chipper-up
chipping ax
chipping bit
chipping chisel
chipping hammer
chipping piece
chipping sparrow
chipping squirrel
chiquichiqui palm
chir pine
chir-
chirk up
chiro-
chirp like a cricket
chisel bit
chisel grinder
chisel in
chisel maker
chisel making
chisel point
chisel steel
chisel temper
chisel tooth
chisel-cut
chisel-edged
chisel-pointed
chisel-shaped
chit-chat
chitino-arenaceous
chito melon
chittam bark
chittem bark
chitter-chatter
chittim bark
chitty-face
chive garlic
chlor-
chloracetic acid
chloral hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
chocolate-flower
chocolate-red
choctaw-root
choice bit of dirt
choice morsel
choice of Hercules
choice of words
choice reaction
choice-drawn
choir aisle
choir chaplain
choir invisible
choir loft
choir manual
choir member
choir organ
choir rail
choir school
choir screen
choir stall
choir wall
choke apple
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chole-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
cholo-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose off
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chop mark
chop sooy
chop stroke
chop suey
chop-cherry
chop-chop
chop-church
chop-fallen
chop-house
chop-logic
chop-stick
chop-suey
chopped steak
chopped-off
chopper cot
chopper tool
chopping block
chopping knife
chopping sea
choppy sea
chor bishop
choral conductor
choral dancer
choral dancing
choral director
choral fantasy
choral group
choral music
choral service
choral singer
choral singing
choral society
choral speaking
choral symphony
chorale prelude
chord chart
chord of the sixth
chord organ
chord packing
chord pitch
chord symbol
chorda dorsalis
chorda tendinea
chorda tympani
chordae tendineae
chore boy
chorea minor
choreo-
chori-
choioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
chose local
chose transitory
chosen freeholder
chosen kind
chosen people
chosen sort
chooses in action
chooses in possession
chooses local
chooses transitory
chota hazri
chou moellier
chou paste
chou pastry
chou-fleur
chouse out of
choux pastry
chow chow
chow down
chow line
chow mein
chow-chow
chrisom child
christ's-thorn
christ-cross
christ-cross-row
christ-like
christ-tide
christcross-row
christian brother
christian dor
christian era
christian name
christian reformed
christian science
christiano-
christmas tree
christo-
christy minstrel
crom-
chroma-blind
chromat-
chromatic aberration
chromatic circle
chromatic color
chromatic colour
chromatic scale
chromatic semitone
chromatic sign
chromatic spectrum
chromatic tetrachord
chromaticity coordinate
chromaticity coordinates
chromaticity diagram
chromatin strands
chromato-
chrome acetate
chrome alum
chrome aventurine
chrome black
chrome brick
chrome green
chrome iron
chrome iron ore
chrome leather
chrome lemon
chrome liquor
chrome orange
chrome oxide green
chrome primrose
chrome red
chrome scarlet
chrome sole
chrome spinel
chrome steel
chrome tanning
chrome vermillion
chrome yellow
chrome-nickel
chrome-nickel steel
chrysalis oil
chrysanthemum dog
chrysanthemum rust
chryso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
chukka boot
chukka boots
chukker brown
chulan family
chum salmon
chum together
chum with
chump end
chupa-chupa
church bell
church book
church calendar
church council
church dignitary
church door
church father
church feast
church furnishing
church house
church invisible
church key
church member
church militant
church mode
church mouse
church music
church of england
church office
church organ
church parade
church part
church rate
church school
church seat
church service
church slavic
church suffering
church text
church triumphant
church vessel
church visible
church wedding
church work
church worker
church year
church-ale
church-chopper
church-door
church-gang
church-garth
church-government
church-papist
church-scot
church-soken
church-ward
churchyard cross
cigar molder

cigar packer

cigar roller

cigar rolling

cigar smoker

cigar sorter

cigar spot

cigar store

cigar-box cedar

cigar-flower

cigar-loving

cigar-shaped

cigar-smoker

cigar-store Indian

cigarette beetle

cigarette break

cigarette butt

cigarette card

cigarette case

cigarette drain

cigarette end

cigarette factory

cigarette girl

cigarette holder

cigarette lighter

cigarette machine

cigarette maker

cigarette making

cigarette paper

cigarette roller

cigarette smuggling

cigarette sorter

cigarette tobacco

cigarette-smoker

ciliary body

ciliary muscle

ciliary process

ciliate-leaved

ciliate-toothed

cilo-spinal

cinch bill

cinch up

cinchona bark

cinder block

cinder breaker

cinder concrete

cinder cone

cinder frame
circuit training
circuit-riding
circuital field
circular argument
circular constant
circular error
circular error probable
circular function
circular knitting
circular letter
circular light
circular measure
circular mil
circular note
circular pitch
circular plane
circular polarization
circular probable error
circular sailing
circular saw
circular triangle
circular velocity
circular-cut
.circular-cut file
circular-knit
circulate a petition
circulating capital
circulating capital goods
circulating decimal
circulating equation
circulating library
circulating medium
circulatory collapse
circulatory disease
circulatory system
circum-
circum-meridian
circumflex accent
circumscribed by
circumstantial evidence
circumvent the law
circus artist
circus make-up
circus movement
circus performer
circus rider
circus tent
circus troupe
cire perdue
cire-perdue
cirl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulus
cirro-cumulus
cirro-fillum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratus
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
cirrus stripe
cirrus uncinus
cis-
cis-Elizabethan
cis-elysian
cis-polyisoprene rubber
cis-trans
cis-trans test
cist grave
cistern barometer
cite a case in point
cite a particular
cite cases in point
cite on several counts
cite particulars
citizen by adoption
citizen of the world
citizens band
citizenship by adoption
citizenship by birth
citizenship by naturalization
citizenship paper
citizenship papers
cito disp
citr-
citra-
citrate of magnesia
citric acid
citric acid cycle
citricola scale
citron butterfly
citron green
citron melon
citron water
citron wood
citron yellow
citron-colored
citron-yellow
citronella circuit
citronella grass
citronella oil
citrovorum factor
citrus anthracnose
citrus belt
citrus black fly
citrus blast
citrus canker
citrus fruit
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
city dweller
city edition
city editor
city father
city gas
city hall
city man
city manager
city mission
city missionary
city of the dead
city plan
city planner
city planning
city room
city slicker
city ward
city-born
city-bound
city-bred
city-commonwealth
city-god
city-manager plan
city-state
city-wide
civet bean
civet cat
civet fruit
civet-cat
civette green
civic centre
civic crown
civic garland
civic wreath
civic-minded
civic-mindedly
civic-mindedness
civil affairs
civil architect
civil architecture
civil ceremony
civil code
civil court
civil day
civil death
civil defence
civil defense
civil disobedience
civil disorder
civil engineer
civil engineering
civil government
civil jurisdiction
civil law
civil liberties
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil time
civil war
civil wedding
civil year
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
crack box
crack door
crack goose
crack valve
clado-
claim agent
claim as your right
claim attention
claim jumper
claim sanctuary
claim squatter's right
claim to be
claim your mind
claim your pound of flesh
claim your thoughts
claim-jumper
claim-jumping
claiming race
clair de lune
clair-obscure
clam chowder
clam digger
clam diggers
clam shell
clam up
clamber up
clammy azalea
clammy honeysuckle
clammy locust
clamor for
clamp bushing
clamp cell
clamp connection
clamp coupling
clamp dog
clamp down
clamp down on
clamp jig
clamp rail
clamp truck
clamping down
clamshell brake
clamshell bucket
clamshell door
clamshell doors
clan tartan
clan totemism
clandestine behavior
clang association
clang color
clang tint
clap eyes on
clap hands
clap hands on
clap hold of
clap in jail
clap in prison
clap of thunder
clap on
clap on ratlines
clap on sail
clap on the back
clap sill
clap spurs to your horse
clap the hands
clap together
clap up
clap-net
clap-stick
clapped out
clapper block
clapper box
clapper bridge
clapper rail
clapper valve
clapper-claw
clapping of hands
clare-obscure
claret brown
claret cup
claret dun
claret red
claribel flute
clarified butter
clarin trumpet
clarinet flute
clarion call
clarion-voiced
claro obscuro
clash gear
clash in color
clash of arms
clash with
clashingly colored
clasp hook
clasp knife
clasp lock
clasp nut
clasping-leaved
class boat
class bond
class conflict
class consciousness
class day
class dialect
class distinction
class hatred
class inclusion
class interval
class leader
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
classico-lombardic
classification schedule
classification society
classification track
classification yard
classified ad
classified advertisement
classified advertising
classified catalog
classified directory
classified information
classroom building
clatter about
clause boundary
clause terminal
ciaustral prior
clawer grass
clavicembro damour
claviculo-humeral
claw back
claw bark
claw bar
claw clutch
claw fern
claw foot
claw hammer
claw hand
claw hatchet
claw nut
claw off
claw setting
claw sickness
claw skyward
claw to windward of
claw your way up
claw-and-ball foot
claw-footed
claw-hammer coat
claw-tailed
clay agitator
clay band
clay burner
clay burning
clay court
clay crusher
clay digger
clay drab
clay drier
clay eater
clay fever
clay flour
clay grinder
clay iron
clay loam
clay marl
clay mill
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-built
clay-cold
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clayver-grass
clean as a hound's tooth
clean as a new penny
clean as a whistle
clean bill of health
clean bomb
clean forget
clean forgotten
clean full
clean hands
clean house
clean out
clean profit
clean room
clean rum
clean slate
clean sweep
clean up
clean up on
clean-
clean-appearing
clean-armed
clean-boled
clean-bred
clean-built
clean-complexioned
clean-cut
clean-faced
clean-feeding
clean-fingered
clean-grained
clean-handed
clean-legged
clean-limbed
clean-lived
clean-living
clean-looking
clean-made
clean-minded
clean-moving
clean-sailing
clean-saying
clean-seeming
clean-shanked
clean-shaped
clean-shaved
clean-shaven
clean-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
clear as day
clear as ditch water
clear as glass
clear as mud
clear as the nose on your face
clear away
clear coast
clear conscience
clear course
clear eyes
clear for action
clear hawse
clear obscure
clear of
clear off
clear off old scores
clear out
clear plastic
clear profit
clear road
clear sailing
clear shellac
clear sight
clear soup
clear space
clear stage
clear text
clear the air
clear the board
clear the decks
clear the hurdle
clear the land
clear the mind
clear the mind of
clear the path for
clear the road for
clear the skirts of
clear the throat
clear the trade
clear the way
clear thinking
clear to hell and gone
clear up
clear varnish
clear wax
clear your name
clear-air turbulence
clear-boled
clear-channel station
clear-cole
clear-complexioned
clear-crested
clear-cut
clear-cutness
clear-cutting
clear-eye
clear-eyed
clear-eyes
clear-faced
clear-featured
clear-hawse breeches
clear-hawse pendant
clear-headed
clear-minded
clear-mindedness
clear-obscure
clear-sighted

clear-sightedly

clear-sightedness

clear-skinned
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
clear-witted
clearance angle
clearance car
clearance fit
clearance loan
clearance papers
clearance sale
clearance size
clearance space
clearer fabric
clearing agent
clearing bank
clearing bath
clearing bearing
clearing house
clearing lease
clearing loan
clearing mark
clearing nut
clearing of the track
clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
clearinghouse agent
clearinghouse stock
clearly visible
clearwing moth
cleat work
cleavage cavity
cleavage cell
cleavage crystal
cleavage nucleus
cleave to
cleave to the line
cleave to the thought of
cleft grafting
cleft lip
cleft palate
cleft sentence
cleft weld
cleft-footed
cleft-graft
cleido-mastoid
cleido-occipital
cleidoic egg
clench your fist at
clench-built
clergy house
clerical collar
clerical error
clerical garments
clerical insignia
clerical order
clerico-
clerico-political
clerk in holy orders
clerk of the HouseBrit
clerk of the works
clerk regular
clerk vicar
clerk-ale
clerks regular
clero-
clever Dick
clever reply
clever retort
clever-clever
clever-handed
clevis bolt
clew down
clew garnet
clew iron
clew jigger
clew line
clew ring
clew rope
clew up
cliche-ridden
click beetle
click catch
click hook
click iron
click pulley
click wheel
click-clack
clickety-clack
clickety-click
client's indemnity
client-centered therapy
cliff brake
cliff dweller
cliff dwelling
cliff edge
cliff elm
cliff face
cliff hanger
cliff path
cliff rose
cliff ruin
cliff swallow
cliff top
cliff wall
cliff-bound
cliff-chafed
cliff-girdled
cliff-hanger
cliff-hanging
cliff-marked
cliff-worn
climactic arthritis
climate of opinion
climatic bubo
climatic chart
climax basket
climax forest
climb Parnassus
climb down
climb indicator
climb milling
climb on
climb over
climb up
climb your frame
climb-down
climbing bittersweet
climbing fern
climbing fish
climbing frame
climbing fumitory
climbing hempweed
climbing hydrangea
climbing iron
climbing irons
climbing perch
climbing rose
climbing ylang-ylang
clin-
clinch joint
clinch nail
clinch work
clinch-built
clincher tire
clincher work
clincher-built
clinching iron
cling like a burr
cling like a winkle
cling like ivy
cling to
cling to the hope
cling-rascal
clinging vine
clinical death
clinical dextran
clinical diagnosis
clinical medicine
clinical pathology
clinical psychologist
clinical psychology
clinical surgery
clinical thermometer
clink shell
clink-clank
clinker beech
clinker boat
clinker brick
clinker plating
clinker strake
clinker work
clinker-built
clinker-laid plating
clinkety-clink
clinkum bell
clino-
clintonite group
clip bond
clip hook
cloaked in darkness
clock card
clock chart
clock correction
clock error
clock golf
clock in
clock jack
clock meter
clock movement
clock off
clock on
clock out
clock plant
clock radio
clock setter
clock spring
clock stamp
clock star
clock tower
clock up
clock watch
clock watcher
clock winder
clock winding
clock-hour
clock-making
clock-minded
clock-watcher
clock-watching
clock-work
clockface method
clockwork regularity
clod crusher
clod crushing
clod fender
clod poll
clod pulverizer
clod roller
clod smasher
clod-brown
clod-hopper
clod-pate
clod-poll
clod-tongued
clodding press
clog almanac
clog dance
clog dancer
clog dancing
clog maker
clog up
clogged up
cloisonne enamel
cloister garth
cloister text
cloister vault
cloistered monasticism
cloistered monk
cloistered nun
cloistered vault
clonic spasm
clop-clop
close about
close acquaintance
close arrest
close at hand
close attention
close borough
close by
close call
close communion
close communionist
close company
close copy
close corporation
close down
close facsimile
close fighting
close fit
close formation
close friend
close gauntlet
close grips
close harmony
close helmet
close imitation
close in
close in on
close inquiry
close juncture
close likeness
close line
close main vents
close match
close of day
close off
close on
close or watchful attention
close out
close position
close quarters
close quote
close quotes
close range
close reach
close replica
close reproduction
close resemblance
close season
close secrecy
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-mouthed
close-order drill
close-out
close-packed
close-partnered
close-pent
close-piled
close-pressed
close-reef
close-reefed
close-ribbed
close-rounded
close-set
close-shanked
close-shaven
close-shut
close-soled
close-standing
close-sticking
close-stool
close-talking microphone
close-tempered
close-textured
close-thinking
close-tongued
close-up
close-visaged
close-winded
close-woven
close-written
closed arc
closed book
closed chain
closed circle
closed circuit
closed company
closed cornice
closed corporation
closed couplet
closed forever to
closed fracture
closed game
closed gentian
closed loop
closed meeting
closed mind
closed mortgage
closed primary
cloth beetler
cloth binding
cloth board
cloth brusher
cloth cap
cloth carbonizer
cloth cleaner
cloth clipper
cloth coat
cloth cutter
cloth doubler
cloth dresser
cloth drier
cloth finisher
cloth folder
cloth fuller
cloth hall
cloth lapper
cloth maker
cloth measure
cloth measurer
cloth mercer
cloth miller
cloth napper
cloth numberer
cloth of gold
cloth oil
cloth packer
cloth paper
cloth piecer
cloth plate
cloth press
cloth presser
cloth printer
cloth prover
cloth red
cloth roll
cloth scourer
cloth shearer
cloth shrinker
cloth slitter
cloth sorter
cloth Stamper
cloth stitch
cloth stretcher
cloth tape
cloth tenter
cloth tester
cloth warper
cloth weaver
cloth weigher
cloth yard
cloth yard shaft
cloth-backed
cloth-calendering
cloth-covered
cloth-cropping
cloth-cutting
cloth-drying
cloth-dyeing
cloth-eared
cloth-faced
cloth-finishing
cloth-folding
cloth-inserted
cloth-laying
cloth-lined
cloth-maker
cloth-measuring
cloth-of-gold
cloth-shearing
cloth-shrinking
cloth-smoothing
cloth-sponger
cloth-spraying
cloth-stamping
cloth-testing
cloth-weaving
cloth-winding
cloth-yard
clothbound book
cloth in words
clothe with power
clothed in darkness
clothed with authority
clothes beater
clothes bin
clothes chest
clothes closet
clothes hamper
clothes hanger
clothes louse
clothes maid
clothes maiden
clothes moth
clothes peg
cloud shapes
cloud stone
cloud street
cloud study
cloud up
cloud-ascending
cloud-barred
cloud-born
cloud-built
cloud-capped
cloud-capped peak
cloud-compacted
cloud-compeller
cloud-compelling
cloud-covered
cloud-crammed
cloud-crossed
cloud-cuckoo-land
cloud-curtained
cloud-dispelling
cloud-dividing
cloud-drowned
cloud-eclipsed
cloud-enveloped
cloud-flecked
cloud-girt
cloud-headed
cloud-hidden
cloud-kissing
cloud-laden
cloud-led
cloud-piercing
cloud-rocked
cloud-scaling
cloud-seeding
cloud-shaped
cloud-surmounting
cloud-surrounded
cloud-topped
cloud-topped peak
cloud-touching
cloud-woven
cloud-wrapped
clouded mind
clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
clout nail
clout shoot
clout shot
clout-shoe
clove brown
clove carnation
clove cassia
clove cinnamon
clove currant
clove gillyflower
clove hitch
clove hook
clove nutmeg
clove oil
clove pepper
clove pink
clove tree
clove-gillyflower
clove-strip
cloven foot
cloven hoof
cloven-footed
cloven-footedness
cloven-hoofed
clover aphid
clover bloom
clover blossom
clover broom
clover broomrape
clover cent
clover dodder
clover fern
clover grass
clover hay
clover hay worm
clover head
clover honey
clover leaf
clover mite
clover root
clover root borer
clover rot
clover seed
clover stubble
clover weevil
clover wilt
clover worm
clover-grass
clover-leaf midge
clover-leaf roll
clover-seed midge
clover-sick
clover-sickness
cloverleaf aerial
clovis point
clow-gilofre
crown around
c legion white
club car
club chair
club cheese
club compass
club coupe
club fighter
club foot
club fungus
club grass
club hand
club head
club law
club link
club lounge chair
club mold
club moss
club mosses
club palm
club plane
club root
club rush
club sandwich
club shell
club skate
club soda
club sofa
club steak
club together
club tooth
club topsail
club wheat
club-armed
club-ended
club-fist
club-foot
club-footed
club-footed jib
club-haul
club-headed
club-high
club-law
club-man
club-moss
club-moss family
club-riser
club-rush
club-shaped
clubfoot moss
clumber spaniel
clump block
clump foot
clump-head grass
clumsy performance
clumsy-fisted
cluster bean
cluster cup
cluster fig
cluster fir
cluster flower
cluster fly
cluster leg
cluster pine
cluster point
cluster variable
cluster wheat
cluster-cup lichen
cluster-cup stage
clusterhead pink
clutch bag
clutch shaft
clydesdale terrier
clypeo-
cn-
co-
co-adaptation
co-adjust
coadventure
coadforest
coadGENCY
co-allied
coaLly
coa-ppear
coa-ration
coa-assessor
coa-assist
coa-attest
co-ax
cobishop
cobrother
coclause
coco-conspirator
codefendant
codriver
coe
coe-education
coeffect
coefficacy
cequate
coe-establishment
coe-state
coe-executor
coesist
cofeoffee
coguardian
coinfinite
coinhabit
coinhere
coinheritor
colabourer
colatitude
colesee
colife
comart
comartyr
comate
conominee
coo-bligant
coo-blige
coo-obligor
coo-occupant
coo-occupy
coo-occurrence
coo-omnipotent
coo-omniscient
coo-op
coo-operable
coo-operancy
coo-operant
coo-operate
coo-operation
coo-operationist
coo-operative
coo-operatively
coo-operativeness
co-operator
cooperculum
coopt
cooptate
cooptation
cooptative
cooption
cooptive
coordain
coordainer
cooorder
cooordinacy
coordinal
cooordinance
cooordinancy
cooordinate
cooordinately
cooordinateness
cooordination
co-ordination formula
co-ordination number
cooordinative
cooordinator
cooordinatory
cooorganize
cooorigin
cooriginal
cooriginality
coo-orthogonal
coo-orthotomic
coo-ossification
coo-ossify
coo-own
co-own
co-ownership
coopatriot
coo-presence
cooradicate
coor-ent
coor-regent
coor-relation
coor-religionist
coor-respondent
coor-rival
coor-sentient
coor-signatory
coor-signer
coor-sovereign
coor-star
coor-starred
coal ball
coal barge
coal barrow
coal basket
coal bin
coal blacking
coal blende
coal boat
coal brass
coal breaker
coal bucket
coal bunker
coal car
coal cart
coal cartman
coal cellar
coal checker
coal chute
coal cleaner
coal contractor
coal conveyer
coal crusher
coal cutter
coal depot
coal digger
coal discharger
coal dredger
coal drill
coal dump
coal dust
coal elevator
coal field
coal flap
coal fleet
coal furnace
coal gas
coal goose
coal grinder
coal hauler
coal hawker
coal heat
coal heaver
coal hewer
coal hod
coal hoist
coal hole
coal kiln
coal labeler
coal leveler
cool loader
cool lumpier
cool measures
cool mine
cool miner
cool mining
cool oil
cool operator
cool pass
cool picker
cool pipe
cool pit
cool plant
cool pocket
cool pot
cool producer
cool pulverizer
cool refiner
cool scoop
cool screen
cool screener
cool scuttle
cool shaker
cool ship
cool shovel
cool shoveler
cool sieve
cool sorter
cool spreader
cool sprinkler
cool stacker
cool storage
cool stove
cool tallyman
cool tar
cool tipper
cool tipple
cool tit
cool tongs
cool trimmer
cool truck
cool unloader
cool wagon
cool washer
cool washery
cool weigher
cool wharf
coal wharfinger
c coal workings
c coal works
c coal-bearing
c coal-black
c coal-blue
c coal-boring
c coal-breaking
c coal-burning
c coal-cutting
c coal-dark
c coal-dumping
c coal-elevating
c coal-eyed
c coal-faced
c coal-fired
c coal-fish
c coal-gas
c coal-handling
c coal-house
c coal-laden
c coal-leveling
c coal-loading
c coal-man
c coal-measure
c coal-meter
c coal-miner's lung
c coal-picking
c coal-pit
c coal-producing
c coal-pulverizing
c coal-sack
c coal-scuttle
c coal-sifting
c coal-stone
c coal-tar
c coal-tar creosote
c coal-tar crude
c coal-tar dye
c coal-tar pitch
c coal-tester
c coal-tit
c coal-whipper
c coal-whipping
c coal-works
c coaling station
c coaltion government
c coarse fish
coarse texture
course-featured
course-fibered
course-grained
course-grainedness
course-haired
course-handed
course-lipped
course-minded
course-skinned
course-spoken
course-spun
course-textured
course-tongued
course-toothed
course-wrought
coarseness of grain
coarseness of intellect
coast artillery
coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
coast live oak
coast nutmeg
coast patrol
coast pilot
coast rat
coast redwood
coast rhododendron
coast seal
coast station
coast trade
coast trillium
coast-fishing
coast-guard cutter
coast-to-coast hookup
costal navigation
costal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
costwise navigation
coat armor
coat armour
coat arms
coat card
coat flower
coat hanger
coat money
coat of arms
coat of mail
coat of paint
coat shirt
coat-armour
coat-card
coat-money
coat-of-mail shell
coat-of-plates construction
coat-tail
coated lens
coati-mondi
coati-mundi
coating paper
coaxial cable
coaxial network
coaxial propellers
coaxial speaker
cob cactus
cob coal
cob loaf
cob meal
cob money
cob swan
cob wall
cob-iron
cob-nut
cob-swan
cobalt 60
cobalt bloom
cobalt blue
cobalt bomb
cobalt bronze
cobalt chloride
cobalt crust
cobalt glance
cobalt glass
cobalt green
cobalt hydroxide
cobalt potassium nitrite
cobalt red
cobalt sulphate
cobalt therapy
cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobalt-
cobaltiferous wad
cobalto-
cobaltous hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cabras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidioidal granuloma
cocculus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygo-
cochil sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cochit zapotl
cochlear duct
cochleariform process
cochon de lait
cochylis moth
cock a snook
cock a snook at
cock ale
cock and pie
cock head
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's comb
cock's foot
cock's head
cock-a
cock-a-doodle
cock-a-doodle--dooed
cock-a-doodle--dooing
cock-a-doodle-doo
cock-a-doodle-doos
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
cock-a-leekie
cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and-pinch
cock-as-hoop
cock-a-whoop
cock-bill
cock-boat
cock-brain
cock-brained
cock-crow
cock-crowing
cock-eye
cock-eyed
cock-feathered
cock-feathering
cock-fight
cock-fighting
cock-horse
cock-laird
cock-loft
cock-master
cock-match
cock-nest
cock-of-the-rock
cock-paddle
cock-penny
cock-road
cock-shut
cock-shy
cock-sparrowish
cock-stride
cock-sure
cock-tailed
cock-throppled
cock-up
cockatoo bush
cockatoo farmer
cockatoo fence
cockatoo fish
cockatoo grass
cockatoo orchis
cockatoo parakeet
cocked hat
cocker spaniel
cocket center
cocket centering
cockeye bob
cockeye pilot
cockeyed bob
cockeyed drunk
cockie-leekie
cocking cart
cockle button
cockle garden
cockle hat
cockle oast
cockle stairs
cockle stove
cockle strewer
cockle wheat
cockle-bread
cockle-headed
cockle-shell
cockles of the heart
cockles of your heart
cocks-of-the-rock
cockscomb grass
cocksfoot grass
cockspur flower
cockspur grass
cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
cocktail chair
cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
cocktail-party chitchat
cocky-leeky
cockyolly bird
cokyoly bird
coco de mer
coco grass
coco palm
coco plum
coco sedge
coco-plum
cocoa bean
cocoa beans
cocoa brown
cocoa butter
cocoa plant
cocoa presser
cocoa red
cocoa sedge
cocoa shell
cocoa tea
cocoa-brown
cocoa-colored
coconut beetle
codfish aristocracy
codfish balls
codfish cakes
codlin moth
codling moth
codlins-and-cream
coeeducational school
coefficient component
coefficient of acceleration
coefficient of elasticity
coefficient of expansion
coefficient of fineness
coefficient of friction
coefficient of mutual induction
coefficient of performance
coefficient of restitution
coefficient of self-induction
coefficient of viscosity
coel-
coolanaglyphic sculpture
coeliac disease
coeliac plexus
coelio-
coelo-
coen-
coen-
coercive force
coff-fronted
coffee bag
coffee bar
coffee bean
coffee beans
coffee berry
coffee blight
coffee borer
coffee bread
coffee break
coffee cake
coffee cherry
coffee corn
coffee cream
coffee cup
coffee disease
coffee fern
coffee grinder
coffee house
coffee klatch
coffee klatsch
coffee maker
coffee mill
coffee morning
coffee nib
coffee nut
coffee party
coffee pea
coffee plant
coffee planter
coffee ring
coffee roaster
coffee royale
coffee senna
coffee shell
coffee shop
coffee spoon
coffee stall
coffee strainer
coffee table
coffee tree
coffee urn
coffee wit
coffee-and
coffee-blending
coffee-brown
coffee-cleaning
coffee-color
coffee-colored
coffee-faced
coffee-grading
coffee-grinder winch
coffee-grinding
coffee-house
coffee-imbibing
coffee-klatsch
coffee-making
coffee-planter
coffee-planting
coffee-polishing
coffee-roasting
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coffin bone
coffin carrier
coffin corner
coffin finisher
coffin handle
coffin joint
coffin maker
coffin nail
coffin plate
coffin spark
coffin text
coffin trimmer
coffin-end spoon
coffin-fashioned
coffin-headed
coffin-joint lameness
coffin-shaped
cog locomotive
cog railroad
cog railway
cog the dice
cog-wheel
cog-wood
cogent argument
cogged joint
cogging mill
cognac oil
cognate object
cognitive dissonance
cognitive psychology
cognizant of
cogswell chair
cogwheel ore
cogwheel respiration
coherence theory
coherent light
cohune fat
cohune nut
cohune oil
cohune palm
cogn of vantage
coil bobbin
coil box
coil former
coil pottery
coil spring
coil-filling
coil-testing
coin-separating
coin-shaped
coin-weighing
coinage bronze
coinage of the brain
coinage ratio
coincidence counter
coined liberty
coining press
coining punch
coinsurance clause
coital exanthema
coitus interrupti
coitus interruptus
coitus reservatus
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abscess
cold as a welldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forge
cold-hammer
cold-hammered
cold-head
cold-hearted
cold-heartedly
cold-heartedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-patch
cold-pated
cold-press
cold-producing
cold-roll
cold-rolled
cold-saw
cold-short
cold-shortness
cold-shoulder
cold-shut
cold-stain
cold-spirited
cold-storage
cold-store
cold-swage
cold-sweat
cold-taking
cold-type
cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll' arco
coll-
colla tempestada
collagen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
college boy
college cap
college church
college dictionary
college editor
college girl
college graduate
college ice
college man
college of Laputa
college of advanced technology
college of architecture
college of arms
college of dramatic arts
college of education
college of engineering
college of general studies
college of liberal arts
college of music
college of education
college pheasant
college pudding
college student
college try
college widow
college year
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier's purchase
colliery manager
collimating eyepiece
collimating lens
collimation axis
collimation error
collimation line
collimation plane
collision bulkhead
collision clause
collision course
collision density
collision diameter
collision emission
collision insurance
collision mat
collision-proof
collo-
collodio-
collodion cotton
collodion process
colloid carcinoma
colloid chemistry
colloid mill
colloidal solution
colloidal suspension
colloquial English
colloquial discourse
colloquial language
colloquial speech
colloquial usage
colo-
cologne plant
cologne spirits
cologne water
colon bacillus
colonel blimp
colonel commandant
colonel general
colonel-commandantship
colonial bent
colonial dollar
colonial experience
colonial government
colonial siding
colonialist threat
coloph-
color analysis
color analyzer
color arrangement
color balance
color bar
color base
color blender
color blindness
color blocker
color blower
color box
color brush
color camera
color card
color cell
color changeling
color chart
color checker
color chest
color cinematography
color circle
color clash
color company
color compatibility
color cone
color constant
color contrast
color control
color cycle
color design
color designer
color diagram
color dimension
color doctor
color dominance
color dry sifter
color dryer
color drying
color dyer
color emissivity
color etcher
color film
color filter
color gamut
color gauge
color gelatin
color grinder
color guard
color harmony
color hearing
color index
color instrument
color instruments
color intensity
color kinescope
color line
color matcher
color measurement
color mill
color miller
color mixer
color mixture
color mixture curve
color mixture function
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
colorado loco vetch
coloratura soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella crani
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
coma berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
comb-brush
comb-building
comb-footed
comb-footed spider
comb-fringed grass
comb-grained
comb-out
comb-shaped
comb-toothed shark
combat area
combat boot
combat boots
combat car
combat ceiling
combat command
combat duty
combat engineer
combat fatigue
combat flight
combat group
combat high-explosive rocket
combat intelligence
combat jacket
combat neurosis
combat pilot
combat plane
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
combination pedal
combination piston
combination plane
combination plate
combination plow
combination principle
combination rate
combination room
combination rubber
combination salad
combination shot
combination square
combination tone
combinatorial analysis
combinatorial mathematics
combinatorial topology
combinatory logic
combine harvester
combine in
combined effort
combined experience table
combined operation
combined operations
combing hair
combing machine
combing wool
combing form
combining weight
combust way
combustible material
combustion cell
combustion chamber
combustion engine
combustion engineer
combustion engineering
combustion furnace
combustion lag
combustion method
combustion motor
combustion spoon
combustion train
combustion tube
come a cropper
come about
come across
come across with
come afoul of
come after
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come busting in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man's estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-ye
come-along
come-at-ability
come-at-able
come-at-ableness
come-back
come-between
come-by-chance
come-down
come-hither
come-hither look
come-hithery
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
command guidance
command module
command money
command of idiom
command of language
command of money
command of words
command paper
command performance
command pilot
command post
command pulses
command respect
commander in chief
commanders in chief
commanding officer
comme ci comme ca
comme d'habitude
comme deux gouttes d'eau
comme il faut
commedia dell'arte
commedia dell'artes
commedias dell'arte
commedie dell'arte
commelina blue
commence firing
commencement exercises
commend to attention
commendation ninepence
comment allez-vous
comment ca va
comment upon
commerce destroyer
commerce raider
commerce raiding
commerce with
commercial affairs
commercial agency
commercial agent
commercial announcement
commercial arithmetic
commercial art
commercial artist
commercial attache
commercial aviation
commercial bank
commercial code
commercial college
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
crime
a gaffe
solecism
adultery
assault upon
an
crime
an
atrocity
an
outrage
burglary
commit
carnage
genocide
commit hara-kiri
mass destruction
mass murder
commit
murder
robbery
sacrilege
sin
commit suicide
to
an institution
to
memory
to
prison
to
writing
yourself
to
commitment
to
memory
consideration
of correspondence
of one
of the whole
stage
step
dollar
exchange
money
paper
alum
ancestry
assent
belief
bond
brad
common
artery
carrier
common


common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common person
common phrase
common pitcher plant
common pleas
common practice
common prayer
common property
common rafter
common reed
common rhythm
common room
common ruck
common run
common run of things
common salt
common saying
common school
common scold
common seal
common seaman
common sennit
common sense
common snipe
common soldier
common sort
common source
common speech
common stock
common sulfur
common talk
common tannin
common tern
common time
common topaz
common touch
common variety
common weal
common wheat
common year
common-law
common-law court
common-law estoppel
common-law jurisdiction
common-law lien
common-law marriage
common-law trust
common-law wife
common-room
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
comparative literature
comparative medicine
comparative method
comparative musicology
comparative philology
comparative psychology
comparative relation
comparative religion
comparative scrutiny
comparative statement
compare and contrast
compare notes
compare point by point
compare to
compare with
compared to
compared with
comparison lamp
comparison microscope
comparison of variables
comparison shopper
comparison shopping
comparison slip
comparison spectrum
comparison star
comparison test
compass about
compass bearing
compass board
compass bowl
compass brick
compass calipers
compass card
compass corrector
compass course
compass deviation
compass deviation card
compass dial
compass direction
compose your differences
compose your features
compose yourself
composed matter
composed of
composed throughout
composing frame
composing room
composing rule
composing stick
composite arch
composite balance
composite function
composite number
composite photograph
composite reading
composite sailing
composite school
composite shot
composite text
composite-built
composition carver
composition cloth
composition face
composition factor
composition formula
composition metal
composition of differences
composition of forces
composition pedal
composition piston
composition roofing
composition series
compost heap
compound centrifugal force
compound engine
compound eye
compound flower
compound for
compound fraction
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
comprehensive school
compressed air
compressed petroleum gas
compressed score
compressed-air drill
compressibility drag
compression bib
compression coupling
compression cup
compression ignition
compression member
compression ratio
compression spring
compression stroke
compression tap
compression wave
compression-ignition
compression-ignition engine
compromise formation
compromise joint
compromise rail
compromise yourself
compte rendu
compte-rendu critique
comptes rendus
compulsion neurosis
compulsive character
compulsive gambler
compulsory arbitration
compulsory military service
compulsory purchase
compulsory referendum
compulsory servitude
computational linguistics
computer code
computer data
computer engineer
computer hardware
computer language
computer memory
computer part
computer parts
computer printout
computer program
computer programmer
computer proof
computer revolution
computer routine
computer software
computer technician
computer technologist
computer technology
computer typesetting
computer unit
computerized typesetting
computing machine
computing scale
comrade in arms
comrade-in-arms
con affetto
con agilita
con agitazione
con amore
con anima
con artist
con brio
con dolore
con espressione
con fuoco
con game
con man
con moto
con over
con rod
con sordino
con spirito
con your part
con-
conario-
concatenation control
concatenation of events
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'lgance
congress art
congress block
concrete identity
congress layer
congress mixer
congress music
congress noun
congress number
congress paint
congress poetry
congress universal
congress concurrent jurisdiction
congress concurrent resolution
congress concurring opinion
concession bellows
concession bomb
concession fuse
concession grenade
conussiononal concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
cone anchor
cone bearing
cone bit
cone brake
cone center
cone chuck
cone clutch
cone compass
cone coupling
cone delta
cone friction clutch
cone gamba
cone joint
cone key
cone lathe
cone mandrel
cone mill
cone number
cone of a complex
cone of silence
cone off
cone pepper
cone plate
cone pulley
cone shaver
cone shell
cone snail
cone speaker
cone tree
cone valve
cone vision
cone wheat
cone wheel
cone-billed
cone-headed
cone-in-cone
cone-nose
cone-shaped
conehead rivet
conehead toggle
coney leopard
coney mole
coney parsley
confabulate the breeze
confectioners' sugar
confectionery decorator
confederate memorial day
confederate rose
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglobate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjigate axis
conjugate numbers
couple conjugates
conjugate solution
conjugated protein
conjugation canal
conjugation cell
conjugate-
conjugate-palmate
conjugate-pinnate
conjunction-reduction
conjunctive adverb
conjuncture of events
conjure man
conjure spirits
conjure up
conjure up a vision
conjure up spirits
conk out
connate-perfoliate
connect couple
connect up
connect with
connecting link
connecting rod
connection angle
connection bar
connection with
connective tissue
conning tower
conning tower hatch
conniption fit
connive at
connoisseur of food
connoisseur of wine
conoido-hemispherical
conoido-rotundate
conquering hero
conscience clause
conscience money
conscience-proof
conscience-smitten
conscience-stricken
conscientious objector
conscious of
conscious of your place
conscious self
consciousness raising
consciousness-expanding
consciousness-expansion
conscript fathers
consecrate to
consecrated bread
consecrated elements
consecutive intervals
consensus gentium
consensus of opinion
consensus omnium
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
consenting adult
consequent stream
conservation of angular momentum
conservation of charge
conservation of energy
conservation of linear momentum
conservation of mass
conservation of mass and energy
conservation of matt
conservation of matter
conservation of momentum
conservation of parity
conservative treatment
consider every angle
consider pro and con
consider the circumstances
consider the source
consign to a place
consign to hell
consign to oblivion
consign to the grave
consign to the scrap heap
consigned to oblivion
consignment marketing
consignment note
consist in
consist of
consist with
consistent with
consisting of
consolation game
consolation match
consolation prize
console table
consolidated annuities
consolidated fund
consolidated school
consolidated stock
consolidating company
consonant chord
consonant shift
consonant shifting
consonant system
consonantal alliteration
consort with
conspicuous by its absence
conspicuous consumption
conspicuous gallantry
conspicuous waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
constitute a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
constitutional referendum
constitutional rights
constitutional syphilis
constitutional therapy
constitutional validity
constrain yourself
constrict your views
construct form
contact a debt
contact action
contact agent
contact dermatitis
contact flight
contact flying
contact infection
contact lens
contact maker
contact making
contact man
contact metamorphism
contact microphone
contact mine
contact paper
contact poison
contact potential
contact print
contact printing
contact process
contact therapy
contact with reality
contactor switch
contageous disease
contagious abortion
contagious ecthyma
contagious epithelio
contagious epithelioma
contagious magic
contain yourself
contained in
container board
container car
container ship
contango day
conte-crayon
contemplate in the imagination
contemplation of the past
contemplative life
contemporary literature
contempt of Congress
contend about
contend against
contend for
contend with
content analysis
content subject
content word
content yourself with
contents page
contest a seat
contest of fleetness
contest of speed
contested election
contextual definition
continent-wide
continental breakfast
continental climate
continental code
continental divide
continental drift
continental island
continental quilt
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating airscrews
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
c control chart
control column
c control desk
control electrode
control element
c control engineer
control experiment
c control feelings
control grid
c control group
c control indicator
c control mark
c control means
c control mechanism
c control mechanisms
c control panel
c control relay
c control resistor
c control rod
c control room
c control signals
c control station
c control stick
c control surface
c control survey
c control system
c control the carnal man
c control the fleshly lusts
c control the old Adam
c control the price of
c control tower
c control transformer
c control valve
c control wires
c control your appetites
c control yourself
c controllable-pitch
c controlled access highway
c controlled association
c controlled association test
c controlled experiment
c controlled price
c controlled quantity
c controller general
c controlling account
c controlling depth
c controversial point
conus medullaris
conval lily
convalescent home
convalescent hospital
convected heat
convection current
convective activity
convective discharge
convector heat
convenience food
convenient to
convent cloth
convent school
convention hall
conventional phrase
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
conventual prior
convergence frequency
convergence of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
copper extractor
copper foil
copper hydroxide
copper iris
copper mill
copper millman
copper mine
copper miner
copper mining
copper pyrites
copper red
copper refiner
copper refinery
copper smelter
copper spot
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
coppery-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
copple-crown
copple-crowned
copple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
coaubvin
coq de bruyere
coquet with
coquet with the idea
coquette bob
coquettish glances
coquilla nut
coquille lens
coquilles Saint-Jacques
coquimbo owl
cquito palm
cor adiposum
cor anglais
cor arteriosum
cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotriloculare biatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biatriatum
cor triloculare biventriculare
cor villosum
cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secreting
coral-snake
coral-tree
corn borer
corn bread
corn bunting
corn cackle
corn cake
corn cleaner
corn cockle
corn color
corn crake
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shocker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crate
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corn-cob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corneo-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coronae radiatae
coronal roots
coronal suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coroner's inquest
coroner's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal's guard
corporate arms
corporate body
corporate bond
corporate headquarters
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'armee
corps d'elite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpse candle
corpse gate
corpse reviver
corpse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus christi
corpus delicti
corpus juris
corpus luteum
corpus luteum hormone
corpus striatum
corpus vile
corpuscular theory
correct English
correct copy
correct deportment
correct ear
correct in your behavior
correct in your manners
correcting plate
correcting signals
correction line
correction of error
corrective action
corrector plate
correlation coefficient
correlation ratio
correlative conjunction
correspond to
correspond with
correspondence column
correspondence course
correspondence principle
correspondence school
correspondence theory
corridor of time
corridors of time
corroboratory evidence
corrosion borders
corrosive mercury chloride
corrosive sublimate
corrugated iron
corrugated paper
corruqation irrigation
corrupt administration
corrupt politician
corrupt practices act
corruption of blood
corruption of speech
corset cover
corset designer
corsetior corsetier
cortex parenchyma
cortical epilepsy
cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cotelette de veau
cotta grass
cottage bonnet
cottage cheese
cottage china
cottage fried potatoes
cottage hospital
cottage industry
cottage loaf
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton baller
cotton batting
cotton belt
cotton bill
cotton boll
cotton bollworm
cotton broker
cotton bush
cotton buyer
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner
cotton grass
cotton grower
cotton gum
cotton harvester
cotton jenny
cotton lint
cotton linters
cotton lord
cotton mill
cotton mixer
cotton moth
cotton mouse
cotton mouth
cotton mouths
cotton mule
cotton netting
cotton oil
cotton on
cotton opener
cotton packer
cotton picker
cotton plant
cotton plantation
cotton planter
cotton plugger
cotton plush
cotton pongee
cotton powder
cotton preparer
cotton press
cotton print
cotton printer
cotton raiser
cotton rat
cotton rock
cotton root rot
cotton rose
cotton rush
cotton rust
cotton sampler
cotton seed
cotton shipper
cotton sled
cotton sorter
cotton speeder
cotton spinner
cotton spooler
cotton stainer
cotton stripper
cotton sugar
cotton sweep
cotton tapestry
cotton teal
cotton teaser
cotton thistle
cotton thread
cotton tie
cotton to
cotton tree
cotton twist
cotton twister
cotton wadding
cotton warehouseman
cotton warp
cotton waste
cotton weigher
cotton wick
cotton wicking
cotton wilt
cotton winder
cotton wool
cotton works
cotton worm
cotton yarn
cotton-backed
cotton-baling
cotton-bleaching
cotton-clad
cotton-covered
cotton-dyeing
cotton-ginning
cotton-growing
cotton-knitting
cotton-picking
cotton-planting
cotton-printing
cotton-producing
cotton-root bark
cotton-sampling
cotton-sick
cotton-spinning
cotton-weaving
cotton-wicked
cottonseed cake
cottonseed feed
cottonseed flour
cottonseed meal
cottonseed oil
cottonseed tree
cottontail rabbit
cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough sirup
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counsel of perfection
counsel-keeper
counselor-at-law
counselors-at-law
count against
count book
count calories
count down
count for
count heads
count hook
count in
count me out
count noses
count noun
count number
count of
count off
count on
count out
count palatine
count plate
count sheep
count the beats
count ties
count up
count upon
count votes
count wheel
count-rate meter
countably additive function
countably compact set
counted on
counter apse
counter borer
counter check
counter electromotive force
counter image
counter jumper
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-gear
counter-guard
counter-hem
counter-indication
counter-influence
counter-ion
counter-irritant
counter-jumper
counter-lath
counter-letter
counter-lode
counter-marque
counter-motion
counter-move
counter-naïant
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counter-passant
counter-pawn
counter-penalty
counter-pole
counter-potent
counter-pressure
counter-price
counter-proof
counter-quartered
counter-raguled
counter-rampant
counter-reformation
counter-revolution
counter-revolutionary
counter-riposte
counter-roll
counter-round
counter-salient
counter-scale
counter-scuffle
counter-sea
counter-seal
counter-secure
counter-spell
counter-statement
counter-step
counter-taste
counter-tendency
counter-tenor
counter-tide
counter-tierce
counter-time
counter-trench
counter-tripping
counter-turn
counter-vote
counter-wait
counter-wall
counter-weight
counter-worker
counterfeit money
counterintelligence agent
counterpoint rhythm
counterrotating propeller
counterscarp gallery
countersink bit
countertenor clef
counterweight system
counties palatine
counting glass
counting heads
counting house
counting machine
counting noses
counting number
counting on the fingers
counting room
counting scales
counting tube
counting-out rhyme
countless as the sands
countless as the stars
countre-
country almond
country bank
country bishop
country blues
country borage
country bumpkin
country club
country cousin
country damage
country dance
country dancer
country dancing
country day school
country doctor
country fig
country gentleman
country gooseberry
country hide
country house
country jake
country licorice
country mallow
country mile
country music
country party
country peach
country pepper
country rock
country seat
country store
country town
country wallah
country walnut
country, the
country-and-western
country-and-western music
country-and-western singer
country-born
country-bred
country-dance
country-fashion
country-made
country-style
country-wide
counts palatine
county agent
county attorney
county board
county borough
county building
county clerk
county college
county commissioner
county constabulary
county convention
county council
county court
county courthouse
county fair
county farm
county home
county house
county library
county mutual
county palatine
county police
county rate
county road
county seat
county site
county supervisor
county town
county-wide
coup d'Oeil
coup d'essai
coup d'état
coup d'oeil
coup d'oil
coup d'tat
coup de foudre
coup de gr
coup de grace
coup de main
coup de maitre
coup de plume
coup de poing
coup de soleil
coup de theatre
coup de theatre
coup feather
coup-cart
coupe-gorge
couple dancing
couple up
couple with
couple-beggar
couple-close
coupled roof
coupled with
coupler socket
coupling box
coupling circuit
coupling coefficient
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepoudre
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mantle
cow cress
cow flops
cow garlic
cow grass
cow hand
cow hock
cow keeper
cow killer
cow lily
cow oak
cow parsley
cow parsnip
cow pats
cow pillow
cow pilot
cow plant
cow poison
cow pony
cow rattle
cow shark
cow sorrel
cow testing
cow thistle
cow town
cow tree
cow vetch
cow's tail
cow-bane
cow-boy
cow-cutting horse
cow-eyed
cow-fat
cow-fish
cow-goddess
cow-headed
cow-hide
cow-hitch
cow-hocked
cow-itch
cow-lice
cow-mumble
cow-nosed
cow-pox
cow-stealing
cow-tongue
cowboy boot
cowboy boots
cowboy hat
cowboy pool
cowboy saddle
cowboys and Indians
cowhage cherry
cowl lamp
cowl neckline
cowl-shaped
cowled night
cowpea weevil
cowpea wilt
cowper's gland
cowrie pine
cowry bird
cowslip wine
coxo-femoral
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
cozy chat
cozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
crab-faced
crab-fish
crab-grass
crab-harrow
crab-plover
crab-shed
crab-sidle
crabbed age
crabbed hand
crabbing machine
crab-eater seal
crack a book
crack a crib
crack a joke
crack a safe
crack a smile
crack down
crack down on
crack of dawn
crack of doom
crack off
crack on
crack on sail
crack open
crack shot
crack the whip
crack up
crack willow
crack wise
crack your brains
crack your invention
crack-
crack-loo
crack-off
crack-the-whip
crack-up
crack-willow
cracked on
cracked voice
cracked-wheat bread
cracker bonbon
cracker jack
cracker mill
cracker-barrel
cracker-off
cracker-on
cracker-open
crackers-on
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane's-bill
crane-fly
cranging hook
crani-
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crease-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again

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creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crebi-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creedal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
creme Yvette
creme d'amande
creme de cacao
creme de cassis
creme de la creme
creme de menthe
creme de moka
creme de noyau
cremorne bolt
crenate-leaved
crenate-toothed
crenato-
crenelated molding
creole dialect
creole language
creole-fish
creole-fishes
creolized language
creosote bush
creosote carbonate
creosote oil
crepe Suzette
crepe de Chine
crepe de chine
crepe hair
crepe lisse
crepe marocain
crepe meteor
crepe myrtle
crepe paper
crepe rubber
crepe suzette
crepe wool
crepe-backed
crepe-paper
crepuscular light
crepuscular ray
crescendo pedal
crescent moon
crescent operation
crescent roll
crescent spot
crescent truss
crescent-formed
crescent-lit
crescent-pointed
crescent-shaped
crescit eundo
cresol iodide
cresol red
cress family
cress green
cress rocket
crest cloud
crest coronet
crest factor
crest rail
crest table
crest tile
crest voltmeter
crest-fallen
crested auklet
crested dog's-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
crewel yarn
crewel-work
cri de coeur
cri de guerre
cri du cour
crib biting
crib death
crib strap
crib-bit
crib-bite
crib-biter
crib-biting
crib-bitten
cribbage board
crick-crack
cricket ball
cricket bat
cricket bird
cricket chair
cricket frog
cricket ground
cricket table
cricket teal
cricket-bat willow
crico-
cried up
crim con
crime against humanity
crime against nature
crime of passion
crime passionel
crime sheet
crime wave
criminal act
criminal anthropology
criminal assault
criminal cohabitation
criminal congress
criminal contempt
criminal conversation
criminal court
criminal investigation
criminal jurisdiction
criminal law
criminal lawyer
criminal psychology
criminal syndicalism
criminal syndicalist
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
crinc-
cringe to
cringle-crangle
crini-
crinkle leaf
crinkle-crangle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
crio-
cripple rafter
cripple stopper
crippling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
critical moment
critical niceness
critical notice
critical path analysis
critical period
critical philosophy
critical point
critical pressure
critical ratio
critical realism
critical region
critical review
critical state
critical success
critical tem
critical temperature
critical volume
critically ill
criticize severely
critico-
critico-analytically
critico-historical
critico-poetical
critico-theological
cro-magnon
croaking sac
crochet file
crochet hook
crochet needle
crochet work
crockery cement
crocodile bird
crocodile shears
crocodile squeezer
crocodile tears
crocus antimonii
crocus bag
crocus cloth
crocus martis
crocus metallorum
crocus sack
croissant demi-sel
croix de guerre
croker sack
crook an elbow
crook rafter
crook the elbow
crook-backed
crooked dice
crooked politician
crooked-backed
crooked-billed
crooked-branched
crooked-clawed
crooked-eyed
crooked-foot
crooked-legged
crooked-limbed
crooked-lined
crooked-lipped
crooked-nosed
crooked-pated
crooked-shouldered
crooked-stemmed
crooked-toothed
crooked-winged
crooked-wood
crookes tube
croon song
crop drier
crop duster
crop grass
crop herbs
crop hide
crop index
crop of hair
crop out
crop pasture
crop rotation
crop seed
crop shear
crop up
crop-bound
crop-dust
crop-duster
crop-dusting
crop-ear
cross flute
cross flux
cross forked
cross formee
cross fourchee
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pommee
cross potent
cross press
cross product
cross ratio
cross recerceelee
cross reference
cross relation
cross remainder
cross rhythm
cross sea
cross seat
cross section
cross sighting
cross signal
cross slide
cross spider
cross springer
cross strap
cross street
cross stroke
cross swords
cross swords with
cross tag
cross talk
cross the Rubicon
cross the Stygian ferry
cross the path of
cross the threshold
cross turret
cross up
cross vault
cross vaulting
cross vein
cross vine
cross whitefish
cross wind
cross wire
cross wires
cross your heart
cross your heart and hope to die
cross your mind
cross your palm
cross your palm with
cross your path
cross-
cross-adoring
cross-aisle
cross-appeal
cross-armed
cross-banded
cross-banding
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-benched
cross-benchmarked
cross-benchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-bones
cross-bow
cross-bred
cross-breed
cross-bridge
cross-brush
cross-bun
cross-buttock
cross-buttocker
cross-carve
cross-channel
cross-check
cross-church
cross-claim
cross-cloth
cross-compound
cross-connect
cross-country
cross-country flying
cross-country mill
cross-country race
cross-course
cross-cousin
cross-cousin marriage
cross-crosslet
cross-crosslets
cross-curve
cross-cut
cross-datable
cross-date
cross-dating
cross-days
cross-disciplinary
cross-disciplinary knowledge
cross-division
cross-drain
cross-dye
cross-dyeing
cross-shouldered
cross-examination
cross-examine
cross-examined
cross-examiner
cross-examining
cross-eye
cross-eyed
cross-eyedness
cross-eyes
cross-face
cross-fade
cross-faded
cross-fading
cross-feed
cross-ferred
cross-ferring
cross-fertile
cross-fertilizable
cross-fertilization
cross-fertilize
cross-fertilized
cross-fertilizing
cross-fiber
cross-file
cross-filed
cross-filing
cross-finger
cross-fingered
cross-fire
cross-fire treatment
cross-firing
cross-fish
cross-fissured
cross-fixed
cross-flower
cross-folded
cross-fox
cross-fur
cross-gagged
cross-gartered
cross-grained
cross-grained
cross-grainedly
cross-grainedness
cross-handed
cross-handled
cross-hatch
cross-hatcher
cross-hatching
cross-head
cross-headed
cross-hilted
cross-immunity
cross-immunization
cross-index
cross-interrogate
cross-interrogation
cross-interrogator
cross-interrogatory
cross-invite
cross-jack
cross-jack yard
cross-joined
cross-jostle
cross-laced
cross-laminated
cross-land
cross-lap
cross-lap joint
cross-latticed
cross-leaved
cross-logged
cross-leggedly
cross-leggedness
cross-level
cross-license
cross-licensed
cross-licensing
cross-lift
cross-light
cross-link
cross-locking
cross-lot bracing
cross-lot strut
cross-lots
cross-magnetizing field
cross-marked
cross-mate
cross-mated
cross-staff
cross-staffs
cross-star
cross-staves
cross-sterile
cross-sterility
cross-stitch
cross-stitch canvas
cross-stitching
cross-stone
cross-stratification
cross-stratified
cross-striated
cross-string
cross-stringed
cross-stringing
cross-striped
cross-strung
cross-sue
cross-surge
cross-tail
cross-tine
cross-town
cross-tree
cross-validation
cross-vault
cross-vaulted
cross-vaulting
cross-vein
cross-veined
cross-ventilate
cross-ventilation
cross-vine
cross-voting
cross-way
cross-wind
cross-wind force
cross-worder
cross-wrapped
crossbar micrometer
crossbar shot
crossbar switching
crossbolt lock
crosscut chisel
crosscut file
crosscut method
crosscut saw
crosscut-saw file
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing sweeper
crossing the bar
crossing-out
crossing-over
crossjack brace
crossjack lift
crossjack yard
crossover network
crossword puzzle
crotch chain
crotch tongue
crotch veneer
croton bug
croton oil
croton-bug
croton-chloral hydrate
crotonic acid
crouch before
crouch ware
crouch-ware
croup kettle
croupous pneumonia
croupy down
crow blackbird
crow call
crow corn
crow duck
crow fig
crow flight
crow garlic
crow like a cock
crow like a rooster
crow ling
crow needle
crow onion
crow over
crow pea
crow pheasant
crow poison
crow sheaf
crow shrike
crow step
crow tit
crow to pick
crow to pluck
crow to pull
crow's foot
crow's nest
crow's nest model
crow's-feet
crow's-foot
crow's-nest
crow's-nest model
crow-bar
crow-bill
crow-flower
crow-garlic
crow-leek
crow-pheasant
crow-quill
crow-silk
crow-soap
crow-step
crow-stone
crow-toe
crow-tread
crow-victuals
crowberry family
crow grass
crowd in

crowd of sail
crowd on sail
crowd out
crowd puller
crowd sail
crowd your luck
crowd-pleasing argument
crowding engine
crowfoot family
crowfoot grama
crowfoot grass
crowfoot violet
crown aloes
crown and anchor
crown animalcule
crown antler
crown bar
crown block
crown brace
crown cam
crown canker
crown canopy
crown cap
crown class
crown colony
crown cork
crown court
crown cutter
crown daisy
crown debt
crown density
crown escapement
crown filler
crown fire
crown gall
crown gate
crown gear
crown glass
crown gold
crown graft
crown grafting
crown green
crown gum
crown head
crown imperial
crown jewels
crown knot
crown land
crown law
crown lawyer
crown leather
crown lens
crown living
crown molding
crown monkey
crown octavo
crown of thorns
crown office
crown palm
crown paper
crown piece
crown pigeon
crown plate
crown post
crown prince
crown princess
crown prosecutor

crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crown shell
crown side
crown sparrow
crown system
crown tax
crown tile
crown vallary
crown vent
crown vetch
crown wart
crown wheel
crown with
crown with laurel
crown with success
crown-capping machine
crown-glass
crown-land
crown-of-jewels
crown-of-thorns
crown-paper
crown-piece
crown-post
crown-rump length
crown-scab
crown-shaped
crown-wheel
crown-wheel escapement
crown-work
crowned head
crowned with laurel
crowned with success
crowning achievement
crowning of the edifice
crowning touch
crownwort family
cruces ansatae
crucial moment
crucial period
crucial point
crucial test
cruciato-
crucible furnace
crucible steel
crucifixion thorn
crude oil
crude petroleum
crude rubber
crude stuff
crudeness of intellect
crudity of intellect
cruel and unusual punishment
cruel disappointment
cruel-hearted
cruet stand
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crusher sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryolite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallo-
crystallographic axis
cteno-
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubital furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucking-stool
cuckold dock
cuckold's knot
cuckold's neck
cuckoo bee
cuckoo clock
cuckoo clover
cuckoo dove
cuckoo falcon
cuckoo fly
cuckoo froth
cuckoo gillyflower
cuckoo grass
cuckoo hawk
cuckoo lamb
cuckoo orchis
cuckoo owl
cuckoo ray
cuckoo shoe
cuckoo shrike
cuckoo sorrel
cuckoo spit

cuckoo wasp

cuckoo wrasse
cuckoo’s meat

cuckoo-babies

cuckoo-bread

cuckoo-bud

cuckoo-button

cuckoo-flower

cuckoo-fly

cuckoo-fool

cuckoo-meat

cuckoo-pint

cuckoo-pintle

cuckoo-shrike

cuckoo-spit

cuckoo-spittle

cucumber beetle

cucumber family

cucumber fish

cucumber flea beetle

cucumber fly

cucumber green

cucumber melon

cucumber mildew

cucumber mosaic

cucumber root

cucumber scab

cucumber tree

cucurbit mosaic

cucurbit wilt

cud-chewing

cuddle up

cuddy heel

cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
cue-bidden
cue-bidding
cue-owl
cuff button
cuff ironer
cuff link
cui bono
cui-ui
cuir-bouilli
cul de lampe
cul-de-four
cul-de-lampe
cul-de-sac
culilawan bark
culinary art
culinary artist
culinary concoction
culinary masterpiece
culinary preparation
culinary science
cull board
cull out
cullin stone
culm dump
culm measures
culpable negligence
culpably negligent
culs de lampe
cult-title
cultivate the friendship of
cultivate the soil
cultivated land
cultivated taste
cultivation of the mind
cultivator shield
cultural anthropologist
cultural anthropology
cultural change
cultural community
cultural drift
cultural lag
cultural-nomadic
culture area
culture center
culture complex
culture conflict
culture contact
culture drift
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multis alis
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cumulo-cirrus
cumulo-nimbus
cumulo-stratus
cumulo-volcano
cumulonimbus calvus
cumulonimbus capillatus
cumulus cloud
cumulus congestus
cumulus fractus
cumulus humilis
cumulus mediocris
cumulus oophorus
cuneate lobe
cuneo-
cunning as a fox
cunning as a serpent
cunning person
cup and ball
cup and cover
cup barometer
cup bell
cup coral
cup custard
cup drill
cup escutcheon
cup fern
cup fungus
cup grease
cup hole
cup hook
cup joint
cup leather
cup lichen
cup maker
cup marker
cup moss
cup mushroom
cup nutseed
cup of Elijah
cup of bitterness
cup of tea
cup packing leather
cup plant
cup sculpture
cup set
cup shake
cup sponge
cup tie
cup turning
cup valve
cup washer
cup-and-saucer vine
cup-bearer
cup-headed
cup-mark
cup-marked
cup-moss
cup-shake
cup-shaped
cup-shot
cup-tied
cup-tossing
cupboard love
cupboard lover
cupid cake
cupid's bow
cupid's-bow
cupola builder
cupola charger
cupola feeder
cupola fettler
cupola furnace
cupola liner
cupola potman
cupola rammer
cupola smelter
cupola tapper
cupola tenter
cupola-capped
cupola-roofed
cupping glass
cuprammonium rayon
cuprea bark
cupreo-
cupric hydroxide
cupric sulfate
cupro-
curlie-wurlie
curling die
curling dies
curling iron
curling irons
curling machine
curling paper
curling pins
curling press
curling punch
curling stone
curling tongs
curly clematis
curly grass
curly palm
curly top
curly-coated
curly-coated retriever
curly-haired
curly-headed
curly-locked
curly-pate
curly-pated
curly-polled
curly-toed
currant aphid
currant borer
currant bush
currant clearwing
currant fruit fly
currant leaf spot
currant moth
currant red
currant rust
currant sawfly
currant spanworm
currant stem girdler
currant tomato
currant tree
currant wine
currant worm
currant-leaf
currency bond
currency doctrine
currency metals
currency note
currency principle
current account
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
currente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtail expenses
curtail step
curtail-step
curtain angle
curtain aurora
curtain board
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
curtal-ax
curtesy initiate
curtle ax
curule chair
curvature invariant
curvature of field
curvature tensor
curve ball
curve fitting
curve of buoyancy
curve of displacement
curve of flotation
curve of loads
curve of resistance
curve of weights
curve-ball
curve-billed
curve-drawing meter
curve-fruited
curve-veined
curved-fruited
curved-horned
curved-veined
curvi-
curvilinear coordinate system
cusco bark
cusco china
cusco-bark
cuscus oil
cush-cush
cushew-bird
cushing's disease
cushion aloe
cushion block
cushion capital
cushion carom
cushion cut
cushion dance
cushion felt
cushion filler
cushion fillings
cushion head
cushion iris
cushion maker
cushion pink
cushion plant
cushion rafter
cushion scale
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
customs union
customs-exempt
customs-house
custos morum
custos rotulorum
cut a caper
cut a corner
cut a crab
cut a dash
cut a dido
cut a feather
cut a figure
cut a figure in society
cut a lobster
cut a melon
cut a rug
cut a swath
cut across
cut adrift
cut along
cut and dried
cut and run
cut and thrust
cut and try
cut apart
cut at
cut away
cut back
cut both ways
cut capers
cut corners
cut crosswise
cut dead
cut diagonally
cut direct
cut down
cut down expenses
cut down on
cut down to size
cut drop
cut fine
cut glass
cut hunter
cut ice
cut in
cut in two
cut into
cut it
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cut your own throat
cut your teeth
cut your teeth on
cut your throat
cut your wisdom teeth
cut-and-cover
cut-and-dried
cut-and-dry
cut-and-try
cut-away
cut-back
cut-card work
cut-down
cut-finger
cut-flight conveyer
cut-glass
cut-grass
cut-in
cut-leaf
cut-leaved
cut-off
cut-out
cut-paper
cut-price
cut-rate
cut-through
cut-toothed
cut-under
cut-up technique
cut-work
cutaneous quittor
cutaneous sense
cutaway coat
cute as a bug's ear
cute chick
cute trick
cutes verae
cuticula dentis
cutie pie
cutting pliers
cutting press
cutting punch
cutting remark
cutting rule
cutting sand
cutting shoe
cutting stage
cutting the pie
cutting torch
cutting words
cutting your losses
cutting-off tool
cuttle-bone
cuttle-fish
cutty sark
cutty stool
cutty-stool
cutwater bow
cutwork lace
cy pres
cya-
cyan blue
cyan-
cyan-blue
cyanamide process
cyani flower
cynic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyanogen bromide
cyanogen chloride
cyanuric acid
cybernated factory
cybernetic control
cybernetic technologist
cycad fern
cycas family
cycl-
cyclamen aldehyde
cyclamen mite
cycle billing
cycle form
cycle of erosion
cycle of indiction
cyclic AMP
cyclic GMP
cyclic group
cyclic neutropenia
cyclic pitch lever
cyclic shift
cyclical stock
cyclical unemployment
cyclo-
cyclo-cross
cycloid personality
cycloidal gear
cycloidal propulsion
cyclone cellar
cyclone center
cyclone collector
cyclone furnace
cyclone juice
cyclone separator
cyclone-proof
cyclopean concrete
cyclothymic personality
cylinder block
cylinder bore
cylinder desk
cylinder escapement
cylinder front
cylinder gate
cylinder glass
cylinder grinder
cylinder head
cylinder machine
cylinder metal
cylinder mill
cylinder oil
cylinder planer
cylinder press
cylinder pressman
cylinder reamer
cylinder saw
cylinder scale
cylinder seal
cylinder sinker
cylinder slasher
cylinder snake
cylinder splitter
cylinder-bored
cylinder-boring
cylinder-dried
cylinder-grinding
cylinder-shaped
cylindrical-campanulate
cylindrical-fusiform
cylindrical-oblung
cylindrical-ovoid
cylindrical-subulate
cylindricalical_coefficient
cylindricalical_coordinates
cylindricalical_projection
cylindro-
cyma recta
cyma reversa
cyne-
cynic_spasm
cyno-
cypress_grass
cypress_green
cypress_knee
cypress_koromiko
cypress_lawn
cypress_moss
cypress_oil
cypress_pine
cypress_spurge
cypress_thatch
cypress_vine
cypress-leaf_oil
cyprus_black_as_e'er_was_crow
cyprus_cat
cyrilla_family
cyro-
cyst-
cysti-
cystic_fibrosis
cysto-
cyt-
cyto-
cytochrome_reductase
cytochrome_system
cytomegalic_inclusion_disease
d_day
d_layer
d_region
d'Albert
d'Alembert
d'Alembert's test
d'Arblay
d'Holbach
d'Indy
d-
d-c
d-glucose
dB
dBV
dBW
dBa
dBm
dBm/m
dBn
da Vinci
da capo
da hand
dafer locks
daetyl-
daetylic hexameter
daetylio-
daetylo-
dad-blamed
dad-blasted
dad-burned
daddy longlegs
daddy-long-legs
daddy-longlegs
daddynut tree
dado head
dado in
dado plane
dado rail
daer-stock
daaffodil garlic
daaffodil lily
daaffodil yellow
daft days
dag-lock
da-g-tailed
daughter board
daughter cocklebur
daughter fern
daughter knee
daughter money
daughter moth
daughter plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
dagherescal
dagherescn
dahl sauce
dahlia carmine
dahlia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
dai-sho
dai-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breader
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy breed
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
dairy product
dairy products
dairy room
dairy salt
dairy school
dairy society
dairy truck
dairy wagon
dairy-cooling
dairy-farming
dairy-fed
dairy-made
daisy bush
daisy chain
daisy cutter
daisy fleabane
daisy ham
daisy tree
daisy-blossomed
daisy-clipping
daisy-cutter
daisy-cutting
daisy-dappled
daisy-dimpled
daisy-painted
daisy-spangled
dak boat
dak bungalow
daker hen
daker-hen
dal segno
dalai lama
dale end
dale head
dale land
dale lander
dale-backed
dall sheep
dallis grass
dally away
dam up
dam-brod
damage feasant
damage your good name
damage-feasant
damascus steel
damask carpet
damask rose
damask steel
damask stitch
dame school
dame’s rocket
dame’s violet
dame’s-violet
dame-school
dammar pine
damn it
damn with faint praise
damnant quod non intelligunt
dammed if I know
dammed little difference
dammed spirits
dammed, the
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes’-blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dangling modifier
dangling participle
danish pastry
danke schon
danse du ventre
danse macabre
danses du ventre
danseur noble
danseurs nobles
daoine sithe
dap joint
dap-dap
daphne pink
daphne red
dapple-bay
dapple-gray
dapple-grey
dappled-gray
darby and joan
dare not
dare to
dare-base
dare-devil
daring imagination
dariole mould
dark Cornish
dark adaptation
dark age
dark ages
dark and gloomy
dark as a wolf's mouth
dark as night
dark as pitch
dark beer
dark bread
dark chocolate
dark cloud
dark clouds
dark comedy
dark corner
dark depths
dark glasses
dark horse
dark lantern
dark lightning
dark meat
dark mineral
dark nebula
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prisoned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
darn ar durn
darning ball
darning cotton
darning egg
darning gourd
darning needle
darning silk
darning stitch
darning work
darning worsted
daroo tree
darrein presentment
darrein resort
dart ahead
dart grass
dart gun
dart snake
dart thrower
dart to and fro
darting pain
dartwaza band
das Ewig-Weibliche
dash ahead
dash at
dash down
dash for
dash into
dash lamp
dash light
dash of the pen
dash off
dash on
dash the cup from your lips
dash to your hopes
dash your brains out
dash your hope
dash-board
dashed hope
dashed hopes
dasher block
data analyzer
data bank
data capture
data processing
data processor
data reduction
data retrieval
data set
data storage
data system
data transmission
data-gathering
data-handling system
data-input system
data-interpreting system
data-reduction system
date at
date bar
date brandy
date coffee
date fever
date fig
date from
date grove
date line
date mussel
date of record
date palm
date plum
date shell
date slip
date stamp
date sugar
date tree
date wine
date-bearing
date-stamp
date-stamping
dating nail
dative bond
datum line
datum plane
day in and day out
day in court
day in day out
day jasmine
day journeying
day labor
day laborer
day labour
day letter
day lily
day loan
day man
day name
day nettle
day neutral
day nurse
day nursery
day of atonement
day of doom
day of festivities
day of reckoning
day of rest
day off
day out
day owl
day rate
day reflection
day release
day return
day room
day rule
day scholar
day school
day servant
day shape
day shift
day sight
day sleeper
day slumber
day tank
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
daylight factor
daylight glass
daylight lamp
daylight projection
daylight robbery
daylight saving
daylight saving time
daylight vision
daylight-saving time
days beyond recall
days gone by
days of grace
days of old
days of yore
daytime serial
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gaullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonté
de die in diem
de facto
de fide
de fond en comble
de gaullism
de gustibus non est disputandum
de haut en bas
de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de proprio motu
de rerum natura
de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
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de-Stalinizing
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de-aereate
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de-articulation
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de-emphasizing
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de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de-ethicization
de-ethicize
de-excite
de-excited
de-exciting
de-ice
de-icer
de-insularize
de-ossify
de-pauperize
de-russianize
de-saxonize
de-semiticize
dea-nettle
dacon seat
dead above the ears
dead against
dead ahead
dead and-buried
dead and-done for
dead and-gone
dead as a doornail
dead as a herring
dead as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand-of-the-past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
dead-afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanch
dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
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dead-drunkenness
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dead-end street
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dead-face
dead-front
dead-frozen
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dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
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dead-roast
dead-seeming
dead-set
dead-sick
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dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadeat escapement
deaden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin
deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
deaf and dumb
deaf as a door
deaf as a doorknob
deaf as a doornail
deaf as a post
deaf as a stone
deaf as an adder
deaf ears
deaf to
deaf to reason
deaf-and-dumb
deaf-and-dumb alphabet
deaf-and-dumb person
deaf-dumb
deaf-dumbness
deaf-eared
deaf-minded
deaf-mute
deaf-muteness
deaf-mutism
deaf a blow
deal a blow at
deal a check to
deal a crushing defeat
deal a deathblow
deal a deathblow to
deal a knockout blow to
deal a smashing defeat
deal board
deal by
deal carrier
deal destruction
deal hard measure to
deal hardly with
deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
dear-est wish
dearly beloved
dearly love
dearly love to
dearth of ideas
death adder
death agonies
death agony
death alder
death angel
death angle
death bell
death benefit
death bill
death blast
death bolt
death bone
death by your own hand
death camas
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death candle
death cap
death cell
death certificate
death chair
death chamber
death chime
death cloth
death cord
death cry
death cup
death damp
death dance
death defiance
death demon
death dew
death dirge
death drink
death drum
death duty
death examiner
death feint
death feud
death fire
death flame
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death grapple
death grip
death groan
death herb
death hour
death house
death hymn
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death knell
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death of the heart
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death penny
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death’s bright angel
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deathwatch beetle
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debase yourself
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debonis non
defeatonis non
defeatonis non
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debris glacier
defeatris glacier
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debt of honor
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debt of nature
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de debt service
debt slave
debt slavery
debtor and creditor account
debtor's prison
debts recovery court
debutante bob
decad-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
deceive yourself
deceleration parachute
decem-
deceleration bed
decension table
deceptive cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decim-sexta
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck board
deck bolt
deck boy
deck bridge
deck car
deck cargo
deck chair
deck curb
deck department
deck elevator
deck feather
deck floor
deck gang
deck gun
deck hand
deck hook
deck horse
deck iron
deck key
deck kicker
deck light
deck load
deck log
deck molding
deck nail
deck of cigarettes
deck officer
deck out
deck over
deck passage
deck passenger
deck pipe
deck plate
deck plating
deck pump
deck quoits
deck roof
deck seat
deck sheet
deck steward
deck stool
deck stopper
deck stringer
deck tackle
deck tennis
deck transom
deck turret
deck up
deck watch
deck-piercing
deck-piercing shell
decked out
decking chain
deckle edge
deckle strap
deckle-edged
declaim against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
declination axis
declination circle
declination compass
declination parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
deleed with thanks
deleeding market
deleeding years
decoction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
decoration of honor
decorative composition
decorative lighting
decorative painting
deep in debt
deep into
deep kiss
deep knowledge
deep mourning
deep night
deep sea
deep secret
deep sense
deep sensibility
deep six
deep sleep
deep space
deep structure
deep study
deep therapy
deep thought
deep water
deep, the
deep-affected
deep-affrighted
deep-asleep
deep-bellied
deep-biting
deep-blue
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deep-bosomed
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deep-breasted
deep-breathing
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deep-buried
deep-chested
deep-colored
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deep-crimsoned
deep-cut
deep-damasked
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deep-downness
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deep-drawing
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deep-drew
deep-drinking
deep-drunk
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deep-echoing
deep-embattled
deep-engraven
deep-etch plate
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deep-faced
deep-felt
deep-fermenting
deep-fetched
deep-fixed
deep-flewed
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deep-grounded
deep-grown
deep-kiss
deep-laden
deep-laid
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deep-laid scheme
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deep-pitched
deep-pointed
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depth-revolving
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depth-rootedness
depth-rooting
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depth-sea line
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depth-sighted
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depth-sunken
depth-sweet
depth-sworn
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depth-thrilling
depth-throated
depth-toned
depth-transported
depth-trenching
depth-troubled
depth-udder
depth-uttered
depth-verse
depth-versed
depth-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deeper involved
deeper involved in debt
depewater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lash
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort bonset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
defense bond
defense counsel
defense in depth
defense mechanism
defense of a thesis
defense plant
defense reaction
defense test
defensive lineman
defensive stock
defensive strategy
defensive warfare
defer to
defer to your duty
deferential regard
deferred annuity
deferred assets
deferred bond
deferred income
deferred payments
deferred sentence
deferred share
deferred stock
defervescing plague
defiance of authority
defiance of time
deficiency account
deficiency anemia
deficiency bill
deficiency disease
deficiency judgment
deficiency statement
deficient number
deficit financing
deficit spending
definite article
definite integral
definite odor
definite-proportions law
definite-time
definitely right
definitive bond
definitive host
definitive plumage
definitive work
deflagrating spoon
deflationary gap
deflationary spiral
deflecting bar
deflecting force
deflecting torque
deflection angle
deflection generator
deflection method
deflection offset
deflection scale
deflection yoke
deflection-modulated display
deformation curve
deformation ellipsoid
deformed bar
defray expenses
deft-fingered
defy authority
defy danger
defy time
degenerate state
degenerate states
degeneration disease
degenerative arthritis
degenerative change
degenerative disease
degenerative joint disease
degradation of energy
degrade yourself
degree day
degree of freedom
degree of frost
degree of variance
degree-cut
degree-day
degree-granting institution
degrees of comparison
derhydrated alcohol
derhydrated foods
de gratia
dei plenus
deon circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
dejá vu
dejuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
deleb palm
delegated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
deliberate upon
deliberately provoked
deliberative assembly
deliberative body
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium muscitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinate
dentato-
denti-
dentil band
dentist's chair
dento-
denuded of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic acid
depart from
depart from the prepared text
depart this life
departed spirit
departed this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
derpicting in the imagination
depletion allowance
depONENT verb
depoRT yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
depraVED appetite
deprecate yourself
depreciate yourself
depreciation charge
depress the scales
depressed arch
depressed area
depressed class
der-doing
derailing switch
derb fine
dereistic thinking
derivable from
derivation from
derivative action
derivative title
derive from
derive pleasure from
derived authority
derived curve
derived four-channel system
derived function
derived set
derived unit
derived from
derm-
dermat-
dermato-
dermato-autoplasty
dermo-
dermoid cyst
dernier cn
dernier cri
dernier ressort
derogate from
derrick block
derrick boat
derrick boatman
derrick car
derrick chain
derrick crab
derrick crane
derrick elevator
derrick engine
derrick floor
derrick floorman
derrick forge
derrick fork
derrick hoist
derrick hoist
derrick lamp
derrick lamp
derrick maker
derrick making
derrick mast
derrick master
derrick sheaves
derrick sill
derrick skid
derrick skip
derrick spring
derrick stacker
derrick stool
derrick stove
derrick timber
derrick tower
derrick truck
derrick wheel
derring do
derry-down
des-
descent clef
descant viol
descend from
descend on
descend to particulars
descend upon
descending node
descension theory
descent cast
descent on
descent upon
describe a circle
descriptive clause
descriptive geometry
descriptive grammar
descriptive linguistics
desert boots
desert cat
desert cooler
desert fathers
desert fox
desert iguana
desert island
desert kumquat
desert lark
desert lemon
desert lily
desert lynx
desert oak
desert of time
desert palm
desert pea
desert plant
desert poisonbush
desert polish
desert rat
desert rod
desert saints
desert she-oak
desert ship
desert soil
desert trumpet flower
desert trumpeter
desert under fire
desert varnish
desert weed
desert willow
desert your principles
desert-bred
desert-locked
desert-wearied
desertion of principle
desertion under fire
deserts of vast eternity
deserve punishment
design bedding
design body
design load
designate a proxy
designate an agent
desire body
desire concentration
desire for knowledge
desire for yourself
desire guidance
desires of the flesh
desiring water
desirous of
desirous to
desist from
desistquit it
desk calendar
desk clerk
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxynucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
derouter escort
derover leader
derover tender
derover wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
deuces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deuto-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deviation card
deviation factor
deviation warranty
devil bolt
devil carriage
devil chaser
devil dance
devil dancer
devil dancing
devil dog
devil dogs
devil grass
devil incarnate
devil lore
devil murder
devil of a
devil ray
devil take
devil to pay, the
devil worship
devil worshiper
devil worshipping
devil's advocate
devil's bit
devil's bones
devil's books
devil's claw
devil's coach-horse
devil's darning needle
devil's dung
devil's dust
devil's food cake
devil's grip
devil's guts
devil's ivy
devil's mark
devil's milk
devil's own luck
devil's paintbrush
devil's tattoo
devil's-bit
devil's-bones
devil's-ivy
devil's-pincushion
devil's-tongue
devil's-walking-stick
devil-born
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-careness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils' chorus
devils-on-horseback
devoid of
devoid of truth
devolve on
devolve upon
devote the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
devoted friend
devoted friendship
devoted to
devoted to studies
devotee of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-bespattered
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dripped
dew-dropping
dew-drunken
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dextr-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro-
dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l-qa'dah
di grado in grado
di majores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexa hedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetyl morphine
diachronic linguistics
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
dially-
dialysis machine
dialytic method
diameter tape
diametrically opposite
damido-
damine dye
damine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond cut diamond
diamond dash
diamond die
diamond digger
diamond digging
diamond dresser
diamond drill
diamond dust
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-paned
diamond-point
diamond-point spoon
diamond-pointed
diamond-producing
diamond-shaped
diamond-skin disease
diamond-snake
diamond-tiled
diamond-tipped
diamondback moth
diamondback rattlesnake
diamondback terrapin
diamondback watersnake
diamyl sulfide
diapason diapente
diapason ditone
diapason normal
diapason normal pitch
diapason pitch
diaper pattern
diaper rash
diaper service
diaphragm current
diaphragm gauge
diaphragm motor valve
diaphragm process
diaphragm pump
diaphragm shutter
diaphragm valve
diarrhea of the mouth
diaspore clay
diastolic hypertension
diathermic treatment
diathermy machine
diatomaceous earth
diatonic interval
diatonic scale
diatonic semitone
diaz-oxide
diazo dye
diazo group
diazo process
diazo radical
diazo reaction
diazo-
diazoamino group
diazoamino radical
diazonium compound
diazonium salt
dib-hole
dibasic sodium phosphate
dibbuks dibbukim
dibutyl oxalate
dibutylamino-propanol
dicarbo-
dicarboxylic acid
dice coal
dice cup
dice roll
dice throws
dice-box
dice-top
dich-
dichloramine-t
dichlorodiethyl formal
dichlorodiethyl sulfide
dichloroethyl formal
dichloroethyl sulphide
dichlorophenoxyacetic acid
dicho-
dichro-
dichromatic vision
dichromatic acid
dicing board
dick test
dickey box
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non
dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
diesinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
different breed of cat
different story
different thing
differential analyzer
differential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
diffuse reflection
diffuse-porous
diffused junction
diffused lighting
diffusing screen
diffusion air pump
diffusion battery
diffusion chamber
diffusion coefficient
diffusion juice
diffusion process
diffusionist theory
dig around for
dig at
dig for
dig in
dig in your heels
dig into
dig out
dig up
dig up the past
dig you in the ribs
dig your heels in
dig your own grave
digest medium
digest of law
digested securities
digester tankage
digestive biscuit
digestive gland
digestive juice
digestive secretion
digestive secretions
digestive system
digger wasp
digging weight
digital clock
digital computer
digital data reducing system
digital differential analyzer
digital examination
digital feedback control
digital general purpose computer
digital graph plotter
digital process
digital watch
digitato-palmate
digitato-pinnate
digiti-
digito-
diglycolic acid
diglycollic acid
dihedral angle
dihydric alcohol
diisobutyl phthlate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilute acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sheeted
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglycergic acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
diplo-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
dipping house
dipping ladle
dipping lug
dipping lugsail
dipping needle
dipping oil
dipping paint
dipping pan
dipping paper
dipping process
dipping rack
dipping rod
dipping room
dipping table
dipping tank
dipping the colors
dipping the ensign
dipping tub
dipping tube
dipping works
dipping-needle
dipsey lead
dipsey line
dipsy-doodle
dire necessity
dire wolf
direct access
direct action
direct actionist
direct apprehension
direct attention to
direct black
direct blue
direct broadcast
direct brown
direct communication
direct costs
direct cotton dye
direct current
direct current motor
direct democracy
direct discourse
direct distance dialing
direct dye
direct evidence
direct examination
direct fire
direct grant school
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-geared

direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
direction tensor
direction test
direction theodolite
direction transmission
direction-finder station
directional antenna
directional derivative
directional gyro
directional signal
directional stability
directive therapy
director circle
director curve
director general
director plane
director regulus
director sphere
director's chair
director-general
directors general
directory arrangement
directory canvasser
dirigible balloon
dirigible torpedo
dirigo-motor
diriment impediment
dirk knife
dirt band
dirt bed
dirt cheap
dirt dauber
dirt eating
dirt farm
dirt farmer
dirt farming
dirt groove
dirt poor
dirt road
dirt wagon
dirt-besmeared
dirt-born
dirt-cheap
dirt-fast
dirt-flinging
dirt-free
dirt-grimed
dirt-incrusted
dirt-line
dirt-rotten
dirt-smirched
dirt-soaked
dirty allan
dirty bomb
dirty crack
dirty deal
dirty dig
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discar- nate
discernment of excellence
discharge lamp
discharge potential
discharge printing
discharge the duties of
discharge the functions of
discharge the office of
discharge tube
discharge valve
discharge your duty
discharge your function
discharger cup
discharging arch
discharging cargo
discharging freight
discharging pallet
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
disconnecting switch
discontinuance wage
discontinuity layer
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resisting
disease-spreading
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disgustingly rich
dish bearer
dish cleaner
dish cover
dish designer
dish drainer
dish feed
dish fit for a king
dish gravy
dish it out
dish maker
dish mop
dish mustard
dish night
dish out
dish plate
dish rack
dish reflector
dish the dirt
dish top
dish towel
dish truck
dish up
dish wagon
dish warmer
dish-crowned
dish-faced
dish-headed
dish-shaped
dishcloth gourd
dished keel
dishonest person
dishonorable discharge
dishonored bill
dishpan hands
disinclination to believe
disinclination to communicate
disincline from
disinclined to believe
disinclined to communicate
disinfecting candle
disintegration series
disjecta membra
disjoin yourself
disjunctive conjunction
disk armature
disk barrow
disk bit
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dismissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispossessed of
disputed election
disregard the law
disreputable person
disruptive discharge
dissecting microscope
dissecting table
dissector tube
dissel-boom
disseminated sclerosis
disseminated tuberculosis
dissent from
dissenting opinion
dissipate your illusions
dissipation trail
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
diving rod
divining stick
divinity calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
doa bit
doa bunk
doa comparative study
doa deal
doa disservice
doa fade-out
doa favor
doa flip-flop
doa good deed
doa good turn
doa grave injustice
doa great wrong
doa gross injustice
doa hand's turn
doa hitch
do a kind deed
do a kindness
do a land-office business
do a lick of work
do a mischief
do a number on
do a repeat
do a right-about-face
do a service
do a slow burn
do a stint
do a strip-tease
do a tour
do a tour of duty
do a turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a frazzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your darndest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adj
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell's solution
doberman pinscher
dobson fly
do-ch-an-dorrach
do-ch-an-dorris
do-ch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-walloper
dock-walloping
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
doctrine of inference
doctrine of terms
doctrine of the judgment
document bill
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecanoic acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doebling oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandelion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog grate
dog harness
dog hip
dog hobble
dog hood
dog hook
dog hospital
dog hysteria
dog in the manger
dog iron
dog it
dog kennel
dog laurel
dog leech
dog letter
dog license
dog lichen
dog life
dog lily
dog louse
dog lover
dog meat
dog mercury
dog mint
dog muzzle
dog nail
dog nap
dog nettle
dog owl
dog owner
dog paddle
dog parsley
dog plum
dog poison
dog pound
dog race
dog racing
dog reed
dog robber
dog robbing
dog rose
dog rowan tree
dog salmon
dog screw
dog seal
dog shark
dog show
dog sled
dog sledge
dog sleigh
dog snapper
dog soap
dog spike
dog standard
dog star
dog stealing
dog stinkhorn
dog tag
dog tansy
dog tapeworm
dog tax
dog tent
dog the footsteps of
dog thistle
dog thorn
dog tick
dog tongue
dog town
dog track
dog train
dog trainer
dog training
dog tree
dog tune
dog violet
dog wagon
dog warden
dog warp
dog watch
dog wheat
dog wheel
dog whelk
dog whip
dog whistle
dog winkle
dog wrench
dog's age
dog's chance
dog's letter
dog's life, a
dog's-bane
dog's-ear
dog's-eared
dog's-meat
dog's-tail
dog's-tail grass
dog's-tongue
dog's-tooth
dog's-tooth check
dog's-tooth violet
dog-banner
dog-bitten
dog-bramble
dog-brier
dog-cart
dog-catcher
dog-cheap
dog-day cicada
dog-days
dog-draw
dog-drawn
dog-driven
dog-ear
dog-eared
dog-eat-dog
dog-end
dog-eyed
dog-faced
dog-fennel
dog-fish
dog-fisher
dog-fly
dog-footed
dog-fox
dog-gnawn
dog-gone
dog-grass
dog-head
dog-head hammer
dog-head spike
dog-headed
dog-hole
dog-hook
dog-hungry
dog-hutch
dogtooth spar
dogtooth star grass
dogtooth violet
dogtown grass
dogwood family
dogwood poisonbush
doing business
doing nicely
dolce far niente
dolce vita
dole cupboard
dole meadow
dole out
dolich-
doling out
doll baby
doll carriage
doll hospital
doll maker
doll out
doll up
doll's house
doll-faced
doll-like
dollar acceptance
dollar averaging
dollar bill
dollar bond
dollar chaser
dollar cost averaging
dollar crisis
dollar debenture
dollar deficit
dollar diplomacy
dollar exchange
dollar gap
dollar imperialism
dollar loan
dollar mark
dollar shortage
dollar-a-year man
dollars to doughnuts
donned up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliary visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domineer over
dominical altar
dominical letter
domination day
domination rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don't lose any sleep over it
don't make waves
don't rock the boat
don't spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
donkey jacket
donkey pump
donkey puncher
donkey sled
donkey tender
donkey topsail
donkey vote
donkey's ears
donkey's years
donkey's years ago
donkey-drawn
donkey-eared
donkey-work
donnybrook fair
doob grass
doom palm
doom ring
doom to
doom to perdition
doom tree
doomed hope
doomed hopes
doon-head-clock
do bed
door chain
door check
door closer
door fastener
door finisher
door fitter
door furniture
door grass
door handle
door hanger
door hasp
door hinge
door jack
door key
door knocker
door latch
door lock
doork maker
doork mat
doork matting
doork money
doork opener
doork prize
doork scraper
doork spring
doork stile
doork strap
doork switch
doork to door
doork track
doork trap
doork trapper
door-roller
door-shaped
door-to-door
door-to-door salesman
dooryard grass
dooryard plantain
donkey doctor
dopeco reaction
dopeco fiend
dopeco off
dopeco out
dopeco pusher
dopeco sheet
dopeco smuggling
dopeco story
dopeco up
dopeco, the
dopeco, the doppler effect
dogenic bee
dogenic bug
dogenic fly
dogenic-fly
dorang gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorsal

dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acro stint
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double cloth
double coconut
double concerto
double contingency
double contraoctave
double corposant
double counterpoint
double cream
double crochet
double cross
double crown
double cup
double dagger
double dare
double date
double decomposition
double demy
double diode
double dome
double dot
double double cap
double dresser
double drift
double dummy
double eagle
double elephant
double end
double ender
double entendre
double entendres
double entente
double entry
double exposure
double fault
double feature
double first
double flat
double flower
double foolscap
double for
double fueler
double fugue
double genitive
double glazing
double half-round file
double harness
double helix
double hitch
double hyphen
double image
double in brass
double indemnity
double integral
double jeopardy
double jump
double luff tackle
double magnum
double march
double meaning
double monastery
double mordent
double negative
double obelisk
double or mutual change
double or nothing
double or quits
double orange daisy
double over
double paddle
double pair royal
double pedal point
double personality
double piece
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double sprit
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-beat valve
double-bedded
double-bell euphonium
double-benched
double-biting
double-bitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasted jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-buttoned
double-chain sling
double-charge
double-check
double-chinned
double-clasping
double-claw
double-clutch
double-coated film
double-concave
double-convex
double-creme
double-crested
double-crested cormorant
double-crop
double-cropped
double-cropping
double-cross
double-crosser
double-crossing
double-cup insulator
double-cupped
double-current generator
double-current signaling
double-cut
double-cut file
double-cut saw
double-cylinder planer
double-dare
double-date
double-dated
double-dating
double-dealer
double-dealing
double-deck
double-decked
double-decker
double-decker sandwich
double-declutch
double-disk
double-disk harrow
double-distilled
double-ditched
double-dodge
double-dog dare
double-dome
double-doored
double-dot display
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-hearted
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leaded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted andretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-riveted
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
double-tongue
double-tongued
double-tonguing
double-tooth
double-track
double-trenched
double-trouble
double-truck heading
double-twisted
double-u
double-visaged
double-voiced
double-windowed
double-winged
double-work
double-worked
doubleness of heart
doubles ententes
doublet pattern
doubt not
doubt the truth of
doubt your word
doubt yourself
doubt-beset
doubt-cherishing
doubt-dispelling
doubt-excluding
doubt-harboring
doubt-ridden
doubt-sprung
doubt-troubled
doubting Thomas
doubting mania
doubting thomas
douceur de vivre
douche bag
dough bird
dough brake
dough kneader
dough mixer
dough stage
dough-baked
dough-bird
dough-boy
dough-colored
dough-dividing
dough-face
dough-faced
dough-kneading
dough-mixing
dough-trough
doughnut tire
douglas fir
doum palm
dousing chock
dousing-chock
dove blue
dove color
dove dock
dove gray
dove hawk
dove of peace
dove plant
dove pox
dove tick
dove-colored
dove-eyed
dove-gray
dove-shaped
dover grass
dover's powder
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
down-gyved
down-hip
down-house
down-in-the-mouth
down-lead
down-lying
down-market
down-payment
down-reaching
down-river
down-soft
down-talk
down-the-line
down-to-date
down-to-earth
down-to-earthness
down-trending
down-valley
down-wash
downat-the-heel
downdraft kiln
downfeed system
downing of arms
downside-up
downward mobility
downward motion
downward trend
downwash angle
downwind leg
downy mildew
downy oat grass
downy sleep
downy woodpecker
downy-cheeked
downy-clad
downy-feathered
downy-fruited
downy-winged
dowse for water
dowse sail
dowsing chock
dowsing rod
doze off
drap
drab-breeched
drab-coated
drab-colored
drab-tinted
drabble in the mud
dracaena palm
draco lizard
draconic month
draft act
draft allowance
draft animal
draft beer
draft board
draft box
draft call
draft chair
draft dodger
draft engine
draft evener
draft gauge
draft gear
draft horse
draft lottery
draft mark
draft mill
draft net
draft off
draft pin
draft rein
draft rod
draft scale
draft tube
draft-exempt
drafted man
drafting board
drafting paper
drafting room
drafting yard
drag a lengthening chain
drag along
drag anchor
drag at your chariot wheel
drag axis
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dragger-down
dragger-out
dragger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
drag-gle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
dragon plant
dragon tie
dragon tree
dragon turnip
dragon withe
dragon's blood
dragon's head
dragon's tail
dragon's-tongue
dragon-eyed
dragon-faced
dragon-fly
dragon-mouthing
dragon-ridden
dragon-root
dragon-tree
dragon-winged
dragon-bird
drain arm
drain away
drain cleaner
drain cock
drain cup
drain digger
drain exhaustor
drain faucet
drain grate
drain inlet
drain layer
drain of color
drain of resources
drain off
drain out
drain pit
drain pump
drain repairer
drain rocket
drain spade
drain tester
drain the cup
drain trap
drain tube
drain valve
drain well
drainage area
drainage basin
drainage benefit
drainage canal
drainage coefficient
drainage cycle
drainage district
drainage gate
drainage inlet
drainage inspector
drainage level
drainage pipe
drainage pit
drainage pump
drainage shaft
drainage system
drainage theory
drainage tile
drainage trap
drainage tube
drainage tunnel
drainage well
drainage wind
drained of color
draining board
draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
drama-writing
dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drap-de-berry
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
draw yourself up
draw-
draw-arch
draw-bar
draw-boy
draw-bridge
draw-cut
draw-file
drawing paper
drawing pen
drawing pencil
drawing pin
drawing pliers
drawing power
drawing press
drawing punch
drawing room
drawing rooms
drawing shave
drawing slate
drawing string
drawing table
drawing thread
drawing too thin
drawing-in
drawing-knife
drawing-master
drawing-out
drawing-room
drawing-room car
drawing-roomy
drawings-in
drawn butter
drawn butter sauce
drawn out
drawn to
drawn work
drawn-out
drawn-thread work
drawn-work
dray horse
dread rattling thunder
dread-bolted
dread-bolted thunder
dream allegory
dream analysis
dream book
dream dance
dream girl
dream life
dream light
dream name
dream of
dream of other things
dream on
dream state
dredge pontoon
dredge pump
dredge rope
dredge up
dredger bucket
dredging box
dredging bucket
dredging machine
dree-draw
dregs of society
drenched with sweat
drenching rain
dress blues
dress cap
dress circle
dress coat
dress designer
dress down
dress face
dress form
dress goods
dress in
dress out
dress parade
dress rehearsal
dress sheers
dress shield
dress ship
dress shirt
dress shop
dress suit
dress the hair
dress the house
dress the wounds
dress tie
dress to kill
dress uniform
dress up
dress whites
dress-coated
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
dressed up
dresser cutter
dresser set
dresser spindle
dresser spooler
dresser top
dresser trunk
dressing case
dressing down
dressing forceps
dressing glass
dressing gown
dressing jacket
dressing room
dressing sack
dressing ship
dressing station
dressing table
dressing-board
dressing-case
dressing-down
dressmaker's model
dribble away
driblet cone
dribbs and drabs
dried beef
dried milk
dried up
dried-fruit beetle
dried-up
drier-down
drift along
drift anchor
drift angle
drift avalanche
drift away
drift boat
drift bottle
drift copper
drift fisher
drift ice
drift indicator
drift keel
drift lead
drift map
drift meter
drift mine
drift mining
drift net
drift netter
drift off course
drift plug
drift sail
drift sight
drift slide
drift transistor
drift tube
drift wire
drift with the current
drift-ice
drift-netter
drift-wood
driggle-draggle
drill attachment
drill barrel
drill barrow
drill bit
drill block
drill book
drill bow
drill bushing
drill cartridge
drill case
drill changer
drill chuck
drill clamp
drill cleaner
drill cloth
drill collar
drill collet
drill corps
drill cutter
drill cylinder
drill day
drill drift
drill driver
drill engine
drill extension
drill extractor
drill feeder
drill file
drill fluter
drill gauge
drill grinder
drill ground
drill hall
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drip board
drip box
drip cap
drip cock
drip coffee
drip coffee maker
drip cup
drip grind
drip groove

- drip joint
- drip loop
- drip molding
- drip oil
- drip pan
- drip pipe
- drip pocket
- drip primrose
- drip sheet
- drip tank
- drip tip
- drip transfusion
- drip tray
- drip treatment
- drip trough
- drip valve
- drip-dried
- drip-drip
- drip-drop
- drip-dry
- drip-drying
- drip-ground
- dripping pan
- dripping point
- dripping wet
- drive a bargain
- drive a hard bargain
- drive a roaring trade
- drive ahead
- drive an entering wedge
- drive animals
- drive at
- drive away
- drive back
- drive crazy
- drive dull care away
- drive fit
- drive from your thoughts
- drive home to
- drive in
- drive insane
- drive into a corner
- drive into the open
- drive into your head
- drive mad
- drive nozzle
- drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
driveling away
driveling idiot
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizzling mist
drof-land
drogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop a tear
drop all idea of
drop anchor
drop arch
drop asleep
drop away
drop bar
drop behind
drop biscuit
drop black
drop bolt
drop bomb
drop bottom
drop box
drop by
drop by drop
drop cannon
drop chalk
drop chronograph
drop cloth
drop cooky
drop cord
drop curtain
drop dead
drop down
drop ear
drop elbow
drop ell
drop fly
drop folio
drop forge
drop forging
drop frame
drop from sight
drop from the clouds
drop from your thoughts
drop front
drop game
drop girt
drop glass
drop goal
drop guide
drop hammer
drop hammerman
drop handle
drop hanger
drop head
drop in
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drop stroke
drop sulphur
drop table
drop tank
drop tee
drop testing machine
drop the ball
drop the curtain
drop the handkerchief
drop the hook
drop the mooring
drop the subject
drop to pieces
drop valve
drop vie
drop weight
drop window
drop wire
drop worm
drop your eyes
drop your gaze
drop your guard
drop zinc
drop-
drop-away
drop-bottom bucket
drop-center rim
drop-earred
drop-forged
drop-forger
drop-forging
drop-forging die
drop-front
drop-kick
drop-kicker
drop-leaf
drop-leaf table
drop-leg
drop-letter
drop-meal
drop-off
drop-out
drop-out current
drop-out voltage
drop-scene
drop-shaped
drop-stich
drophead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
drove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drum as a fiddler
drum as a lord
drum as a piper
drum as an owl
drunkard's chair
drunken brawl
drunken carousel
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-blowing
dry-bone ore
dry-boned
dry-bones
dry-brush
dry-bulb thermometer
dry-burnt
dry-clean
dry-cleanse
dry-cleansed
dry-cleansing
dry-cure
dry-curing
dry-dock
dry-dye
dry-eared
dry-eyed
dry-farm
dry-fine
dry-fist
dry-fly
dry-fly fishing
dry-foot
dry-footed
dry-footing
dry-founder
dry-fruited
dry-grind
dry-gulch
dry-handed
dry-heat cure
dry-ki
dry-land blueberry
dry-land farming
dry-leaved
dry-lipped
dry-looking
dry-mouthed
dry-nurse
dry-nursed
dry-nursing
dry-paved
dry-pick
dry-pipe system
dry-pipe valve
dry-plate process
dry-powder extinguisher
dry-press
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
dryness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duchesse lace
duck acorn
duck and drake
duck and run
duck ant
duck blue
duck breeder
duck bumps
duck call
duck duty
duck egg
duck fit
duck foot
duck grass
duck green
duck gun
duck hawk
duck hunter
duck joint
duck keeper
duck mole
duck moss
duck oak
duck on a rock
duck on drake
duck on the rock
duck out
duck pass
duck pen
duck potato
duck reater
duck responsibility
duck ring
due sense of
due to
dueling pistol
dues-paying member
duff up
duffel bag
duffel coat
duffle coat
dug-out
dug-up
duke cherry
dukey rider
dulcimer harpsichord
dull as dish water
dull as dishwater
dull as ditchwater
dull bitterness of cold
dull hearing
dull of hearing
dull of mind
dull the pain
dull thud
dull tool
dull-brained
dull-browed
dull-colored
dull-eared
dull-edged
dull-eyed
dull-head
dull-headed
dull-headedness
dull-lived
dull-looking
dull-pated
dull-pointed
dull-red
dull-scented
dull-sighted
dull-sightedness
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumb creature
dumb friend
dumb rabies
dumb sheave
dumb show
dumb stricken
dumb struck
dumb thing to do
dumb trick
dumb up
dumb with grief
dumb-bell
dumb-bird
dumb-cane
dumb-show
dumb-struck
dumb-waiter
dumble-
dumdum bullet
dumdum fever
dummy antenna
dummy block
dummy car
dummy cartridge
dummy cop
dummy experiment
dummy index
dummy joint
dummy pass
dummy share
dummy up
dummy variable
dummy whist
dunderies
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodio-dio-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
dust count
dust counter
dust cover
dust devil
dust down
dust exhaust
dust extractor
dust furrow
dust gun
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-laying
dust-point
dust-polluting
dust-producing
dust-soiled
dust-throwing
dust-tight
dust-up
duster coat
duster-off
dusting brush
dusting colors
dusting powder
dusting-powder
dusty clover
dusty death
dusty miller
dutch clover
dutch courage
dutch door
dutch elm disease
dutch hoe
dutch lunch
dutch oven
dutch treat
dutch uncle
duties and responsibilities
duty calls you to
duty officer
duty visit
duty-bound
duty-free
duty-free shop
dvi-manganese
dwarf Japanese quince
dwarf Juneberry
dwarf alder
dwarf banana
dwarf bean
dwarf chestnut
dwarf cornel
dwarf crested iris
dwarf door
dwarf fan palm
dwarf ginseng
dwarf goldenrod
dwarf laurel
dwarf mallow
dwarf meadow grass
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dyewood cutter
dyewood extract
dyewood grinder
dyewood liquor
dyewood miller
dying away
dying breath
dying day
dying down
dying for
dying hour
dying off
dying to
dying word
dying words
dynam-
dynamic economics
dynamic electricity
dynamic energy
dynamic geology
dynamic lift
dynamic markings
dynamic meteorology
dynamic microphone
dynamic pressure
dynamic psychology
dynamic speaker
dynamic stability
dynamic symmetry
dynamic wind rose
dynamical astronomy
dynamical stability
dynamite bomb
dynamite cap
dynamite glycerin
dynamite gun
dynamite maker
dynamite mixer
dynamite thawer
dynamo belting
dynamo brush
dynamo casting
dynamo commutator
dynamo erecter
dynamo lubricator
dynamo winder
dynamo-
dynamometric governor
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-
eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
eagle fern
eagle flower
eagle gull
eagle hawk
eagle lectern
eagle owl
eagle plume
eagle ray
eagle rock
eagle scout
eagle vulture
eagle wing
eagle-billed
eagle-eyed
eagle-flighted
eagle-hawk
eagle-headed
eagle-pinioned

eagle-seeing
eagle-sighted
eagle-winged
eagle-wood
ear conch
ear cornet
ear coverts
ear crystal
ear drops
ear dust
ear flap
ear fly
ear for music
ear for, an
ear fungus
ear guard
ear index
ear leaf
ear lobe
ear mold
ear muff
ear of corn
ear off
ear piercer
ear reach
ear rot
ear sand
ear shell
ear snail
ear specialist
ear stone
ear tag
ear tick
ear tree
ear trumpet
ear wagon
ear, nose, and throat specialist
ear-ache
ear-brisk
ear-cockie
ear-deafening
ear-filling
ear-leaved
ear-mark
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earn a bad name
earn a livelihood
earn a living
earn your keep
earned income
earned run
earned run average
earned surplus
earnest money
earnest-penny
earning grass
ears more deaf than adders
earth almond
earth apple
earth art
earth artist
earth auger
earth battery
earth bob
earth bread
earth cell
earth chestnut
earth circuit
earth closet
earth club
earth color
earth colour
earth crab
earth crust
earth current
earth division
earth dweller
earth flax
earth flea
earth foam
earth goddesses
earth hog
earth hole
earth house
earth hunger
earth induction compass
earth inductor compass
earth ivy
earth life
earth lodge
earth louse
earth metal
earth metals
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth plate
earth plum
earth quadrant
earth science
earth smoke
earth spirit
earth spring
earth stopper
earth table
earth tide
earth tilting
earth tone
earth tremor
earth up
earth wave
earth wax
earth wire
earth wolf
earth's crust
earth-apple
earth-ball
earth-board
earth-born
earth-bound
earth-boundness
earth-convulsing
earth-delving
earth-destroying
earth-devouring
earth-din
earth-dwelling
earth-eating
earth-engendered
earth-fed
earth-god
earth-goddess
earth-homing
earth-light
earth-lit
earth-mad
earth-moving
earth-nut
earth-old
earth-refreshing
earth-rendering
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthnut oil
earthquake insurance
earthquake-proof
ease in
ease matters
ease of belief
ease off
ease one of
ease out
ease the helm
ease the rudder
ease up
ease up to
ease your load
ease yourself
ease-off
ease-up
easel-picture
easement curve
easier said than done
easily attained
easily first
easily reached
easily taken in
easily understood
easing of relations
easing of the load
easing of the way
easing sparrow
east Greenland current
east by north
east by south
east india
east indian
east Indies
east wind
east-country
east-end
east-northeast
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crow
eat dirt
eat heartily
eat heartily

eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
ec-
ecaille work
ecca leobion
ecce homo
ecce signum
eccle grass
ecclesi-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
ecclesiastico-secular
eccrine gland
echelette grating
echelle grating
echelon grating
echelon lens
echin-
echino-
echo attachment
echo back
echo chamber
echo organ
echo pulse
echo signal
echo sounder
echo sounding
echoic word
eclectic medicine
eclipse breeze
eclipse plumage
eclipsing binary
eclipsing variable
eco-
ecological niche
ecological psychology
economic authority
economic blindness
economic class
economic community
economic cycle
economic determinism
economic determinist
economic expansion
economic expert
economic geography
economic geology
economic good
economic growth
economic man
economic planning
economic poison
economic rent
economic science
economic self-sufficiency
economic stagnation
economic strike
economic support
economic system
economic warfare
economical of words
economics in action
economy class
economy coil
economy of assumption
economy of language
economy of means
economy of words
economy prices
economy size
economy wall
ecrevisse de mer
ecrue silk
ect-
ecto-
ectopic pregnancy
ecumensal council
ecumensal movement
ecumensal patriarch
ecumensal patriarchate
ed-
eddy chamber
eddy current
eddy-current brake
eddy-wind
edge effect
edge in
edge iron
edge joint
edge molding
edge off
edge out
edge plane
edge tool
edge tools
edge up to
edge-bone
edge-grain
effective current
effective electromotive force
effective force
effective horsepower
effective pitch
effective rejoinder
effective resistance
effective sound pressure
effective style
effector organ
effeminate male
efferent neuron
efficiency apartment
efficiency engineer
efficiency engineering
efficiency expert
efficient cause
effigy mound
efflux tube
effort syndrome
effusion balance
effusive rock
efwatakala grass
egads button
egg albumen
egg albumin
egg and anchor
egg and dart
egg and spoon race
egg and tongue
egg apparatus
egg cell
egg coal
egg cozy
egg cream
egg cup
egg drop soup
egg flip
egg foo yong
egg glass
egg in your beer
egg on
egg roll
egg rolling
egg salad sandwich
egg sauce
egg sleeker
egg slice
egg spoon
egg stone
egg tempera
egg timer
egg tooth
egg white
egg whites
egg-and-spoon race
egg-bound
egg-nog
egg-plant
egg-shaped
egg-shell
egg-white
egg-white injury
eggdrop soup
eggs Benedict
eggshell blue
eggshell china
eggshell porcelain
eegy-hot
ego defense
ego defenses
ego ideal
ego trip
ego-id conflict
ego-involve
ego-libido
ego-trip
egoistic ethics
egoistic hedonism
egregious ass
egressAstronomy
egret monkey
egyptian cotton
egypto-
eider down
eider duck
eider yarn
eider-down
eidetic image
eidetic imagery
eidetic memory
eigen-
eight ball
eight bells
eight cut
eight o'clock
eight-angled
eight-armed
eight-ball antenna
eight-celled
eight-cylinder
eight-day
eight-flowered
eight-gauge
eight-hour
eight-oar
eight-oared
eight-ply
eight-quarter cap
eight-spot
eight-square
eight-wheeler
eighter from Decatur
eightfold way
eighth note
eighth rest
eighth stock
eightsome reel
eighty-eight
eighty-eighth
eighty-fifth
eighty-first
eighty-five
eighty-four
eighty-fourth
eighty-nine
eighty-niner
eighty-ninth
eighty-one
eighty-second
eighty-seven
eighty-seventh
eighty-six
eighty-sixth
eighty-third
eighty-three
eighty-two
eis wool
either or
either-or
ejection capsule
ejection seat
ejector seat
eka-aluminum
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
elder wine
elder-born
elder-brother
elder-leaved
elder-sister
elderberry wine
eldest hand
eldest of things
eldest-born
elec cement
elected by acclamation
election board
election district
election fraud
election returns
elective operation
electoral college
electoral district
electoral vote
electr-
electra complex
electric arc
electric attraction
electric beaver
electric blanket
electric blue
electric brougham
electric cable
electric candle
electric capacitance
electric car
electric chair
electric charge
electric circuit
electric clock
electric column
electric conduction
electric constant
electric cooker
electric cord
electric current
electric detonator
electric dipole moment
electric discharge
electric drill
electric driller
electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electric fish
electric flow
electric frying pan
electric furnace
electric fuse
electric gain
electric glow
electric guitar
electric hammer
electric hare
electric heat
electric heater
electric heating
electric horsepower
electric intensity
electric iron
electric lamp
electric light
electric light bulb
electric lighting
electric meter
electric meters
electric mole
electric motor
electric needle
electric organ
electric pad
electric polarity
electric potential
electric power
electric railway
electric range
electric ray
electric razor
electric reactor
electric refrigeration
electric refrigerator
electric repulsion
electric resistance
electric riveter
electric roaster
electric sander
electric saw
electric seal
electric shaver
electric shock
electric soldering iron
electric spark
electric storm
electric stove
electric stream
electric switch
electric telegraph
electric thermometer
electric toaster
electric torch
electric train
electric typewriter
electric unit
electric units
electric wave
electric welder
electric wind
electric wire
electric-arc furnace
electric-arc lamp
electric-discharge lamp
electric-discharge tube
electric-drive
electric-heat
electric-heated
electric-lighted
electric-powered
electrical capacity altimeter
electrical communication
electrical degree
electrical device
electrical engineer
electrical engineering
electrical governor
electrical part
electrical parts
electrical parts and devices
electrical scanning
electrical science
electrical storm
electrical transcription
electricity meter
electro-
electro-biology
electro-discharge machining
electro-magnet
electro-optical effect
electro-organic chemistry
electro-osmosis
electro-osmotic
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electroluer switch
electrolytic capacitor
electrolytic cell
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electromagnetic lifting magnet
electromagnetic moment
electromagnetic pump
electromagnetic radiation
electromagnetic speaker
electromagnetic spectrum
electromagnetic tape
electromagnetic unit
electromagnetic wave
electromechanical controller
electromotive force
electromotive series
electron accelerator
electron affinity
electron beam
electron camera
electron capture
electron cloud
electron diffraction
electron dynamics
electron emission
electron flow
electron gas
electron gun
electron layers
electron lens
electron magnetic spectroscope
electron micrograph
electron microscope
electron microscopy
electron movement
electron multiplier
electron optics
electron pair
electron physics
electron probe microanalysis
electron ray
electron shells
electron shower
electron spin
electron spin resonance
electron state
electron stream
electron telescope
electron theory
electron theory of atoms
electron theory of electricity
electron theory of solids
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic communication
electronic communications
electronic comparator
electronic computer
electronic computers
electronic control
electronic cop
electronic counter
electronic data processing
electronic detector
electronic device
electronic devices
electronic drum
electronic effect
electronic emission
electronic engineering
electronic fix
electronic flash
electronic fuel gauge
electronic hearing aid
electronic heater
electronic heating
electronic limit gauge
electronic meter
electronic meters
electronic music
electronic navigation
electronic nutcracker
electronic organ
electronic oscillator
electronic pilot
electronic potentiometer
electronic precipitator
electronic recorder
electronic refrigeration
electronic refrigerator
electronic revolution
electronic scanning
electronic servo
electronic stenciling machine
electronic stethoscope
electronic surveillance
electronic switch
electronic switching
electronic testing
electronic testing equipment
electronic timer
electronic tube
electronic typewriter
electronic voltmeter
electronic-flash unit
electronic-mechanical control
electronics dictionary
electronics engineer
electronics king
electronics physicist
electropneumatic transducer
electroshock therapy
electrostatic field
electrostatic generator
electrostatic inductio
electrostatic induction
electrostatic lens
electrostatic machine
electrostatic precipitation
electrostatic precipitator
electrostatic printing
electrostatic speaker
electrostatic spraying system
electrostatic storage unit
electrostatic tube of force
electrostatic unit
electrotherapeutic treatment
electrotype press
electrovalent bond
elegant penmanship
elegant variation
elegant writer
elegiac couplet
elegiac distich
elegiac pentameter
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
elliptic-leaved
elliptical function
elliptical galaxy
elliptical light
eelliptical polarization
elliptically polarized
elm balsam
elm bark
elm bark beetle
elm blight
elm calligrapha
elm leaf beetle
elm phloem necrosis
elm-leaved
elongato-conical
elongato-ovate
elquent tongue
elude one
elution process
elytr-\em dash\emem dash
em pica
em quad
em space
em-
emanate a smell
emanate from
embaem in the memory
embaemmed corpse
embaemming fluid
embaem in
embaem on
embaem upon
embaemkation deck
embaemras de choix
embaemras de richesses
embaemassed circumstances
embaemassing position
embaemassing situation
embattled grady
embed itself in the mind
ember day
ember goose
emblem book
emblem of authority
embodied in
embody in words
embol-
embossing plate
embrace a belief
embrace reality
embroidery floss
embroidery frame
embroidery needle
embry-
embryo bearer
embryo sac
embryon-
embryonic disk
embryonic layer
embryonic membrane
emerald copper
emerald cut
emerald green
emerald toucanet
emerald-green
emerge from
emergency barrage
emergency boat
emergency brake
emergency control
emergency exit
emergency landing field
emergency landing gear
emergency light
emergency man
emergency money
emergency operation
emergency rations
emergent evolution
emeritus status
emetery belt
emetery board
emony cloth
emony file
emony paper
emony powder
emery rock
emery surfacer
emery wheel
emeto-cathartic
eminence grise
eminent domain
emission current
emission spectrum
emission theory
emit a smell
emit a sound
emitter current
emitter junction capacitance
emitter resistance
emitter signal current
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
empty-cell process
empty-fisted
empty-handed
empty-handedness
empty-headed
empty-headedness
empty-looking
empty-minded
empty-mindedness
empty-mouthed
empty-noddled
empty-paneled
empty-pated
empty-skulled
empty-stomached
empty-vaulted
empty-voiced
emu apple
emu bush
emu grass
emu-wren
emulsion colloid
emulsion paint
en attendant
en avant
en bloc
en brochette
en brosse
en cabochon
en casserole
en clair
en dash
en deshabille
en echelon
en effet
en f
en face
en famille
en garde
en grand seigneur
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
en plein air
en plein jour
en plus
en prise
en quad
en rapport
en regle
en revanche
en route
en route to
en soleil
en space
en suite
en tapinois
en-
enabling act
enact laws
enacting clause
enamel bud
enamel cell
enamel kiln
enamored of
enb-
encased heart
encaustic cerography
encaustic painting
encephal-
encephalitis lethargica
encephalo-
enchanter's nightshade
encircling movement
enclosed order
enclosed space
enclosure act
enclosure wall
encompass with shadow
encounter danger
encounter group
encounter therapy
encroach upon
encyclical letter
encyclopedic knowledge
end around
end artery
end bell
end bulb
end burner
end for end
end game
end in smoke
end in view
end line
end man
end matter
end mill
end of burning
end of debate
end of life
end of steel
end of the earth
end of the line
end of your rope
end of your tether
end off
end on
end organ
end paper
end pin
end plate
end play
end point
end product
end result
end rhyme
end run
end sheet
end stop
end stopping
end stress
end table
end the life of
end to end
end up
end up in smoke
end use
end wrench
end your days
end your life
end zone
end-
end-all
end-blown
end-grain
end-lap joint
end-match
end-measure
end-of-day glass
end-point control
end-rack
end-shrink
end-stopped
end-to-end
end-ways
endeavor to
endeca-
endemic disease
ender-on
ender-up
endgate seeder
endive blue
endless belt
endless chain
endless duration
endless round
endless supply
endless task
endless time
endo salt
endo-
endocentric compound
endocentric construction
endocrine disease
endocrine gland
endoderm disc
endoderm lamella
endogamous group
endomersion lens
endomersion objective
endomorphism ring
endoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endotherm knife
endow with
endow with life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdus
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
engaged column
engaged in thought
engaged tone
engagement book
engagement ring
engine builder
engine cleaner
engine company
engine control
driver controls
cultivator
department
driver
fitter
gauge
house
fitter
maker
making
parts
pilot
rod
room
shop
size
smith
space
tender
turning
work
worker
yard
-driven
officer
room telephone
-sized
-sizer
-turned
-turner
type generator
corps
's chain
's hammer
chemistry
school
of war
breakfast tea
foxhound
horn
muffin
rabbit
setter
shepherd
sonnet
springer
toy spaniel
english walnut
engorgement colic
engrave on
engraved invitation
engraver beetle
engraver's proof
engraver's trick
engraving process
engraving tool
engross the mind
engross the thoughts
engrossed in
engrossed in thought
enharmonic chord
enharmonic diesis
enharmonic interval
enharmonic modulation
enharmonic note
enharmonic scale
enharmonic tetrachord
enharmonic tie
enigma canon
enigmatic canon
enigmatic question
enigmato-
enjoy a certain position
enjoy friendly relations with
enjoy good health
enjoy good relations with
enjoy prosperity
enjoy single blessedness
enjoy the use of
enjoy your own company
enjoy yourself
enjoying health
enjoyment of property
enlarge the mind
enlarge upon
enlist into service
enlist under the banner of
enlisted man
enlisted woman
enmeshed in
ennea-eteric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead

enp-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-
entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
enter-
entered hound
entered through another gate
enteric fever
entering wedge
entero-
entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre deux ages
entre nous
entrenching tool
entrust with information
entry card
enula campana
envelope addresser
envelope bander
envelope case
envelope clasp
envelope designer
envelope die
envelope folder
envelope gummer
envelope holder
envelope maker
envelope moistener
envelope opener
envelope printer
envelope sealer
envelope table
envelope top
envelope weigher
environing circumstances
environing phenomena
environmental conservation
environmental disease
environmental diseases
environmental pollution
environmental resistance
envoy extraordinary
enwrap the thoughts
enwrapped in mystery
enzootic ataxia
eo nomine
eo-
eol-
eolian deposit
eolithic man
ep-
epacris family
epana-
epater le bourgeois
epaulet bat
epaulet sleeve
epalette tree
epenthetic vowel
eph-
ephemeris second
ephemeris time
epi-
epic machinery
epic poet
epic poetry
epic simile
epic theater
epic verse
epicanthic fold
epicyclic train
epicycloidal gear
epicycloidal wheel
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglotto-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
epiphysis cerebri
episcopal ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistle side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epitheli-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equaling file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilateral hyperbola
equilateral triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
equinoctial line
equinoctial point
equinoctial rains
equinoctial storm
equinoctial year
equipartition of energy
equipment bond
equipment note
equipment trust
equipment trust bond
equipment trust certificate
equipoise rudder
equitable estate
equitable interest
equitable jurisdiction
equitime point
equity capital
equity court
equity of redemption
equity security
equity side
equivalence class
equivalence reaction
equivalence relation
equivalent algebras
equivalent circuit
equivalent focal length
equivalent monoplane
equivalent odds
equivalent weight
era of prosperity
erase all doubt
erase from the memory
erasing shield
erce-
erd shrew
ered shrew
ered shrew
er then
erecting prism
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
escapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophageal ulcer
esophageal speech
esophageo-cutaneous
esophageo-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d'escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esse est percipi
esse quam videri
essence d'orient
essence of bergamot
essence of life
essence of mirbane
essence of myrbane
essential amino acid
essential epilepsy
essential facts
essential hypertension
essential matter
essential nature
essential oil
essoin day
essoin roll
est modus in rebus
establish connection
establish residence
established church
established fact
established way
establishing shot
estate agent
estate and effects
estate at sufferance
estate at will
estate car
estate duty
estate for life
estate for years
estate in expectancy
estate in fee
estate in possession
estate in tail
estate manager
estate of freehold
estate of the realm
estate pour autre vie
estate rubber
estate tail
estate tax
estate waggon
estate wagon
ester gum
ester value
esthesia-
estivo-autumnal
esto perpetua
estragon oil
estral cycle
estangelo alphabet
estrous cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et seqq
et sequens
et sic de similibus
et sqq
et tu
etain blue
etalon post
etaoin shrdlu
etch indelibly in the mind
etched glass
etching ball
etching ground
etching needle
etching point
etching silk
etching stitch
etching varnish
eternal damnation
eternal home
eternal life
eternal object
eternal re-creation
eternal recurrence
eternal rest
eternal return
eternal sleep
eternal triangle
eternal universal
eternal verities
eternal youth
eternally the same
eternity ring
eth-
ethane dinitrile
ethanedioic acid
ether drift
ether extract
ether space
ether value
etheric body
etheric double
etheric self
etherin theory
ethical code
ethical drug
ethical formalism
ethical hedonism
ethical nihilism
ethical nihilist
ethical philosophy
ethical relativism
ethical relativist
ethical self
ethical system
ethico-
ethiops martial
ethiops mineral
ethmo-
ethmoid bone
ethnic community
ethnic group
ethnic joke
ethnic music
ethnic vote
ethno-
ethyl acetate
ethyl acetoacetate
ethyl acetone
ethyl alcohol
ethyl aminobenzoate
ethyl butanoate
ethyl butyrate
ethyl caproate
ethyl capronate
ethyl carbamate
ethyl cellulose
ethyl chloride
ethyl ester
ethyl ether
ethyl gas
ethyl group
ethyl hexanoate
ethyl hexoate
ethyl hydride
ethyl malonate
ethyl mercaptan
ethyl methyl ketone
ethyl nitrate
ethyl nitrite
ethyl nitrite spirit
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethylene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
eunuch flute
euonymus scale
eupatorium purple
eupeptic mien
euphoric mien
eur-
eureka red
euro-boreal
europaeo-
european plan
european red mite
eury-
eustachian tube
evacuation ambulance
evacuation hospital
evacuation plane
evacuation station
evade responsibility
evade the issue
evaluative criticism
evans-root
evaporated milk
evaporation gauge
evaporation pan
evaporation tank
evasion of responsibility
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
even-wayed
evener-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychmis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening's calm and holy hour
evening’s close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blazing
ever-blessed
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizzling
ever-dropping
ever-durable
ever-during
ever-during dark
ever-durability
ever-dying
ever-echoing
ever-endingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-gloomingly
ever-goading
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlasting fire
everlasting flower
everlasting moment
everlasting pea
everlasting thorn
everlasting torment
every bit
every bit a
every day
every hour
every inch
every inch a king
every man Jack
every man jack
every moment
every mother's son
every now and then
every once in a while
every one
every one in his turn
every other
every so often
every which way
every whit
every-way
everybody and his uncle
everybody's fool
everything being equal
everything but the kitchen sink
everything that is
everywhere-dense
eveto
eviction clause
evidence in chief
evidence-proof
evil child
evil courses
evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evil-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favoredly
evil-favoredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humbled
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-mindedly
evil-mindedness
evil-mouthed
evil-ordered
evil-piece
evil-qualified
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-thewed
evil-thoughted
evil-tongued
evil-weaponed
evil-willed
evil-won
evoke a response
evoke from the dead
evoked potential
evolutionary change
evolve into
ewe bramble
ewe lamb
ewe teg
ewe-daisy
ewe-gowan
ewe-neck
ewe-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihil nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pede Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex proprietary
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-librism
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
excler lamp
exciting current
excito-motory
exclaim against
exclamation mark
exclamation point
exclamatory adjective
exclamatory noun
exclude from
exclusion clause
exclusion principle
exclusive disjunction
exclusive jurisdiction
exclusive of
exclusive or
exclusive possession
exclusive representation
excruciating pain
excursion steamer
excursion ticket
excuse-me
excused absence
excusing the liberty
exdebito justitiae
exdebito natural
execute a
execute a maneuver
execute a will
execute by firing squad
executive agreement
executive arm
executive branch
executive committee
executive council
executive director
executive editor
executive function
executive hierarchy
executive office
executive officer
executive order
executive plane
executive privilege
executive role
executive secretary
executive session
executive veto
executor dative
exegi monumentum aere perennius
exemplary citizen
exemplary damages
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exeunt omnes
exh-
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exigi facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-
exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
experimental logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenter effect
expert at
expert consultant
expert in
expert in decor
expert rifleman
expert witness
expero credite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
explemenitary angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
exploit your position
exploratory examination
exploratory operation
exploratory ship
explorer tent
exploring element
explosion bomb
explosion engine
explosion insurance
explosion shot
explosion wave
explosion-proof
explosive D
explosive bullet
explosive charge
explosive d
explosive noise
explosive rivet
exponent proposition
exponential distribution
exponential horn
export bar
export credit
export declaration
export point
export reject
export tax
expose itself
expose to infamy
expose to view
expose yourself
expose yourself to
exposed nerve
exposed to
exposed to view
exposed-tube boiler
expository prose
expository scene
expository writing
exposure hazard
exposure index
exposure meter
express a wish for
express an opinion
express belief
express boiler
express buggy
express by words
express car
express delivery
express general agreement
express in words
express intention
express letter
express prejudice
express regret
express rifle
express sympathy for
express the belief
express train
express wagon
express your appreciation
expressed almond oil
expressed desire
expression mark
expression of ideas
expressionistic abstraction
expressionistic abstractionist
expulsion fuse
expunge all doubt
exquisite manners
exsanguination transfusion
exsanguino transfusion
extend an invitation
extend credit
extend out
extend over
extend the right of fellowship
extend the right of friendship
extend throughout
extend to
extend to the side
extend to the sides
extended bond
extended complex plane
extended coverage
extended family
extended order
extended play
extended real number system
extended term insurance
extended-play
extending everywhere
extension bit
extension bolt
extension courses
extension field
extension ladder
extension lathe
extension of time
extension phone
extension rule
extension spring
extension table
extra-
extra-acinous
extra-alimentary
extra-amniotic
extra-analogical
extra-anthropic
extra-articular
extra-artistic
extra-atmospheric
extra-axillar
extra-axillary
extra-base hit
extra-binding
extra-bound
extra-britannic
extra-condensed
extra-dry
extra-european
extra-fare
extra-fine
extra-foraneous
extra-good
extra-hazardous
extra-illustrate
extra-illustration
extra-large
extra-long
extra-mild
extra-parochial
extra-size folio
extra-special
extra-strong
extra-university
extra-urban
extra-uterine pregnancy
extracorporeal dialysis
extract from
extract information
extract printing
extract roots
extract wool
extracted material
extracted matter
extraction of roots
extraction thimble
extraction turbine
extraction wax
extractor fan
eye askance
eye bank
eye bath
eye bone
eye cap
eye catcher
eye color
eye defect
eye dialect
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewing
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinding
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye/popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eyeball inspection
eyeball to eyeball
eyeball-to-eyeball
eyeball-to-eyeball encounter
eyebrow pencil
eyeglass cloth
eyelet hole
eyelet punch
eyelet-hole
eyepiece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
factor of production
factor of safety
factor theorem
factorial stop system
factory belt
factory burden
factory committee
factory cost
factory district
factory farm
factory ledger
factory lumber
factory manager
factory ship
factory system
factory tar
factory town
factory worker
factory-new
facts and figures
facts of life
factual base
factual information
facultative referendum
faculty adviser
faculty members
faculty psychology
faculty theory
fad word
fade away
fade away from the memory
fade in
fade into the distance
fade like a dream
fade like a shadow
fade out
fade-in
fade-out
fade-proof
faded rose
faery-fair
faery-frail
fag end
fag out
fag-end
fagged out
fagot-vote
fagot cinnamon
fagot iron
fagot vote
fagot worm
fail ignominiously
fail in
fail in health
fail in your duty
fail miserably
fail of
fail of success
fail of your ambitions
fail of your hopes
fail safe
fail someone
fail spot
fail to appear
fail to pull out
fail to remember
fail-safe
failed expectation
failing student
failure of memory
failure of nerve
failure to pay
fain of
fain to
faint heart
faint hope
faint likelihood
faint praise
faint resemblance
faint sound
faint-blue
faint-gleaming
faint-glimmering
faint-green
faint-heard
faint-heart
faint-hued
faint-lined
faint-lipped
faint RULED
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fair-fortuned
fair-fronted
fair-haired
fair-haired boy
fair-horned
fair-hued
fair-lead
fair-leader
fair-leading
fair-maid
fair-maned
fair-minded
fair-mindedness
fair-natured
fair-reputed
fair-sized
fair-skinned
fair-sounding
fair-spoken
fair-spokenness
fair-stitch
fair-stitcher
fair-tongued
fair-trade
fair-trade agreement
fair-trade law
fair-trade price
fair-traded
fair-trader
fair-trading
fair-tressed
fair-visaged
fair-water cap
fair-weather
fair-weather cumulus
fair-weather friend
fair-weather sailor
fairbody draft
faire les yeux doux
fairing box
fairly well
fairness doctrine
fairwater cap
fairwater cone
fairwater sleeve
fairy arrow
fairy bell
fairy bird
fairy bluebird
fairy book
fairy butter
fairy candle
fairy cap
fairy circle
fairy club
fairy court
fairy creeper
fairy cup
fairy cycle
fairy fan
fairy finger
fairy flax
fairy gift
fairy glove
fairy godmother
fairy grass
fairy green
fairy haunt
fairy hillock
fairy king
fairy lamp
fairy lily
fairy lint
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fairy wand
fairy water lily
fairy woman
fairy-born
fairy-ring
fairy-ring mushroom
fairy-ring spot
fairy-tale
fait accompli
faiete vos jeux
faith cure
faith curer
faith healer
faith healing
faith of our fathers
faith-breaking
faith-confirming
faith-curist
faith-infringing
faith-keeping
faithful copy
faithful friend
faithful love
faithful servant
faithful translation
faits accomplis
fake book
fake buyer
fake out
fake up
faker-out
faking box
fal la
fal-lal
fal-la-lery
fal-la-lish
fal-la-lishly
falcon-beaked
falcon-eyed
falcon-gentle
fald silver
fall a cropper
fall a victim to
fall aboard
fall about
fall across
fall afoul of
fall again into
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on
fall back to
fall back to prepared positions
fall back upon
fall behind
fall behindhand
fall between two stools
fall block
fall by the wayside
fall chronometer
fall dandelion
fall dead
fall down
fall down before
fall down dead
fall down on the job
fall down on your knees
fall duck
fall due
fall flat
fall flat as a pancake
fall flat on your ass
fall flat on your face
fall flower
fall for
fall foul
fall foul of
fall from grace
fall from the lips
fall from the mouth
fall from your high estate
fall front
fall grape
fall guy
fall head and ears in love
fall head over heels in love
fall headlong
fall herring
fall in
fall in a faint
fall in line
fall in love
fall in price
fall in the way of
fall in together
fall in with
fall into
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
fall-in
fall-off
fall-out
fall-plow
fall-sow
fall-trap
fallen angel
fallen arch
fallen countenance
fallen from grace
fallen humanity
fallen nature
fallen state
fallen woman
falling action
falling back
falling band
falling barometer
falling diphthong
falling door
falling down and worshiping
falling glass
falling home
falling leaf
falling loosely
falling off
falling rhythm
falling short
falling shy
falling sickness
falling star
falling terminal
falling-away
falling-ball clock
falling-off
falling-out
falling-outs
fallings-out
fallopian tube
fallow chat
fallow deer
fallow finch
fallow mind
fallow-deer
false Jerusalem cherry
false Solomon's-seal
false acacia
false lily of the valley
false loosestrife
false map turtle
false memory
false mildew
false modesty
false money
false move
false music
false name
false nettle
false oat
false pains
false piety
false pile
false position
false pretences
false pretense
false pretenses
false pretension
false proscenium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
family Bible
family allowance
family altar
family bible
family circle
family compact
family connection
family contract
family counselor
family court
family doctor
family expense
family fare
family favor
family grouping
family homestead
family income policy
family jewels
family likeness
family living
family maintenance policy
family man
family meeting
family name
family of curves
family party
family physician
family plan
family planning
family relationship
family reunion
family romance
family room
family size
family skeleton
family style
family tie
family training
family tree
family wage
family way
family-conscious
family-fare plan
famine bread
famine fever
famine price
famous person
famous persons
fan Fink truss
fan belt
fan blade
fan blower
fan brake
fan club
fan consonant
fan coral
fan cricket
fan dance
fan dancer
fan delta
fan fitter
fan guard
fan heater
fan jet
fan letter
fan magazine
fan maidenhair
fan mail
fan maker
fan marker
fan mill
fan out
fan painter
fan palm
fan pulley
fan pump
fan roof
fan scale
fan shell
fan system
fan tan
fan the embers
fan the fire
fan the flame
fan tracery
fan training
fan tree
fan truss
fan vault
fan vaulting
fan wheel
fan window
fan worm
fan-back chair
fan-bearing
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
fancy-borne
fancy-bred
fancy-built
fancy-caught
fancy-dress ball
fancy-driven
fancy-fed
fancy-feeding
far-advanced
far-altof
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distance
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-looming
far-northern
far-off
far-offness
far-out
far-parted
far-passing
far-point
far-projecting
far-ranging
far-reaching
far-reachingness
far-removed
far-resounding
far-seeing
far-seen
far-shooting
far-sight
far-sighted
far-sought
far-sounding
far-southern
far-spread
far-spread ing
far-stretched
far-stretching
far-traveled
far-western
faradic electricity
farce comedy
farcy bud
farcy button
farcy pipe
fardel-bound
fare forth
fare well
fare-free
fare-thee-well
fare-ye-well
fare-you-well
farewell performance
farewell-summer
farewell-to-spring
farfetched story
farinaceous plant
farm belt
farm bloc
farm bureau
farm club
farm country
farm economics
farm economy
farm elevator
farm hand
farm interests
farm laborer
farm level
farm loan association
farm loan bank
farm loan bond
farm machine
farm machinery
farm management
farm manager
farm out
farm pond
farm team
farm tractor
farm-bred
farm-engro
farm-house
farm-stead
farm-yard
farmer cheese
farmer drill
farmer in the dell
farmer's lung
farmer-general
farmer-generalship
farmers cooperative
farmers-general
farmhouse loaf
faro bank
faro banker
fart around
farthest bound
farthest off
farthest out
farthest outpost
farthing dip
farthingale chair
farting around
fascia board
fascinated attention
fascine choker
fashion book
fashion designer
fashion gray
fashion house
fashion piece
fashion plate
fashion plate stem
fashion show
fashion writer
fashion-fancying
fashion-fettered
fashion-following
fashion-led
fashion-monger
fashion-setting
fashionable society
fashioning needle
fast and loose
fast asleep
fast boat
fast break
fast by
fast day
fast deal
fast dye
fast food
fast freight line
fast friend
fast friendship
fast groove
fast motion
fast neutron
fast one
fast pace
fast pile
fast rate
fast reactor
fast spiral
fast talk
fast telegram
fast time
fast worker
fast-anchored
fast-bound
fast-breaking
fast-breeder reactor
fast-cleaving
fast-darkening
fast-dye
fast-dyed
fast-fading
fast-falling
fast-feeding
fast-fettered
fast-fleeting
fast-flowing
fast-food chain
fast-footed
fast-gathering
fast-grounded
fast-growing
fast-handed
fast-joint hinge
fast-knit
fast-mass
fast-moving
fast-plighted
fast-rooted
fast-rootedness
fast-running
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fat stock
fat-assed
fat-backed
fat-barked
fat-bellied
fat-bodied
fat-cheeked
fat-choy
fat-edged
fat-engendering
fat-faced
fat-faced type
fat-fed
fat-fleshed
fat-free
fat-head
fat-hen
fat-hipped
fat-legged
fat-necrosis
fat-paunched
fat-reducing
fat-rumped sheep
fat-shunning
fat-soluble
fat-tailed
fat-tailed sheep
fat-witted
fata morgana
fatal accident
fatal blow
fatal hour
fatal-boding
fatal-looking
fatal-plotted
fatal-seeming
fate line
fate worse than death
fate-bowed
fate-denouncing
fate-dogged
fate-environed
fate-foretelling
fate-furrowed
fate-menaced
fate-scomning
fate-stricken
fateful moment
fathead minnow
father abbot
father christmas
father complex
father confessor
father family
father figure
father fixation
father image
father in Christ
father jesuit
father lasher
father longlegs
father love
father of the chapel
father right
father rule
father sib
father superior
father surrogate
father symbol
father upon
father's day
father-confessor
father-in-law
father-lasher
father-long-legs
fathers-in-law
fathom-deep
fatigue call
fatigue cap
fatigue clothes
fatigue curve
fatigue disease
fatigue dress
fatigue duty
fatigue life
fatigue limit
fatigue party
fatigue ratio
fatten on
fatten up
fatten upon
fattening grass
fatti maschii
fatty acid
fatty degeneration
fatty heart
fatty oil
fatty tumor
faucet joint
fault bar
fault block
fault breccia
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
feather tick
feather tip
feather tract
feather tree
feather trimmer
feather type
feather valve
feather worm
feather your nest
feather'd rain
feather-bed
feather-covered
feather-duster worm
feather-edge
feather-fleece
feather-footed
feather-head
feather-heeled
feather-leaved
feather-legged
feather-stitch
feather-tail glider
feather-tongue
feather-veined
feather-weight
feather-weighted
feather-work
featherbed rule
feathered songster
featheredge file
feathering float
feathering paddle wheel
feathering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febri-
febrifuge plant
fed to the gills
fed to the teeth
fed up
fed-up
fed-upedness
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
federal intermediate credit bank
federal land bank
federal medicine
federal prison
federal reserve bank
federal tax
federated church
fee farm
fee farmer
fee fief
fee grief
fee position
fee simple
fee simple absolute
fee simple conditional
fee simple defeasible
fee simple determinable
fee splitting
fee tail
fee-farm
fee-faw-fum
fee-simple
fee-splitter
fee-splitting
fee-tail
feeble person
feeble-bodied
feeble-eyed
feeble-lunged
feeble-minded
feeble-mindedly
feeble-mindedness
feeble-voiced
feeble-winged
twit
feed bag
feed boiler
feed case
feed cooker
feed crusher
feed cutter
feed gear
feed grinder
feed guide
feed hand
feed heater
feed heating
feed hopper
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeding market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow American
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
felo de se
felo-de-se
felon grass
felon herb
fenced-in
fencer's mask
fencing foils
fencing mask
fencing master
fencing match
fencing school
fencing stick
fencing-in
fend for yourself
fend off
fender bar
fender beam
fender bolt
fender boom
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
fern ally
fern asparagus
fern ball
fern bracken
fern bush
fern clubmoss
fern covert
fern cycad
fern green
fern hook
fern meadowbur
fern moss
fern owl
fern palm
fern preserver
fern scale
fern scrub
fern seed
fern tree
fern weevil
fern-clad
fern-crowned
fern-fringed
fern-leaved
fern-owl
fern-seed
fern-thatched
ferret badger
ferret out
ferret-badger
ferret-eyed
ferretto zone
ferri-
ferric ammonium oxalate
ferric chloride
ferric dimethylthiocarbamate
ferric oxide
ferric sodium oxalate
ferricyanic acid
ferris wheel
ferrite-rod aerial
ferro-
ferro-carbon-titanium
ferro-concrete
ferro-uranium
ferrocyanic acid
ferroso-
ferrotype tin
ferrous oxide
ferrous sulfate
ferrous sulphate
ferruginous duck
ferry bell
ferry bridge
ferry captain
ferry car
ferry craft
ferry incline
ferry master
ferry pole
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetch-candle
fetch-light
fetched-on
fetching-up
fete champetre
fete day
fete-champetre
feti-
fetid air
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-mort
feux d'artifice
feux de joie
fiber bundle
fiber carder
fiber comber
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fibr-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fickle-minded
fickle-mindedly
fickle-mindedness
fiction of the mind
fictional form
fictitious name
fictitious person
fid hole
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodder
field dog
field driver
field duck
field emission
field event
field fortification
field frame
field garlic
field glass
field glasses
field goal
field grade
field gray
field gromwell
field guidance
field guide
field gun
field hand
field hockey
field holler
field horsetail
field hospital
field house
field ice
field intensity
field ion microscope
field jacket
field judge
field kale
field kitchen
field lark
field larkspur
field lens
field lily
field line
field madder
field magnet
field maneuver
field marigold
field mark
field marshall
field martin
field master
field meeting
field milkwort
field mint
field mouse
field mushroom
field music
field nigelweed
field night
field oak
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field preaching
field probable error
field range
field ration
field rations
field rivet
field rush
field salad
field scabious
field scorpion grass
field service
field shoes
field soapwort
field soapwort field sorrel
field sorrel
field southernwood
field spaniel
field sparrow
field speedwell
field spider
field spirit
field spool
field sports
field staff
field station
field stop
field strength
field system
field telegraph
field telephone
field tent
field theory
field thistle
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinkling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fig-shaped
fig-tree
fig-tree wax
fig-wort
figaro sauce
fige de froid
fight a delaying action
fight a duel
fight a holding action
fight against
fight fire with fire
fight for
fight hand-to-hand
fight it out
fight like devils
fight off
fight over
fight shy
fight shy of
fight the good fight
fight the good fight for
fight to the death
fight to the last ditch
fight tooth and nail
fight with
fight with windmills
fight your battles over again
fight your way
fight-off
fighter pilot
fighter-bomber
fighter-interceptor
fighting chair
fighting chance
fighting cock
fighting fish
fighting force
fighting machine
fighting mad
fighting man
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
file dust
file finishing
file fire
file firing
file folder
file for
file forger
file grinder
file leader
file maker
file off
file setter
file sharpener
file signal
file snake
file suit for divorce
file tempering
file-fish
file-hard
file-soft
filet lace
filet mignon
filets mignons
fili-
filial generation
filial love
filiate to
filing box
filing card
filing case
filing clerk
filing system
filius nullius
filius populi
filix-mas
fill an office
fill and stand on
fill away
fill cap
fill horse
fill in
fill in for
fill out
fill the air
fill the bill
fill the measure of
fill the mind
fill time
fill to overflowing
fill to the brim
fill up
fill with doubt
fill you in
fill your pockets
fill your shoes
fill-belly
fill-dike
fill-in
fill-paunch
fill-space
fill-up
fille d'honneur
fille de chambre
fille de joie
filled gold
filled milk
filled out
filled to overflowing
filled-system thermometer
filler cap
filler vase
filler wall
filler-in
filler-out
filler-up
filles d'honneur
filles de chambre
filles de joie
fillet cross
fillet head
fillet steak
fillet weld
filletster plane
fill-
filling knitting
filling station
fillister head
fillister plane
fillister screwhead
filly tail
filly-folly
film base
film camera
film caption
film case
film clip
film color
film cutter
film data
film developer
film editor
film evaporator
film exposure
film fern
film gate
film gate
film gate
film gauge
film joiner
film library
film maker
film pack
film paper
film pickup
film play
film printer
film production
film rating
film recorder
film reparer
film sizing
film speed
film star
film strip
film studio
film window
film-eyed
film-free
film-struck
filmy fern
filmy-eyed
filo-
filter bed
filter candle
filter center
filter factor
filter flask
filter in
filter leaf
filter out
filter paper
filter passer
filter plate
filter press
filter pump
filter tip
filter-passing
filter-tipped
filterable virus
filtering flask
filth disease
filth ferment
filth receptacle
filth-borne
filth-created
filth-fed
filth-sodden
filthy humor
filthy language
filthy lucre
filthy person
filthy place
filthy rich
filthy weed
filthy-handed
filum aquae
fin boom
fin colter
fin cutter
fin de siecle
fin fold
fin keel
fin ray
fin whale
fin-backed
fin-fold theory
fin-footed
fin-shaped
fin-spined
fin-stabilized rocket
fin-tailed
fin-toed
fin-winged
final cause
final draft
final examination
final extremity
final hour
final instructions
final lot
final notice
final offer
final proposal
final result
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
finance capitalism
finance capitalist
finance company
finance corporation
financial assistance
financial backing
financial commitment
financial condition
financial credit
financial crisis
financial district
financial expert
financial interests
financial officer
financial remuneration
financial support
financial year
finback whale
finch falcon
finch-backed
find a clue to
find a husband for
find a loophole
find a mate for
find a phrase for
find a way
find a wife for
find against
find an indictment against
find an opening
find credence
find fault
find favor
find favor with
find for
find guilty
find hard to believe
find herself
find it hard going
find means
find out
find out about
find refuge
find sanctuary
find the answer
find the key of
find the key to
find the solution
find time
find vent
find words to express
find your
find your account in
find your advantage in
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered
fine-toned
fine-tongued
fine-tooth
fine-tooth comb
fine-tooth-comb
fine-toothed
fine-toothed comb
fine-tricked
fine-wrought
fineness of grain
fineness ratio
finer feelings
finery furnace
finery hearth
fines herbes
finger alphabet
finger bar
finger board
finger bowl
finger brush
finger clamp
finger coral
finger cutting
finger cymbals
finger exercise
finger fern
finger food
finger fracture
finger gate
finger gauge
finger grass
finger grip
finger guard
finger herb
finger hole
finger joint
finger lake
finger lime
finger man
finger mark
finger nut
finger of death
finger or two
finger paint
finger painter
finger painting
finger patch
finger pillory
finger plate
finger post
finger reading
finger ring
finger shell
finger sponge
finger steel
finger tight
finger wave
finger with
finger's breadth
finger's width
finger-ache
finger-and-toe
finger-comb
finger-comb grass
finger-cone
finger-cone pine
finger-cut
finger-end
finger-foxed
finger-marked
finger-paint
finger-pointing
finger-post
finger-shaped
finger-stall
finger-stone
fingers all thumbs
fingertip caress
fingertip coat
fingle-fangle
finis coronat opus
finish in front
finish off
finish up
finish-bore
finish-cut
finish-form
finish-grind
finish-machine
finish-mill
finish-plane
finish-ream
finish-shape
finish-stock
fire command
fire commander
fire company
fire control
fire cross
fire curtain
fire cut
fire cutoff
fire dance
fire department
fire direction
fire division wall
fire door
fire drill
fire drilling
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilting
fire glass
fire gong
fire grass
fire grate
fire hangbird
fire hat
fire hazard
fire hearth
fire hook
fire hose
fire hydrant
fire inspector
fire insurance
fire iron
fire irons
fire kiln
fire ladder
fire lane
fire lily
fire line
fire loss
fire main
fire maker
fire making
fire mark
fire marshal
fire mist
fire net
fire of demolition
fire of genius
fire off
fire office
fire opal
fire pail
fire patrol
fire patrolman
fire pike
fire pink
fire pit
fire plant
fire point
fire police
fire polishing
fire pot
fire power
fire prevention
fire quencher
fire raft
fire raid
fire raiser
fire red
fire red toner
fire reel
fire resistance
fire retardant
fire retarder
fire risk
fire room
fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
cut
fire scarlet
cut
fire screen
cut
fire set
cut
fire setting
cut
fire ship
cut
fire shovel
cut
fire shutter
cut
fire slash
cut
fire spirit
cut
fire station
cut
fire step
cut
fire stick
cut
fire stink
cut
fire stop
cut
fire storm
cut
fire support
cut
fire swab
cut
fire tactics
cut
fire temple
cut
fire test
cut
fire the blood
cut
fire thorn
cut
fire tongs
cut
fire tower
cut
fire tree
cut
fire trench
cut
fire tube
cut
fire underwriter
cut
fire up
cut
fire upon
cut
fire walk
cut
fire walking
cut
fire wall
cut
fire warden
cut
fire watcher
cut
fire weather
cut
fire window
cut
fire worker
cut
fire worship
cut
fire worshiper
cut
fire your imagination
cut
fire-
cut
fire-and-brimstone
cut
fire-angry
cut
fire-arm
cut
fire-backed pheasant
cut
fire-ball
fire-baptized
fire-bearing
fire-bellied
fire-bird
fire-boot
fire-born
fire-box
fire-brand
fire-breathing
fire-breeding
fire-burning
fire-burnt
fire-chaser
fire-clad
fire-cracked
fire-crested
fire-cross
fire-crowned
fire-cure
fire-cured
fire-curing
fire-damp
fire-darting
fire-detecting
fire-drake
fire-eater
fire-eating
fire-endurance
fire-endurance test
fire-engine
fire-exit bolt
fire-extinguisher
fire-extinguishing
fire-eyed
fire-fang
fire-flaught
fire-float
fire-flowing
fire-fly
fire-foaming
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire-hoofed
fire-hook
fire-hot
fire-hunt
fire-hunting
fire-iron
fire-leaves
fire-light
fire-lighted
fire-lilies
fire-lily
fire-lipped
fire-marked
fire-master
fire-mouthed
fire-new
fire-pan
fire-pitted
fire-place
fire-plow
fire-polish
fire-pot
fire-proof
fire-protection engineer
fire-quenching
fire-raiser
fire-raising
fire-red
fire-resistant
fire-resistant material
fire-resisting
fire-resisting material
fire-resistive
fire-resistive material
fire-retardant
fire-retardant material
fire-retarded
fire-ring
fire-robed
fire-safeness
fire-scarred
fire-scathed
fire-screen
fire-seamed
fire-ship
fire-souled
fire-spirited
fire-spitting
fire-sprinkling
fire-stone
fire-strong
fire-swart
fire-swift
fire-tailed
fire-tight
fire-tube boiler
fire-warmed
fire-wheeled
fire-winged
fire-work
fire-worker
fireburn bush
firecracker flower
fireless cooker
fireless heater
fireplace fitter
fireproof material
fireworks rocket
firing area
firing battery
firing charge
firing data
firing glass
firing iron
firing line
firing order
firing party
firing pin
firing ring
firing squad
firing step
firing table
firing test
firing tread
firing tube
firm as Gibraltar
firm belief
firm friendship
firm ground
firm hand
firm hold
firm price
firm resolve
firm up
firm-based
firm-braced
firm-chinned
firm-compacted
firm-footed
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first derivative
first derived curve
first division
first draft
first edition
first estate
first family
first floor
first flush of the morning
first fruits
first glance
first hand
first harmonic
first impression
first inning
first intention
first lady
first lap
first law of motion
first law of thermodynamics
first lieutenant
first light
first line
first line of battle
first line of defense
first main track
first mate
first mortgage
first mortgage bond
first motion
first move
first name
first night
first of all
first off
first offender
first officer
first option
first or last
first order
first paper
first papers
first person
first philosophy
first place
first position
first post
first principle
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first water
first-aid
first-aider
first-begot
first-begotten
first-born
first-bred
first-built
first-cause argument
first-chop
first-class
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endeavoring
first-expressed
first-famed
first-floor
first-foot
first-footer
first-formed
first-found
first-framed
first-fruit
first-gendered
first-generation
first-gotten
first-grown
first-hand
first-in
first-in first-out
first-invented
first-known
first-line
first-loved
first-made
first-mentioned
first-mining
first-mortgage
first-mortgage bond
first-name
first-named
first-night
first-nighter
first-order reaction
first-out
first-page
first-past-the-post
first-preferred
first-rate
first-rately
first-rateness
first-rater
first-ripe
first-run
first-seen
first-strike capacity
first-string
first-told
first-written
fiscal agent
fiscal period
fiscal year
fise dog
fish and chips
fish ball
fish beam
fish begonia
fish belly
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fish-eating
fish-eating bird
fish-eye lens
fish-eyed
fish-fag
fish-fed
fish-feeding
fish-flaking
fish-gig
fish-god
fish-goddess
fish-hatching
fish-hook
fish-producing
fish-scale
fish-scaling
fish-selling
fish-shaped
fish-skin
fish-slitting
fish-tail
fishbone thistle
fishbone tree
fisher-cat
fisherman's bend
fisherman's reef
fisherman's ring
fisherman's staysail
fisherman's sweater
fishery salt
fisheye lens
fishhook cactus
fishhook money
fishing banks
fishing boat
fishing breeze
fishing cat
fishing club
fishing craft
fishing dory
fishing duck
fishing expedition
fishing fleet
fishing float
fishing gear
fishing ground
fishing hook
fishing license
fishing line
fishing net
fishing pole
fishing question
fishing reel
fishing rod
fishing schooner
fishing smack
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o'clock shadow
five-o'clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabelli-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrante delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flake figure
flake manna
flake off
flake out
flake stand
flake tragacanth
flake white
flaked-out
flaky pastry
flambor flamb
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
flashed brick
flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat contradiction
flat country
flat drill
flat failure
flat fish
flat foot
flat glass
flat in
flat key
flat knit
flat knitting
flat knot
flat market
flat on your back
flat on your belly
flat on your nose
flat out
flat palm
flat pass
flat point lace
flat press
flat race
flat racing
flat rate
flat refusal
flat roof
flat sage
flat sennit
flat silver
flat sour
flat spin
flat tire
flat wash
flat-armed
flat-backed
flat-beaked
flat-bed
flat-bed cylinder press
flat-bed press
flat-billed
flat-boat
flat-bosomed
flat-bottom
flat-bottomed
flat-breasted
flat-browed
flat-cap
flat-cheeked
flat-chested
flat-coated retriever
flat-compound
flat-crowned
flat-decked
flat-ended
flat-faced
flat-floored
flat-fold
flat-foot
flat-footed
flat-footedly
flat-footedness
flat-fronted
flat-grained
flat-handled
flat-hat
flat-hatted
flat-hatter
flat-hatting
flat-head
flat-headed
flat-heeled
flat-hoofed
flat-horned
flat-iron
flat-joint pointing
flat-knit
flat-minded
flat-mouthed
flat-nose
flat-nosed
flat-out
flat-out speed
flat-packed
flat-plate keel
flat-plate printing
flat-ribbed
flat-ring
flat-ring armature
flat-roofed
flat-saw
flat-sawed
flat-sawing
flat-sawn
flat-shouldered
flat-sided
flat-slab construction
flat-soled
flat-sour
flat-toothed
flat-top
flat-topped
flat-turret lathe
flat-visaged
flat-waisted
flat-ways
flat-woven
flatbed cylinder press
flatbed press
flathead cat
flathead catfish
flatheaded apple tree borer
flatheaded borer
flattail mullet
flatten in
flatten out
flatten yourself
flattened-strand rope
flattening oven
flattening stone
flatter the palate
flatter yourself
flatter-blind
flattering remark
flattering tongue
flattening furnace
flattening mill
flattening oil
flattop antenna
flatushous melancholia
flatwork ironer
flavo-
flavor control
flavoring extract
flaw in an argument
flax bellflower
flax blue
flax brake
flax buncher
flax bundler
flax canker
flax comb
flax dodder
flax dresser
flax family
flax hackler
flax lily
flax olive
flax plant
flax retter
flax ripple
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
flax-colored
flax-flower blue
flax-leaved
flax-polled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
fleet-footed
fleeting impulse
flech-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
flesh show
flesh side
flesh tint
flesh tone
flesh worm
flesh wound
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
flipperty-flopperty
flippity-flop
flirt with
flirt with death
flirt with the idea
flirt-gill
flirtation-proof
flirting with death
flitch beam
flitch girder
flitch plate
flitter-mouse
float a bond issue
float a loan
float bowl
float bridge
float builder
float carburetor
float chamber
float copper
float fescue
float fishing
float foxtail
float glass
float grass
float high
float in a sea of doubt
float in space
float in the air
float key
float net
float on your back
float ore
float plane
float pump
float road
float seaplane
float stick
float switch
float tank
float trap
float up
float valve
float whey
float with the current
float with the stream
float work
float-boat
float-cut
float-cut file
float-feed
float-feed carburetor
float-iron
float-stone
floating anchor
floating assets
floating battery
floating bridge
floating capital
floating charge
floating debt
floating dock
floating dry dock
floating drydock
floating fescue
floating foundation
floating foxtail
floating gang
floating grass
floating heart
floating hotel
floating inspector
floating island
floating light
floating manna grass
floating mine
floating palace
floating partition
floating point
floating policy
floating rib
floating screed
floating soap
floating stage
floating stock
floating supply
floating vote
floating-point representation
flocculent precipitate
flock book
flock dot
flock duck
flock mating
flock paper
flock pigeon
flock to
flock together
flock-meal
floe rat
flog a dead horse
flog yourself
flogging chisel
flogging hammer
flood anchor
flood control
flood dam
flood fallowing
flood insurance
flood lamp
flood main ballast
flood negative
flood of light
flood of tears
flood plain
flood pounds in after trim
flood the market
flood the market with
flood the tank
flood the tanks
flood tide
flood with light
flood-gate
flood-hatch
flood-tide
floodable length
flooded with light
floodlight projector
floor arch
floor beam
floor board
floor boarding
floor broker
floor chisel
floor clamp
floor cleaner
floor cleaning
floor covering
floor dresser
floor dressing
floor enamel
floor finish
floor furnace
floor hanger
floor joist
floor knob
floor lamp
floor leader
floor line
floor manager
floor mat
floor model
floor mop
flop-top
flora and fauna
floral clock
floral decoration
floral decorator
floral emblem
floral envelope
floral leaf
flores sulphuris
flori-
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss silk
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour miller
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flour weevil
flour weigher
flour worm
flourish of rhetoric
flourish of trumpets
flourishing condition
flourishing thread
flow back
flow bean
flow breccia
flow calorimeter
flow chart
flow cleavage
flow control
flow diagram
flow from
flow gate
flow in
flow moss
flow nipple
flow of air
flow of blood
flow of ideas
flow of thought
flow of time
flow of words
flow on
flow out
flow over
flow sheet
flow texture
flow together
flow valve
flow-blue
flow-control system
flow-on
flowage texture
flower arrangement
flower basket
flower bed
flower beetle
flower boat
flower bowl
flower box
flower bud
flower bug
flower child
flower concrete
flower cup
flower fence
flower fly
flower garden
flower gardening
flower girl
flower grower
flower head
flower maker
flower making
flower nymph
flower of age
flower of life
flower outbloom
flower painter
flower painting
flower paintress
flower part
flower piece
flower power
flower pride
flower scissors
flower seller
flower shop
flower show
flower spike
flower stalk
flower time
flower tree
flower-bearing
flower-bespangled
flower-besprinkled
flower-breeding
flower-crowned
flower-cup fern
flower-de-luce
flower-decked
flower-embroidered
flower-enameled
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
flowery-kirtled
flowery-mantled
flowing locks
flowing periods
flowing stream
flowing tongue
flowing toward
flowing tresses
flowing-robed
flucti-
fluctuation-proof
flue bridge
flue cleaner
flue pipe
flue plate
flue stop
flue stopper
flue surface
flue-cure
flue-cured
flue-curing
fluent tongue
fluff your lines
fluff-gib
fluffy-haired
fluffy-minded
fluid assets
fluid clutch
fluid compression
fluid coupling
fluid die
fluid drachm
fluid dram
fluid drive
fluid dynamics
fluid extract
fluid flywheel
fluid friction
fluid mechanics
fluid motion
fluid movement
fluid operations
fluid ounce
fluid pressure
fluid-compressed
flump down
flunk out
fluo-
fluoboric acid
fluophosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush girt
flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flute glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aeolian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
fly wagon
fly water
fly way
fly weevil
fly whisk
fly-away
fly-bane
fly-bitten
fly-blow
fly-blown
fly-boat
fly-boy
fly-by-night
fly-catcher
fly-catching
fly-catching warbler
fly-dung
fly-fish
fly-fisher
fly-fisherman
fly-fishing
fly-flap
fly-free
fly-killing
fly-leaf
fly-net
fly-past
fly-rail
fly-sheet
fly-specked
fly-spleckled
fly-strike
fly-stuck
fly-swarmed
fly-up
fly-wheel
fly-yrap
flyaway grass
flying banana
flying bathtub
flying bedspring
flying bedstead
flying boat
flying bomb
flying bond
flying boxcar
flying bridge
flying buttress
flying cadet
flying circus
flying classroom
flying colors
flying colours
flying column
flying crow's nest
flying deck
flying doctor
flying dragon
flying dutchman
flying field
flying fish
flying flame
flying fortress
flying fox
flying frog
flying gangway
flying gurnard
flying horses
flying jib
flying jib boom
flying jib guy
flying jib martingale
flying jib stay
flying jump
flying kite
flying kites
flying lemur
flying lessons
flying lizard
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
flying phalanger
flying platform
flying range
flying ring
flying robin
flying rumor
flying sap
flying saucer
flying shear
flying skysail
flying speed
flying spot
flying squad
flying squadron
flying squirrel
flying start
flying tackle
flying tank
flying tanker
flying torpedo
flying wing
flywheel effect
flywheel efficiency
flywheel-explosion
foam at the mouth
foam extinguisher
foam glass
foam rubber
foam-beat
foam-born
foam-crested
foam-flanked
foam-flecked
foam-girt
foam-lit
foam-painted
foam-rubber mattress
foam-white
foaming at the mouth
fob chain
fob off
fob on
focal distance
focal epilepsy
focal infection
focal inflammation
focal length
focal plane
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
foist in
foist on
foist yourself upon
fold dike
fold in
fold over
fold soke
fold to the heart
fold up
fold your arms
fold-away bed
folded dipole
folded sleep
folder-up
folding bed
folding bicycle
folding camera
folding chair
folding door
folding fin
folding ladder
folding machine
folding money
folding press
folding table
folding wing
foliage brown
foliage carver
foliage green
foliage leaf
foliage plant
foliate Architect
foliated joint
foliato-
folic acid
folie a deux
folie de grandeur
folie du doute
folinic acid
folio letterheads
folio noteheads
folio post
folio verso
folk air
folk art
folk ballad
folk ballads
folk belief
folk carol
folk custom
folk dance
folk dancing
folk dialect
folk drama
folk ethics
folk etymology
folk guitarist
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
folk mind
folk motif
folk music
folk myth
folk nation
folk play
folk poetry
folk psychologist
folk psychology
folk rock
folk school
folk singer
folk singing
folk society
folk song
folk songs
folk speech
folk state
folk story
folk tale
folk theater
folk tune
folk weave
folk-dancer
folk-etymological
folk-lore
folk-music festival
folk-rock
folk-rock singer
folk-sing
follicle mite
follicle-stimulating hormone
follow a clew
follow a clue
follow a course
follow a trade
follow advice
follow after
follow as a matter of course
follow as an occupation
follow at heel
follow block
follow board
follow close upon
follow dies
follow from
follow implicitly
follow in a series
follow in the footsteps of
follow in the footsteps of
follow in the steps of
follow in the trail of
follow in the wake of
follow in your footsteps
follow like sheep
follow on
follow on the heels of
follow out
follow peace with all men
follow protocol
follow rest
follow shot
follow strong drink
follow suit
follow the
follow the beam
follow the beaten path
follow the book
follow the crowd
follow the example of
follow the fashion
follow the hounds
follow the lead of
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
follow the trail of
follow the trail to
follow through
follow to a conclusion
follow up
follow up an inquiry
follow up the attack
follow your nose
follow-focus shot
follow-my-leader
follow-on
follow-through
follow-up
follower plate
follower rest
follower-up
followers of Christ
following the letter
following wind
folly-bent
folly-blind
folly-drenched
folly-fallen
folly-fed
folly-maddened
folly-painting
folly-snared
folly-stricken
fond hope
fond illusion
fond of
fond of society
fond plow
fond-blind
fond-conceited
fond-hardy
fond-sparkling
fondness for society
fondue Bourguignonne
fons et origo
font name
foo yong
foo yoong
foo-foo
food allowance
food analyst
food and drink
food ball
food cabinet
food canal
food card
food cart
food chain
food chemist
food color
food container
food cycle
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
fool-bold
fool-born
fool-frequented
fool-frighting
fool-happy
fool-hasty
fool-headed
fool-heady
fool-large
fool-proof
fooling around
foolish act
foolish guillemot
foolish thing
foolish-bold
foolish-looking
foolish-wise
foolish-witty
foolscap octavo
foolscap quarto
foot accelerator
foot at
foot base
foot bath
foot bellows
foot bone
foot brake
foot by foot
foot candle
foot carpet
foot correctionist
foot cushion
foot dangle
foot dirt
foot doctor
foot drop
foot fault
foot for foot
foot front
foot guard
foot iron
foot it
foot jaw
foot level
foot lever
foot lift
foot line
foot mange
foot mantle
foot match
foot measure
foot page
foot pan
foot passenger
foot pavement
foot post
foot pump
foot race
foot racer
foot racing
foot rail
foot road
foot rot
foot rule
foot scab
foot score
foot scraper
foot screw
foot soldier
foot specialist
foot stove
foot the bill
foot tour
foot track
foot trail
foot traveler
foot tubercle
foot up
foot valve
foot waling
foot walker
foot warmer
foot washing
foot-acted
foot-and-mouth disease
foot-binding
foot-breadth
foot-candle
foot-candle meter
foot-cloth
foot-dragger
foot-dragging
foot-faring
foot-firm
foot-free
foot-grain
foot-grain per second
foot-guard
foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
foot-licking
foot-loose
foot-mantle
foot-mark
foot-note
foot-pale
foot-payh
foot-pound
foot-pound-second
foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen’s gallery
footplate man
footstep bearing
footwear merchant
for FC
for God’s sake
for a certainty
for a consideration
for a coon’s age
for a dog’s age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for professional services
for public consumption
for real
for rent
for sale
for services rendered
for short
for show
for some reason
for sport
for sure
for that
for that cause
for that reason
for the asking
for the best
for the better
for the birds
for the cause that
for the devil of it
for the duration
for the fun of it
for the heck of it
for the hell of it
for the life of you
for the love of
for the meantime
for the moment
for the most part
for the nonce
for the people
for the period of
for the purpose of
for the reason that
for the record
for the sake of
for the term of your days
for the time
for the time being
for this cause
for this occasion
for this reason
for two
for want of
for what reason
for whatever reason
for which
for which reason
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
fore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-adapt
fore-age
fore-alleged
fore-and-aft
fore-and-aft axis
fore-and-aft rig
fore-and-aft rigged
fore-and-aft sail
fore-and-aft schooner
fore-and-aft tackle
fore-and-aft-rigged
fore-and-after
fore-appoint
fore-axle
fore-being
fore-cabin
fore-check
fore-cited
fore-court
fore-dated
fore-deck
fore-edge
fore-edge painting
fore-elder
fore-elders
fore-end
fore-exercise
fore-foot
fore-game
fore-glide
fore-gut
fore-hammer
fore-handed
fore-hearth
fore-judge
fore-lie
fore-mean
fore-mention
fore-notice
fore-oath  
fore-part  
fore-piece  
fore-possess  
fore-purpose  
fore-quote  
fore-rank  
fore-read  
fore-recited  
fore-rider  
fore-run  
fore-sail  
fore-say  
fore-set beds  
fore-sheet  
fore-skysail  
fore-skysail backstay  
fore-skysail brace  
fore-skysail lift  
fore-skysail mast  
fore-skysail shroud  
fore-skysail stay  
fore-skysail yard  
fore-staff  
fore-stage  
fore-stay  
fore-stick  
fore-tack  
fore-tooth  
fore-topgallant  
fore-topgallant backstay  
fore-topgallant brace  
fore-topgallant lift  
fore-topgallant mast  
fore-topgallant shroud  
fore-topgallant stay  
fore-topgallant studding sail  
fore-topgallant yard  
fore-topmast  
fore-topmast backstay  
fore-topmast stay  
fore-topmast staysail  
fore-topmast staysail stay  
fore-topmast studding sail  
fore-topmast-studding-sail boom  
fore-topsail  
fore-topsail lift
fore-topsail yard
fore-trysail gaff
fore-trysail peak halyard
fore-trysail vang
fore-uard
fore-vouched
fore-wind
fore-wit
forearm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forecastle scuttle
forecastle watch
foredoomed hope
foregone conclusion
foreground detail
forehand shaft
forehand shooting
foreign accent
foreign affairs
foreign aid
foreign bill
foreign body
foreign correspondent
foreign devil
foreign element
foreign exchange
foreign influx
foreign intruder
foreign intrusion
foreign legion
foreign loan
foreign minister
foreign ministry
foreign mission
foreign money
foreign office
foreign policy
foreign secretary
foreign securities
foreign service
foreign service officer
foreign threat
foreign-aid
foreign-appearing
foreign-born
foreign-bred
foreign-built
foreign-flag
foreign-language dictionary
foreign-language study
foreign-looking
foreign-made
foreign-manned
foreign-owned
foreign-speaking
forelock hook
foreman of the jury
forenoon watch
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forest spirit
forest tent caterpillar
forest tupelo
forest type
forest warden
forest white
forest-belted
forest-born
forest-bosomed
forest-bound
forest-bred
forest-clad
forest-covered
forest-crowned
forest-dwelling
forest-felling
forest-frowning
forest-grown
forest-rustling
forever and a day
forever and aye
forfeit your good opinion
forge ahead
forge blower
forge furnace
forge furnaceman
forge hammerman
forge pressman
forge roller
forge shearer
forge slinger
forge smith
forge water
forge welding
forgery bond
forgery-proof
forget about it
forget it
forget nothing
forget the odds
forget to remember
forget your own name
forget your place
forget yourself
forget-me-not
forget-me-not blue
forgetful of self
forgetting nothing
forging press
forgive and forget
fork beam
fork cross
fork cutler
fork forger
fork grinder
fork hafter
fork lightning
fork luncheon
fork maker
fork molder
fork out
fork over
fork splitter
fork truck
fork-carving
fork-end
fork-filled
fork-head
fork-lift truck
fork-pronged
fork-ribbed
fork-shaped
fork-tail
fork-tailed
fork-tined
fork-tongued
forked chain
forked lightning
forked tongue
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o'clock
four o'cat
four o'clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylinder
four-cylindred
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leaf clover
four-leafed
four-leaved
four-leaved grass
four-legged
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-oclock
four-oclock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxglove beardtongue
foxtail cactus
foxtail grass
foxtail lily
free and common socage
free and easy
free as a bird
free as air
free as the wind
free ascent
free association
free association test
free atmosphere
free balloon
free ballooning
free bench
free bid
free capital
free choice
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free for nothing
free for the asking
free form
free from
free gift
free giver
free gold
free goods
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-footed
free-for-all
free-form
free-going
free-grown
free-hand
free-handed
free-handedly
freeboard deck
freeboard length
freedom abused
freedom fighter
freedom from fear
freedom from illusion
freedom from want
freedom from war
freedom of speech
freedom of speech and expression
freedom of the city
freedom of the press
freedom of the seas
freedom of worship
freedom ride
freedom rider
freehand drawing
freeing port
freewill baptist
freewill offering
freeze on
freeze out
freeze over
freeze solid
freeze the blood
freeze to
freeze to death
freeze your balls off
freeze-dried
freeze-dry
freeze-drying
freeze-out
freeze-up
freezer burn
freezer locker
freezer ship
freezing cold
freezing drizzle
freezing machine
freezing mixture
freezing point
freezing process
freezing rain
freezing weather
freezing wind
freezing works
freight agent
freight bill
french window
french-like
frenzy of desire
frenzy of lust
frequency band
frequency changer
frequency control
frequency converter
frequency curve
frequency distribution
frequency divider
frequency doubler
frequency histogram
frequency indicator
frequency meter
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
fresh-painted
fresh-picked
fresh-run
fresh-slaughtered
fresh-washed
fresh-water
fresh-water drum
fresh-water nymph
fresh-water sailor
fresh-watered
freshen the air
freshen up
freshman week
freshman year
freshwater drum
freshwater lake
freshwater stay
fresno scraper
fret and fume
fret at
fret saw
fret-sawing
friar rush
friar skate
friar's balsam
friar's chair
friar's lantern
fribble away
friction ball
friction band
friction belt
friction block
friction board
friction brake
friction breccia
friction clamp
friction clutch
friction composition
friction cone
friction disk
friction drill
friction drive
friction electricity
friction factor
friction fremitus
friction fuse
friction gear
friction gearing
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
frigate-built
fright disease
fright neurosis
frighten from your propriety
frighten off
frighten out of your senses
frighten out of your wits
frightened out of your wits
frightening off
frightful bore
frightfully rich
frigid purgatorial fires
frigid zone
frill shark
frill-bark
frill-barking
frill-like
frilled lizard
frills and furbelows
fringe area
fringe benefit
fringe benefits
fringe bush
fringe cup
fringe moss
fringe tree
fringe-bell
fringe-toed lizard
fringe-tree bark
fringed brome
fringed galax
fringed gentian
fringed orchis
fringing forest
fringing reef
frise aileron
frit fly
frit-fly
frith-guild
frith-stool
fritter away
fritter away time
fritto misto
frivol away
frivolity-proof
frizzle disease
frizzle fowl
frock coat
frock-coat
frog boot
frog cheese
frog clock
frog crab
frog fly
frog grass
frog hair
frog kick
frog legs
frog lily
frog number
frog pad
frog plant
frog shell
frog spawn
frog spit
frog spittle
frog's-bit
frog-belly
frog-bit
frog-eyed
frog-fish
frog-march
frog-mouth
frog-spawn
frogbit family
from A to Z
from A to izzard
from Dan to Beersheba
from Missouri
from afar
from age to age
from all points of the compass
from all quarters
from away back
from bad to worse
from beginning to end
from better to worse
from clew to earing
from cover to cover
from day to day
from door to door
from egg to apples
from end to end
from everlasting to everlasting
from every quarter
from everywhere
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
front crawl
front door
front elevation
front foot
front for
front line
front man
front matter
front money
close to house
front office
front of office
front on
front page
front position
front rank
front room
front runner
front scene
front view
front window
front-connected
front-fanged
front-focus
front-focused
front-foot
front-page
front-paged
front-paging
front porch campaign
front rank
front ranker
front runner
front wheel
frontal assault
frontal attack
frontal bone
frontal convolution
frontal cyclone
frontal gyrus
frontal lobe
frontier post
frontiers of knowledge
fronto-
frost bearer
frost blow
frost feathers
frost flowers
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-brite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frowned-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit barrel
fruit basket
fruit bat
fruit bearing
fruit belt
fruit blight
fruit blossom
fruit body
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruiting body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratique
full professor
full purse
full radiator
full rhyme
full sail
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full tilt
full time
full to bursting
full toss
full trailer
full twist
full vowel
full wine
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashioned
full-fashionable stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruited
full-glowing
full-gorged
full-grown
full-hairy
full-hand
full-handed
full-happinessed
full-hard
full-haunched
full-headed
full-hearted
full-hipped
full-hot
full-jeweled
full-jointed
full-known
full-laden
full-leather
full-leaved
full-length
full-leveled
full-licensed
full-limbed
full-lined
full-lipped
full-load
full-made
full-manned
full-measured
full-minded
full-moon
full-moon maple
full-mouthed
full-mouthedly
full-natured
full-necked
full-nerved
full-opening
full-orbed
full-out
full-page
full-paid
full-panoplied
full-paunched
full-personed
full-pitch
full-pitch winding
full-plumed
full-power
full-powered
full-proportioned
full-pulsing
full-rayed
full-resounding
full-rigged
full-rigged ship
full-rigger
full-ripe
full-ripened
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shroud
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brusher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furl in the bunt
furnace bricklayer
furnace builder
furnace cadmium
furnace calciner
furnace charger
furnace charging
furnace engineer
furnace erector
furnace feeder
furnace fireman
furnace heating
furnace keeper
furnace liner
furnace lining
furnace maker
furnace mounter
furnace oil
furnace regulator
furnace repairer
furnace stoker
furnace tender
furnace tenter
furnace watcher
furnish accommodations
furnish evidence
furnish support
furniture arrangement
furniture broker
furniture carving
furniture designer
furniture enameler
furniture finisher
furniture fitter
furniture japanner
furniture maker
furniture mover
furniture packer
furniture painter
furniture polish
furniture polisher
furniture porter
furniture repairer
furniture store
furniture turning
furniture van
furor epilepticus
furor loquendi
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow draining
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
fusco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fusi-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
gable window
gable-bottom
gable-bottom car
gable-end
gable-ended
gable-roofed
gable-shaped
gable-walled
gable-windowed
gaboon mahogany
gad about
gad so
gad-bee
gad-fly
gadget bag
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galact-
galactic circle
galactic cluster
galactic coordinates
galactic distance
galactic equator
galactic latitude
galactic longitude
galactic nebula
galactic noise
galactic plane
galactic pole
galactic poles
galactic space
galacto-
galam butter
galanga root
galanty show
gale day
gale warning
gale-driven
galena glaze
gales of laughter
galimeta wood
gall and wormwood
gall bag
gall bladder
gall cyst
gall duct
gall fig
gall gnat
gall midge
gall mite
gall oak
gall passage
gall pipe
gall sickness
gall sickness bush
gall wasp
gall wind
gall-fly
gall-less
gall-like
gall-nut
gall-stone
galla ox
gallant soldier
gallantry under fire
gallery forest
gallery gods
gallery organ
gallery road
galleta grass
galley chase
galley foist
galley halfpenny
galley press
galley proof
galley punt
galley slave
galley slice
galley slug
galley stove
galley worm
galley-fashion
galley-man
galley-slave
galley-tile
galley-west
gallic acid
gallo-
gallo-tannate
gallo-tannic
gallop rhythm
galloper gun
galloping dandruff
galloping dominoes
gallow pulley
gallow tree
gallows balk
gallows bird
gallows bitts
gallows frame
gallows humor
gallows humour
gallows tree
gallows-bird
gallows-grass
gallows-tree
gally tile
galois theory
galvanic battery
galvanic cell
galvanic circle
galvanic circuit
galvanic couple
galvanic current
galvanic electricity
galvanic pile
galvanic shock
galvanic skin response
galvanized iron
galvano-
gam-
gama grass
gamba bass
gamba goose
gamba stop
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboe yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gamet-
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
gang-week
ganging plea
gangle-shanked
gangli-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gaping chasm
gaping depths
gapped scale
gar pike
gar-pike
garab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garble accounts
garboard plank
garboard strake
garbutt rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth
garden geranium
garden ginger
garden glass
garden heliotrope
garden hoe
garden hose
garden house
garden huckleberry
garden hyssop
garden lemon
garden mint
garden mold
garden nasturtium
garden nightshade
garden of the Gods
garden of the Hesperides
garden orach
garden orpine
garden party
garden path
garden patience
garden pepper
garden pepper cress
garden peppergrass
garden persicary
garden phlox
garden pink
garden plague
garden plow
garden poppy
garden portulaca
garden purslane
garden rocket
garden roller
garden sage
garden sauce
garden sculpture
garden seat
garden snail
garden sorrel
garden spade
garden speedwell
garden spider
garden spot
garden spurge
garden suburb
garden syringa
garden tickseed
garden trowel
garden truck
garden valerian
garden variety
garden verbena
garden violet
garden wall
garden warbler
garden webworm
garden white
garden-gate
garden-house
garden-seated
garden-variety
garden-wall bond
gardener bird
gardenwall bond
gardes du corps
gardez la foi
gare-fowl
garget plant
garget root
garland chrysanthemum
garland crab
garland crab apple
garland flower
garland larkspur
garlic bread
garlic butter
garlic germander
garlic mustard
garlic oil
garlic pear
garlic powder
garlic sage
garlic salt
garlic shrub
garlic tree
garment center
garment maker
garment making
garment parts
garment presser
garner of facts and fancies
garner up
garnet brown
garnet hinge
garnet jade
garnet lac
garnet paper
garnet-breasted
garnet-colored
garnet-red
garnish bolt
garnishee order
garrison cap
garrison finish
garrison flag
garrison house
garrison prisoner
garrison rations
garrison school
garrison state
garter belt
garter blue
garter snake
garter stitch
garter stockings
garter-blue
garth cress
gas analyzer
gas attack
gas bacillus
gas balloon
gas battery
gas bender
gas black
gas bladder
gas bomb
gas buoy
gas burner
gas cap
gas carbon
gas cell
gas chamber
gas chromatography
gas coal
gas coke
gas company
gas concrete
gas conduction
gas constant
gas counter
gas cutting
gas detector
gas disease
gas electrode
gas engine
gas engineer
gas engineering
gas equation
gas explosion
gas field
gas filler
gas fitter
gas fitting
gas fittings
gas fixture
gas focusing
gas furnace
gas gangrene
gas generator
gas grenade
gas harmonicon
gas heat
gas heater
gas heating
gas helmet
gas jet
gas lamp
gas law
gas laws
gas lighter
gas lime
gas liquor
gas log
gas machine
gas main
gas mantle
gas mask
gas meter
gas motor
gas oil
gas oven
gas phlegmon
gas phototube
gas pipe
gas plant
gas plate
gas pliers
gas poker
gas polarization
gas producer
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gaslight paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gauze lake
gaudy-day
gaudy-green
gaufre iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaultheria oil
gaunt-bellied
gauze ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceiver
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted
gay-tailed
gay-throned
gaze at
gaze open-mouthed
gaze upon
gaze-hound
gazelle brown
gazelle hound
gazelle-boy

gazelle-eyed

gazer-on

gazetted officer

gazing ball

gazing-stock

ge-
gear box

gear brusher

gear case

gear cutter

gear down

gear fitter

gear forger

gear hobber

gear lever

gear maker

gear miller

gear oiler

gear pump

gear ratio

gear roller

gear shaper

gear shifter

gear to

gear train

gear up

gear wheel

gear-cutting

gear-driven

gear-operated

gear-wheel pump

gearless traction

gearing chain

gearing chain

gee ho

gee pole

gee string

gee up

gee up!

gee whillikins

gee whiz

gee whizz

gee-gee

gee-haw

gee-throw

gee-up

gefilte fish
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
general-duty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
gentian root
gentian violet
gentianic acid
gentle-falcon
gentility manners
gentill-
gentisic acid
gentle art
gentle as a lamb
gentle breeze
gentle contact
gentle craft
gentle hint
gentle melancholy
gentle sex
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturally
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
gentoo penguin
genu valgum
genuine object
genus Homo
geo probe
geo-
geo-navigation
geocentric longitude
geocentric parallax
geodesic dome
gedesic geometry
gedesic line
geodetic engineer
geodetic engineering
geodetic longitude
geodetic satellite
geodetic survey
geodetic surveying
geographic determinism
geographic environment
geographic longitude
geographic range
geographical determinism
geographical dictionary
geographical mile
geographically limited
geoid-spheroid
geoid-spheroid balance
geologic time
geological chemistry
geological dictionary
geological engineer
geological engineering
geological time periods
gemetric figure
gemetric isomerism
gemetric mean
gemetric pace
gemetric progression
gemetric proportion
gemetric ratio
gemetric series
gemmetrical horizon
gemmetrical lathe
gemmetrical optics
gemmetrical pace
gemmetrical pitch
gemmetrical progression
gemmetrical stair
gophysical satellite
georgia pine
geostrophic wind
geotectonic geology
geanium creeper
geanium family
gеanium lake
gеanium oil
gеanium pink
geriatric disease
gerim breeder
germ cell
germin destructive
germin disease
germin disk
germin gland
germin layer
germin nucleus
germin pathology
germin peg
germin plasm
germin plasma
germin pore
germin spot
germin stock
germin theory
germin track
germin tube
germin warfare
germin-forming
germin-baptist brethren
germin cotillion
germin measles
germin shepherd
germin silver
germander chickweed
germander sage
germander speedwell
germanium crystal triode
germanium oxide
germanium triode
germano-
germinicidal lamp
germinal area
germinal disc
germinal disk
germinal imagination
germinal vesicle
germinate from
geront-
geronto-
germissandered district
gerund grinder
gerund grindery
gerund grinding
gerund phrase
ges-warp
gestalt psychology
gestalt therapy
gestatorial chair
gesture calligraphist
gesture calligraphy
gesture language
gesture painting
get a bang out of
get a bead on
get a boot out of
get a break
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
get back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
get down cold
get down from your high horse
get down on your hunkers
get down on your knees
get down on your marrowbones
get down pat
get down to brass tacks
get down to business
get down to cases
get down to nuts and bolts
get drunk
get even
get even with
get excited
get excited about
get exposure
get for free
get for your pains
get free
get free of
get fresh
get from
get funny
get going
get heads together
get hep to
get hers
get high
get high on
get his
get hitched
get hold of
get hold of an idea
get hold of yourself
get home free
get hot under the collar
get huffy
get hung up
get in
get in a bind
get in a box
get in a hole
get in a jam
get in a mess
get in a pincers
get in a rut
get in a word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
get on your high horse
get on your nerves
get one wrong
get onto
get organized
get out
get out a sheet-anchor
get out of
get out of bed
get out of commission
get out of gear
get out of here
get out of joint
get out of kelter
get out of kilter
get out of line
get out of order
get out of the way of
get out of whack
get out of your depth
get over
get over the ground
get over with
get pickled
get plastered
get quit of
get quits with
get ready
get ready to
get red in the face
get religion
get rich
get rid of
get right
get round
get satisfaction
get scent of
get sea room
get set
get set for
get shet of
get shut of
get sidetracked
get smart
get some air
get some sack time
get some shut-eye
get something out of your system
get sore
get square with
get squared away
get taped
get the advantage
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
get the lead out of your ass
get the lie of the land
get the mastery of
get the meaning of
get the picture
get the power into your hands
get the show on the road
get the start
get the upper hand
get the works
get the worst of it
get there
get things into proportion
get through
get through to
get through with
get through your head
get through your thick head
get tired
get to
get to be
get to do
get to first base
get to know one another
get to the bottom of
get to the core
get to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
get your hopes up
get your mad up
get your money's worth
get your monkey up
get yourself a deal
get yourself in a sulk
get-at-ability
get-at-able
get-at-abeleness
get-away
get-away speed
get-off
get-out
get-together
get-tough
get-up
get-up-and-get
get-up-and-go
getah wax
getet out
getting along
going along in years
getting around
getting even
getting hold of
getting on
getting on in years
getting rid of
getting round
getting the hell out
getting with child
geyser basin
geyser cone
gharry-wallah
ghatti gum
ghetto-dwellers
ghost candle
ghost crab
ghost daemon
ghost dance
ghost edition
ghost food
ghost god
ghost gum
ghost hole
ghost line
ghost lodge
ghost lore
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bamboo
giant bass
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer

giant lily

giant lizard

giant of learning

giant order

giant panda

giant parsnip

giant petrel

giant planet

giant powder

giant ragweed

giant reed

giant rye grass

giant schnauzer

giant sea bass

giant sequoia

giant silkworm moth

giant size

giant slalom

giant sloth

giant snowdrop

giant star

giant step

giant steps

giant stride

giant sunflower

giant tortoise

giant water bug

giant-like

giant-sized

gib fish

gib plate

gib-cat

gib-head

gib-head key

gibbed cat

gibber bird

gibberelic acid

gibberelic acid

gibbet law

gibbet tree

gibble-gabble

gibble-gabbler

gibboso-
gibbous moon

gibby stick

gibe at

gibing retort
giblet-check  
giblet-checked  
giblet-cheek  
gibus hat  
giddy as a goose  
giddy-brained  
giddy-drunk  
giddy-go-round  
giddy-headed  
giddy-paced  
giddy-pated  
giddy-witted  
gier-eagle  
giff-gaff  
gift balsam  
gift certificate  
gift for  
gift of expression  
gift of gab  
gift of the gab  
gift of tongues  
gift rope  
gift shop  
gift tax  
gift with  
gift wrap  
gift wrapping  
gift-rope  
gift-wrap  
gift-wrapped  
gift-wrapper  
gift-wrapping  
gift-wrapt  
gifted child  
gifted person  
gig lamp  
gig machine  
gig mill  
gig-lamp  
gig-mill  
giga-  
gigaelectron volt  
gigant-  
giggle house  
gigot sleeve  
gila monster  
gild the lily  
gild the pill
gilding metal
gilding wax
gilgai soil
gill arch
gill bailer
gill bar
gill basket
gill book
gill box
gill cavity
gill chamber
gill cleft
gill comb
gill cover
gill filament
gill frame
gill fungus
gill helix
gill net
gill plume
gill pouch
gill rake
gill raker
gill rod
gill scoop
gill slit
gill-ale
gill-book
gill-cup
gill-flirt
gill-less
gill-like
gill-netter
gill-over-the-ground
gill-run
gill-shaped
gillie-wetfoot
gillie-whitefoot
gilling machine
gilling thread
gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gin peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl fridays
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girt-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give free course to
give free play to the emotions
give free rein to
give freely
give full authority
give full particulars
give full play
give full power
give good reasons for
give good returns
give greater draft fore and aft
give ground
give ground for expecting
give hail Columbia
give heed
give heed to
give hell
give help
give her beans
give her less rudder
give her more rudder
give homework
give honor to
give hope
give importance to
give in
give in charge
give in exchange
give in kind
give in marriage
give in return
give in trust
give indication of
give instruction
give instructions
give it a go
give it a second thought
give it all your got
give it no more thought
give it the gas
give it the gun
give it to
give it your all
give leave
give lessons in
give life to
give light
give line
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give one a scare
give one a turn
give one line
give onto
give or take a little
give origin to
give out
give out a smell
give out with
give over
give over to
give pain
give pause
give permission
give place
give place to
give pleasure
give power
give prominence
give prospect of
give publicity
give quarter
give reason for
give recognition
give refuge to
give rein to
give release
give relief
give respite
give rise to
give rope enough to
give salvation
give sanctuary to
give satisfaction
give security
give shelter to
give sign
give someone a dose
give someone enough rope
give someone his due
give someone the eye
give someone the slip
give someone your hand on
give something the gun
give sorrow words
give special attention to
give support
give surcease
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacies plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glance through
glance upon
glancing angle
glancing boom
glancing light
gland disease
glandular fever
glandular plague
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced

glass-fronted
glass-glazed
glass-green
glass-hard

glass-house
glass-lined
glass-maker

glass-man
glass-paneled
glass-paper
glass-topped
glass-work

glassed-in
glasses case
glassy-eyed

glauber's salt

glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green

glaucous-winged

glaze frost

glaze ice
glaze kiln

glaze wheel

glazed doughnut
glazed frost
glazed ware

glazier's point
glazing bar

glazing bead

glazing brad

glazing-bar

gleam of hope

gleam of light

gleaming smile

glean knowledge

glean learning

glebe house

glebe land

glee club

glee-eyed
glen nymph
glen-garry bonnet
gleno-
-glia cells
glib tongue
glib-gabbet
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
glide-bombing
glider bomb
glider train
gliding angle
gliding boat
gliding joint
gliding machine
glimmer gowk
glimmer of hope
glimmering goal
glitter ice
glittering generality
gloat on
gloat over
gloating pleasure
global rule
global war
globe amaranth
globe animalcule
globe artichoke
globe crowfoot
globe daisy
globe dollar
globe hyacinth
globe joint
globe lightning
globe lily
globe mallow
globe ranunculus
globe sight
globe thistle
globe tulip
globe valve
globe-girdler
globe-girdling
globe-shaped
globe-trot
globe-trotter
globe-trotting
globigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glom on to
gloomy Gus
gloomy outlook
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glosso-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut-
glutamic acid
glutaminic acid
gluteal region
glutei maximis
gluten bread
gluten feed
gluten flour
gluten meal
gluteus maximus
gluteus medius
gluteus minimus
glutton bird
glyc-
glycer-
glyceria wax
glyceric acid
glyceric aldehyde
glycerin jelly
glycerin lye
glycerin soap
glycero-
glycerol nitrate
glyceryl ester
glyceryl esters
glyceryl group
glyceryl monoacetate
glyceryl nitrate
glyceryl radical
glyceryl trinitrate
glyceryl trioleate
glyceryl tripalmitate
glyco-
glycogen disease
glycogenic acid
glycolic acid
glycollic acid
glyconic acid
glycuronic acid
glycyrhizae composita
glyoxyxyl urea
glyptic artist
glyptographic artist
gnamma hole
gnash your teeth
gnashing of teeth
gnat hawk
gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoïd-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
go by air
go by airline
go by fits and starts
go by plane
go by rail
go by ship
go by the board
go by the name of
go bye-bye
go cahoots
go cahoots with
go camping
go cap in hand to
go chase yourself
go contrary to
go counter to
go crabwise
go crackers
go crazy
go dead
go dead slow
go deaf
go deep
go deep into
go directly
go down
go down in the world
go down like a stone
go down on your knees to
go down the drain
go down to the sea in ships
go down with flying colors
go downhill
go easily
go easy
go easy on
go even stephen
go even stephen with
go far
go far afield
go fast
go fetch
go fifty-fifty
go fifty-fifty with
go fish
go fishing
go flat out
go fly a kite
go for
go for a Sunday drive
go for a burton
go for a drive
go for a ride
go for a spin
go for a walk
go for an airing
go for an outing
go for broke
go for the deck
go foreign
go forth
go forward
go free
go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm's way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading
go in with
go into
go into a funk
go into a huddle
go into a tail spin
go into a tailspin
go into a tantrum
go into convulsions
go into decay
go into detail
go into heart and soul
go into hiding
go into hysterics
go into litigation
go into mourning
go into orbit
go into outer space
go into partnership with
go into raptures
go into receivership
go into retirement
go into reverse
go into seclusion
go into shock
go into the money market
go into training
go into your pocket
go it alone
go jump in the lake
go kaput
go lame
go light
go like
go like a bat out of hell
go like a flash
go like a shot
go like a streak of lightning
go like clockwork
go like greased lightning
go like hot cakes
go like lightning
go like the wind
go long
go mad
go maku
go marketing
go native
go near
go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
igo out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
igo out of your way
go out on a limb
igo out on strike
go out the window
igo out with
go out with the ebb
go out with the tide
igo over
go over again and again
igo over and over
go over big
igo over like a lead balloon
go over step by step
igo over the board
igo over the ground
igo over the hill
igo over the same ground
igo over the side
igo over the top
igo over the wall
igo over to the enemy
igo over to the great majority
igo over to the majority
igo over your head
go overboard
go overseas
go partners
go peddle your fish
go phut
go pitapat
go pitter-patter
go places
go places and do things
go public
go right through
go roll your hoop
go round
go round Robin Hood's barn
go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
ngo short
ngo sideways
ngo sit on a tack
ngo slow
ngo slowly
ngo slumming
ngo snack
ngo soak your head
ngo soft
ngo soft at the edges
ngo steady
ngo step by step
ngo straight
ngo straight on
ngo straight to the point
ngo the dizzy rounds
ngo the limit
ngo the long way around
ngo the other way
ngo the round
ngo the rounds
ngo the route
ngo the same round
ngo the vole
ngo the way of all earth
ngo the way of all flesh
ngo the whole hog
ngo the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
go to seed
go to shivers
go to show
go to sleep
go to smash
go to smitherens
go to the bad
go to the bathroom
go to the bitter end
go to the bottom
go to the country
go to the deuce
go to the devil
go to the dogs
go to the electorate
go to the front for
go to the happy hunting grounds
go to the mat with
go to the trouble
go to the voters
go to the wall
go to town
go to town on
go to war
go to waste
go to windward
go to wrack and ruin
go to your glory
go to your head
go to your heart
go to your last home
go to your long account
go to your rest
go to your reward
go together
go too far
go treat
go under
go under a false name
go under an alias
go under an assumed name
go under false colors
go under false pretenses
go under the knife
go under the name of
go underground
go unrestrained
go up
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go uphill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
   go-getting
   go-go
   go-go dancer
   go-kart
   go-moku
   go-off
   go-quick
   go-slow policy
   go-to-itiveness
   go-to-meeting
   goa powder
   goad on
   goal area
   goal crease
   goal judge
   goal kick
   goal line
   goal minder
   goal net
   goal post
   goal posts
   goal stick
   goal tender
   goal tending
   goal-post mast
   goat antelope
   goat chaffer
   goat cheese
   goat fig
   goat god
   goat grass
   goat hair
   goat marjoram
   goat milker
   goat moth
   goat nut
   goat owl
   goat pepper
   goat pox
   goat rue
   goat's hair
   goat's-beard
   goat's-rue
   goat-bearded
   goat-drunk
   goat-eyed
   goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
goblet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-sphere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
goferor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
going out
going over
going price
going strong
going through
going to Jerusalem
going to happen
going to pieces
going to the polls
going train
going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
going on
going-on
going-over
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden rain
golden retriever
golden rose
golden rule
golden sable
golden saying
golden season of life
golden section
golden shower
golden silence
golden slumbers
golden spider lily
golden star
golden stars
golden syrup
golden thistle
golden time
golden touch, the
golden trout
golden tuft
golden vision
golden warbler
golden wattle
golden wedding
golden wedding anniversary
golden years, the
golden yellow
golden-ager
golden-banded
golden-banded lily
golden-bearded
golden-breasted
golden-brown
golden-cheeked
golden-chestnut
golden-colored
golden-crested
golden-crowned
golden-crowned kinglet
golden-cup
golden-cup oak
golden-cared
golden-eye
golden-eyed
golden-eyed fly
golden-eyed grass
golden-feather yellow
golden-fettered
golden-fingered
golden-footed
golden-fruited
golden-gleaming
golden-glowing
golden-green
golden-haired
golden-headed
golden-hilted
golden-hued
golden-leaved
golden-locked
golden-mouthed
golden-rain tree
golden-rayed
golden-rod
golden-spotted
golden-throned
golden-tipped
golden-toned
golden-tongued
golden-tressed
golden-voiced
golden-winged
golden-yellow
goldenrain tree
goldenrod tree
goldfish bowl
goldsmith beetle
golf bag
golf ball
golf cart
golf club
golf course
golf green
golf hose
golf links
golf red
golf shoe
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-paauw
gombeen-man
gombeen-men
gombroon ware
gomoku-zogan
gomuti palm
gon-
gondang wax
gondola back
gondola car
gone arrow
gone away
gone bad
gone begging
gone by
gone feeling
gone for a burton
gone glimmering
gone goose
gone off
gone on
gone out
gone out of your head
gone out of your recollection
gone the way of all flesh
gone to a better land
gone to a better place
gone to a better world
gone to dust
gone to glory
gone to kingdom come
gone to pot
gone to rack and ruin
gone to seed
gone to the bad
gone to the dogs
gone to waste
gone to wrack and ruin
gone west
gone-by
gong bell
gong buoy
gong drum
gong-gong
goni-
gono-
gonococcal arthritis
gonorrheal arthritis
gonorrheal rheumatism
goo-goo
goo-goo eyes
goobers pea
good Christian
good English
good Joe
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boy good girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good feeling
good fellow
good figure
good fist
good flavor
good folk, the
good footing
good for
good for a laugh
good for you
good form
good fortune
good friday
good friend
good full
good genius
good graces
good gracious
good guy
good hair
good hand
good health
good hearing
good heavens
good hope
good humor
good humour
good idea
good influence
good judge
good judgment
good lack
good life
good life, the
good looker
good looks
good loser
good lot
good luck
good man
good management
good manners
good marrow
good measure
good memory
good mixer
good morning
good morrow
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowhood
good-fellowish
good-fellowship
good-for
good-for-naught
good-for-nothing
good-for-nothingness
good-hearted
good-humored
good-humoredly
good-humoredness
good-humoured
good-humouredly
good-humouredness
good-liking
good-looker
good-looking
good-lookingness
good-luck charm
good-luck piece
good-mannered
good-morning-spring
good-mother
good-natured
good-natured banter
good-naturedly
good-naturedness
good-neighbor
good-neighbor policy
good-neighbourhood
good-night
good-o
good-oh
good-plucked
good-sister
good-size
good-sized
good-tasting
good-tempered
good-temperedly
good-temperedness
good-time
goodness gracious
goodness of fit
goodness of heart
goods and chattels
goods dollar
goods engine
goods for sale
goods train
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gumdrops
goody-good
goody-goodies
goody-goodiness
goody-goodness
goody-goodly
goody-goodlyness
goody-goody
goody-goodyism
goody-goodyniness
goof around
goof off
goof up
goof-off
goof-off time
goof-up
goofing off
googly-eyed
goony squad
gooney bird
goose barnacle
goose bumps
oose call
oose chase
oose club
oose corn
oose egg
oose file
oose flesh
oose grass
oose gray
oose grease
oose gull
oose pen
oose pimples
oose plant
goose plum
goose quill
goose rump
goose skin
goose step
goose tansy
goose teal
goose tree
goose walk
goose-beak whale
goose-bill
goose-cackle
goose-egg
goose-flesh
goose-fleshy
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gooseberry rust
gooseberry sawfly
gooseberry spanworm
gooseberry stone
gooseberry tomato
gooseberry tree
gooseberry wine
gooseberry-eyed
goosefoot family
goosefoot maple
gooseneck lamp
gooseneck slicker
goosewing jibe
gopher apple
gopher ball
gopher drift
gopher frog
gopher hole
gopher plant
gopher plum
gopher snake
gopher tortoise
gopher turtle
gopher wood
gopher-hole blast
gora log
gordian knot
gordon setter
gordura grass
gore strake
gore-fish
goreng pisang
gorge circle
gorge hook
gorge on
gorge wind
gorge yourself
gorgon plant
gorgon-headed
goring cloth
gorse duck
gorse hatcher
gos-lettuce
gosh-awful
gosh-darn
gosling color
gosling grass
gosling green
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fasion
gr wt
gr-s
graafian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
grab machine
grab off
grab one
grab rope
grab skipper
grab the thoughts
grab-all
grabbot gin
grace cup
grace drink
grace hoop
grace note
grace of expression
grace period
grace with
grace-and-favor
grace-and-favour
grace-cup
graceful gesture
gracious life
gracious living
grade bar
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
grade stake
graded post
graded school
gradient microphone
gradient post
gradient wind
gradual change
graduate assistant
graduate education
graduate nurse
graduate school
graduate student
graduate-professional
graduate-professional education
graduated scale
graduated student
graduated tape
graduated taxation
graduating engine
graduation exercises
graeco-
graft hybrid
graft-hybridism
graft-hybridization
grafting wax
graham bread
graham cracker
graham flour
graham wafer
grain alcohol
grain aphid
grain beetle
grain bill
grain bin
grain binder
grain borer
grain broker
grain carrier
grain cleaner
grain cradle
grain crusher
grain drill
grain elevator
grain farm
grain farmer
grain farming
grain founder
grain glove
grain gold
grain grower
grain growth
grain harvester
grain huller
grain lac
grain leather
grain louse
grain mark
grain mash
grain merchant
grain miller
grain moth
grain musk
grain of salt
grain of sand
grain oil
grain pan
grain refiner
grain rust
grain sack
grain sacker
grain sampler
grain screen
grain screener
grain shipper
grain side
grain smut
grain soap
grain sorghum
grain thresher
grain tin
grain traveler
grain weevil
grain weigher
grain-burnt
grain-carrying
grain-cleaning
grain-cut
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
graphic arts
graphic granite
graphic panel
graphic scale
graphic-texture
graphite steel
grapho-
grapier cement
grass-grown
grass-hook
grass-killing
grass-leaved
grass-mowing
grass-of-Parnassus
grass-plat
grass-roofed
grass-roots
grass-roots campaign
grass-roots movement
grass-tree
grass-tree gum
grass-woven
grass-wren
grasshopper engine
grasshopper escapement
grasshopper gauge
grasshopper lark
grasshopper lobster
grasshopper mouse
grasshopper sparrow
grasshopper warbler
grassland buttercup
grassland daisy
grassy-green
grassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
grave robber
grave robbing
grave sin
grave wax
grave-born
grave-bound
grave-browed
grave-clothes
grave-colored
grave-digger
grave-digging
grave-faced
grave-looking
grave-riven
grave-robbing
grave-toned
grave-visaged
grave-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravel-stone
gravel-walk
graven image
graves' disease
graves's disease
graveside oration
gravestone cutter
graveyard shift
graveyard vote
graveyard watch
graveyard weed
gravi-
gravimetric analysis
graving dock
graving piece
graving tool
gravitate toward
gravitation battery
gravitation constant
gravitational astronomy
gravitational collapse
gravitational constant
gravitational field
gravitational interaction
gravitational mass
gravitational wave
gravity battery
gravity cell
gravity clock
gravity conveyer
gravity dam
gravity escapement
gravity fault
gravity feed
gravity hinge
gravity knife
gravity meter
gravity pendulum
gravity plane
gravity railroad
gravity stamp
gravity star
gravity ventilation
gravity wave
gravity wind
gravity-circulation
gravity-fed
gravity-operated railway
gravo-
gravure microscope
gravure press
gravy boat
gravy eye
gravy soup
gravy train
gray birch
gray body
gray colors and pigments
gray dogwood
gray duck
gray eminence
gray fox
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray sour
gray squirrel
gray trout
gray whale
gray with age
gray with fear
gray wolf
gray-barked
gray-bearded
gray-bellied
gray-black
gray-blue
gray-bordered
gray-boughed
gray-breasted
gray-brindled
gray-brown
gray-cheeked
gray-cheeked thrush
gray-clad
gray-colored
gray-crowned
gray-drab
gray-eyed
gray-faced
gray-gowned
gray-green
gray-grown
gray-haired
gray-haired person
gray-headed
gray-headed person
gray-headed woodpecker
gray-hooded
gray-hued
gray-leaf
gray-leaf pine
gray-leaved
gray-lit
gray-mantled
gray-molding
gray-mustached
gray-necked
gray-speckled
gray-spotted
gray-tailed
gray-tailed cardinal
gray-tinted
gray-toned
gray-twagged
gray-veined
gray-white
gray-winged
grayback beetle
grayback herring
graybeard tree
graying temples
grayish-brown
graylag goose
graze by
graze the surface
grazing country
grazing region
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasing of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
great-circle track
great-coat
great-crested
great-eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grandaunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
great-stemmed
great-tailed
great-tailed grackle
great-uncle
great-witted
greater Bairam
greater Ionic
greater and greater
greater celandine
greater city
greater doxology
greater litany
greater multangular bone
greater omentum
greater prairie chicken
greater shearwater
greater weever
greater yellowlegs
greatest common divisor
greatest lower bound
greatest-integer function
greatly daring
greatness of heart
greatness of soul
grebe cloth
greco-
greedy as a hog
greedy eater
greedy guts
greedy-gut
greek catholic
greek cross
greek fire
greek orthodox
green Chartreuse
green June beetle
green alga
green algae
green apple
green as grass
green bag
green ball
green bass
green bean
green belt
green blindness
green book
green card
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-bag
green-banded
green-barked
green-barked acacia
green-belt
green-black
green-blind
green-blue
green-bodied
green-boled
green-bordered
green-bottle fly
green-boughed
green-breasted
green-breasted pheasant
green-clad
green-crested
green-cross gas
green-cross shell
green- curtained
green-decked
green-ear disease
green-edged
green-embroidered
green-eyed
green-eyed jealousy
green-eyed monster
green-faced
green-feathered
green-fish
green-flowered
green-fly
green-fringed
green-garbed
green-gilled
green-glazed
green-gold
green-gray
green-grown
green-haired
green-headed
green-headed widgeon
green-house
green-hued
green-leaved
green-legged
green-mantled
green- peak
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-twined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
gretta green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grid battery
grid bias
grid capacitor
grid circuit
grid condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grid-glow tube
grid-seal tube
gridle cake
gridle valve
gridiron drainage
gridiron pendulum
gridiron valve
gridiron-tailed lizard
grief dulled

grief oppressed

grief-bowed

grief-distraught

grief-exhausted

grief-inspired

grief-scored

grief-shot

grief-stricken

grief-worn


grievance committee

grieve for

grieve over

grieve with


grievous bodily harm

giffin-beaked

giffin-guarded

giffin-winged


griffon vulture

giffon-vulture

grigri man


grilled cheese sandwich

grim reality

grim reaper

grim-cheeked

grim-eyed

grim-faced


grim-featured

grim-frowning

grim-grinning


grim-looking

grim-set

grim-visaged


grimace at

grimm's law

grimy-handed


grin and abide

grin and bear it

grin at

grin like a Cheshire cat

grin like a chessey-cat


grind down

grind on

ground organ


ground to dust

ground to powder


ground whale

ground your teeth
grindery warehouse
grinding halt
grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grindle stone
grinning skull
grip block
grip car
grip of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
grizzly bear
grizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
 groin point
groin rib
groin vault
grommet nut
groo-groo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de naples
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived
gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground bass
ground beam
ground beef
ground beetle
ground birch
ground box
ground bridge
ground bundle
ground burnut
ground cable
ground cedar
ground centaury
ground chain
ground cherry
ground chestnut
ground chuck
ground circuit
ground cistus
ground clamp
ground cloth
ground clutter
ground coat
ground cock
ground color
ground combat
ground connection
ground control
ground control of aircraft
ground cover
ground crew
ground cricket
ground cuckoo
ground current
ground cypress
ground detector
ground dove
ground down
ground effect machine
ground elder
ground maple
ground meristem
ground mine
ground mold
ground moss
ground net
ground noise
ground note
ground oak
ground observer
ground on
ground out
ground owl
ground parakeet
ground parrot
ground pea
ground pearl
ground pig
ground pigeon
ground pike
ground pine
ground pink
ground pistachio
ground plan
ground plane
ground plate
ground plum
ground provisions
ground puppy
ground radar
ground raspberry
ground rat
ground rattan
ground rattler
ground rent
ground rent insurance
ground robin
ground roller
ground rope
ground round
ground row
ground rule
ground rules
ground saligot
ground school
ground sea
ground seal
ground shark
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
ground-line
ground-man
ground-nut
ground-pea
ground-pine
ground-plan
ground-plate
ground-plot
ground-rent
ground-sea
ground-sheet
ground-sluicer
ground-squirrel
ground-squirrel pea
ground-support aircraft
ground-swell
ground-tackle
ground-to-air
ground-to-ground
ground-water level
grounded on
groundhog day
grounding connection
groundless rumor
groundnut oil
grounds for belief
grounds for war
grounds keeper
groundsel bush
groundsel tree
group agglutination
group analysis
group annuity
group ascendency
group breaker
group captain
group drive
group dynamics
group flashing light
group insurance
group life insurance
group marriage
group medicine
group method
group mind
group mixture
group occulting light
group of advisers
group payment
group policy
group practice
group pressure
group psychology
group psychotherapy
group rate
group relations training
group representation
group sensitivity training
group shot
group test
group theory
group therapy
group velocity
group will
group with operators
group work
group-connect
group-conscious
grouper pea
groups of languages
grouse disease
grouse locust
grouth box
grouthead
grountlock brick
grove mast
grove palm
grove spar
grove tree
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grow to
grow together
grow up
grow weaker
grow weary
grow worse
growing degree-day
growing like a mushroom
growing lush
growing old
growing pains
growing point
growing rank
growing season
growing up
growl at
grown man
grown old
grown up
grown woman
grown-up
grown-upness
growth factor
growth force
growth form
growth fund
growth hormone
growth regulator
growth ring
growth shares
growth stock
grozing iron
grozing-iron
guerrilla tactics
guerrilla theater
guerrilla warfare
guess right
guess-rope
guess-warp
guess-work
guest flag
guest house
guest of honor
guest pass
guest right
guest room
guest rope
guest ticket
guest-chamber
guest-rope
guest-warp
guet-apens
guide block
guide card
guide center
guide dog
guide flag
guide fossil
guide left
guide meridian
guide mill
guide one's ear
guide pennant
guide pulley
guide rail
guide right
guide rope
guide word
guide yourself
guide-book
guide-post
guided control
guided missile
guided missile cruiser
guided wave
guider-in
guiding light
guiding principle
guiding principles
guiding star
guiding telescope
guild merchant
guild socialism
guild socialist
guild tree
guild-brother
guild-hall
guild-socialistic
guillotine amputation
guillotine shears
guilt offering
guilt-feelings
guilty act
guilty conscience
guilty verdict
guilty-cup
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroides
gum aloes
gum ammoniac
gum angico
gum anime
gum animi
gum arabic
gum archipin
gum benjamin
gum benzoain
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum dammar
gum disease
gum dragon
gum duct
gum elastic
gum elemi
gum euphorbium
gum flux
gum foam
gum galbanum
gum gattie
gum guaiac
gum guaiacam
gum guaiacum
gum guttae
gum hashab
gum juniper
gum kauri
gum kino
gum labdanum
gum mastic
gum mogador
gum myrrh
gum nut
gum olibanum
gum opoponax
gum plant
gum pocket
gum rash
gum resin
gum resins
gum rosin
gum sagapenum
gum sandarac
gum savakin
gum shellac
gum shiraz
gum silk
gum soap
gum spirit
gum spirits
gum spot
gum stick
gum storax
gum succory
gum sugar
gum thus
gum tragacanth
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
Gum-lac insect
Gum-myrtle
Gum-resinous
Gum-saline
Gum-shrub
Gum-top
Gum-top tree
gum-tree
Gumbo grass
Gumbo lily
Gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gumby bird
gummed up
gumming disease
gumming spade
gummy-legged
gumshoe man
gun assembler
gun barrel
gun bearer
gun boat
gun bore
gun breech
gun brig
gun captain
gun carriage
gun chamber
gun crew
gun deck
gun director
gun dog
gun down
gun emplacement
gun fight
gun fighter
gun fighting
gun firing
gun for
gun forger
gun forging
gun glaze
gun iron
gun lathe
gun loader
gun locksmith
gun makes
gun metal
gun moll
gun money
gun mount
gun park
gun parts
gun pendulum
gun pit
gun platform
gun power
gun room
gun sight
gun slide
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
gung ho
gung-ho
gunk hole
gunnery mission
gunnery oficer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gunny-bag
gunong api
gunpowder hammer
gunpowder tea
guns and launchers
gunstock stile
gunter iron
gunter lug
gunter rig
gunter's chain
gurgeon stopper
gurgina balsam
guri bori
gurjun balsam
guru nut
gush out
gush over
gushing rain
gusset plate
gusset stay
gussied up
gussy up
gustatory cell
gustatory delightfulness
gut course
gut reaction
gut response
gut spinner
gut with fire
gut-ache
gute Nacht
guten Abend
guten Morgen
guten Tag
gutless wonder
gutta balata
gutta dujan
gutta gamba
gutta gerip
gutta hangkang
gutta jangkar
gutta jelutong
gutta ketapang
gutta percha
gutta puan
gutta rosacea
gutta rosea
gutta sangei
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subjiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dyer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-eared
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half hour
half hunter
half island
half joe
half landing
half large
half leather
half life
half line
half mask
half measure
half measures
half mile
half model
half mourning
half nelson
half nephew
half niece
half noble
half note
half nut
half past
half pay
half pint
half plane
half points
half port
half principal
half rations
half ray
half relief
half rest
half rhyme
half ring
half ripsaw
half royal
half rupee
half scholar
half seal
half seas over
half sheave
half shell
half shirt
half shoe
half sir
half sister
half size
half small
half snipe
half sol
half sole
half sovereign
half space
half speed
half step
half stitch
half stock
half story
half stuff
half term
half tide
half timber
half time
half tint
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-accustomed
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 27973
half-ashamed
half-ashamedly
half-asleep
half-assed
half-awake
half-backed
half-baked
half-bald
half-ball
half-banked
half-baptize
half-barbarian
half-bare
half-barrel
half-beak
half-beam
half-begging
half-begun
half-belief
half-believed
half-believing
half-bent
half-binding
half-bleached
half-blind
half-blind joint
half-blindly
half-blood
half-blooded
half-blown
half-blue
half-board
half-boiled
half-boiling
half-boot
half-bound
half-bowl
half-breadth plan
half-bred
half-breed
half-brilliant cut
half-broken
half-broker
half-buried
half-burned
half-burning
half-bushel
half-butt
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-concealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-deprecatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-divinely
half-dollar
half-done
half-door
half-dozen
half-dram
half-dressed
half-dressedness
half-dried
half-drowned
half-drowning
half-drunk
half-drunken
half-dug
half-dying
half-eagle
half-earnest
half-earnestly
half-eaten
half-ebb
half-educated
half-embraced
half-embracing
half-embracingly
half-enamored
half-enforced
half-erased
half-evaporated
half-evaporating
half-evergreen
half-expectant
half-expectantly
half-exploited
half-exposed
half-face
half-face view
half-faced
half-false
half-famished
half-farthing
half-fascinated
half-fascinating
half-fascinatingly
half-fed
half-feminine
half-fertile
half-fertilely
half-fictitious
half-fictitiously
half-filled
half-finished
half-firkin
half-fish
half-flattered
half-flattering
half-flatteringly
half-flood
half-florin
half-folded
half-foot
half-forgiven
half-forgotten
half-formed
half-forward
half-frowning
half-frowningly
half-frozen
half-fulfilled
half-fulfilling
half-full
half-furnished
half-gallon
half-gill
half-god
half-great
half-grown
half-guinea
half-hard
half-hardy
half-harvested
half-headed
half-healed
half-heard
half-hearted
half-heathen
half-hidden
half-hitch
half-holiday
half-hollow
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingeniously
half-ingenuous
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intoned
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-liter
half-lived
half-lives
half-long
half-looper
half-lop
half-lunatic
half-lunged
half-mad
half-made
half-madly
half-madness
half-marked
half-marrow
half-mast
half-masticaed
half-matured
half-meant
half-measure
half-melted
half-mental
half-mentally
half-merited
half-miler
half-minded
half-minute
half-minute glass
half-miseducated
half-misunderstood
half-mitten
half-monitor
half-monthly
half-moon
half-moral
half-mourning
half-mumbled
half-mummified
half-naked
half-nelson
half-nephew
half-niece
half-noble
half-normal
half-normally
half-note
half-numb
half-nylon
half-obliterated
half-offended
half-on
half-one
half-open
half-opened
half-oriental
half-orphan
half-oval
half-oxidized
half-pace
half-pay
half-peck
half-petrified
half-pike
half-pint
half-pipe
half-pitch
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-sole
half-soled
half-solid
half-soling
half-souled
half-sovereign
half-spoonful
half-spun
half-squadron
half-staff
half-starved
half-starving
half-step
half-sterile
half-stock
half-stocking
half-stopped
half-strain
half-strained
half-stroke
half-strong
half-stuff
half-subdued
half-submerged
half-successful
half-successfully
half-succulent
half-suit
half-sung
half-sunk
half-sunken
half-swing
half-sword
half-syllabled
half-taught
half-tearful
half-tearfully
half-teaspoonful
half-tented
half-terete
half-term
half-theatrical
half-thickness
half-thought
half-tide
half-tide dock
half-timber
half-timbered
half-time
half-time intermission
half-timer
half-title
half-title page
half-tone
half-tongue
half-track
half-tracked
half-trained
half-training
half-translated
half-true
half-truth
half-truths
half-turn
half-turn stair
half-turned
half-turning
half-understood
half undone
half-used
half-utilized
half-value layer
half-veiled
half-vellum
half-verified
half-vexed
half-visibility
half-visible
half-volley
half-volleyed
half-volleyer
half-volleying
half-vowelish
half-waking
half-wave rectification
half-wave rectifier
half-way
half-whispered
half-whisperingly
half-white
half-wicket
half-wild
half-wildly
half-willful
half-willfully
half-winged
half-wit
half-witted
half-wittedly
half-wittedness
half-womanly
half-won
half-woolen
half-word
half-world
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e'en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hammer shank
hammer shell
hammer slag
hammer spring
hammer tail
hammer throw
hammer thrower
hammer throwing
hammer tongs
hammer welding
hammer-beam
hammer-cloth
hammer-hard
hammer-harden
hammer-head
hammer-proof
hammer-refined
hammer-shaped
hammer-strong
hammer-weld
hammer-welded
hammer-wrought
hammered work
hammerhead shark
hammerheaded shark
hammering glass
hammering out a deal
hamming up
hammock batten
hammock berthing
hammock clew
hammock cloth
hammock netting
hammy acting
hance arch
hancing piece
hand a sail
hand alphabet
hand and foot
hand and glove
hand ax
hand baggage
hand bell
hand blocker
hand brake
hand brush
hand camera
hand cannon
hand cheese
hand clapping
hand cleaner
hand composition
hand cream
hand director
hand down
hand drill
hand driller
hand dynamometer
hand embroidery
hand feeder
hand firer
hand fishing
hand flail
hand for hand
hand forward
hand gallop
hand gear
hand glass
hand goniometer
hand graver
hand grenade
hand guard
hand gun
hand hoe
hand hoer
hand hook
hand horn
hand in
hand in glove
hand in hand
hand in your checks
hand in your chips
hand in your resignation
hand infection
hand iron
hand ironer
hand it to
hand job
hand knitter
hand labor
hand laborer
hand language
hand laundry
hand lead
hand lens
hand letter
hand level
hand line
hand list
hand log
hand loom
hand lotion
hand luggage
hand mast
hand mill
hand miller
hand milling machine
hand miner
hand mirror
hand mixer
hand molder
hand money
hand mule
hand of death
hand of friendship
hand of glory
hand of writ
hand off
hand on
hand orchis
hand organ
hand out
hand over
hand over fist
hand over hand
hand over head
hand over your sword
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand’s-breadth
hand-ax
hand-ball
hand-barrow
hand-beaten
hand-blocked
hand-blown
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-lopped
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
hand-to-mouth
hand-to-mouth existence
hand-tooled
hand-treat
hand-trim
hand-turn
hand-vice
hand-wash
hand-weave
hand-weed
hand-worked
hand-woven
hand-wrist
hand-wrought
handed down
handflower tree
handful of thumbs
handicap race
handicapped person
handicapped, the
handicraft economy
handie-talkie
handing over
handkerchief table
handle bar
handle bars
handle blank
handle it just right
handle to your name
handle with gloves
handle with kid gloves
handle with velvet gloves
handle yourself
handle yourself well
handle-bar mustache
handlebar moustache
handmaid moth
handrail bolt
hands down
hands of
hands-down
hands-off
hands-off policy
handsome fortune
handsome-featured
handwriting expert
handwriting on the wall
handy at
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indentation
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hanky-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
hapl-
haplo-
haploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hara-kin
hara-kiri
harbinger-of-spring
harbingers-of-spring
harbor a design
harbor a feeling
harbor an idea
harbor deck
harbor doubts
harbor due
harbor furl
harbor gasket
harbor log
harbor master
harbor of refuge
harbor pilot
harbor porpoise
harbor resentment
harbor revenge
harbor seal
harbor stow
harbor suspicions
harbor the hope
harbor watch
harbour master
harbour seal
hard alee
hard and fast
hard and fast rule
hard aport
hard as a rock
hard as nails
hard astarboard
hard at it
hard at work
hard aweather
hard bargain
hard binding
hard blow
hard book
hard bop
hard by
hard candy
hard cash
hard chancre
hard cheese
hard cider
hard clam
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard drink
hard drinker
hard drug
hard fact
hard feelings
hard fern
hard fescue
hard frost
hard goods
hard grass
hard grind
hard ground
hard hat
hard head
hard heart
hard image
hard information
hard job
hard knocks
hard labor
hard labour
hard landing
hard lay
hard lead
hard life
hard line
hard lines
hard liquor
hard look
hard lot
hard luck
hard man with a buck
hard maple
hard market
hard mass
hard masse
hard master
hard money
hard news
hard nut to crack
hard oat grass
hard of belief
hard of hearing
hard of heart
hard on
hard on the eyes
hard over
hard palate
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favoredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-haired
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set  
hard-shell  
hard-shell clam  
hard-shell crab  
hard-shelled  
hard-skinned  
hard-spirited  
hard-spun  
hard-surface  
hard-surfaced  
hard-swear  
hard-tack  
hard-timbered  
hard-trotting  
hard-tube pulser  
hard-upness  
hard-uppishness  
hard-used  
hard-visaged  
hard-wear  
hard-witted  
hard-won  
hard-wooded  
hard-worked  
hard-working  
hard-wrought  
hard-wrung  
harden off  
harden up  
harden your heart  
hardening of the arteries  
hardhead sponge  
hardly a chance  
hardly any  
hardly anything  
hardly ever  
hardly expect  
hardly like  
hardly possible  
hardly the thing  
hardly touch  
hardly wait  
hardness of hearing  
hardness of heart  
hardness scale  
hardtop convertible  
hardware cloth  
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariali grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harpy-bat
harpy-eagle
harpy-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
hautbois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity
have place
have play
have plenty of time
have plenty on the ball
have power
have power over
have preference
have prestige
have priority
have proof
have pull
have qualms
have quite enough
have rather
have recourse to
have regard for
have repercussions
have reservations
have run its course
have run out
have savvy
have scruples
have second thoughts
have seen better days
have seen your best days
have seen your day
have sex
have sexual relations
have simple faith in
have smarts
have someone on
have something
have something laid by
have something on
have something on the ball
have something on the brain
have something to draw on
have sown your wild oats
have sternway on
have subject
have suction
have suffrage
have suspicions
have tenure
have tenure of
have tenure of appointment
have that or nothing
have the advantage of
have the appearance of
have the ascendency
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barrack
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottes
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
hazy recollection
he-all
he-balsam
he-broom
he-cabbage-tree
he-goat
he-he!
he-heather
he-holly
he-huckleberries
he-huckleberry
he-man
he-mannish
he-men
he-oak
head and front of your offending
head and head
head and shoulders
head arrangement
head away from
head betony
head blight
head block
head butt
head cold
head collar
head count
head covering
head deformation
head earing
head fast
head flume
head fold
head for
head for blue water
head for the bottom
head form
head gate
head harness
head house
head index
head into
head joint
head kidney
head knee
head lamp
head lettuce
head log
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakeroot
heart starter
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
heart-fallen
heart-fashion
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rending
heart-rendingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wringing
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat equivalent
heat exchange
heat exchanger
heat exhaustion
heat factor
heat fever
heat lamp
heat lightning
heat nodules
heat of condensation
heat of fusion
heat of solidification
heat of sublimation
heat of vaporization
heat potential
heat prostration
heat pump
heat rash
heat ray
heat regulator
heat reservoir
heat rigor
heat science
heat seeker
heat shield
heat sink
heat spectrum
heat spot
heat sum
heat the economy
heat therapy
heat treating
heat treatment
heat unit
heat up
heat up the economy
heat wave
heat weight
heat-absorbing
heat-conducting
heat-cracked
heat-drop
heat-engine cycle
heat-forming
heat-full fire
heat-giving
heat-island
heat-killed
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poul	
heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
heaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven-given
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heaven-protected
heaven-reaching
heaven-rending
heaven-sent
heaven-sprung
heaven-sweet
heaven-taught
heaven-threatening
heaven-touched
heaven-warring
heaven-wide
heavenly bamboo
heavenly being
heavenly body
heavenly fruit
heavenly hierarchy
heavenly host
heavenly kingdom
heavenly-minded
heavenly-mindedness
heavens and earth
heavenward tree
heaver-off
heaver-out
heaver-over
heavier-than-air
heavier-than-air craft
heaviness of heart
heaving aloft
heaving pile
heaving up
heaving-line bend
heaviside layer
heavy artillery
heavy as lead
heavy blow
heavy bomber
heavy chemicals
heavy cream
heavy cruiser
heavy demand
heavy dew
heavy dragoon
heavy drinker
heavy drinking
heavy earth
heavy eyelids
heavy field artillery
heavy force fit
heavy hand
heavy harmony
heavy heart
heavy hydrogen
heavy lead
heavy meal
heavy metal
heavy mineral oil
heavy nitrogen
heavy object
heavy oil
heavy on
heavy oxygen
heavy particle
heavy particle counter
heavy pine
heavy platinum group
heavy purse
heavy rain
heavy right foot
heavy sea
heavy sin
heavy sky
heavy sledding
heavy sleep
heavy smoker
heavy solution
heavy spar
heavy swell
heavy thinking
heavy transport
heavy water
heavy weather
heavy wet
heavy wine
heavy with child
heavy with meaning
heavy with significance
heavy with sleep
heavy with young
heavy-armed
heavy-bearded
heavy-blossomed
heavy-bodied
heavy-boned
heavy-booted
heavy-boughed
heavy-drinking
heavy-duty
heavy-eared
heavy-eyed
heavy-faced
heavy-featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy-fruited
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-metttled
heavy-mouthed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
hedge bruenser
heddle knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
hedged about
hedged about by
hedged by
hedged in
hedged-in
hedgehog aloe
hedgehog cactus
hedgehog caterpillar
hedgehog coneflower
hedgehog gourd
hedgehog grass
hedgehog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
heebie jeebies
heebie-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimmer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparenacy
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heiress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astraboard
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmeted guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendeca-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
herald's trumpet
heraldic device
heraldic heiress
heraldic insignia
heraldic knot
heraldic official
heraldic officials
heralds' college
herb Christopher
herb Gerard
herb Paris
herb Robert
herb bennet
herb doctor
herb john
herb of grace
herb paris
herb patience
herb robert
herb-grace
herb-woman
herbaceous border
herbs Paris
herbs Robert
herbs patience
hercules beetle
hercules' club
hercules'-club
herd instinct
herd together
herd's grass
herd's-grass
herd-book
hew down
hew-hole
hex doctor
hex mark
hex sign
hex-
hexa-
hexacosanoic acid
hexadecanoic acid
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hic et ubique
hic Jacet
hic-cough
hiccius doccius
hiccup-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruited
hidden-veined
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high regard
high relief
high renaissance
high repute
high road
high rod
high roller
high school
high schooler
high sea
high seas
high season
high seat
high sign
high society
high specific activity
high spirits
high spot
high standard of living
high steel
high street
high summer
high table
high tax bracket
high tea
high tech
high tide
high time
high treason
high up
high value
high visibility
high voice
high water
high wind
high wine
high wines
high wire
high wire artist
high words
high yellow
high-aimed
high-aiming
high-altitude bombing
high-altitude flying
high-altitude research aircraft
high-altitude research rocket
high-altitude rocket
high-and-mightiness
high-and-mighty
high-angle fire
high-angle gun
high-angled
high-arched
high-aspiring
high-backed
high-binder
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-boiling
high-boned
high-born
high-breasted
high-bred
high-brow
high-browed
high-browish
high-browishly
high-browism
high-built
high-button shoes
high-caliber
high-calorie diet
high-camp
high-case
high-caste
high-ceiled
high-ceilinged
high-churchman
high-class
high-climber
high-climbing
high-collared
high-colored
high-coloured
high-complexioned
high-compression
high-count
high-crested
high-crowned
high-cut
high-density
high-duty
high-elbowed
high-embowed
high-energy particle
high-explosive
high-explosive charge
high-explosive shell
high-falutin
high-faluting
high-fated
high-feathered
high-fed
high-fidelity
high-fidelity speaker
high-fidelity system
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-grade ore
high-grade stock
high-grown
high-handed
high-handedly
high-handedness
high-hat
high-hat cymbals
high-hatted
high-hattedness
high-hatter
high-hattiness
high-hatting
high-hatty
high-headed
high-heaped
high-hearted
high-heel
high-heeled
high-hoe
high-holder
high-hole
high-horned
high-hung
high-intensity lamp
high-judging
high-key
high-keyed
high-level
high-level language
high-level talk
high-lineaged
high-lived
high-living
high-lone
high-low
high-low-jack
high-lows
high-lying
high-mettled
high-minded
high-mindedly
high-mindedness
high-motived
high-mounted
high-mounting
high-mu tube
high-muck-a
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-poopéd
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hillbilly music
hillock tree
hillside plow
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
hinge joint
hinge line
hinge on
hinge plate
hinge strap
hinge tooth
hinge upon
hinge-pole
hinged joint
hinging on
hinging post
hinoki cypress
hint at
hip and thigh
hip bath
hip boot
hip boots
hip brier
hip disease
hip flask
hip girdle
hip joint
hip knob
hip lock
hip molding
hip pocket
hip rafter
hip roll
hip roof
hip rose
hip straps
hip tile
hip vertical
hip-and-valley roof
hip-bone
hip-girdle
hip-gout
hip-huggers
hip-joint
hip-roof
hip-roofed
hip-shot
hipo-
hipp-
hipped on
hipped roof
hippety-hop
hippety-hoppety
hippo-
hippocampal convolution
hippocampal gyrus
hippocras bag
hippocratic oath
hirdie-girdie
hirdum-dirdum
hire on
hire out
hire purchase
hire purchase plan
hire-purchase
hire-purchase system
hired applauder
hired car
hired girl
hired gun
hired hand
hired help
hired killer
hired limousine
hired man
hiri Motu
hiring hall
hirse grass
hirsuto-rufous
his heels
his honor
his lordship
his nibs
his phoenix down
his self
his worship
hispano-
hissing sounds
hist-
histamine shock
histo-
historic episcopate
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skip
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary eld
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hoary-white
hob ferret
hob tap
hob-and-nob
hob-nob
hob-thrush
hobble skirt
hobble-bush
hobbling pilot
hobby shop
hobby-horse
hobnail glass
hobnailed shoes
hobnob with
hobo camp
hobo jungle
hobson's choice
hobson-jobson
hoc anno
hoc est
hock a tchainik
hock cockle
hock leg
hock shop
hock-cart
hock-day
hockey cart
hockey gloves
hockey skate
hockey skates
hockey stick
hocking ale
hocus-pocus
hocus-pocused
hocus-pocusing
hocus-pocussed
hocus-pocussing
hod carrier
hoddy-doddy
hodge-podge
hodge-pudding
hodgkin's disease
hoe culture
hoe drill
hoe in
hoe into
hoe-cake
hoe-plough
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-mouthed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hogger pump
hogging-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitness
hoity-toity
hoity-toitysm
hoity-toityness
hoke act
hoke comic
hoke up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold conference
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
hollow-forging
hollow-fronted
hollow-ground
hollow-hearted
hollow-horned
hollow-jawed
hollow-pointed
hollow-root
hollow-toned
hollow-toothed
hollow-vaulted
hollow-voiced
hollow-ware
holly fern
holly green
holly oak
holly-green
holly-leaved
hollyhock anthracnose
hollyhock fungus
hollyhock rust
hollywood bed
holm cock
holm oak
holm thrush
holm tree
holm-oak
holm-tree
holo-
holocrine gland
holographic will
holstein-friesian
holster pipe
holus-bolus
holy Christ
holy Christmas
holy Moses
holy bread
holy cats
holy city
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
home towner
home truth
home-
home-abiding
home-along
home-baked
home-born
home-bred
home-brew
home-brewed
home-bringing
home-building
home-built
home-come
home-coming
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-sickness
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac
homing device
homing guidance
homing pigeon
homing rocket
homing torpedo
hominy grits
homme de cour
homme moyen sensuel
homo faber
homo sapiens
homo signorum
homo-
homo-hetero-analysis
homo-organ
homoeo-
homogeneous coordinates
homogeneous reactor
homogenized milk
homogentisic acid
homoi-
homoio-
homologous chromosomes
homologous vaccine
homolographic projection
homolosine projection
homolytic fission
homonymous construction
homosexual marriage
homosexual neurosis
homothetic transformation
hone for
honest as the day is long
honest injun
honest man
honest person
honest sweat
honest woman
honest-to-God
honey ant
honey badger
honey bag
honey ball
honey balm
honey bear
honey beige
honey bell
honey bird
honey blond
honey bottle
honey bread
honey bunch
honey buzzard
honey cake
honey cherry
honey child
honey clover
honey creeper
honey crisp
honey eater
honey extractor
honey fly
honey fungus
honey garlic
honey gilding
honey gland
honey grass
honey guide
honey jack
honey kite
honey locust
honey lotus
honey maker
honey making
honey mesquite
honey moth
honey mouse
honey mushroom
honey palm
honey plant
honey ratel
honey sac
honey stomach
honey tree
honey tube
honey up
honey vine
honey weasel
honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honesuckle ornament
honesuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hooked on
hooked rug
hookem-snivey
hooker-off
hooker-on
hooker-out
hooker-over
hooker-up
hookup wire
hookworm disease
hooky-crooky
hoop ash
hoop back
hoop bundler
hoop iron
hoop petticoat
hoop pine
hoop shell
hoop skirt
hoop snake
hoop tension
hoop tree
hoop willow
hoop withe
hoop-back
hoop-coop plant
hoop-la
hoop-petticoat
hoop-petticoat narcissus
hoop-shaped
hoop-stick
hooping-cough
hoopla campaign
hoosier town
hoot owl
hoot toot
hootchie-kootchie
hootchy-kootch
hootchy-kootchies
hootchy-kootchy
hootchy-kootchy show
hoover apron
hop along
hop aphid
hop back
hop borer
hop clover
hop dog
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o'-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horizon glass
horizontal axis
horizontal bar
horizontal deflector
horizontal engine
horizontal fault
horizontal fire
horizontal line
horizontal mobility
horizontal parallax
horizontal plane
horizontal projection
horizontal stabilizer
horizontal synchronizer
horizontal synchronizing pulse
horizontal union
hormic psychology
hormic theory
horn alligator
horn arrester
horn balance
horn bar
horn bowsprit
horn bug
horn chestnut
horn die
horn fly
horn gap
horn gate
horn in
horn knot
horn lead
horn of Amalthea
horn of plenty
horn ore
horn player
horn poppy
horn pout
horn pox
horn reflector
horn silver
horn timber
horn-book
horn-eyed
horn-fish
horn-footed
horn-mad
horn-madness
horn-owl
horn-plate
horn-rimmed
horn-rimmed glasses
horn-rims
horn-shaped
horn-silver
horn-silver
horn-wood
hornbill cuckoo
hornblende schist
hornblende-gabbro
horned dinosaur
horned lark
horned lizard
horned owl
horned poppy
horned pout
horned rattlesnake
horned screamer
horned snake
horned toad
horned viper
horned whiff
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-struck
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse trainer
horse training
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
hostages to fortune
hostel school
hostess gown
hostess house
hostess-ship
hostile criticism
hostile expedition
hostile personality
hostile reaction
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggety
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-air
hot-air artist
hot-air balloon
hot-air engine
hot-air heat
hot-air heating
hot-air treatment
hot-air-heat
hot-air-heated
hot-blast
hot-blast system
hot-blooded
hot-bloodedness
hot-brain
hot-breathed
hot-bright
hot-broached
hot-bulb engine
hot-cathode tube
hot-cold
hot-deck
hot-dip coating
hot-dipped
hot-dog
hot-dog stand
hot-draw
hot-drawing
hot-drawn
hot-drew
hot-dry
hot-eyed
hot-foot
hot-forged
hot-galvanize
hot-gospeller
hot-headed
hot-hoof
hot-house
hot-house plant
hot-humid
hot-livered
hot-metal typesetting
hot-mettled
hot-mix
hot-moist
hot-pot
hot-press
hot-presser
hot-punched
hot-roll
hot-rolled
hot-short
hot-shortness
hot-shot
hot-spirited
hot-spot
hot-spotted
hot-spotting
hot-stomached
hot-stove league
hot-swage
hot-tempered
hot-vulcanized
hot-water bag
hot-water bottle
hot-water cylinder
hot-water fit
hot-water heater
hot-water heating
hot-water pipe
hot-water-heat
hot-water-heated
hot-windy
hot-wire
hot-wire meter
hot-wire microphone
hot-work
hot-work steel
hothouse sash
hotel broker
hotel detective
hotel lock
hotel manager
hotel rack
hothouse lamb
hotsy-totsy
hotted up
hough-sinew
hound dog
hound on
hound to destruction
hound’s tooth
hound’s-tongue
hound’s-tooth
hound’s-tooth check
hound-dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house jobber
house knacker
house lights
house manager
house martin
house mosquito
house mouse
house mover
house moving
house of God
house of assembly
house of assignation
house of burgesses
house of cards
house of commons
house of correction
house of death
house of delegates
house of detention
house of ill fame
house of ill repute
house of joy
house of life
house of lords
house of prayer
house of prostitution
house of representatives
house of worship
house organ
house painter
house party
house physician
house place
house plan
house plant
house servant
house slipper
house snake
house sparrow
house staff
house steward
house surgeon
house tax
house track
house trailer
house trap
house trim
house wagon
house wrecker
house wren
house-boat
house-broken
house-builder
house-cap
house-craft
house-dog
house-dove
house-father
house-headship
house-mother
house-place
house-proud
house-raising
house-room
house-search
house-to-house
house-to-house combat
house-top
house-train
house-warming
housed string
household ammonia
household art
household cavalry
household effects
household franchise
household goddess
household gods
household goods
household name
household suffrage
household troop
household troops
household word
household words
household-stuff
housemaid's knee
housey-housey
housing bill
housing development
housing estate
housing problem
housing project
housing scheme
hove to
hover fly
hover hawk
hover over
hovering accent
hovering act
how about that
how are you
how come
how do
how do you do
how does she head
how far
how goes it
how is it that
how is your rudder
how it goes
how it is
how now
how should I know
how the land lies
how the wind blows
how they fall
how things are
how things stack up
how things stand
how you doin'
how's every little thing
how's the world treating you
how's things
how's tricks
how-d'ye-do
how-de-do
how-do-ye
how-do-ye-do
how-do-you-do
how-to
how-to book
howdy-do
however that may be
howgozit curve
howl down
howl like all the devils of hell
howler monkey
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
hudder-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully guily
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
human mountain
human nature
human paleontology
human race
human rights
human sacrifice
human species
human weakness
human wreck
human-headed
human-interest story
humane letters
humane society
humanistic scholarship
humanistic therapy
humanized vaccine
humanly possible
humanum est errare
humble apology
humble pie
humble plant
humble yourself
humble yourself before
humble-bee
humble-looking
humble-mannered
humble-minded
humble-mindedly
humble-mindedness
humble-spirited
humble-visaged
humbled pride
humbug-proof
humeral veil
humeral veil
humero-
humero-olecranal
humic acid
humid weather
humidity control
humidity indicator
humidity instrument
humidity wind rose
humidity-proof
humiliate yourself
humite group
hummel corn
humming top
humming-bird
hummingbird moth
hump it
hump speed
hump yard
hump yourself
hump-backed
hump-shaped
hump-shoulder
hump-shouldered
humpback bridge
humpback whale
humpbacked salmon
humped cattle
humpty dumpty
humpty-dumpty
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hydraulic coupling
hydraulic engine
hydraulic engineer
hydraulic fluid
hydraulic jump
hydraulic lift
hydraulic machinery
hydraulic mining
hydraulic motor
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic tailgate
hydraulic torque converter
hydraulic-fill dam
hydraulico-
hydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen sulphite
hydrogen tartrate
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydrophobia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydrotelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hydroxy-
hydroxyacetic acid
hydroxybenzoic acid
hydroxybutyric acid
hydroxyl group
hydroxyl radical
hydroxysuccinic acid
hyena poison
hyena-dog
hyet-
hyetal wind rose
hyeto-
hygr-
hygro-
hyl-
hylo-
hymeneal rites
hymeno-
hymn book
hymn maker
hymn making
hymn of praise
hymn singer
hymn singing
hymn tune
hymn writer
hymn writing
hymn-loving
hymn-tune
hymnal stanza
hypo-
hyodeoxycholic acid
hyodesoxycholic acid
hyoid bone
hyp-
hypabyssal rock
hyped up
hyper-
hyper-Dorian
hyperbaric therapy
hyperbolic function
hyperbolic geometry
hyperboreal blast
hyperborean blast
hyperchromic anemia
hypercomplex number
hyperemesis gravidarum
hyperesthesia theory
hyperfine structure
hyperfocal distance
hypergeometric distribution
hypergeometric equation
hypergeometric function
hyperplastic inflammation
hypersonic speed
hypertensive heart disease
hypertrophic arthritis
hypertrophic inflammation
hyphenated American
hypn-
hypnagogic image
hypno-
hypnotic sleep
hypnotic somnolence
hypnotic suggestion
hypnotic trance
hypo ionian mode
hypo-
hypo-alum
hypo-ovarianism
hypoaeolian mode
hypoantimonic acid
hypochlorous acid
hypochromic anemia
hypocotyl arch
hypocrite plant
hypodermic injection
hypodermic needle
hypodermic syringe
hypodermic tablet
hypodorian mode
hypodynamia cordis
hypogastric artery
hypoglossal nerve
hypoglycemic shock
hypoglycemic shock therapy
hypoid gear
hypoionian mode
hypolocrian mode
hypolydian mode
hypomixolydian mode
hyponitrous acid
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophysis cerebri
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypotheçated stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyps-
hypsi-
hypos-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysterical aphony
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysteror proteron
hysteror-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
ia-
ianic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice lead
ice line
ice lolly
ice machine
ice maker
ice making
ice master
ice milk
ice nail
ice needle
ice over
ice pack
ice pail
ice paper
ice partridge
ice pellets
ice period
ice petrel
ice pick
ice pillar
ice pilot
ice pink
ice pinnacle
ice plant
ice plow
ice point
ice raft
ice rain
ice rampart
ice rink
ice river
ice run
ice scraper
ice shaver
ice shed
ice sheet
ice shelf
ice ship
ice show
ice skate
ice skates
ice skating
ice sky
ice spar
ice spur
ice stick
ice storm
ice stream
ice ton
ice tongs
ice tongue
ice up
ice water
ice whale
ice yacht
ice yachting
ice yachtsman
ice-bird
ice-blind
ice-boat
ice-bolt
ice-bound
ice-breaker
ice-breaking
ice-brook
ice-built
ice-cap
ice-capped
ice-chipping
ice-clad
ice-cold
ice-cool
ice-cooled
ice-covered
ice-cream
ice-cream cone
ice-cream fork
ice-cream freezer
ice-cream soda
ice-cream sundae
ice-crushing
ice-crusted
ice-cube
ice-cube machine
ice-cubing
ice-cutting
ice-encrusted
ice-enveloped
ice-fall
ice-field
ice-floe
ice-foot
ice-free
ice-green
ice-hill
ice-hook
ice-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
ice-skate
ice-skated
ice-skating
ice-stream
ice-work
 iceberg lettuce
icebox cake
iced coffee
iced tea
iced-tea spoon
iceland moss
iceland poppy
iceland spar
ich dien
ichn-
icheumon fly
ichneumon-
icthys-
icthy-
icthysocious
ichthyophthirius disease
icing sugar
icon-
iconic memory
icono-
icos-
icterus index
icy blasts
icy calm
icy clutch of dread
icy fingers of dread
icy nerves
icy pole
icy wind
icy-cold
id est
idea afloat
idea man
idea of pure reason
idea of reference
idea, the
ideal element
ideal gas
ideal gas equation or law
ideal gas law
ideal of pure reason
ideal point
ideal specific impulse
ideal type
idee fixe
idee-force
idee-maitresse
identical equation
identical proposition
identical rhyme
identical same
identical twin
identical twins
identification badge
identification bracelet
identification light
identification mark
identification parade
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
idiot board
idiot box
idiot card
idiot savant
idiot savants
idiot sheet
idiot stitch
idiot work
idiot's delight
idiotic grin
idiots savants
idle away
idle away time
idle chat
idle chatter
idle chitterer
idle current
idle fancy
idle gear
idle gossip
idle hands
idle hours
idle pulley
idle rich
idle talk
idle threat
idle wheel
idle-brained
idle-handed
idle-headed
idle-looking
idle-minded
idle-pated
idle-witted
idler gear
idler pulley
idler wheel
idol breaker
idol worship
idol worshiper
idol worshiping
idolo-
idols of the cave
idols of the forum
idols of the market place
idols of the theater
idols of the tribe
idonic acid
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius' bean
igneous rock
ignes fatui
igni-
ignis fatuous
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignobile vulgus
ignominious defeat
ignoratio elenchi
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ikrar-namah
il Duce
il-
ilang-ilang
ile-
ilo-ileostomy
iliac artery
ilio-
ilio-inguinal
iliotibial band
ill at ease
ill blood
ill breeding
ill disposition
ill done-by
ill fame
ill feeling
ill fortune
ill hap
ill health
ill house
ill humor
ill humored
ill humour
ill luck
ill manners
ill nature
ill off
ill repute
ill service
ill success
ill temper
ill turn
ill usage
ill use
ill will
ill wind
ill-
ill-according
ill-accoutered
ill-accustomed
ill-achieved
ill-acquired
ill-acted
ill-adapted
ill-adventured
ill-advised
ill-advisedly
ill-affected
ill-affectedly
ill-affectedness
ill-agreeable
ill-agreeing
ill-annexed
ill-armed
ill-arranged
ill-assimilated
ill-assorted
ill-assorted marriage
ill-at-ease
ill-balanced
ill-balanced sentences
ill-befitting
ill-begotten
ill-behaved
ill-being
ill-beseeming
ill-bested
ill-boding
ill-born
ill-borne
ill-breathed
ill-bred
ill-bred fellow
ill-built
ill-calculating
ill-cared
ill-celebrated
ill-cemented
ill-chosen
ill-clad
ill-cleckit
ill-coined
ill-colored
ill-come
ill-comer
ill-composed
ill-concealed
ill-conceived
ill-concerted
ill-conditioned
ill-conditionedness
ill-conducted
ill-considered
ill-consisting
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-farzeled
ill-faring
ill-faringly
ill-fashioned
ill-fated
ill-fated life
ill-fatedness
ill-favor
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friend
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-gotten
ill-gotten gains
ill-governed
ill-greeting
ill-grounded
ill-hap
ill-headed
ill-health
ill-housed
ill-humor
ill-humored
ill-humored person
ill-humored woman
ill-humoredly
ill-humoredness
ill-humoured
ill-humouredly
ill-humouredness
ill-imagined
ill-informed
ill-intentioned
ill-invented
ill-joined
ill-judge
ill-judged
ill-judging
ill-kempt
ill-kept
ill-knotted
ill-less
ill-lighted
ill-limbed
ill-lit
ill-lived
ill-looking
ill-lookingness
ill-made
ill-manageable
ill-managed
ill-mannered
ill-manneredly
ill-manneredness
ill-mannerly
ill-marked
ill-matched
ill-mated
ill-meant
ill-met
ill-minded
ill-mindedly
ill-mindedness
ill-natured
ill-naturally
ill-naturedness
ill-neighboring
ill-noised
ill-nurtured
ill-observant
ill-occupied
ill-omened
ill-omenedness
ill-paid
ill-persuming
ill-persuaded
ill-placed
ill-pleased
ill-proportioned
ill-provided
ill-qualified
ill-regulated
ill-requisite
ill-requited
ill-resounding
ill-rewarded
ill-roasted
ill-rulled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeeding
ill-suited
ill-suiting
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-willie
ill-willing
ill-willy
ill-wish
ill-wisher
ill-won
ill-worded
ill-written
ill-wrought
ill-yoked
illegal commerce
illegal operations
illegal traffic
illegible handwriting
illegitimate business
illegitimate child
illicit business
illicit businessman
illicit love
ilipe butter
illiterate speech
ills the flesh is heir to
illuminating engineer
illuminating engineering
illuminating gas
illuminating oil
illuminating projectile
illupi oil
illusion-proof
im-
image breaker
image breaking
image converter
image dissector
image iconoscope
image intensifier
image orthicon
image space
image tube
image worship
image-breaker
image-breaking
image-maker
image-matched input resistance
image-matched output resistance
image-worship
imageless thought
imagery study
imaginal bud
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbibition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imido group
imido radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermilion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolate before
immortal hand
inmortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
immunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
imperial eagle
imperial elephant
imperial gallon
imperial jade
imperial mammoth
imperial moth
imperial octavo
imperial purple
imperial quarto
imperialist threat
imperially slim
imperium in imperio
impersonal verb
impervious to
impervious to light
impervious to persuasion
imperviousness to light
impinge on the eye
impinge on your consciousness
impingement attack
impious person
implant in
implantation cone
implicate yourself
implicated in
implicit belief
implicit consent
implicit differentiation
implicit function
implicit function theorem
implied contract
implied meaning
implied threat
implore counsel
implore mercy
import credit
import tax
important person
important persons
important point
important thing
imported currantworm
imported wine
impose a penalty on
impose on
impose on you for
impose upon
impose your will
imposing an onus
imposing stone
imposing table
imposition of hands
impost block
impress forcibly
impress on the mind
impress upon
impress upon the memory
impress upon the mind
impressed by
impressed with
impressed with yourself
improper fraction
improper integral
improper suggestion
improve each shining hour
improve on
improve the mind
improve the occasion
improve the shining hour
improve upon
improve your mind
improvement lease
improvement purchase
improving the mind
improvisational drama
imprudent step
impudent person
impulse buying
impulse duct engine
impulse excitation
impulse face
impulse movement
impulse of life
impulse recorder
impulse roller
impulse transformer
impulse turbine
impurity atom
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a fury of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all soberness
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbirth
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion
in concord
in condition
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in conformity with the evidence
in conformity with the facts
in confrontation
in confusion
in conjunction
in conjunction with
in connection with
in conscience
in consequence
in consequence of
in consideration
in consideration of
in consternation
in consultation
in contact
in contact with
in contemplation of
in contempt
in contempt of
in contradiction
in contrast with
in control
in cooperation
in cooperation with
in corpore
in correspondence to
in corroboration of
in costume
in council
in course of preparation
in court
in crowds
in curve
in custody
in danger
in danger imminent
in danger of
in darkness
in days of yore
in debate
in debt
in deep
in deep water
in default
in default of
in defense
in deference to
in defiance of
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disorder
in dispute
in disrepair
in disrepute
in distress
in double harness
in double time
in double-quick time
in doubt
in driblets
in dribs and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrassed circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in fine
in fine feather
in fine fettle
in fine shape
in fine whack
in fits and starts
in flagrante delicto
in flames
in flat opposition
in flight
in flood
in flower
in focus
in for it
in force
in foreign parts
in forma pauperis
in frame
in front
in front of
in full
in full bloom
in full cry
in full dress
in full feather
in full force
in full measure
in full sail
in full swing
in full view
in fun
in funds
in furtherance of
in future
in futuro
in gear
in general
in general terms
in glory
in glowing terms
in good case
in good condition
in good earnest
in good faith
in good form
in good health
in good heart
in good odor
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in less than no time
in letters of fire
in lieu
in lieu of
in like manner
in limine
in line
in line of duty
in line with
in liquor
in litigation
in little
in loc cit
in lock-step with
in loco
in loco parentis
in longhand
in lots
in love
in love with
in low gear
in low relief
in low spirits
in luck
in lure
in luxury
in majority
in many instances
in march time
in measure
in medias res
in medium
in mem
in memoriam
in memory of
in mesh
in mid
in mid-progress
in miniature
in mint condition
in moderation
in mortal fear
in mothballs
in motion
in mourning
in must
in naked beauty more adorned
in name only
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in numbers
in obedience to
in olden times
in omnia paratus
in one way or another
in one word
in open court
in operation
in opposition
in opposition to
in order
in order that
in order to
in orders
in ordinary
in orle
in other respects
in other ways
in other words
in our time
in outline
in ovo
in pain
in pais
in pale
in pantomime
in paradise
in parallel
in pari delicto
in part
in partibus
in particular
in partnership
in passage to
in passing
in pawn
in pectore
in pendentive
in penury
in peril
in perpetual remembrance
in perpetuity
in perpetuum
in person
in personam
in petto
in phase
in pieces
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in praesenti
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in process
in production
in profusion
in progress
in proper season
in proper time
in proportion
in propria persona
in prose
in prospect
in public
in public view
in purdah
in puris naturalibus
in pursuance of
in pursuit
in pursuit of
in quantities
in quantity
in quest of
in question
in quick succession
in rags
in range
in rapid succession
in rapport
in raptures
in re
in readiness
in ready state
in reality
in reason
in rebuttal
in receivership
in reciprocation
in recompense
in red letters
in reduced circumstances
in reference to
in regard to
in relation to
in relation with
in relief
in rem
in remembrance
in remembrance of
in remission
in repair
in reparation
in reply
in reprisal
in requital
in rerum natura
in reserve
in residence
in respect of
in respect that
in respect to
in response
in restitution
in retaliation
in retirement
in retreat
in retribution
in retrospect
in return
in revenge
in reverse
in reward
in rhythm
in rivalry
in rotation
in round numbers
in round terms
in ruins
in russet mantle clad
in rut
in sackcloth and ashes
in saecula saeculorum
in safety
in sail
in scorn
in search of
in season
in season and out of season
in seclusion
in secrecy
in secret
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in series
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in sheds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smitthereens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support of
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tears
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doldrums
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the main
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in triumph
in trouble
in trust
in truth
in tune
in turn
in turns
in twain
in two
in two shakes
in two shakes of a lamb's tail
in two words
in uniformity with
in unison
in unison with
in use
in utero
in vacuo
in vain
in various places
in velvet
in very sooth
in very truth
in view
in view of
in view of the fact that
in vino veritas
in violation of law
in virtue of
in vitro
in vivo
in vogue
in want
in want of
in way of
in what condition
in what manner
in what period
in what place
in what way
in which place
in which time
in white tie and tails
in with
in wonder
in words of one syllable
in words to that effect
in working order
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-
in-and-in
in-and-out
in-and-out bond
in-and outer
in-beaming
in-being
in-between
in-bond shop
in-book
in-breeding
in-built
in-calf
in-car
in-clearer
in-clearing
in-clerk
in-co-ordinate
in-co-ordinated
in-co-ordination
in-crowd
in-dimension
in-fighting
in-flight
in-flight refueling
in-flight refueling tanker
in-flight training
in-goal
in-going
in-group
in-house
in-knee
in-kneed
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
incline toward
incline towards
incline your ear
inclined engine
inclined plane
inclined railway
inclined to
inclined to believe
inclined to forget
inclined toward
inclined-plane clock
inclining toward
include in
include me out
include out
inclusion body
inclusion map
inclusion-exclusion
inclusive disjunction
inclusive of
inclusive or
inco-ordinate
inco-ordination
income account
income after deductions
income after taxes
income basis
income bond
income fund
income group
income sheet
income stock
income tax
income-tax
incoming population
incomplete antibody
incomplete fracture
incontestable clause
incontrovertible evidence
incorporated bar
incorporeal being
incorporeal entity
incorporeal hereditament
increase in size
increase of temperature
increase the chances
increase the temperature
increase twist
increment borer
incremental plotter
incremental recorder
incremental repetition
increascent moon
incriminate yourself
incriminating evidence
incubation patch
incubation period
incubator baby
incubator bird
incumbent on
incumbent upon
incur a debt
incur a responsibility
incur costs
incur danger
incur discredit
incur disesteem
incur disgrace
incur dishonor
incur expenses
incur loss
ind-
indanthrene blue
inde blue
indebted to
indecent assault
indecent exposure
indecent proposal
indefinite article
indefinite integral
indefinite number
indefinite pronoun
indefinite quantities
indefinite space
indelibly impressed
indelibly impressed on the mind
indelicate language
indian giver
indian hemp
indian ink
indian licorice
indian meal
indian paintbrush
indian pipe
indian pudding
indian red
indian sign
indian summer
indian tobacco
indian turnip
indicated horsepower
indicating control switch
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
indirect object
indirect power
indirect primary
indirect proof
indirect question
indirect speech
indirect tax
indisposed to believe
indisposed to communicate
indisposed to talk
indisposition to speak
indisputable evidence
indisputable fact
indistinct speech
individual essence
individual identity
individual liberty
individual medley
individual psychology
individual responsibility
individual retirement account
individual speech competence
individual speech habits
individual speech performance
indo-
indo-aryan
indo-chinese
indo-european
indo-european languages
indo-german
indo-germanic
indo-hittite
indo-iranian
indoleacetic acid
indolebutyric acid
indomitable sea
indoor baseball
indoor-outdoor carpeting
indorse, indorsement
induced current
induced drag
induced radioactivity
induced topology
inductance coil
inductance factor
induction accelerator
induction balance
induction bridge
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
industrial park
industrial psychologist
industrial psychology
industrial relations
industrial revolution
industrial school
industrial store
industrial union
industrial worker
industrial zone
inequitable
inert gas
inertia ellipsoid
inertia governor
inertia selling
inertia transmission
inertia-reel seat-belt
inertial guidance
inertial guidance system
inertial mass
inertial navigation
inertial navigation system
inertial reference frame
inertial space
inertial system
inescapable fact
inevitable accident
inevitably narrative
inexpiable sin
inextensive deformation
infant prodigy
infant school
infant-school
infantile amnesia
infantile fixation
infantile paralysis
infantile sexuality
infantry combat
infantry tactics
infants' school
infants' wear
infatuated with
infection hypha
infection period
infection thread
infectional arthritis
infectious disease
infectious ectromelia
infectious granuloma
infectious hepatitis
infectious keratitis
infectious laryngotracheitis
infectious mononucleosis
infectious myxomatosis
inferior article
inferior court
inferior goods
inferior horse
inferior maxillary
inferior personality
inferior planet
inferiority complex
infernal machine
infernal pit
infernal regions
infero-
infield fly
infiltration gallery
infiltration vein
infinite baffle
infinite duration
infinite goodness
infinite integral
infinite justice
infinite love
infinite mercy
infinite power
infinite product
infinite regress
infinite series
infinite space
infinite spirit
infinite truth
infinite wisdom
infinitely continuous
infinitely extended
infinitesimal calculus
infinitive clause
infinitive marker
infinitive phrase
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English

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informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
information machine
information media
information medium
information retrieval
information science
information storage
information theory
informatory double
informed in
informed of
informing gun
infra dig
infra dignitatem
infra indiginitatem
infra praesidia
infra-
infra-anal
infra-angelic
infra-auricular
infra-axillary
infra-esophageal
infra-red
infra-umbilical
infrared beam projector
infrared broiler
infrared cooker
infrared gas and liquid analyzer
infrared heater
infrared lamp
infrared photography
infrared ray
infrared spectroscopy
infrared telescope
infrared therapy
infraroentgen ray
infringe a copyright
infringement of copyright
infuse life into
infusion process
infusorial earth
ingle cheek
ingle nook
ingle-bred
inglorious defeat
ingot chipper
ingot cutter
ingot forger
ingot heater
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
ingratiate yourself with
inguino-
inhabitants of Pandemonium
inhalation tuberculosis
inhale snuff
inhale spasmodically
inharmonious harmony
inhere in
inherent authority
inherent immunity
inherent power
inherent stability
inherent vice
inheritance factor
inheritance tax
inherited immunity
inhibit your desires
inhibiting antibody
initial rhyme
initial stability
initiation fee
inject in
inject yourself into
injection grid
injection method
injection-gneiss
injure your reputation
injury benefit
injury of your reputation
injury time
injury to your reputation
injury-proof
ink bag
ink ball
ink bell
ink black
ink bottle
ink bottler
ink cap
ink cartridge
ink disease
ink eradicator
ink eraser
ink fountain
ink gall
ink grinder
ink in
ink knife
ink maker
ink malady
ink marble
ink mixer
ink mushroom
ink nut
ink pad
ink plant
ink printer
ink roller
ink sac
ink spiller
ink spilling
ink up
ink-berry
ink-black
ink-blurred
ink-cap
ink-carrying
ink-colored
ink-distributing
ink-dropping
ink-slab
ink-spotted
ink-stained
ink-wasting
ink-writing
ink-written
inkblot test
inkhorn term
inking bell
inking roller
inky cap
inner-directed person
inner-directedness
inner-direction
innermost being
innermost recesses
innermost recesses of the heart
innerspring mattress
innocent as a lamb
innocent person
innocent tumor
innocent within
innominate artery
innominate bone
innominate vein
innovation-proof
ino-
inoxious testament
inoxious will
inordinate desire
inorganic chemical
inorganic chemistry
inorganic fertilizer
inorganic matter
inorganic substance
inorganized matter
inositol-hexaphosphoric
inositolhexaphosphoric acid
inp-
inpatient clinic
input conductance
input current
input data
input oscillation
input quantity
input resistance
input voltage
input-output analysis
input-output device
inquire after
inquire for
inquire into
inquire of
inquire onto
inquiring mind
inquiry agent
inquiry into
inquiry into first causes
ins and outs
insane asylum
insanity curing
insanity-proof
insatiable desire
inscribe in the memory
inscribe yourself
insculp’d upon
insect bed
insect flower
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
insignia of rank
insincere argument
insinuate in
insinuate yourself
insinuate yourself into
insist on
insist upon
insistent demand
insofar as
insolvency statute
insolvent debtor
insomnia-proof
insomuch as
inspect the books
inspection chamber
inspection gauge
inspector general
inspector of taxes
inspire belief
inspire confidence
inspire hope
inspire respect
inspired leader
inspiring force
inspiring power
inspiriting principle
instability line
installment bond
installment buying
installment credit
installment loan
installment mortgage
installment plan
installment selling
instance court
instance side
instant replay
instantaneous sound pressure
instead of
instinct for
instinct with life
institute an inquiry
institute of technology
institution of higher learning
instruction card
instruction-proof
instrument board
instrument carrier
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data processing
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-‘varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
intercalary meristem
intercardinal point
interception radar
interchange of speech
interchange of views
interchangeable bond
intercommunication system
intercosmic space
interdict list
interdiction bombing
interdiction fire
interdisciplinary knowledge
interesse termini
interest group
interest in
interest inventory
interest lottery
interest payment
interest rate
interests of
interfacial tension
interfaith marriage
interfere with
interference color
interference drag
interference figure
interference fit
interference microscope
interference microscopy
interference pattern
interference phenomenon
interference spectrum
interference-proof
intergalactic distance
intergalactic matter
intergalactic space
interim bond
interim certificate
interim dividend
interior angle
interior ballistics
interior decorating
interior decoration
interior decorator
interior design
interior designer
interior drainage
interior man
interior mapping
interior monologue
interior paint
interior planet
interior point
interior polygon
interior side
interior slope
interior-sprung
interjection point
interlaced scanning
interlacing arcade
interlibrary loan
interline rate
interlinear translation
interlocking directorate
interlocking directorates
interlocutory decree
intermediate agent
intermediate card
intermediate frequency
intermediate host
intermediate period
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
internal-
internuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpretive semantics
interquartile range
interracial marriage
interrogation mark
interrogation point
interrogator-responsor
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intersection of minds
interstate highway
interstellar distance
interstellar space
interstitial irradiation therapy
intertidal zone
interval of convergence
interval operation
interval training
intervening space
intervertebral disc
intervertebral disk
intervertebral substance
intestinal digestion
intestinal flora
intestinal fortitude
intestinal juice
intimate acquaintance
intimate borrowing
intimate friend
intimate friendship
intimate with
intimately related
into arrears
into commission
into high gear
into irons
into it
into question
into the background
into the bargain
into the dust
into the ground
into the past
into the shoes of
into the wind
into the wind's eye
into thin air
into with both feet
into your hands
intolerant person
intonation contour
intonation of voice
intonation pattern
intoxicating liquor
intra muros
intra vires
intra vitam
intra-
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-mercurial
intra-urban
intra-urethral
intra-uterine
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intraterine device
intravenous drip
intravenous therapy
intrazonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuitional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
invisible glass
invisible hand
invisible helper
invisible ink
invisible painting
invisible radiation
invisible shadow
invitation to combat
invitational race
invite attention
invite ridicule
invocation of saints
invocatory plea
invocatory prayer
invoke benefits upon
involuntary cooperation
involuntary impulse
involuntary muscle
involuntary presence
involuntary servitude
involute teeth
involute-leaved
involutional melancholia
involutional psychosis
involve in
involve the interest
involve with
involve yourself
involved in
involved in debt
inward light
inward monitor
inward-bound
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron-heartedly
iron-heartedness
iron-heeled
iron-hooped
iron-jawed
iron-jointed
iron-knotted
iron-lined
iron-man
iron-marked
iron-mine
iron-mold
iron-mooded
iron-mould
iron-nailed
iron-nerved
iron-ore
iron-oxide red
iron-pated
iron-railed
iron-red
iron-ribbed
iron-riveted
iron-sand
iron-sceptered
iron-sheathed
iron-sick
iron-souled
iron-spotted
iron-stained
iron-strapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
iron-witted
iron-worded
ironbark acacia
ironbark box
ironbound coast
ironbound security
ironclad agreement
ironclad oath
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of lan
gerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinal line
isoclinic line
isocyanic acid
isocyno group
isocyno radical
isoelectric point
isoganal line
isogonal line
isogonic line
isoinic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanate group
isothiocyanate radical
isotope therapy
isotopic isobar
isoyllic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch louse
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-witsy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
ivory brown
ivory carver
ivory carving
ivory cutter
ivory engraver
ivory fluter
ivory gull
ivory hunter
ivory hunting
ivory nut
ivory palm
ivory paper
ivory plant
ivory plum
ivory polisher
ivory porcelain
ivory rounder
ivory slabber
ivory sorter
ivory thumper
ivory tickler
ivory tower
ivory tree
ivory yellow
ivory-backed
ivory-beaked
ivory-billed
ivory-billed woodpecker
ivory-black
ivory-bound
ivory-carving
ivory-faced
ivory-finished
ivory-hafted
ivory-handled
ivory-headed
ivory-hilted
ivory-studded
ivory-tinted
ivory-toned
ivory-tower
ivory-towered
ivory-towerish
ivory-towerishness
ivory-towerism
ivory-towerist
ivory-towerite
ivory-type
ivory-white
ivory-wristed
ivy League
ivy bush
ivy geranium
ivy green
ivy gum
ivy league
ivy tree
ivy vine
ivy-bush
ivy-green
j'y suis j'y reste
jaal goat
jaal-goat
jab at
jacaranda brown
jacitara palm
jack Mormon
jack afloat
jack arch
jack baker
jack bean
jack block
jack boot
jack bowl
jack chain
jack cheese
jack crosstree
jack crosstrees
jack crow
jack curlew
jack dog
jackass rig
jackass-rigged
jackdaw in peacock's feathers
jacket crown
jackhead pit
jacking engine
jacking-up
jackknife clam
jackknife-fish
jackknife-fishes
jackleg lawyer
jackleg politician
jacko bush
jacks-of-all-trades
jackson day
jacky winter
jacob's ladder
jacob's membrane
jacob's staff
jacobean lily
jade green
jade plant
jade-green
jade-stone
jag bolt
jag spear
jag spike
jagged-toothed
jagger spring
jaggery palm
jagging iron
jaguar-man
jai alai
jail delivery
jail fever
jail-bird
jail-delivery
jail-fever
jake leg
jalee work
jam in
jam nut
jam riveter
jam session
jam through
jam up
jam weld
jam-full
jam-pack
jam-packed
jam-up
jamaica ginger
jamaica rum
jamais de la vie
jamb shaft
jambe de mouton
jamestown-weed
janca tree
jane doe
jane-of-apes
jangada fiber
jangada tree
jangle the nerves
jangled nerves
januis clausis
janus geminus
japan allspice
japan clover
japan drier
japan wax
japanese beetle
japanese iris
japanese millet
japanese mink
japanese persimmon
japanese plum
japanese quince
japanese spurge
japanic acid
jar on
jar upon the ear
jar with
jar-bird
jar-burial
jar-owl
jara-assu
jardin anglais
jardin chinois
jardin des plantes
jardins anglais
jardins chinois
jargon aphasia
jargon word
jarring of sounds
jasmine oil
jasmine tea
jasper gray
jasper green
jasper opal
jasper pink
jasper red
jasper ware
jato unit
jaundice berry
jaundice tree
jaundice-eyed
jaundiced eye
jaundiced yellow
jaunting car
jaunting-car
jaunty car
java man
java sparrow
javelin bat
javelin man
javelin throw
javelin thrower
javelin-man
javelle water
jaw bit
jaw clutch
jaw coupling
jaw crusher
jaw jerk
jaw lizard
jaw rope
jaw slide
jaw wrench
jaw's-harp
jaw-bone
jaw-cracking
jaw-fall
jaw-fallen
jaw-locked
jaw-tied
jaw-twister
jaws of death
jay bird
jay blue
jay teal
jay-bird
jay-hawker
jay-vee
jazz band
jazz festival
jazz musician
jazz singer
jazz stick
jazz up
jazzed up
je ne sais quoi
je vous en prie
je vous remercie beaucoup
je-te
jealous-hood
jealous-pated
jealousy-proof
jecoric acid
jedding ax
jeep carrier
jeepers creepers
jeer at
jeer capstan
jefferson davis's birthday
jefferson day
jeffrey pine
jehovah's witnesses
jejun-
jejuno-colostomy
jejuno-ileostomy
jejuno-jejunostomy
jekyll and hyde
jell-o
jellied gasoline
jelly baby
jelly bag
jelly bean
jelly boiler
jelly doughnut
jelly egg
jelly lichen
jelly nut
jelly plant
jelly poke
jelly powder
jelly roll
jelly-fish
jennie harp
jenny ass
jenny cutthroat
jenny howlet
jenny scaffold
jenny winch
jenny wren
jenny yard
jeopardy assessment
jequirity bean
jequirity beans
jerboa kangaroo
jerboa mouse
jerboa rat
jerk back
jerk line
jerk off
jerk pump
jerk up
jerk-off
jerkin-head
jerking off
jerkinhead roof
jerkwater town
jerm-
jerry can
jerry hat
jerry shop
jerry-build
jerry-builder
jerry-building
jerry-built
jersey giant
jerusalem artichoke
jerusalem cherry
jerusalem cricket
jerusalem thorn
jest-book
jet airplane
jet black
jet blast
jet bomber
jet break
jet coal
jet condenser
jet d'eau
jet engine
jet engineer
jet engineering
jet exhaust
jet fighter
jet flight
jet fuel
jet injection
jet interrupter
jet jockey
jet lag
jet motor
jet pilot
jet pipe
jet plane
jet pod
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jeux de mots
jew crow
jew down
jew nail
jew's harp
jew's-ear
jew's-harp
jew-fish
jewel block
jewel box
jewel case
jewel smuggling
jewel thief
jewel-block
jewel-bright
jewel-colored
jewel-enshrined
jewel-gleaming
jewel-headed
jewel-house
jewel-loving
jewel-proof
jewel-studded
jeweler's putty
jeweler's rouge
jewelers' putty
jewelers' rouge
jeweller's rouge
jewelry store
jewelweed family
jewish calendar
jews' harp
jews' stone
jews' trump
jib boom
jib cat
jib crane
jib door
jib guy
jib iron
jib martingale
jib netting
jib pole
jib sheet
jib stay
jib topsail
jib traveler
jib-boom
jib-door
jib-headed
jib-header
jib-o-jib
jibber jib
jibber the kibber
jibe all standing
jibe at
jig borer
jig brow
jig bushing
jig button
jig indicator
jig saw
jig-back
jig-drill
jig-file
jig-jig
jig-jog
jig-joggy
jig-saw
jigger boom
jigger flea
jigger mast
jigger pump
jigger saw
jigger weed
jiggery-pokery
jigog ring
jigsaw puzzle
jill-flirt
jim crow
jim crowism
jim dash
jim-crow
jim-dandy
jim-dandy peach
jim-jam
jimson weed
jimson-weed
jin ricksha
jingle bell
jingle shell
jingle stick
jingle-jangle
jingling John
jingling Johnny
jinny road
jitney driver
jiu-jitsu
jive talk
jnana-marga
jo-darter
job action
job analysis
job card
juggling plank
john barleycorn
john bull
john doe
john dory
john hancock
john henry
john-a-nokes
john-a-stiles
john-apple
johnny cake
johnny house
johnny reb
johnny-cake
johnny-jump-up
johnny-on-the-spot
johnson grass
joie de vivre
join Maths
join battle
join battle with
join forces
join fortunes with
join hands
join hands with
join in
join in a conversation
join in fellowship
join in holy wedlock
join in marriage
join in the chorus
join issue
join issue upon
join the angels
join the choir invisible
join the great majority
join the majority
join the opposition
join the parade
join together
join up
join up with
join with
join your ancestors
join your fortunes with
join yourself to
join yourself with
join-
joint-stock association
joint-stock company
joint-stockism
joint-stool
joint-tenant
joint-worm
jointer plane
jointing plane
joke with whiskers
joke writer
joking-relative
jolly bean
jolly boat
jolly fellow
jolly jumper
jolly roger
jolly-boat
jolt head
jolter-wagon
jonah crab
jonquil yellow
jook joint
jordan almond
joseph's coat
joshua tree
joss flower
joss house
joss paper
joss pidgin
joss stick
jostling of sounds
jot down
jour maigre
journal bearing
journal box
journal bronze
journal intime
journal turbine
journal voucher
journal-book
journalism school
journaux intimes
journey weight
journey's end
journey-work
journeyman work
jouvence blue
judge premature
judge's gown
judge's robe
judge-made
judged beforehand
judged prematurely
judges' rules
judgment book
judgment cap
judgment creditor
judgment day
judgment debt
judgment debtor
judgment hall
judgment lien
judgment note
judgment rate
judgment seat
judgment summons
judgment-day
judgment-hall
judgment-proof
judgment-seat
judicial astrology
judicial circuit
judicial conference
judicial murder
judicial oath
judicial process
judicial punishment
judicial review
judicial separation
judo expert
jug band
jug plant
jug wine
jug-bitten
jug-handle
jug-jug
jugal bone
jugal furrow
jugal point
jugged hare
juggler's trick
jugular vein
juice extractor
juice pear
juice up
jump spark
jump stroke
jump suit
jump the gun
jump to a conclusion
jump to it
jump turn
jump up
jump weld
jump wire
jump-
jump-hop
jump-off
jump-shift
jump-spark coil
jump-start
jump-up
jumped-up
jumper cable
jumper lead
jumper sled
jumper stay
jumper wire
jumping bean
jumping disease
jumping jack
jumping mouse
jumping pain
jumping plant louse
jumping spider
jumping-off place
jumping-off-place
jumpy as a cat on a hot tin roof
junction box
junction transistor
juncture of events
june beetle
jungle ballot
jungle bear
jungle bendy
jungle bunny
jungle cat
jungle cock
jungle fever
jungle fowl
jungle geranium
jungle green
jungle gym
jungle hen
jungle juice
jungle ox
jungle rice
jungle rot
jungle sheep
jungle warfare
jungle-clad
jungle-covered
jungle-traveling
jungle-walking
jungle-worn
junior barister
junior chamber of commerce
junior college
junior common room
junior counsel
junior high
junior high school
junior leaguer
junior lightweight
junior middleweight
junior miss
junior officer
junior school
junior securities
junior varsity
junior welterweight
juniper bay
juniper berries
juniper berry
juniper cedar
juniper gum tree
juniper oil
juniper tree
juniper webworm
juniper-berry oil
juniper-tar oil
juniperic acid
junk bottle
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
jus publicum
jus sanguinis
jus scriptum
jus soli
just a bit
just about
just across the street
just alike
just around the corner
just as predicted
just as you thought
just be
just being
just dandy
just deserts
just do
just enough
just expectation
just folks
just here
just imagine
just in case
just in time
just intonation
just know
just like one
just like that
just next door
just noticeable difference
just now
just once
just opposite
just out
just plain nuts
just right
just see
just so
just the opposite
just the other way
just the other way around
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-sighting
justices in eyre
justifiable abortion
justifiable expectation
justifiable homicide
justification by faith
justification by works
justification space
justify hope
justify one in supposing
justifying space
justitia omnibus
jut out
jut over
jute board
jute butts
jute crusher
jute opener
jute tier
juvenal plumage
juvenile book
juvenile court
juvenile delinquency
juvenile delinquent
juvenile dictionary
juvenile editor
juvenile hormone
juvenile lead
juvenile officer
juxta-ampullar
juxta-articular
juxtapose in opposition
k ration
k'ai shu
k-meson
kA
kCi
kangaroo bear
kangaroo beetle
kangaroo closure
kangaroo cloture
kangaroo court
kangaroo feathers
kangaroo grass
kangaroo hare
kangaroo jerboa
kangaroo mouse
kangaroo paw
kangaroo rat
kangaroo thorn
kangaroo vine
kangaroo-rat
kans grass
kanya butter
kanya tree
kapok oil
kapok tree
kappa meson
karate expert
karma-marga
karri-tree
karroo bush
kary-
karyo-
kashgar tamarisk
kashmir goat
kat-
kata-
katabatic wind
katsura tree
kauri copal
kauri gum
kauri pine
kauri resin
kava gum
kaw-
kayo punch
keV
kedani fever
kedani mite
kedge anchor
kedge off
kedge-anchor
keekwilee-house
keel and keelson
keel arch
keel batten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen-eared
keen-edged
keen-eyed
keen-nosed
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offing
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep down
keep driving
keep everyone waiting
keep faith
keep faith with
keep fit
keep fresh
keep from
keep from harm
keep from laughing
keep from spreading
keep going
keep guard
keep hands off
keep her so
keep her steady
keep hidden
keep hold of
keep hold of the land
keep hope alive
keep hoping
keep house
keep in
keep in bounds
keep in check
keep in contact with
keep in countenance
keep in custody
keep in detention
keep in formation
keep in hand
keep in ignorance
keep in line
keep in memory
keep in mind
keep in order
keep in practice
keep in reserve
keep in sight
keep in step
keep in store
keep in suspense
keep in the background
keep in the dark
keep in the middle of the road
keep in the right path
keep in touch
keep in touch with
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm's way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep troth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigil
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kettle of fish
kettle stitch
kettle-bottom
kettle-bottomed
kettle-stitch
kew tree
kewpie doll
key bed
key bit
key block
key bolt
key bugle
key case
key chord
key club
key desk
key drift
key file
key filer
key frame
key fruit
key harp
key holder
key horizon
key industry
key line
key man
key money
key move
key of the Nile
key pad
key pattern
key pin
key pipe
key plate
key plug
key punch
key ring
key rocker
key scarf
key seat
key sentence
key signature
key size
key station
key stop
key to
key to the city
kick plait
kick plate
kick pleat
kick start
kick starter
kick the air
kick the beam
kick the bucket
kick the clouds
kick the habit
kick the wind
kick turn
kick up
kick up a dust
kick up a hullabaloo
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicksey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fatted calf
kill the slain
kill time
kill two birds with one stone
kill with kindness
kill yourself
kill-
kil-courtesy
kill-cow
kill-crazy
kill-crazy animal
kill-devil
kill-joy
kill-kid
kill-time
kill-wart
killdeer plover
killed bowl
killed spirits
killed-virus vaccine
killer boat
killer whale
killer-diller
killing bottle
killing frost
killing ground
killing pace
killing site
killing time
killy hawk
kiln evaporator
kiln foreman
kiln run brick
kiln scum
kiln-burnt
kiln-dried
kiln-dry
kiln-drying
kilo-
kilo-oersted
kiloelectron volt
kilogram calorie
kilogram-calorie
kilogram-force
kilogram-meter
kilogramme-metre
kilovar-hour
kilovolt-ampere
kilovolt-ampere-hour
kilowatt-hour
kilt pleat
kim-kam
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kinesiologic
kinesiologic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
kinit
king at arms
king auk
king ball
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's shilling
king's weather
king's yellow
king's-pawn openings
king-bird
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one's feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
kitchen servant
kitchen sink
kitchen space
kitchen stuff
kitchen table
kitchen tea
kitchen work
kitchen-midden
kite balloon
kite bar
kite eagle
kite falcon
kite fighting
kite sausage
kite track
kite winder
kite-tailed
kite-wind
kited check
kith and kin
kitten moth
kitten-breeches
kittly-benders
kitty needy
kitty witch
kitty wren
kitty-cat
kitty-corner
kitty-cornered
kl-
kleig light
klept-
klieg eyes
klieg light
klook-klook
kn-
knap-bottle
knapsack sprayer
knave-child
kneaded butter
kneading-trough
knee action
knee bend
knee bone
knee brace
knee breeches
knee colter
knee cop
knee drill
knee drop
knee grass
knee guard
knee halter
knee holly
knee holm
knee jerk
knee joint
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knee-timber
knee-worn
kneed grass
kneel to
kneeling rafter
kneeling stool
knell-like
knick-knack
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knight-adventurer
knight-errant
knight-errantry
knight-service
knighthood-errant
knighthood-errant
knighthood-errantry
knighthood-errantship
knightly skill
knightly skill
knightly skill
knightly skill
knightly skill
knightly skill
knights adventurers
knights bachelors
knights bannerets
knights baronets
knights commanders
knights grand commanders
knights grand cross
knights marshals
knights-errant
knit goods
knit the brow
knitting case
knitting machine
knitting needle
knitting pin
knitting sheath
knitting stick
knitting wire
knob celery
knob latch
knob lock
knob-billed
knob-nosed
knobbling fire
knobbling roll
knobcone pine
knock about
knock against
knock around
knock back
knock cold
knock dead
knock down
knock for a loop
knock galley-west
knock in
knock in the head
knock into a cocked hat
knock into your head
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it's all about
know what's what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
know-all
know-how
know-it-all
know-little
know-nothing
know-nothingism
know-nothingness
knowledge of the world
knowledge without reason
knowledge without thought
knowledge-gap
known as
known by every schoolboy
known by measurement
known by the name of
known quantity
knuckle ball
knuckle bow
knuckle down
knuckle down to
knuckle gear
knuckle gearing
knuckle guard
knuckle joint
knuckle line
knuckle molding
knuckle pin
knuckle post
knuckle timber
knuckle tip
knuckle to
knuckle tooth
knuckle under
knuckle under to
knuckle-bone
knuckle-deep
knuckle-duster
knuckle-dusters
knuckle-joint
knuckle-joint press
knuckle-kneed
knurl toe
ko-katana
koa finch
koda millet
koh-i-noor
koi-kopal
kok-saghyz
kokra wood
kokum butter
kokum oil
kol nidre
kola nut
kola tree
koloa mapu
koloa moha
komma-ichi-da
kona cyclone
kona storm
konker tree
koppel flute
kosam seeds
kosher soap
kosher wine
kottabos kataktos
kousso flower
kow-tow
kraft paper
kraft process
kraut grass
krebs cycle
krems lead
krenging hook
kriss kringle
kriya-sakti
kriya-shakti
krym-saghyz
kryo-
ku klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujiira shaku
kung chih
kung chin
kung ching
kung fen
kung fu
kung-fu
kungu cake
kuo-yu
kuping tael
kurchee bark
kuroshio extension
kuroshio system
kurro's salt
kuteera gum
kutira gum
kwe-bird
kyano-
kyrie eleison
l'istesso tempo
l'union fait la force
l-
l-arterenol
l-glucose
l-noradrenaline
l-norepinephrine
la carte
la grippe
la guerre
la mode
la patrie
la recherche du temps perdu
la ronde
la tene
la-de-da
la-di-da
la-la
laap insect
laap insects
label stop
labeled atom
labeled element
labia majora
labia minora
labial pipe
labio-
labium majus
labium minus
labium minus pudendi
labor against
labor and bring forth
labor bank
labor camp
labor caucus
labor contract
labor costs
labor day
labor exchange
labor force
labor in behalf of
labor in darkness
labor in vain
labor in your vocation
labor interests
labor lost
labor market
labor movement
labor of Sisyphus
labor of love
labor omnia vincit
labor organizer
labor pains
labor relations
labor room
labor spy
labor strike
labor the obvious
labor turnover
labor under
labor under a disadvantage
labor under a false impression
labor under difficulties
labor union
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimal bone
lacrimall duct
lacrimial gland
lacrimial sac
lacrosse stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies' fingers
ladies' gallery
ladies' man
ladies' room
ladies' wear
ladies'-tobacco
ladies'-tobaccoes
ladies'-tobaccos
ladies'-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b'omer
lag behind
lag bolt
lag fault
lag line
lag screw
lag-bed tractor
lager beer
laggen-gird
lagging load
lah-di-dah
laid aside
laid bare
laid batonne
laid deck
laid embroidery
laid low
laid off
laid on the shelf
laid paper
laid up
laid wool
laisser aller
laisser faire
laisser passer
laisser-aller
laisser-faire
laissez aller
laissez faire
laissez passer
laissez-aller
laissez-faire
laissez-faireism
laissez-passer
lait d'amandes
lake basin
lake bass
lake breeze
lake carp
lake chub
lake cress
lake duck
lake dweller
lake dwelling
lake fever
lake fly
lake front
lake herring
lake lawyer
lake minnow
lake of fire and brimstone
lake perch
lake perches
lake pitch
lake plover
lake salmon
lake shad
lake sheepshead
lake shore
lake sturgeon
lake trout
lake water cress
lake whitefish
lake-bound
lake-colored
lake-girt
lake-land
lake-moated
lake-reflected
lake-resounding
lake-surrounded
lakeland terrier
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb's ears
lamb's lettuce
lamb's tails
lamb's tongue
lamb's wool
lamb's-quarters
lamb's-wool
lamb-like
lambda particle
lamboideal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standard
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblung
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
land shark
land side
land snail
land sole
land spring
land station
land steward
land surveyor
land-service
land-sheltered
land-side
land-slater
land-spring
land-surrounded
land-surveying
land-tag
land-tax
land-taxer
land-tie
land-value
land-visiting
land-water
land-wind
landed estate
landed gentry
landed interests
landed person
landed property
landfall light
landfall mark
landing angle
landing beach
landing beam
landing card
landing chair
landing clerk
landing craft
landing crew
landing deck
landing edge
landing field
landing flap
landing force
landing gear
landing light
landing lights
landing line
landing net
landing pad
landing party
landing pattern
landing place
landing run
landing ship
landing signalman
landing skis
landing speed
landing stage
landing strake
landing strip
landing surveyor
landing tee
landing waiter
landing wire
landing-direction light
landing-place
landing-waiter
landlocked salmon
landlocked water
landmark beacon
landmark decision
landscape architect
landscape architecture
landscape gardener
landscape gardening
landscape marble
landscape mirror
landscape painting
landslide victory
lane route
lane snapper
lang lay
lang syne
lang-ka'il
langrage shot
langrel shot
language arts
language laboratory
language study
language style
langue d'o
langue d'oc
langue d'oil
langue de boeuf
langue de chat
langues de boeuf
languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lantern lily
lantern pinion
lantern ring
lantern shell
lantern slide
lantern sprat
lantern tree
lantern wheel
lantern-jawed
lanthanide series
lanyard knot
lap box coupling
lap dissolve
lap dog
lap dovetail
lap dovetail joint
lap dovetailing
lap game
lap joint
lap link
lap microphone
lap of honour
lap of luxury
lap over
lap pack
lap plate
lap ring
lap riveting
lap robe
lap shaver
lap siding
lap table
lap up
lap weld
lap winding
lap-butted
lap-chart
lap-dog
lap-jointed
lap-lap
lap-love
lap-rivet
lap-streak
laparo-
laparo-uterotomy
laparotomy pack
lapel button
lapel microphone
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-but joint
lappet caterpillar
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
lapsus calami
lapsus linguae
lapsus memoriae
lapwing gull
larboard watch
larch agaric
larch canker
larch pine
larch sawfly
larch turpentine
lard compound
lard insect
lard oil
lard pig
lard refiner
lard stearin
lard stone
lard type
lard-assed
lardaceous degeneration
larder beetle
lardy cake
lardy-dardy
lares and penates
lares compitales
lares familiaris
lares permarini
lares praestites
lares viales
large amount
large animal
large as life
large black
large calorie
large cane
large cranberry
large heart
large intestine
large meal
large number
large order
large periwinkle
large person
large size
large sum
large thing
large white
large-acred
large-ankled
large-bayed
large-billed
large-bodied
large-boned
large-bore
large-bracted
large-browed
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateen sail
lateen-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
latera recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavaliere microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one's hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lazy crab
lazy daisy stitch
lazy eight
lazy eye
lazy guy
lazy halyard
lazy jack
lazy painter
lazy person
lazy stream
lazy susan
lazy tack
lazy tongs
lb ap
lb av
lb t
le dernier cri
le drapeau tricolore
le genre humain
le pas
le premier pas
le roi est mort vive le roi
le roi le veut
le sport
le style c'est l'homme
le tout ensemble
lea oak
lea rig
lea-land
lea-rig
lead a charmed life
lead a cloistered life
lead a dog's life
lead a retired life
lead acetate
lead acid cell
lead an easy life
lead arming
lead arsenate
lead ash
lead astray
lead azide
lead back
lead block
lead bullion
lead by the nose
lead captive
lead carbonate
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
lead up the garden path
lead up to
lead vinegar
lead vitriol
lead weed
lead white
lead you a chase
lead you a pretty dance
lead you to
lead you to expect
lead you to gather
lead you up the garden path
lead-acid battery
lead-blue
lead-burn
lead-burned
lead-burner
lead-burning
lead-chamber process
lead-clad
lead-coated
lead-colored
lead-covered
lead-encased
lead-filled
lead-free gas
lead-gray
lead-hardening
lead-headed
lead-in
lead-in wire
lead-lapped
lead-lead
lead-lined
lead-melting
lead-off
lead-pipe cinch
lead-pulverizing
lead-ruled
lead-sheathed
lead-smelting
lead-tempering
lead-up
leaded bronze
lead-headed glass
leaded flycatcher
leaden-blue
leaden-colored
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leaden-witted
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leading article
leading bar
leading block
leading card
leading coefficient
leading edge
leading her mother
leading idea
leading lady
leading light
leading man
leading mark
leading note
leading question
leading reins
leading strings
leading to
leading tone
leading wheel
leading wind
leading wire
leading woman
leadpipe cinch
leaf beet
leaf beetle
leaf bite
leaf blade
leaf blender
leaf blight
leaf blotch
leaf bud
leaf bug
leaf coral
leaf curl
leaf cutting
leaf fall
leaf fat
leaf gold
leaf green
leaf insect
leaf lard
leaf lettuce
leaf metal
leaf metals
leaf miner
leaf mold
leaf monkey
leaf mould
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
lear board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
learn verbatim
learn word for word
learned clerk
learned man
learned profession
learner's permit
learning by heart
lease and release
lease out
lease rod
lease system
lease-back
lease-lend
lease-pardle
lease-purchase
leasehold insurance
leasehold mortgage
least bittern
least common denominator
least common multiple
least flycatcher
least killifish
least of all
least sandpiper
least shrew
least significant digit
least squares
least upper bound
least weasel
leather beetle
leather brown
leather carp
leather cloth
leather dresser
leather enameler
leather fern
leather goods
leather goods store
leather jack
leather maker
leather paper
leather star
leather-backed
leather-bound
leather-colored
leather-covered
leather-cushioned
leather-cutting
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
left-handed compliment
left-handed marriage
left-handedly
left-handedness
left-hander
left-handiness
left-laid
left-lay
left-legged
left-leggedness
left-luggage office
left-off
left-over
left-sided
left-wing
left-wing extremism
left-wing extremist
left-winger
left-wingish
left-wingism
left-eye flounder
leg armor
leg art
leg bail
leg band
leg before
leg before wicket
leg boot
leg break
leg bye
leg drop
leg hit
leg iron
leg it
leg man
leg of lamb
leg of mutton
leg show
leg stump
leg to stand on
leg trap
leg up
leg viol
leg-bail
leg-break
leg-breaker
leg-harness
leg-iron
leg-o'-mutton
leg-of-mutton
leg-of-mutton sail
leg-of-mutton spanker
leg-pull
leg-puller
leg-weary
legacy duty
legal action
legal adviser
legal age
legal agreement
legal aid
legal aid association
legal aid society
legal argument
legal assessor
legal authority
legal bucketing
legal cap
legal case
legal chemistry
legal claim
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
legal possession
legal power
legal practitioner
legal proceedings
legal process
legal profession
legal remedy
legal reserve
legal restraint
legal right
legal right of use
legal rights
legal science
legal securities
legal separation
legal statement
legal summons
legal system
legal tender
legal tribunal
legal weight
legal-size paper
legal-tender note
legalis homo
legally separated
leger line
leghorn straw
legion of honor
legion of merit
legionary ant
legislative assembly
legislative bill
legislative body
legislative caucus
legislative chamber
legislative clause
legislative council
legislative immunity
legislative investigation
legislative lobby
legislative motion
legislative procedure
legislative veto
legitimate drama
legitimate portion
legitimate stage
legitimate succession
legitimate theater
lego-literary
lei day
leio-
leip-
leisure class
leisure suit
leisurely gait
lekai salmon
lem-
lemming mouse
lemon balm
lemon cheese
lemon chrome
lemon cucumber
lemon day lily
lemon drop
lemon geranium
lemon grass
lemon kali
lemon lily
lemon mint
lemon oil
lemon scurvy grass
lemon sole
lemon squash
lemon squeezer
lemon verbena
lemon vine
lemon yellow
lemon-color
lemon-colored
lemon-faced
lemon-flavored
lemon-grass oil
lemon-green
lemon-scented
lemon-scented gum
lemon-tinted
lemon-yellow
lemonade sumac
lend a color to
lend a hand
lend a helping hand
lend a willing ear
lend an ear
lend an ear to
lend one aid
lend substance to
lend support
lend wings to
lend your backing to
lend your countenance to
lend your favor to
lend your name to
lend your offices
lend your support to
lend yourself to
lend-lease
lend-leased
lend-leasing
lending at interest
lending institution
lending library
length and breadth
length between perpendiculars
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepidoo-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
lerp insects
lese majesty
lese-majesty
less advanced
less and less
less semitone
less than
less than no time
lesser Bairam
lesser Ionic
lesser anteater
lesser bear
lesser celandine
lesser dog
lesser doxology
lesser litany
lesser multangular bone
lesser nobility
lesser omentum
lesser panda
lesser star grass
lesser weever
lesser wintergreen
lesser yellowlegs
let 'em have it
let a fart
let alone
let be
let blood
let bygones be bygones
let dangle
let daylight in
let down
let down easy
let down your defenses
let down your guard
let down your side
let drive
let drive at
let drop
let fall
let fall into desuetude
let fall into disuse
let fall the shadow of mine eyes
let flow through your fingers
let fly
let fly at
let get around
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter carrier
letter carver
letter caster
letter cutter
letter drop
letter engraver
letter file
letter founding
letter foundry
letter from Uncle Sam
letter hand
letter learning
letter lichen
letter messenger
letter missive
letter name
letter of advice
letter of credence
letter of credit
letter of delegation
letter of introduction
letter of marque
letter of marque and reprisal
letter paper
letter plant
letter porter
letter post
letter press
letter scales
letter sheet
letter sorter
letter stamper
letter stock
leucite basalt
leucite-basanite
leucite-tephrite
leuco base
leuco-
leucoturic acid
leukemic reticuloendotheliosis
leuko-
leukocyt-
leuna saltpeter
lev-
levari facias
levee en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
lever pilot
lever safety valve
lever scales
lever shears
lever tumbler
lever watch
lever-action
lever-action rifle
levin bolt
levin brand
levo camphor
levo-
levo-pinene
levulinic acid
levy a distress
levy blackmail
levy court
levy en masse
levy in mass
levy war on
lew-warm
lewish bolt
lewish gun
lewish iron
lex domicili
lex fori
lex generalis
lex loci
lex mercatoria
lex mercatorum
lex non scripta
lex scripta
lex situs
lex talionis
lex terrae
lexical form
lexical insertion
lexical item
lexical meaning
lexigraphic character
lexigraphic symbol
ley line
ley pewter
leyden jar
leze majesty
liability insurance
liability limit
liability to error
liable to
liable to error
liaise with
liaison plane
liar of the first magnitude
liber cell
liberal arts
liberal education
liberal studies
liberal-arts college
liberal-minded
liberal-mindedness
liberty abused
liberty boat
liberty bodice
liberty cap
liberty green
liberty hall
liberty horse
liberty in tranquillity
liberty of speech
liberty of the press
liberty pole
liberty ship
liberty tea
liberty tree
libidinal energy
libido arrest
libido fixation
libra mayor
library binding
library card
library case
library catalog
library director
library edition
library paste
library school
library science
library steps
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
licking stone
licorice fern
licorice powder
licorice root
licorice stick
licorice sugar
licorice vetch
licorice vine
licorice weed
lid cell
lid slit
lidless eye
lidless vigil
lie a course
lie across
lie ahead
lie ahull
lie along
lie along the shore
lie around
lie at the heart
lie at the root of
lie at your door
lie athwart
lie back on your record
lie beam on to the seas
lie beneath
lie by
lie close
lie close to the wind
lie detector
lie doggo
lie dormant
lie down
lie down and roll over for
lie down on the job
lie fallow
lie flat
lie flatly
lie hard upon
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
lieutenant-colonelcy
lieutenant-general
lieutenant-governorship
life after death
life and letters
life annuity
life arrow
life assurance
life belt
life beyond the grave
life breath
life buoy
life car
life cast
life cycle
life essence
life estate
life expectancy
life float
life force
life guard
life hangs by a thread
life history
life instinct
life insurance
life interest
life jacket
life line
life mask
life member
life net
life of Riley
life of Riley, the
life of ease
life of riley
life of the party
life peer
life plant
life preserver
life principle
life process
life raft
life records
life ring
life rocket
life savings
life science
life seen through a temperament
life sentence
life size
life space
life span
life story
life style
life table
life to come
life upon the larger scale
life vest
life zone
life's duration
life's guide
life's work
life-abhorrning
life-and-death
life-and-death struggle
life-bearing
life-beaten
life-begetting
life-bereft
life-blood
life-breathing
life-bringing
life-consuming
life-creating
life-crowded
life-deserted
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
life-poisoning
life-preserver
life-preserving
life-prolonging
life-quelling
life-rendering
life-renewing
life-restoring
life-sapping
life-saver
life-serving
life-size
life-sized
life-spent
life-style
life-support system
life-sustaining
life-sweet
life-teeming
life-thirsting
life-tide
life-timer
life-weariness
life-weary
life-while
life-worthy
life-yielding
lifeless matter
lifeless matter found in nature
lifelike image
liferent escheat
lifesaving boat
lifesaving service
lift a finger
lift a hand
lift a hand against
lift bolt
lift bridge
lift component
lift direction
lift force
lift gate
lift hammer
lift off
lift pump
lift ram
lift ratio
lift span
lift temporarily
lift tenter
lift the curtain on
lift the hat
lift the veil
lift truck
lift up
lift up the eyes
lift up the heart
lift up the voice
lift valve
lift van
lift wall
lift wire
lift your hand against
lift your voice
lift-drag ratio
lift-off
lift-off hinge
lift-slab
lifter rod
lifting body
lifting bolt
lifting bridge
lifting day
lifting eye
lifting foot
lifting head
lifting irons
lifting jack
lifting plan
lifting plate
lifting pump
lifting sail
lig-by
ligamentum nuchae
light adaptation
light air
light and shade
light and shade surface
light artillery
light as a feather
light as air
light as any wind that blows
light as day
light as gossamer
light baffle
light battery
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bodied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drag
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
light-haired
light-handed
light-handedly
light-handedness
light-harnessed
light-hating
light-headed
light-headedly
light-headedness
light-hearted
light-heartedly
light-heartedness
light-heeled
light-horseman
light-horsemen
light-hued
light-intensity control
light-intensity indicator
light-leaved
light-legged
light-limbed
light-loaded
light-locked
light-marching
light-minded
light-mindedly
light-mindedness
light-o'-love
light-o'love
light-of-love
light-pervious
light-poised
light-producing
light-proof
light-reactive
light-refracting
light-refractive
light-robed
light-rooted
light-rootedness
light-scattering
light-sensitive
light-skinned
light-skirts
light-spirited
light-spreading
light-struck
light-thoughted
light-timbered
light-tongued
light-treaded
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
lightning discharge
lightning express
lightning file
lightning gods
lightning pains
lightning protector
lightning rod
lightning saw
lightning speed
lightning stone
lightning switch
lightning tooth
lightning tube
lightning war
lightning-like
lights out
lights-out
lign-
lign-aloes
lignaloe oil
ligni-
ligninsulphonic acid
lignite wax
ligao-
lignosulphonic acid
lignum aloes
lignum vitae
ligulate-flowered
liguli-
like Niobe
like Swiss cheese
like a bat out of hell
like a blue streak
like a bolt from the blue
like a book
like a bulldog
like a coward
like a drowned rat
like a fish out of water
like a flash
like a furnace
like a horse in a mill
like a house afire
like a lamb
like a leech
like a lord
like a man
like a prune
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limber-neck
limber-twig pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
lime-kiln
lime-pit
lime-rod
lime-soda mesotype
lime-sulphur
lime-twig
lime-water
lime-white
limette oil
limit condition
limit control
limit gauge
limit man
limit of patience
limit of proportionality
limit of resolution
limit of vision
limit point
limit switch
limit system
limit yourself
limit, the
limit-setting
limited company
limited divorce
limited edition
limited fee simple
limited liability
limited monarchy
limited negative
limited nuclear weapons
limited number
limited owner
limited partner
limited partnership
limited payment insurance
limited policy
limited veto
limited war
limited-liability company
limiting adjective
limiting condition
limiting factor
limiting point
limited-liability company
limousine-landaulet
limp as a dishrag
limp-cover book
limpet mine
limping meters
limping standard
limu-elele
limu-kohu
lin ft
lin tree
lin-lan-lone
linalyl acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line cut
line displacement
line drawing
line drive
line drop
line engraver
line engraving
line equation
line gale
line gauge
line geometry
line hunter
line integral
line letter
line loss
line microphone
line of action
line of apsides
line of battle
line of business
line of circumvallation
line of credit
line of defense
line of demarcation
line of departure
line of descent
line of direction
line of duty
line of endeavor
line of fire
line of flight
line of force
line of goods
line of induction
line of march
line of position
line of scrimmage
line of sight
line of sighting
line of site
line of succession
line of thrust
line of type
line of vision
line of work
line officer
line out
line printer
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-ovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lining-out
lining-up
link block
link motion
link polygon
link up
link verb
link with
link-boy
link-up
linkage formula
linkage group
linkage groups
linked rhyme
linked to
linked verse
linking r
linking verb
linnet hole
lino tile
lino-typist
linoleic acid
linolenic acid
linoleum block
linoleum knife
linoleum-block print
linoleum-block printing
linolic acid
linotype operator
linseed cake
linseed meal
linseed oil
linseed tea
linsey-woolsey
linsey-woolseys
lint bells
lint bow
lint index
lint-white
lion ant
lion dollar
lion dragon
lion leopard
lion lizard
lion monkey
lion poisson
lion tamer
lion's share
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
lip-round
lip-rounding
lip-smacking
lip-spreading
lip-teeth
lipid histiocytosis
lipo-
lipoid pneumonia
liquefied petroleum gas
liqueur glass
liquid absolute
liquid air
liquid apiol
liquid assets
liquid assets ratio
liquid coal
liquid compass
liquid conduction
liquid crystal
liquid crystal display
liquid extract
liquid fire
liquid fuel
liquid glass
liquid gold
liquid helium
liquid measure
liquid nitrogen
liquid oxygen
liquid paraffin
liquid petrolatum
liquid pint
liquid quart
liquid soap
liquid storax
liquid-fuel rocket
liquid-level control
liquid-level indicator
liquid-level sensor
liquidating dividend
liquidity preference
liquidity ratio
liquidus curve
liquor dealer
liquor maker
liquor merchant
liquor store
liquor store owner
liquor tax
liquor up
liquor-drinking
liquor-loving
liquorice allsorts
lira da braccio
liras da braccio
lire da braccio
lis pendens
lisle hose
lisle thread
lisp in numbers
list of
list of agenda
list pot
list price
list system
listed building
listed securities
listen at
listen in
listen to
listen to reason
listen with both ears
listener-in
listening cam
listening in
listening post
lister cultivator
lister drill
lister planter
lister plough
lister plow
listing machine
lit de justice
lit to the gills
lit up
litany stool
litchi nut
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little slam
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
little-footed
little-girlish
little-girlishness
little-go
little-haered
little-headed
little-known
little-loved
little-minded
little-mindedness
little-prized
little-read
little-regarded
little-statured
little-trained
little-traveled
little-used
little-worth
littleneck clam
littoral zone
liturgical east
liturgical garments
liturgical music
liturgical north
liturgical south
liturgical west
litz wire
live a cat-and-dog life
live a life of ease
live again
live alone
live and breathe
live and learn
live and let live
live apart
live as man and wife
live at
live beyond your means
live by your wits
live center
live centre
live circuit
live coal
live down
live fast
live for the day
live forever
live from hand to mouth
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
live-forever
live-front switchboard
live-in maid
live-in-idleness
live-oak
live-out maid
live-sawed
live-virus vaccine
lived-in
lively imagination
lively interest
lively market
lively pace
liven vivificate
liver and lights
liver and onions
liver balsam
liver brown
liver chestnut
liver death
liver disease
liver extract
liver fluke
liver fluke disease
liver fungus
liver lily
liver maroon
liver of sulfur
liver of sulphur
liver rot
liver salts
liver sausage
liver sausage tree
liver shark
liver spots
liver-brown
liver-colored
liver-hued
liver-moss
liver-rot
liver-white
liveried servant
liverwort lettuce
livery colors
livery company
livery cupboard
livery servant
livery stable
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
load indicator
load line
load line mark
load of money
load resistance
load shedding
load the dice
load the mind
load the mind with
load water line
load water plane
load waterline
load with care
load with ornament
load with reproaches
load-indicating resistor
load-line disk
load-line mark
load-water-line
loaded cane
loaded dice
loaded for
loaded for bear
loaded moment
loaded with doom
loaded with shame
loaded with significance
loading coil
loading donkey
loading down
loading inductance
loaf of bread
loaf sugar
loaf-sugar
loam board
loan agent
loan collection
loan farm
loan form
loan god
loan office
loan officer
loan shark
loan translation
loan value
loan word
loan-office
loan-shark
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
lobster Newburgh
lobster Thermidor
lobster caterpillar
lobster crab
lobster flower
lobster moth
lobster newburg
lobster pot
lobster roll
lobster shift
lobster thermidor
lobster tour
lobster trap
lobster trick
lobster-horns
lobster-red
lobster-tail
lobster-tail helmet
lobster-tailed
lobsters-claw
lobular pneumonia
lobular pump
loc cit
local anaesthetic
local anesthetic
local authority
local call
local case
local color
local colour
local dialect
local economy
local examinations
local express
local government
local horizon
local law
local maximum
local minimum
local office
local option
local optioner
local optionism
local optionist
local oscillator
local oscillator signal
local road
local stamp
local tax
local time
local union
local wind
local yokel
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
lock plate
lock rail
lock saw
lock seam
lock seat
lock step
lock stitch
lock the door
lock turtle
lock up
lock washer
lock, stock, and barrel
lock-a-daisy
lock-grained
lock-hair fern
lock-jaw
lock-out
lock-up
locked in
locked jaw
locked up
locked jaw
locked-up page
locked-wire rope
locker box
locker paper
locker plant
locker room
locking face
locking gauntlet
locking in
locking on
locking pallet
locking piece
locking plate
locking ring
locking signals
locking up
locking wheel
lockup safety valve
loco citato
loco disease
loco parentis
loco supra citato
loco vetch
loco-descriptive
loco-foco
locomotive boiler
locomotive engine
locomotor ataxia
locoprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
log runner
log scale
log scaler
log ship
log slate
log tooth
log turner
log-
log-book
log-log
log-roll
log-roller
log-rolling
logan apple
logan stone
logan-stone
loganberry wine
logarithmic curve
logarithmic function
loggan stone
loggerhead shrike
loggerhead sponge
loggerhead turtle
logging car
logging locomotive
logging sled
logging stone
logging wheels
logic circuit
logic-chopper
logic-chopping
logical analysis
logical circle
logical construction
logical discussion
logical empiricism
logical empiricist
logical fallacy
logical impossibility
logical operation
logical order
logical outcome
logical positivism
logical positivist
logical presumption
logical sequence
logical sum
logical syntax
logical thought
logically impossible
logico-metaphysical
logistic curve
logistic line
logo-
logographic character
logographic symbol
logos Christology
logos theology
logothete-
logwood black
logwood blue
logwood paper
loin end
loiter about
loiter around
loiter away the time
loiter behind
loiter out the time
loll around
loll shraub
loll-shraub
lollop around
lolly water
lombard street
lombard-street
lomi-lomi
london pride
lone hand
lone pair
lone wolf
lone woman
lonely end
lonely heart
lonesome end
long accent
long account
long ago
long arm
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
long cloth
long coat
long cross
long distance
long division
long dozen
long drink of water
long duration
long ess
long face
long fake
long for
long gallery
long game
long green
long haul
long home
long hop
long horn
long horse
long house
long hundred
long hundredweight
long in the tooth
long interest
long iron
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long range
long range aid to navigation
long rifle
long road
long robe
long rod
long rope
long run
long shanks
long shot
long side
long sight
long since
long splice
long standing
long step
long stock
long sufferance
long suit
long sweetening
long sword
long tether
long time
long tin
long to
long tom
long ton
long tongue
long topgallant mast
long trail
long trousers
long underwear
long vacation
long view
long vowel
long wave
long way
long while
long word
long-
long-accustomed
long-acre
long-agitated
long-ago
long-and-short work
long-arm
long-arm balance
long-armed
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-billed
long-boat
long-bodied
long-borne
long-bow
long-bracted
long-branched
long-breathed
long-buried
long-celled
long-chained
long-clawed
long-coated
long-coats
long-contended
long-continued
long-continuing
long-coupled
long-crested
long-cycle
long-cycled
long-dated
long-day
long-dead
long-delayed
long-descending
long-deserted
long-desired
long-destroying
long-distance
long-distance call
long-docked
long-drawn
long-drawn-out
long-eared
long-eared owl
long-enduring
long-established
long-exerted
long-expected
long-experienced
long-extended
long-eyed sharp
long-faced
long-faded
long-favored
long-fed
long-fiber
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruited
long-gown
long-gowned
long-grassed
long-hair
long-haired
long-haired griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heeled
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged
long-limbed
long-line
long-lined
long-liner
long-lining
long-lived
long-livedness
long-living
long-locked
long-lost
long-lunged
long-memoried
long-nebbed
long-neck clam
long-necked
long-nosed
long-off
long-on
long-parted
long-past
long-pasterned
long-pending
long-period variable
long-planned
long-playing
long-plumed
long-pod
long-podded
long-possessed
long-projected
long-protruded
long-quartered
long-range
long-range attack aircraft
long-range bomber
long-range forecasting
long-range heavy bomber
long-range medium bomber
long-range patrol bomber
long-range plan
long-range planning
long-range radar
long-range rocket
long-reaching
long-resounding
long-ribbed
long-ridged
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawing
long-withheld
long-wooed
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
looming in the distance
looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loop-hole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curved
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-flowing
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicled
loose-principled
loose-robed
loose-skinned
loose-spiked
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
lish hide
lish leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
loud noise
loud pedal
loud sound
loud-acclaiming
loud-applauding
loud-bellowing
loud-blustering
loud-calling
loud-clamoring
loud-cursing
loud-hailer
loud-laughing
loud-mouth
loud-mouthed
loud-mouths
loud-ringing
loud-roared
loud-roaring
loud-screaming
loud-singing
loud-sounding
loud-speaker
loud-speaking
loud-spoken
loud-squeaking
loud-thundering
loud-ticking
loud-voiced
loudspeaker van
loudy-da
lough diver
louis d'or
louis quatorze
louis quinze
louis seize
louis treize
lounge around
lounge bar
lounge car
lounge chair
lounge lizard
lounge suit
lounging jacket
lounging pajamas
lounging robe
loup cervier
loup-cervier
loup-garou
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-drury
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-flighted
low-fortuned
low-frequency
low-frequency current
low-frequency speaker
low-frequency wave
low-gauge
low-geared
low-grade
low-heeled
low-hung
low-intensity
low-key
low-keyed
low-lead gas
low-level
low-level language
low-leveled
low-lipped
low-lived
low-living
low-low
low-lying
low-masted
low-melting
low-minded
low-mindedly
low-mindedness
low-murmuring
low-muttered
low-necked
low-paneled
low-pass filter
low-pitched
low-power
low-pressure
low-pressure area
low-pressure cylinder
low-pressure salesmanship
low-priced
low-principled
low-priority
low-profile
low-purposed
low-quality
low-quartered
low-rate
low-rented
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lower-cased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
lowside window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jack
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman's saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lymph gland
lymph heart
lymph node
lymph nodule
lymph-
lymph-vascular
lymphatic gland
lymphatic leukemia
lymphatic system
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre back
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyrico-dramatic
machine cutter
machine dresser
machine drill
machine feeder
machine gun
machine gunner
machine knife
machine knitter
machine language
machine lapper
machine nailer
machine pistol
machine politician
machine politics
machine readable
machine rifle
machine ruler
machine screw
machine shop
machine stamper
machine steel
machine stitch
machine stitcher
machine stitching
machine tool
machine word
machine-breaking
machine-broken
machine-cut
machine-drilled
machine-driven
machine-finished
machine-forged
machine-gun
machine-gun fire
machine-gunned
machine-gunning
machine-hour
machine-knitted
machine-made
machine-mixed
machine-sewed
machine-stitch
machine-stitched
machine-switching office
machine-tooled
machine-woven
machine-wrought
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macrame cord
macrame knot
macro-
macro-axis
macrobiotic diet
macrocytic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
magen david
maggot in one's brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magic number
magic realism
magic realist
magic ring
magic show
magic spectacles
magic spell
magic square
magic wand
magic words
magico-religious
magico-sympathetic
maginot line
magistral line
magistrates' court
magma basalt
magmaic stoping
magna charta
magna cum laude
magne-
magnesia magma
magnesium carbonate
magnesium chloride
magnesium citrate
magnesium dioxide
magnesium flare
magnesium hydroxide
magnesium light
magnesium oxide
magnesium peroxide
magnesium sulfate
magnesium trisilicate
magnet forger
magnet keeper
magnet school
magnet-
magnetic amplifier
magnetic attraction
magnetic axis
magnetic battery
magnetic bearing
magnetic bottle
magnetic bubble
magnetic cartridge
magnetic character reader
magnetic chart
magnetic circuit
magnetic coefficient
magnetic compass
magnetic concentration
magnetic conductivity
magnetic constant
magnetic core
magnetic course
magnetic creeping
magnetic curves
magnetic declination
magnetic deviation
magnetic dip
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetoelectric machine
magnetomotive force
magnetostriction microphone
magnificent rifle bird
magnifying glass
magnifying power
magnolia warbler
magnum bonum
magnum opus
magnus hitch
magpie diver
magpie finch
magpie goose
mah jong
mah-jongg
mahala mat
mahaleb cherry
mahali disease
maharao raja
mahogany birch
mahogany brown
mahogany family
mahogany-brown
mahua butter
maid marian
maid of all work
maid of honor
maid of honour
maid-in-waiting
maiden cane
maiden lady
maiden name
maiden over
maiden pink
maiden speech
maiden state
maiden voyage
maiden's blush
maiden's-tears
maiden's-wreath
maiden's-wreaths
maidenhair fern
maidenhair spleenwort
maidenhair tree
maidenhair-tree
maidenhair-vine
maids-hair
maids-in-waiting
mail boat
mail car
mail carrier
mail catcher
mail coach
mail drop
mail flag
mail order
mail orderly
mail packet
mail phaeton
mail pouch
mail steamer
mail train
mail truck
mail van
mail-cheeked
mail-coach
mail-order buying
mail-order goods
mail-order house
mail-order selling
mailed fist
mailed fist, the
mailed-cheeked
mailing list
mailing machine
mailing tube
main body
main brace
main chance
main clause
main course
main current
main deck
main diagonal
main dish
main drag
main feature
main features
main force
main gaff-topsail
main gauche
main idea
main interest
main lift
main line
main office
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
main-trysail gaff
main-trysail peak halyard
main-trysail rig
main-trysail vang
main-yard
main-yardman
mainstream jazz
maintain a household
maintain clearance
maintain connection
maintain continuity
maintain distance
maintain position
maintain the heading
maintain the highest standards
maintain with your last breath
maintain your perspective
maintained school
maintaining power
maintenance and cure
maintenance bond
maintenance man
maintenance of membership
maintenance of your good name
mais oui
maison de sante
maison-dieu
maître d'
maître d'hôtel
maître de ballet
maître d'hotel
maize mildew
maize oil
maize smut
maize yellow
maize-eater
majo bitters
majolica dipper
majolica painter
major agglutinins
major axis
major basilica
major chord
major element
major form class
major general
major in
major interval
major key
major league
major medical insurance
major mode
major operation
major operations
major order
major orders
major part
major party
major penalty
major piece
major planet
major poet
major premise
major premiss
major scale
major second
major seminary
major seventh chord
major suit
major surgery
major tenace
major term
major third
major triad
major-domo
major-domos
major-domoship
major-general
major-generalcy
major-generalship
major-league
major-leaguer
majority carrier
majority leader
majority rule
majuscule script
make a North River jibe
make a U-turn
make a bargain
make a bed
make a beeline
make a beginning
make a bequest
make a bet
make a bid
make a bid for
make a blind bargain
make a blooper
make a blunder
make a board
make a boast of
make a bold push
make a boner
make a boo-boo
make a break for
make a break for it
make a breakthrough
make a brolly-hop
make a burst of speed
make a buy
make a call
make a cash payment
make a cat's-paw of
make a cautious move
make a chattel of
make a circuit
make a clamor
make a clean breast
make a clean breast of
make a clean sweep
make a close study of
make a comeback
make a commotion
make a comparison
make a compromise
make a critical revision
make a cross-reference
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage
make a pinch
make a pitch for
make a play for
make a plaything of
make a plea
make a point of
make a practice of
make a precipitate departure
make a prediction
make a present of
make a pretense
make a pretext of
make a production of
make a prognosis
make a projection
make a promise
make a proof
make a prophecy
make a puppet of
make a purchase
make a quick exit
make a racket
make a radical change
make a raid
make a rebuttal
make a recension
make a reconnaissance
make a regulation
make a report
make a request
make a requisition
make a resolute stand
make a resolution
make a reverence
make a round trip
make a row
make a run
make a run for
make a rush at
make a sacrifice
make a sale
make a scene
make a scoop
make a selection
make a set at
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
make short work of
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make young
make your adieu
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
male alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malicious parody
malignant catarrh
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man tiger
man with hair on his chest
man without a country
man's best friend
man's estate
man-abhorring
man-about-town
man-at-arms
man-minded
man-minute
man-o'-war
man-o'-war bird
man-of-the-earth
man-of-war
man-of-war bird
man-of-war fish
man-of-war's man
man-orchis
man-pleasing
man-record chart
man-ridden
man-servant
man-shaped
man-size
man-sized
man-sized job
man-sized meal
man-stalking
man-subduing
man-supporting
man-tailored
man-taught
man-to-man
man-to-man defense
man-trap
man-woman
man-worshipping
man-worthiness
man-worthy
man-year
manage somehow
manage the price of
manage to
manage with
manage yourself
manageable price
managed currency
managed price
managed prices
management accounting
management consultant
management consulting
management engineering
management information system
management share
management theory
management trust
managing director
managing editor
mancona bark
mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
mandelic acid
mandibulo-
mandibulo-auricularis
mando-bass
mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniacal excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoba rubber
maniere criblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-acred
many-angled
many-armed
many-banded
many-beaming
many-belied
many-bleating
many-blossomed
many-blossoming
many-branched
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-eared
many-eyed
many-faced
many-faceness
many-faceted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languaged
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-spotted
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
marble-imaged
marble-looking
marble-minded
marble-mindedness
marble-pale
marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon's mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchioness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare-rode
marechal niel
mares of Diomedes
margaric acid
margate fish
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
marginal utility
margined securities
maria theresa dollar
mariage de convenance
marigold finch
marigold window
marigold yellow
marijuana cigarette
marijuana smoker
marine animal
marine animals
marine barometer
marine belt
marine biology
marine blue
marine chronometer
marine corps
marine engine
marine engineer
marine engineering
marine glue
marine green
marine insurance
marine ivy
marine league
marine painter
marine painting
marine railway
marine shell
marine soap
marine store
marine superintendent
marine travel
marine-finish
mariner's chart
mariner's compass
mariposa lily
marital affinity
marital faithfulness
marital fidelity
marital relations
maritime belt
maritime law
maritime reconnaissance plane
marjoram oil
mark boundaries
mark degree
mark down
mark lodge
mark of Cain
mark of office
mark of signature
mark off
mark out
mark out a course
mark out for
mark paid
mark the interface
mark the periphery
mark the time
mark time
mark tooth
mark up
mark with a red letter
mark-on
mark-up
marked down
marked resemblance
marked with the crow's foot
marker beacon
marker buoy
marker-down
marker-off
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treader
marsh trefoil
marsh turnip
marsh vetchling
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
marshalling yard
marsupial mole
marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
master of the situation
master plan
master race
master rod
master screw
master sergeant
master shifter
master spirit
master spirit of the age
master spring
master stroke
master switch
master tap
master touch
master wheel
master workman
master your feelings
master yourself
master's degree
master's degree candidate
master's gown
master's oral
master-at-arms
master-builder
master-hand
master-key
master-mason
master-singer
master-slave manipulator
master-stroke
master-vein
master-work
masters-at-arms
mastery of skills
masthead angle
masthead compass
mastic tree
mastiff bat
masting house
masto-
mastodon locomotive
mastoid cell
mastoid process
mat bean
mat burn
mat cane
mat finish
mat of hair
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
matc-maker
match coins
match cord
match data
match findings
match frame
match game
match hook
match in the powder barrel
match joint
match lining
match pipe
match plane
match plate
match play
match point
match race
match rifling
match rope
match stamp
match tub
match up with
match wheel
match yourself against
match-board
match-lined
matchbox bean
matched order
matching machine
matching pair
matching plane
matching set
matchless discordant
mate gourd
mateo-
mater dolorosa
mater lectionis
mater of fact
materia medica
material assets
material basis
material body
material cause
material costs
material culture
material fallacy
material grounds
material logic
material means
material part
material point
material resources
material thing
material things
material wealth
material world
materials handling
maternal ancestor
maternal love
maternity benefit
maternity hospital
maternity insurance
maternity ward
mathematical elements
mathematical expectation
mathematical induction
mathematical linguistics
mathematical logic
mathematical notation
mathematical physicist
mathematical physics
mathematical point
mathematical precision
mathematical probability
mathematically exact
mathematically probable
mathematico-
mathematico-logical
mathematico-physical
matilija poppy
matin song
matter-of
matter-of-course
matter-of-fact
matter-of-factly
matter-of-factness
matters in hand
matters of importance
mattress type
matura diamond
mature age
mature belief
mature judgment
mature man
mature thought
mature woman
matutinal epilepsy
matzo ball soup
matzo balls
matzo meal
matzoth baker
maundy thursday
mauvais quart d'heure
mauvais sujet
mauvaise honte
mauve blush
mauve decade
maxillo-
maximal ideal
maximum dissemination
maximum likelihood
maximum modulus principle
maximum speed
maximum thermometer
maximum-security prison
may I
may day
may duke
may it please you
may queen
may tree
may-apple
may-bug
may-bush
may-butter
may-day
may-dew
may-flowering tulip
may-fly

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may-game
may-lady
may-lord
may-woon
mayfair tan
mayor-elect
mazel tov
maze-gane
mazel tov
mazer tree
mcm1io n9p8y9r lilglhut
me-too
me-tooism
me-ward
mea culpa
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
meal worm
mealie meal
mealy bellwort
mealy bug
mealy-back
mealy-mouthed
mealy-mouthedness
mean anomaly
mean business
mean calorie
mean deviation
mean deviation from the mean
mean distance
mean free path
mean latitude
mean life
mean line
mean mind
mean much
mean noon
mean nothing
mean planet
mean sea level
mean semitone
mean solar day
mean solar time
mean square
mean square deviation
mean sun
mean time
mean to
mean to imply
mean to say
mean to suggest
mean value
mean value theorem
mean well
mean what you say
mean while
mean wretch
mean-acting
mean-conditioned
mean-dressed
mean-looking
mean-minded
mean-souled
mean-spirited
mean-spiritedly
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
measure off
measure out
measure signature
measure swords
measure swords with
measure time
measure up
measure up to
measure your length
measure zero
measurement cargo
measurement of variables
measurement ton
measuring cup
measuring device
measuring glass
measuring machine
measuring rod
measuring stick
measuring wheel
measuring worm
meat ax
meat block
meat breakfast
meat by-product
meat chopper
meat cleaner
meat eater
meat fly
meat grinder
meat loaf
meat market
meat offering
meat packer
meat pie
meat preserver
meat saw
meat slicer
meat stew
meat tea
meat thermometer
meat-eater
meat-eating
meat-fed
meat-hungry
meat-packing
meat-to-
mechan-
mechanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical man
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
mechanical wave
mechanically precise
mechanico-
mechanized warfare
medaddy-bush
medal bronze
medal chief
medal for merit
medal of freedom
medal of honor
medal play
medal winner
meddle with
meden agan
medi-
media campaign
medial condyle
medial strip
median strip
mediastino-pericardial
mediastino-pericarditis
mediastinum testis
mediated generalization
medical Greek
medical aid
medical and surgical instruments
medical attendant
medical attention
medical care
medical center
medical certificate
medical corps
medical diagnosis
medical diathermy
medical dressing
medical ethics
medical examination
medical examiner
medical history
medical instrument
medical jurisprudence
medical jury
medical man
medical practice
medical practitioner
medical prognosis
medical school
medical treatment
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet head-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meetone's end
meetone's end
meetyour end
meetone's end
megalo-
megalo-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melancholia attonita
melancholia hypochondriaca
melancholia religiosa
melano-
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membranous labyrinth
membranous labyrinth
memento mori
memo book
memorandum book
memorandum head
memoria in aeterna
memoria technica
memorial arch
memorial column
memorial day
memorial park
memorial record
memorial rose
memorial statue
memorial stone
memorial tablet
memory bank
memory book
memory circuit
memory gap
memory like a sieve
memory obstruction
memory root
memory span
memory trace
memory training
memory tubes
memory verse
memory-trace
men's chorus
men's clothing
men's lounge
men's magazine
men's room
men's wear
men's-wear shop
men-
men-at-arms
men-children
men-folk
men-of-the-earth
men-of-war
menace to health
menage a trois
menage man
mend sail
mend the furl
mend your fences
mend your manners
mend your ways
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mening-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental dissociation
mental distress
mental disturbance
mental effort
mental equilibrium
mental exercise
mental faculty
mental fatigue
mental genius
mental giant
mental grasp
mental handicap
mental healer
mental healing
mental health
mental home
mental hospital
mental hygiene
mental illness
mental image
mental impression
mental instability
mental institution
mental labor
mental linking
mental object
mental outlook
mental philosophy
mental picture
mental poise
mental presentation
mental process
mental prominence
mental ratio
mental representation
mental reservation
mental retardation
mental set
mental shock
mental sickness
mental strain
mental subnormality
mental symptom
mental telepathist
mental telepathy
mental test
mental topography
mental void
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercu-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
mesh bag
mesh connection
mesh knot
meshing-spur gear
mesityl oxide
mesmeric sleep
mesne lord
meso-
mesoxalyl-urea
mesquite grass
mesquite gum
mess about
mess about with
mess around
mess around with
mess beef
mess call
mess gear
mess hall
mess in
mess jacket
mess kit
mess pork
mess sergeant
mess steward
mess up
mess with
mess-john
mess-up
message carrier
message stick
message-bearer
messed up
messed-up
messenger RNA
messenger bird
messenger cable
messenger of God
messenger wire
messiah religion
messing around
meta-
meta-toluidine
metabolic disease
metabolic diseases
metabolic heat
metabolic pathway
metabolic psychosis
metacentric stability
metacresol purple
metagalactic space
metal age
metal breaker
metal carbonyl
metal casting
metal cloth
metal coloring
metal cut
metal detector
metal foil
metal fouling
metal lath
metal lather
metal leaf
metal paste-up
metal sculpture
metal spraying
metal wood
metal-bearing
metal-bending
metal-boring
metal-bound
metal-broaching
metal-bushed
metal-clad
metal-clasped
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
meteor dust impacts
meteor shower
meteor swarm
meteor trail
meteor train
meteoric particles
meteoric shower
meteoric success
meteorological instrument
meteorological reconnaissance
meteorological tower
meter angle
meter fixer
meter maid
meter rate
meter relay
meter-ampere
meter-candle
meter-candle-second
meter-kilogram
meter-kilogram-second
meter-millimeter
meter-reading
metered mail
metes and bounds
meth-
methacrylate resin
methacrylic acid
methamphetamine hydrochloride
methane series
methanol alcohol
methodical signs
methoxy DDT
methoxy group
methoxy radical
methy l acetate
methy l alcohol
methy l aldehyde
methy l benzene
methy l blue
methy l bromide
meth yl cellulose
methy l chloride
methy l chlorocarbonate
methy l chloroformate
methy l cyanide
methy l ester
methy l ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methacetic acid
methylated spirit
methylated spirits
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methyldyne group
methyldyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methyrosanilnine chloride
methylthionine chloride
methyltri-nitro
meticulous attention
meting out
metopon hydrochloride
met-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
metronome mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzanine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relieves
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
micn1n o9p8y9r iilghutm
micro-
micro biology
micro-
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
microfilm plotter
microfilm reader
microfilm viewer
micrometer caliper
micrometer calliper
micrometer drum
micrometer gauge
micrometer head
micrometer screw
micrometrically precise
microscopic distinction
microwave diathermy
microwave diathermy machine
microwave height finder
microwave linear accelerator
microwave link
microwave mixer
microwave oven
microwave radar
microwave relay station
microwave spectroscope
microwave spectroscopy
microwave spectrum
mid air
mid gear
mid leg
mid mashie
mid off
mid position
mid spoon
mid wicket off
mid wicket on
mid-
mid-Victorian
mid-act
mid-age
mid-aged
mid-air
mid-arctic
mid-back
mid-block
mid-body
mid-breast
mid-career
mid-carpal
mid-central
mid-century
mid-channel
mid-chest
mid-continent
mid-course
mid-court
mid-crowd
mid-current
mid-diastolic
mid-dish
mid-distance
mid-earth
mid-eighteenth
mid-feather
mid-field
mid-flight
mid-forty
mid-front
mid-gray
mid-gut
mid-heaven
mid-hour
mid-ice
mid-incisor
mid-kidney
mid-lake
mid-length
mid-lent
mid-life
mid-line
mid-link
mid-lobe
mid-lobed
mid-mixed
mid-mouth
mid-movement
mid-nineteenth
mid-ocean
mid-oestral
mid-off
mid-on
mid-orbital
mid-part
mid-period
mid-periphery
mid-pillar
mid-point
mid-position
mid-restrain
mid-region
mid-river
mid-road
mid-sea
mid-season
mid-side
mid-sky
mid-slope
mid-sole
mid-span
mid-stride
mid-styled
mid-sun
mid-swing
mid-tarsal
mid-term
mid-thigh
mid-thoracic
mid-tide
mid-time
mid-totality
mid-tow
mid-town
mid-travel
mid-value
mid-ventral
mid-volley
mid-walk
mid-wall
mid-wall column
mid-water
mid-week
mid-wicket
mid-workings
mid-world
midsummer daisy
midsummer day
midsummer madness
midsummer-men
midwall column
midwall shaft
midwife frog
midwife toad
midwing monoplane
might and main
might be
might of arms
might-be
might-have-been
mighty effort
mighty in battle
mighty like
mighty-brained
mighty-handed
mighty-minded
mighty-mouthed
mighty-spirited
mignonette family
mignonette green
mignonette lace
mignonette-vine
migrant laborer
migrant shrike
migrant worker
migration of ions
migration velocity
migratory bird
migratory laborer
migratory locust
migratory worker
mikado brown
mikado locomotive
mikado orange
mikado yellow
mike fright
mil-foot
mila a landi
milch cow
milch glass
milch-cow
mild alkali
mild as milk
mild as milk and water
mild as mother's milk
mild blushing goddess
mild mercurous chloride
mild mosaic
mild process
mild radical
mild silver protein
mild steel
mild-aired
mild-aspected
mild-blowing
mild-brewed
mild-cured
mild-eyed
mild-faced
mild-flavored
mild-looking
mild-mannered
mild-mooned
mild-savored
mild-scented
mild-seeming
mild-spirited
mild-spoken
mild-tempered
mild-tongued
mild-worded
mildew-proof
mildly radical
mile-ohm
mile-pound
mile-ton
mileage book
mileage ticket
miles glorious
miles per hour
miliary fever
miliary tuberculosis
military academy
military aircraft
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
milk bench
milk brother
milk can
milk cart
milk checker
milk chocolate
milk cow
milk fever
milk float
milk glass
milk leg
milk of almonds
milk of bismuth
milk of human kindness
milk of magnesia
milk pail
milk powder
milk products
milk pudding
milk punch
milk purslane
milk route
milk run
milk shake
milk sherry
milk sickness
milk snake
milk stout
milk sugar
milk tester
milk the ram
milk thistle
milk toast
milk tooth
milk train
milk vetch
milk willow-herb
milk-and-water
milk-and-wateriness
milk-and-waterish
milk-and-waterism
milk-and-watery
milk-bearing
milk-blended
milk-borne
milk-breding
milk-condensing
milk-cooling
mill-lead
mill-leat
mill-pond
mill-post
mill-race
mill-rind
mill-round
mill-run
mill-sixpence
mill-type motor
mill-wheel
mille marin
milled soap
miller's thumb
miller's-thumb
millet disease
millet grass
millet seed
millet-seed rash
milli-
millgram-hour
milline rate
milling cutter
milling machine
millionth comparator
millstone around your neck
millstone bridge
millwright chisel
milo disease
milo maize
milo root rot
milori blue
milori green
milpa system
mime artist
mimeograph copy
mimic thrush
miminy-pimininy
mimosa bark
mimosa family
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curst
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
minded to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner's anemia
miner's asthma
miner's consumption
miner's dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
mineral sperm oil
mineral spirits
mineral spring
mineral tallow
mineral tar
mineral water
mineral waters
mineral wax
mineral wool
mineral world
mineral-bearing material
mineralogical chemistry
ming tree
mingle with
mingle-mangle
mingle-mangleness
mingle-mangler
mini-
mini-specs
miniature camera
miniature golf
miniature painting
miniature photography
miniature pinscher
miniature poodle
miniature schnauzer
minie ball
minimal art
minimal pair
minimax theorem
minimum access programming
minimum flying speed
minimum free form
minimum lending rate
minimum thermometer
minimum wage
minimum-security prison
minimum-wage law
mining claim
mining engineer
mining engineering
mining geology
minion of the law
minister of music
minister of state
minister of the Gospel
minister plenipotentiary
minister resident
minister to
minister without portfolio
minister-general
ministering angel
ministering spirits
ministers resident
ministers without portfolios
mink frog
mink-ranching
minny bass
mino bird
minole-mangle
minor axis
minor basilica
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
miracle man
miracle play
miracle player
miracle wheat
miracle-breeding
miracle-proof
miracle-worker
miracle-working
mare down
mare dromble
mare duck
miriti palm
mirror carp
mirror image
mirror image, the
mirror of the mind
mirror symmetry
mirror writer
mirror writing
mirror-faced
mirror-writing
mirth-inspiring
mirth-loving
mirth-making
mirth-marring
mirth-moving
mirth-provoking
mis-
mis-aver
mis-censure
mis-center
mis-citation
mis-cite
mis-con
mis-copy
mis-cue
mis-eat
mis-enter
mis-entry
mis-event
mis-hallowed
mis-hear
mis-hearer
mis-heed
mis-hit
mis-hold
mis-humility
mis-lie
mis-mark
mis-meet
mis-pen
mis-rely
mis-say
mis-season
mis-seat
mis-see
mis-seek
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheathed
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-strike
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-swnorn
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en sc
mise-en-scene
mise-enscene
miserable lot
misery in the head
misfortune- difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the market
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
modern-built
modern-looking
modern-made
modern-practiced
modern-sounding
moderne cut
modernist verse
modest price
modest violet
modi operandi
modi vivendi
modock wool
modular arithmetic
modular assembly
modular production
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moeso-goth
mogul base
mogul locomotive
mohair rug
mohawk weed
mohs’ scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
mollweide protection
molly maguire
molly washdish
molly-coddle
molotov cocktail
molybdenum steel
molybdenum trioxide
molybodic anhydride
molybdic oxide
moment of force
moment of inertia
moment of momentum
moment of stability
moment of truth
moment-area method
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deme
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
money's worth
money's-worth
money-bag
money-bloated
money-bound
money-box
money-breeding
money-changer
money-earning
money-getting
money-grasping
money-grub
money-grubbing
money-hungry
money-lender
money-loving
money-mad
money-maker
money-making
money-raising
money-saving
money-spelled
money-spinner
money-wort
moneyed capital
moneyed corporation
moneyed man
mong corn
mongolian idiot
mongoloid idiocy
mongoloid idiot
mongoose plant
monilia disease
monistic idealism
monitor bug
monitor chuck
monitor room
monitor screen
monitoring booth
monitory letter
monk bat
monk parrot
monk saki
monk's cloth
monk's pepper tree
monk's robe
monk's-hood
monk-fish
monkey apple
monkey around
monkey bag
monkey block
monkey bread
monkey bread tree
monkey bridge
monkey business
monkey dog
monkey fist
monkey flower
monkey forecastle
monkey foresail
monkey jacket
monkey link
monkey nut
monkey paw
monkey pinscher
monkey pole
monkey poop
monkey puzzle
monkey rail
monkey suit
monkey tail
monkey tricks
monkey with
monkey wrench
monkey's fist
monkey-ball
monkey-face
monkey-faced
monkey-faced owl
monkey-god
monkey-pot
monkey-rigged
monkey-tail valve
monkey-tailed
monkeying around
mono carpellary
mono carpic
mono carpous
mono cephalous
mono ceros
mono chord
mono clinal
mono clinic
mono clinous
mono cyclic
mono-
mono-ideic
mono-ideism
mono-ideistic
mono-iado
mono-iodohydrin
mono-iodomethane
mono-ion
monoamine oxidase
monobasic sodium phosphate
monochloro-
monochloroacetic acid
monochromatic film
monochromatic illuminator
monoclinic system
monocytic leukemia
monoeenergetic neutron
monophonic system
monopolistic competition
monopolize the conversation
monopolize the thoughts
monopolize your attention
monopoly value
monorange speaker
monosodium glutamate
monostable circuit
monoxy-
monroe doctrine
mons pubis
mons veneris
monsoon low
monster-bearing
monster-breeding
monster-eating
monster-guarded
monster-taming
monster-teeming
monstrous lie
mont-de-piete
mont-de-pit
montan wax
montani semper liberi
monte bank
monte-jus
montes veneris
month after month
month in month out
month of Sundays
month's mind
monthly epact
monthly investment plan
monthly meeting
monthly payments
monument plant
monumental mason
monumental record
monumental sculpture
mooch around
mooch off
mood music
mood phrase
mood swing
moon around
moon base
moon blindness
moon daisy
moon dog
moon goddess
moon goddesses
moon jelly
moon jellyfish
moon knife
moon letter
moon orbit
moon pillar
moon rat
moon ray
moon ship
moon station
moon-blanced
moon-blasted
moon-blasting
moon-blind
moon-born
moon-bright
moon-bowed
moon-calf
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moose fly
moose-ear
moose-misse
moot case
moot court
moot hall
moot point
moot-hill
moot-house
moot-stow
mootchie wood
mop and mow
mop bucket
mop pail
mop up
mop up the floor with
mop-up
mope-eyed
mopped up
mopper-up
moppers-up
mopping up
mopping-up
mopstick rail
mora hair
morainal drift
moral badness
moral censor
moral certainty
moral climate
moral code
moral courage
moral delinquency
moral excellence
moral faculty
moral fiber
moral flaw
moral goodness
moral hazard
moral insanity
moral lesson
moral obligation
moral of the story
moral philosophy
moral pollute
dness
moral pollution
moral precept
moral principles
moral rectitude
moral rightness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more dead than alive
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more sol
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortally ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
moss-bordered
moss-bound
moss-brown
moss-clad
moss-covered
moss-crowned
moss-gray
moss-green
moss-grown
moss-hag
moss-inwoven
moss-lined
moss-trooper
moss-woven
mossy-backed
most admired disorder
most assuredly
most certainly
most distant
most frequently
most important
most likely
most often
most recent
most reverend
most significant digit
most unkindest cut of all
most, the
most-favored-nation clause
mot d'ordre
mot juste
mote nut
mote spoon
mote-hill
moth and rust
moth ball
moth bean
moth blight
moth mullein
moth-balled
moth-eat
moth-eaten
mother carey's chicken
mother cask
mother cell
mother complex
mother country
mother earth
mother figure
mother fixation
mother goose
mother hubbard
mother language
mother liquor
mother lode
mother love
mother naked
mother of coal
mother of dews
mother of pearl
mother of the Muses
mother of thyme
mother of vinegar
mother ship
mother spleenwort
mother superior
mother superiors
mother surrogate
mother symbol
mother tongue
mother wit
mother yaw
mother's boy
mother's darling
mother's day
mother's milk
mother's son
mother-church
mother-in-law
mother-in-law plant
mother-naked
mother-of-pearl
mother-of-pearl cloud
mother-of-pearl glass
mother-of-thousands
mother-of-thyme
mother-of-thymes
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-ear
mouse-ear chickweed
mouse-ear cress
mouse-ear hawkweed
mouse-eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
move to action
move to the side
move with the times
move you to
move your fanny
move your tail
moveable feast
movement of air
movie actor
movie camera
movie film
movie house
movie star
movie theater
movie-goer
movie-minded
movies, the
moving apart
moving average
moving cause
moving cluster
moving picture
moving road
moving spirit
moving staircase
moving stairway
moving target indicator
moving toward
moving van
moving-coil galvanometer
moving-coil meter
moving-coil microphone
moving-coil speaker
moving-conductor microphone
moving-iron meter
moving-picture show
moving-picture theater
mow down
mow-burnt
mowing grass
mowing machine
mowrah butter
mowrah fat
mowrah oil
mowrah-seed oil
moyen-age
mrs grundy
mu meson
mu-meson
muc-
much acclaimed
much ado about nothing
much as
much at one
much cry and little wool
much esteemed
much obliged
much of a muchness
much the same
much to be desired
much to be regretted
much-admired
much-advertised
much-branched
much-coiled
much-containing
much-devouring
much-discussed
much-enduring
much-engrossed
much-honored
much-hunger
much-lauded
much-loved
much-loving
much-mooted
much-pondering
much-praised
much-revered
much-sought
much-suffering
much-valued
much-worshiped
mucic acid
mucilage canal
mucilage cell
mucilage duct
muck about
muck around
muck bar
muck in
muck rolls
muck soil
muck up
muck-rake
muck-up
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoitinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud hen
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffed drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-tsai
muir ill
muir poot
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulct law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mull muslin
mull over
mullein dock
mullein foxglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integr
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistep hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscul-
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
muessed up
mussel bill
mussel crab
mussel-shell
must item
mustache cup
mustache monkey
mustang grape
mustard and cress
mustard beetle
mustard family
mustard gas
mustard greens
mustard oil
mustard plaster
mustard sauce
mustard seed
mustard-seed coal
muster courage
muster in
muster on
muster out
muster roll
muster up
muster your resources
muster-out
mustering out
mut dash
mutamur in illis
mutated form
mutation fox
mutation mink
mutation pressure
mutation stop
mutatis mutandis
mutato nomine
muzzy speech
my Angel-infancy
my Father's house
my boys
my burning youth
my craft and sullen art
my goodness
my green age
my humble self
my love
my nearest and dearest enemy
my stars
my word
my-
myall wood
myasthenia gravis
myc-
myceto-
myco-
mycobacterium paratuberculosis
mydas fly
myel-
myelin sheath
myelo-
myelogenous leukemia
myeloid leukemia
myna bird
mynad-minded
myo-
myocardial infarction
myocardial insufficiency
myoclonous epilepsy
myogen fibrin
myosin fibrin
myosotis blue
myovascular insufficiency
myrcia oil
myria-
myriad-leaf
myriad-leaves
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
mytho-
myxo-
n number
n'est-ce pas
n-
n-dimensional
n-ple
n-ply
n-tuple
n-tuple linear algebra
n-tuply
n-type
nCi
nF
nW
na zdorov'e
na-dene
nacreous cloud
nag at
nag-tailed
nagaed wood
nagami kumquat
names of
namma hole
nand pearl
nankeen bird
nankeen lily
nanny goat
nanny plum
nanny-goat
nano-
nap hand
napa leather
naphth-
naphtha distiller
naphtha launch
naphthenic oil
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narcotico-acid
narcotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minded
narrow-mindedly
narrow-mindedness
narrow-mouthed
narrow-mouthed toad
narrow-necked
narrow-nosed
narrow-petaled
narrow-rimmed
narrow-seeded
narrow-shouldered
narrow-shouldred
narrow-skulled
narrow-souled
narrow-spirited
narrow-spiritedness
narrow-streeted
narrow-throated
narrow-toed
narrow-visioned
narrow-waisted
narrowing gap
nary one
nas-
nasal accent
nasal bone
nasal cavity
nasal concha
nasal discharge
nasal gleet
nasal index
nasal tone
nasal twang
nascent condition
nascent state
nash-gab
naso-
nasolacrimal duct
nastic movement
nasturtium family
nasturtium red
nasturtium yellow
nasty blow
nasty crack
nasty look
natal day
natch-bone
nation hood
nation-state
national accounting
national anthem
national assembly
national assistance
national bank
national bank note
national blue
national cemetery
national chairman
national church
national code
national convention
national debt
national economy
national emergency
national flag
national forest
national guard
national holiday
national honor
national income
national insurance
national language
national leader
national leadership
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural classification
natural color
natural death
natural development
natural dye
natural dyestuff
natural endowment
natural fiber
natural gas
natural gender
natural geometry
natural gift
natural growth
natural harbor
natural hierarchy
natural history
natural idiot
natural immunity
natural impulse
natural instinct
natural language
natural law
natural levee
natural logarithm
natural magic
natural man
natural mineral
natural minor
natural number
natural person
natural philosopher
natural philosophy
natural politeness
natural radioactivity
natural realism
natural realist
natural religion
natural resources
natural right
natural rights
natural rubber
natural science
natural scientist
natural selection
natural state
natural tendency
natural theology
natural to
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature's nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
nautzch dance
nautzch girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
navy unit
navy yard
nay rather
nay-say
naya paisa
naye paise
ne exeat
ne plus ultra
ne'er a
ne'er a one
ne'er-do-well
ne'er-dos
ne-
neanderthal man
neap tide
near and far
near as the bark on a tree
near at hand
near beer
near by
near death
near duplicate
near east
near enough to
near future
near go
near hand
near likeness
near miss
near point
near relation
near rhyme
near side
near squeak
near the ground
near the limen of hearing
near the mark
near the surface
near the threshold of hearing
near the wind
near thing
near to
near upon
near your end
near your heart
near-
near-acquainted
near-adjoining
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-resembling
near-sight
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
neck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
neck-piece
neck-rein
neck-stretching
neck-tie
neck-verse
necklace orchid
necklace poplar
necklace tree
necktie party
necktie sociable
necr-
necro-
necrotic enteritis
necrotic inflammation
necrotic tissue
nectar bird
nectar of the gods
nectar-bearing
nectar-breathing
nectar-dropping
nectar-breathing
nectar-loving
nectar-secreting
nectar-seeking
nectar-spouting
nectar-streaming
nectar-tongued
need clarification
need doing
need explanation
need for
need must
need no explanation
need no prodding
need to
need translation
need-be
need-not
needle bath
needle beam
needle bearing
needle blight
needle bug
needle bush
needle cast
needle chervil
needle dam
needle diatom
needle file
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-point lace
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needlenose pliers
needs must
needs-be
needy, the
neel-bhunder
neer-do-well
negation-proof
negative acceleration
negative answer
negative attitude
negative catalyst
negative electricity
negative feedback
negative flag
negative geotropism
negative glow
negative hallucination
negative income tax
negative ion
negative lens
negative misprision
negative polarity
negative pole
negative reinforcement
negative resistance
negative sign
negative tax
negative taxis
negative transfer
negative transference
negative tropism
negative valence
negative-pole
negative-raising
neglect the opportunity
neglected-looking
nerve ending
nerve fiber
nerve fibre
nerve gas
nerve impulse
nerve net
nerve ring
nerve sheath
nerve stretching
nerve trunk
nerve yourself
nerve-ache
nerve-celled
nerve-cutting
nerve-deaf
nerve-deafness
nerve-destroying
nerve-irritating
nerve-jangling
nerve-racked
nerve-racking
nerve-rendering
nerve-ridden
nerve-shaken
nerve-shaking
nerve-shattering
nerve-stretching
nerve-tingling
nerve-trying
nerve-winged
nerve-wracking
nerves of steel
nerves on edge
nervous as a cat
nervous breakdown
nervous disorder
nervous exhaustion
nervous nellie
nervous prostration
nervous stomach
nervous strain
nervous system
nervous tension
nervous wreck
nest box
nest egg
nest fungus
nest of drawers
nest-building
nest-egg
nestle-cock
net area
net assets
net blotch
net domestic product
net earnings
net fixer
net income
net interest
net line
net national product
net necrosis
net pay
net plankton
net price
net profit
net receipts
net register ton
net register tonnage
net silk
net tare
net ton
net tonnage
net tracery
net valuation
net value
net wages
net weaver
net weight
net worth
net-fashion
net-tender
net-veined
net-winged
nether cheeks
nether regions
nether side
nether vert
nether world
nether world diety
nethermost layer
nethermost level
nethermost stratum
neti neti
netted melon
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never-endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
never-strike
never-swerving
never-tamed
never-tiring
never-to-be-equaled
never-trodden
never-twinkling
never-vacant
never-varied
never-varying
never-waning
never-wearied
never-winking
never-withering
new arrival
new beginning
new birth
new blue
new boy
new broom
new brutalism
new catholic edition
new church
new covenant
new critic
new criticism
new deal
new departure
new englander
new english bible
new ethical movement
new generation
new greek
new halfpenny
new hampshire
new hebrew
new high
new humanism
new issue
new latin
new lease on life
new life
new light
new look
new man
new math
new mathematics
new maths
new meaning
new mintage
new moon
new moon bob
new morality
new pence
new penny
new penny Brit
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year's day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blown
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
new-furnish
new-grown
new-laid
new-light
new-looking
new-made
new-mint
new-minted
new-mintedness
new-model
new-modeler
new-mown
new-name
new-people
new-rich
new-rigged
new-risen
new-set
new-shaped
new-sprung
new-spun
new-written
new-wrought
new-year
newborn babe
newcastle disease
newel post
newel stair
newel-post
newest of the new
newfangled contraption
newfangled device
newfangled expression
newly come
newly-rich
newness to
news agency
news agent
news analyst
news bell
news case
news channel
news commentator
news conference
news dealer
news editor
news flash
news item
news kiosk
news media
news medium
news peg
news release
news report
news room
news service
news stall
news stirring
news story
news ticker
news vendor
news writer
news-greedy
news-letter
news-making
news-man
news-seeking
news-sheet
news-writer
newspaper of record
newspaper post
newspaper syndicate
newton-meter
next best
next best thing
next door
next door to
next friend
next in line
next life
next of kin
next to
next to nothing
next ways
next world
next-beside
next-door
next-door neighbor
nexus of cause and effect
nez perce
ngai camphor
ni-hard iron
ni-resist iron
nibbing plank
nibble at
nibble away
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery
nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nicker nut
nicker tree
nicker-tree
night club
night court
night crawler
night crow
night dancer
night dew
night dial
night editor
night effect
night emerald
night fighter
night fire
night flower
night green
night heron
night jasmine
night jessamine
night kaka
night key
night lamp
night latch
night letter
night life
night light
night line
night lizard
night monkey
night office
night operations
night owl
night palsy
night parrot
night partridge
night pennant
night piece
night prayer
night rail
night raven
night rider
night robe
night rocket
night school
night sergeant
night shift
night singer
night snake
night soil
night song
night sparrow
night spell
night spot
night steed
night stick
night sweat
night table
night terror
night vision
night warbler
night watch
night watcher
night watches
night watching
night watchman
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-founedered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
night-robe
night-robbed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminyism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nip through
nip up
nip-up
nipa alcohol
nipa sugar
nipped at
nipped waist
napper crab
nippety-tipperty
nipping wind
nipple cactus
nippy wind
nirvana principle
nisi prius
nisi prius court
nisi-prius
nissen hut
nissuee trout
nit grass
nit-grass
nit-picking
niter cake
niter-blue
nitr-
nitramino group
nitramino radical
nitric acid
nitric bacteria
nitric bacterium
nitric ether
nitric oxide
nitride process
nitriding steel
nitrile base
nitrile rubber
nitro compound
nitro group
nitro powder
nitro radical
nitro-
nitro-cellulose
nitro-cotton
nitro-hydro-carbon
nitrogen balance
nitrogen chloride
nitrogen cycle
nitrogen dioxide
nitrogen equilibrium
nitrogen family
nitrogen fixation
nitrogen fixer
nitrogen iodide
nitrogen monoxide
nitrogen mustard
nitrogen narcosis
nitrogen oxide
nitrogen pentoxide
nitrogen peroxide
nitrogen tetroxide
nitrogen trioxide
nitrogen-fixing
nitrogen-free
nitrohydrochloric acid
nitros-
nitroso group
nitroso radical
nitroso-
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitroxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no matter when
no matter which
no matter who
no mean
no mo
no modest violet
no more
no more and no less
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
no-load fund
no-man's-land
no-no
no-nonsense
no-one
no-par
no-par stock
no-par-value
no-place
no-rent land
no-show
no-side
no-surrender
no-system
no-thoroughfare
no-tillage
no-trump
no-trumper
noan's ark
nobel prize
nobiliary particle
noble ambition
noble art
noble art of self-defense
noble birth
noble experiment
noble fir
noble gas
noble metal
noble metals
noble opal
noble rank
noble rank or birth
noble savage
noble-born
noble-couraged
noble-featured
noble-fronted
noble-looking
noble-minded
noble-mindedly
noble-mindedness
noble-natured
noble-spirited
noble-tempered
noble-visaged
noblesse d'epee
noblesse de robe
noblesse oblige
nobody home
nobody knows
nobody on earth
nobody one knows
nobody present
nobody special
nobody the wiser
nobody under the sun
nobody's fool
nobody's patsy
nobody's sucker
nocking point
noct-
nocti-
nocturnal arc
nocturnal epilepsy
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddy tern
node house
node longitude
node of Ranvier
nodi-
nodical month
nodule disease
noise about
noise abroad
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-English
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hamitic
non-Hebraic
non-Hebraically
non-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelitish
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muscis
non-Negritic
non-Negro
non-Negroes
non-Newtonian
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
non-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-juror
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
non-pros
non-prosequitur
non-prossed
non-prossing
non-recoiling
non-reduction
non-regent
non-regulation
non-residence
non-resident
non-residential
non-resistance
non-resistant
non-society
non-striker
non-subscriber
non-substantial
non-tenure
non-term
non-union
non-user
non-vascular
nona-
nonaction calligraphist
nonaction calligraphy
nonaggression pact
nonalcoholic beverage
nonaligned nation
nonanoic acid
nonapparent easement
nonapparent servitude
nonassessable mutual
nonassessable stock
noncallable bond
noncallable securities
noncanonical writings
nonce word
nonce, the
nonchord tone
nonco-operation
nonco-operationist
nonco-operator
noncommissioned officer
noncommutative algebra
noncondensing engine
noncontingent existence
noncontingent free will
noncritical mass
nondestructive testing
nondirectional antenna
nondirectional microphone
nondirective therapy
nondischarge of debts
nondrying oil
none else
none of your business
none other
none to spare
none too soon
none-so-pretties
none-so-pretty
nonfat dry milk
nonfat milk
nonfiction prose
nonfiction writer
nonfilterable virus
nonforfeiture benefit
nonforfeiture law
nonforfeiture value
nonfunctional addition
nongraded school
nonharmonic tone
nonionic detergent
nonlinear calibrations
nonlinear system
nonliving matter
nonmalignant tumor
nonmaterial culture
nonmedical therapist
nonmedical therapy
nonmember bank
nonnative citizen
nonnegotiable bond
nonnegotiable demand
nonnuclear weapons
nonny-nonny
nonordained persons
nonorganic matter
nonpartisan ballot
nonpartisan election
nonpartisan primary
nonprescription drug
nonprone to disease
nonproneness to disease
nonprovided school
nonre-eligibility
norm of perfection
normal atom
normal axis
normal barrage
normal curve
normal distribution
normal divisor
normal equivalent deviate
normal landing
normal load
normal loop
normal magnification
normal matrix
normal orthogonal
normal pentane
normal pitch
normal saline solution
normal school
normal series
normal spin
normal tax
normal unemployment
normalized text
norman architecture
norman-french
normative system
normed conjugate
normed space
north about
north briton
north by east
north by west
north celestial pole
north country
north germanic
north mark
north pole
north sea
north shore
north side
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
north-eastward
north-end
north-following
north-light
north-north-east
north-north-west
north-northeast
north-northeastward
north-northeastwardly
north-northeastwards
north-northwest
north-northwestward
north-northwestwardly
north-northwestwards
north-polar
north-preceding
north-seeking
north-sider
north-west
north-wester
north-westerly
north-western
north-westward
northeast by east
northeast by north
northeast storm
northern canoe
northern cross
northern crown
northern harvestfish
northern hemisphere
northern kingfish
northern lights
northern mammoth
northern pike
northern porgy
northern red currant
northern redtop
northern sennet
northern studfish
northwest by north
northwest by west
norwegian elkhound
nos-
nosce te ipsum
nose ape
nose around
nose around for
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nosee-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the foggiest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey's years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o'clock it is
not know what to make of
not know what you are about
not know what's what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
not listen
not live to eat
not live up to expectation
not long ago
not look back
not look backward
not look for
not look like
not lose a moment
not lose sight of
not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
not wait to be asked
not want any part of
not war
not wash
not waste
not weaken
not well-founded
not what it is cracked up to be
not what you used to be
not willing to hear of
not with it
not within the memory of man
not words but action
not work
not worth a continental
not worth a damn
not worth a rap
not worth a thought
not worth a whoop
not worth having
not worth mentioning
not worth saving
not worth speaking of
not worth the candle
not worth the pains
not worth the powder and shot
not worthwhile
not write off
not yield an inch
not your cup of tea
not your sort
not yourself
not-
not-being
not-delivery
not-ephemeral
not-good
not-living
not-out
not-self
not-soul
not-under-command lights
nota bene
notaries public
notarized statement
notary public
notch block
notch-lobed
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inegales
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
noto-
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche
nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
now that
now you're talking
now-a-day
now-a-days
now-accumulated
now-being
now-big
now-borne
now-dead
now-existing
now-fallen
now-full
now-known
now-lost
now-neglected
now-waning
nowhere near
nowhere to be found
nowhere to turn
nowhere-dense
noxious stench
ns-a-vis
nt wt
nth degree
nth power
nu-value
nub yarn
nubbin disease
nubecula major
nubecula minor
nuci-
nucle-
nuclear artillery
nuclear atom
nuclear bomb
nuclear chemistry
nuclear cross section
nuclear electron
nuclear energy
nuclear engineer
nuclear envelope
nuclear explosive
nuclear family
nuclear fission
nuclear force
nuclear fuel
nuclear furnace
nuclear fusion
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
number line
number lottery
number nine iron
number off
number one
number one iron
number one wood
number opera
number plate
number present
number seven iron
number six iron
number system
number theory
number three wood
number two
number two iron
number two wood
number work
numbered with the dead
numbers game
numbers pool
numbers racket
numbers runner
numdah rug
numeric data
numerical analysis
numerical aperture
numerical control
numerical forecasting
numerical weather prediction
numerous as the sands
numerous as the stars
nummulitic limestone
nun buoy
nun moth
nun's cloth
nun's fiddle
nun's veiling
nun-bird
nun-buoy
nunc dimittis
nuncupative will
nunny bag
nuptial apartment
nuptial bond
nuptial knot
nuptial mass
nuptial plumage
nuptial song
nuptial tie
nurse an idea
nurse balloon
nurse cell
nurse child
nurse crop
nurse frog
nurse mother
nurse resentment
nurse shark
nurse tree
nurse your revenge
nurse’s aide
nurse-child
nurse-father
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses’ station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
o-
o-o
o-o-a-a
o-os
oak apple
oak bark
oak beauty
oak blight
oak brown
oak button
oak canker
oak chestnut
oak family
oak fern
oak fly
oak fungus
oak gall
oak green
oak leaf
oak leaf cluster
oak leather
oak moss
oak nut
oak of Dodona
oak pruner
oak tag
oak thistle
oak toad
oak tree
oak veneer
oak wart
oak wilt
oak-apple
oak-beamed
oak-boarded
oak-clad
oak-cleaving thunderbolts
oak-covered
oak-crested
oak-crowned
oak-leaf brown
oak-leaf cluster
oak-leaved
oak-paneled
oak-tanned
oak-timbered
oak-tree
oak-tree money
oak-wainscoted
oar feather
oar-footed
oast house
oast-house
oast-houses
oat bread
oat cleaner
oat field
oat flour
oat grass
oat grinder
oat huller
oat kiln
oat mill
oat sheller
oat thistle
oat thresher
oat-bearing
oat-cake
oat-crushing
oat-fed
oat-growing
oat-producing
oat-shaped
oaten reed
oath breaker
oath breaking
oath helper
oath of allegiance
oath of office
oath of secrecy
oath purgatory
oath suppletory
oath-bound
oath-breaking
oath-despising
oath-detesting
oath-making
oatlike bent grass
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obligate yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliterative inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurem per obscurius
obscurum per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
obtuse-angular
obtusi-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occulting light
occulting screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness
ocean perch
ocean pout
ocean racer
ocean sea
ocean spray
ocean sunfish
ocean trade
ocean tramp
ocean travel
ocean trip
ocean zone
ocean-born
ocean-borne
ocean-carrying
ocean-compassed
ocean-flooded
ocean-girdled
ocean-going
ocean-going tug
ocean-guarded
ocean-rocked
ocean-severed
ocean-skirted
ocean-smelling
ocean-spanning
ocean-sundered
ocean-wide
oceanic island
oceanographic research ship
ocellated turkey
ocelli-
ocher brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
oct-
octa-
octadecanoic acid
octagon scale
octahedron group
octal base
octal notation
octal system
octane number
octane rating
octanedioic acid
octave coupler
octave flute
octave scale
octave species
octet theory
octo-
octyl alcohol
octyl phenol
ocuba wax
ocul-
ocular inspection
ocular spectroscope
ocular spectrum
ocular spot
oculo-
oculomotor nerve
odd and even
odd fellow
odd fish
odd job
odd lot
odd man
odd man out
odd moments
odd number
odd or even
odd permutation
odd person
odd thing
odd-bell system
odd-come-short
odd-come-shortly
odd-even check
odd-fangled
odd-humored
odd-jobber
odd-jobman
odd-looking
odd-lot
odd-lot dealer
odd-mannered
odd-me-dod
odd-numbered
odd-pinnate
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophago-
oestrous cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart
of help
of ill omen
of importance
of interest
of itself
of kin
of language
of late
of like mind
of little brain
of little consequence
of little importance
of long duration
of long standing
of loose morals
of many words
of mark
of marriageable age
of moment
of necessity
of no account
of no avail
of no concern
of no consequence
of no earthly use
of no effect
of no force
of no great importance
of no importance
of no matter
of no purpose
of no significance
of no use
of note
of old
of one accord
of one mind
of one piece
of opposite polarity
do of other times
do of powerful physique
do of preference
do of promise
do of quality
do of rank
do of record
do of ripe age
do of sentiment
do of service
do of set purpose
do of significance
do of small importance
do of small number
do of sorts
do of soul
do of sound mind
do of that ilk
do of that kind
do of that sort
do of the best
do of the best sort
do of the blood
do of the clock
do of the cloth
do of the dead
do of the deepest
do of the deepest dye
do of the earth
do of the essence
do of the faith
do of the first magnitude
do of the first rank
do of the first water
do of the folk
do of the highest type
do of the old school
do of the same hue
do of the same kidney
do of the same mind
do of the same stripe
do of the true faith
do of the war party
do of two minds
do of unsound mind
do of use
ndo of value
of vital importance
of weight
of yesterday
of yore
of your own
of your own accord
of your own choice
of your own free will
of your own volition
of-
of-door
of-fact
of-the-moment
off Broadway
off and on
off base
off chance
off colour
off cut
off day
off duty
off guard
off in the clouds
off in the upper story
off in your reckoning
off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off white
off with
off with you
off work
off year
off you go
off your beat
off your chump
off your feed
off your guard
off your hands
off your head
off your nut
off your rocker
off your trolley
off-Broadway
off-balance
off-base
off-bear
off-bearer
off-bitten
off-board
off-break
off-cast
off-center
off-centered
off-centre
off-chance
off-color
off-colored
off-corn
off-cutting
off-drive
off-fall
off-falling
off-flavor
off-flow
off-glide
off-go
off-guard
off-hand
off-handed
off-hit
off-hitting
off-hour
off-key
off-licence
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offscourings of society
offscum of society
offset line
offset lithography
offset lithography press
offset sheet
offset staff
offset-litho
offshore dock
offshore rights
offspring of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of cade
oil of catechumens
oil of mirbane
oil of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secretating
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilspot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oticica oil
oka cheese
okle-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks' home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old liner
old maid
old man
old man's beard
old master
old moon
old nick
old nobility
old norse
old order
old paper
old party
old person
old poop
old pro
old prussian
old red
old river
old rose
old salt
old saw
old saxon
old school
old school tie
old sea dog
old sledge
old soldier
old soldiers' home
old song
old squaw
old stager
old story
old style
old talk
old testament
old times
old trot
old turkey
old welsh
old wheeze
old wife
old witch grass
old wives' tale
old woman
old world
old-age
old-age and survivors insurance
old-age assistance
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashioned
old-fashionedly
old-fashionedness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogyish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
old-maidenish
old-maidish
old-maidishness
old-maidism
old-man cactus
old-man fern
old-man’s-beard
old-new
old-rose
old-school
old-sighted
old-sightedness
old-squaw
old-standing
old-style
old-time
old-time country music
old-time religion
old-timer
old-timey
old-timey music
old-timiness
old-timy
old-wifely
old-wifish
old-womanish
old-womanishness
old-womanism
old-womanly
old-world
old-worldish
old-worldism
old-worldliness
old-worldly
old-young
olde-worlde
olden times
oldest profession
ole-
oleander fern
oleander scale
oleaster family
olefiant gas
olefin series
oleic acid
oleo gear
oleo leg
oleo oil
oleo strut
oleo-
oleoyl group
oleoyl radical
oleyl alcohol
olfactory area
olfactory bulb
olfactory cell
olfactory nerve
olfactory nerves
olfactory organ
olfactory pit
olfactory sense
olfactory tract
olig-
oligo-
olinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
olive-green
olive-greenish
olive-growing
olive-kernel oil
olive-oil castile soap
olive-pale
olive-shaded
olive-shadowed
olive-sided
olive-sided flycatcher
olive-skinned
olive-tree agaric
olive-wood
olivine-andesite
olivine-basalt
olla podrida
olla-podrida
olympian games
olympic games
om mani padme hum
omander wood
ombres chinoises
ombro-
ome next
omega minus
omega particle
omni mane
omni-
omni-ignorant
omnia vincit amor
omnibus bill
omnibus box
omnibus clause
omnibus driver
omnibus train
omnibus volume
omnibus-driving
omnibus-fashion
omnibus-riding
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank’s mare
on shank’s pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
on the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball  
on the bare possibility  
on the barricades  
on the bash  
on the beach  
on the beam  
on the beam’s ends  
on the beam-ends  
on the beat  
on the beaten track  
on the bench  
on the berth  
on the bias  
on the blink  
on the block  
on the boards  
on the books  
on the borderline  
on the bounce  
on the brain  
on the brink  
on the brink of  
on the bum  
on the button  
on the calendar  
on the cards  
on the carpet  
on the chance  
on the cheap  
on the coattails of  
on the confines of  
on the contrary  
on the course  
on the crest  
on the crest of the wave  
on the critical list  
on the cuff  
on the decline  
on the defensive  
on the descendant  
on the docket  
on the dole  
on the dot  
on the double  
on the double-quick  
on the downgrade  
on the downward track  
on the earth
on the edge
don the edge of
don the edge of tears
on the eve of
on the evidence
on the face of
on the face of it
on the face of the earth
on the face of the globe
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
on-stage
on-stream
on-the-job training
once again
once and again
once and for all
once and for always
once and no more
once for all
once in a blue moon
once in a coon's age
once in a thousand years
once in a while
once more
once or twice
once over lightly
once pinnate
once removed
once upon a time
once-accented
once-born
once-over
once-run
oncotes Martenot
one C
one accord
one after the other
one all over
one and all
one and indivisible
one and only
one and the same
one another
one at a time
one bone and one flesh
one by one
one can assume
one cheer more
one day
one dem'd horrid grind
one fifth
one fine day
one fine morning
one flesh
one for all
one for the book
one for the road
one fourth
one half
one hoss shay
one hundred thousand
one in a million
one in a thousand
one in a way
one in ten thousand
one leg
one man
one mind
one o'clock
one of the people
one of these days
one of us
one old cat
one or two
one small difficulty
one thing leads to another
one thing nor the other
one thing to another
one time
one touch of nature
one up
one up on
one voice
one vote
one's adieus
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's darnest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
one-foot
one-footed
one-fourth
one-grained
one-hand
one-handed
one-handedness
one-hearted
one-hoofed
one-horned
one-horse
one-horse town
one-humped
one-hundred-fifty
one-hundred-percenter
one-hundred-percentism
one-ideaed
one-inch
one-jointed
one-layered
one-leaf
one-leaved
one-legged
one-leggedness
one-letter
one-line
one-line octave
one-lung
one-lunged
one-lunger
one-man
one-man rule
one-many
one-minute
one-nerved
one-night
one-night stand
one-nighter
one-o'clock
one-off
one-one
one-party rule
one-party system
one-petaled
one-piece
one-piece suit
one-piecer
one-pipe
one-pipe furnace
one-point
one-point perspective
one-pope
one-pound
one-pounder
one-price
one-quarter
one-rail
one-reeler
one-ribbed
one-roomed
one-seater
one-seeded
one-sepaled
one-septate
one-shot
one-sided
one-sidedly
one-sidedness
one-spot
one-star general
one-step
one-step rocket
one-storied
one-story
one-striper
one-term
one-third
one-time
one-to-one
one-toed
one-track
one-track mind
one-two
one-two punch
one-up
one-upmanship
one-valued
one-way
one-way communication
one-way ticket
one-way trip
one-windowed
one-winged
one-word
one-year
oneiro-
one self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
oniro-
onion compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
ontological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
ooblastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora's box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open housing
open into
open juncture
open letter
open mandate
open market
open market operations
open mind
open one's mouth
open order
open policy
open position
open primary
open quarrel
open question
open road, the
open rupture
open secret
open sentence
open sequence
open sesame
open shop
open sight
open space
open sphere
open stock
open string
open syllable
open system
open the
open the door to
open the draft
open the eyes
open the eyes to
open the floodgates
open the light
open the lock
open the mind
open the possibility of
open the purse
open the sluices
open the throttle
open the way
open the way for
open throttle
open time
open to
open to all
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airiness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open-earned
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-heartedly
open-heartenedness
open-hearth
open-hearth furnace
open-hearth process
open-hearthed
open-housed
open-housedness
open-housing
open-joint
open-jointed
open-kettle
open-kneed
open-letter
open-letter proof
open-lined
open-market
open-minded
open-mindedly
open-mindedness
open-mouthed
open-mouthedly
open-mouthedness
open-newel
open-newel stair
open-pan
open-patterned
open-phase
open-phase relay
open-pit
open-pitted
open-plan
open-pollinated
open-reel
open-roofed
open-rounded
open-sand
open-sequence system
open-shelf
open-shelter-deck vessel
open-shelved
open-shop
open-sided
open-sidedly
open-sidedness
open-sleeved
open-spaced
open-spacedly
open-spacedness
open-spoken
open-spokenly
open-spokenness
open-tank
open-tide
open-timber
open-timber roof
opera singer
opera-going
opera-mad
operant conditioning
operas buffa
operas seria
operate at a loss
operate on
operatic overture
operatic singing
operating budget
operating company
operating cost
operating costs
operating expense
operating expenses
operating room
operating speed
operating table
operating theatre
operational gain
operational purpose
operational research
operations research
operations room
operative dentist
operative dentistry
operative surgeon
operative surgery
operator gene
operculi-
opere buffe
opere citato
opere serie
ophio-
ophthalm-
ophthalmia neonatorum
ophthalmo-
ophthalmo-reaction
opiate addiction
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
oppositi-
opposition party
opposition to change
opposition voice
oppression of spirit
opra bouffe
opra comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical instruments
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
opposite
ordinary capacitance
ordinary programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orchid tree
orchido-
orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
order blank
order in council
order of battle
order of being
order of business
order of magnitude
order of nature
order of succession
order of the day
order of worship
order paper
order port
order up
order-book
ordered around
ordered field
ordered pair
orderly bin
orderly book
orderly officer
orderly room
orderly sergeant
ordinal number
ordinary Joe
ordinary algebra
ordinary differential equation
ordinary jubilee
ordinary life insurance
ordinary man
ordinary people
ordinary point
ordinary ray
ordinary run
ordinary run of things
ordinary seaman
ordinary share
ordinary shares
ordinary stock
ordinary wave
ordinary, the
ordinary-language philosophy
ordinato-punctate
ordnance corps
ordnance datum
ordnance engineer
ordnance engineering
ordnance map
ordnance officer
ordnance rocket
ordnance sergeant
ore bed
ore body
ore bridge
ore car
ore charger
ore chute
ore digger
ore dressing
ore handler
ore hearth
ore mill
ore miner
ore process
ore rotundo
ore shoot
ore smelter
ore weigher
ore-bearing
ore-buying
ore-crushing
ore-extracting
ore-forming
ore-handling
ore-hoisting
ore-milling
ore-mining
ore-roasting
ore-smelting
ore-washing
ore-weed
oregon grape
orey-eyed
organ beater
organ blower
organ builder
organ building
organ cactus
organ coral
organ desk
organ erector
organ fish
organ gallery
organ grinder
organ gun
organ harmonium
organ loft
organ maker
organ manual
organ of Corti
organ of taste
organ of thought
organ of vision
organ pipe
organ player
organ point
organ screen
organ stop
organ swell
organ transplant
organ transplantation
organ whistle
organ-
organ-blowing
organ-grinder
organ-piano
organ-pipe
organ-pipe cactus
organ-pipe coral
organic being
organic chemical
organic chemist
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
ornamental glass
ornamental grass
ornamental motif
ornamental style
ornamental theme
ornaments rubric
ornith-
ornitho-
oro-
orographic cloud
orographic precipitation
orphan chamber
orphans' court
orphreyed miter
orpiment orange
orpiment red
orpiment yellow
orpine family
orra man
orris oil
orth-
ortho-
ortho-cousin
ortho-orsellinic
ortho-toluidine
ortho-xylene
orthoboric acid
orthochromatic film
orthoclase-basalt
orthoclase-gabbro
orthodox Christian
orthodox judaism
orthoformic acid
orthogonal matrix
orthogonal projection
orthogonal trajectory
orthographic projection
orthomorphic projection
orthopedic surgery
orthophosphoric acid
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
osteopathic hospital
ostreic- 
ostreisch fern
ostrich-egg
ostrich-feather
ostrich-feather grass
ostrich-plume
oswego tea
ot- 
otaheite apple
other continuums
other face
other fish to fry
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
otter brown
otter canoe
otter gear
otter hound
otter raft
otter sheep
otter shell
otter shrew
otter trawl
ouabe oil
oufs a la coque
oufs brouilles
oufs poches
oufs sur le plat
ought to
ouija board
ounce apothecaries'
ounce avoirdupois
ounce metal
ounce troy
our account of ourselves
our father
our times
ourang-outang
ourano-
ouster le main
ouster-le-main
out ahead
out and away
out at elbows
out at heels
out at the elbows
out at the heels
out board
out cold
out for
out for bear
out from under
out front
out guide
out in front
out in left field
out in the cold
out in the open
out in your reckoning
out loud
out of
out of a clear blue sky
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-of-course
out-of-date
out-of-dateness
out-of-door
out-of-doors
out-of-fashion
out-of-focus
out-of-hand
out-of-humor
out-of-joint
out-of-line
out-of-office
out-of-order
out-of-place
out-of-plumb
out-of-pocket
out-of-print
out-of-reach
out-of-school
out-of-season
out-of-stater
out-of-stock
out-of-the-common
out-of-the-way
out-of-the-world
out-of-town
out-of-towner
out-of-townish
out-of-tune
out-of-tunish
out-of-turn
out-of-vogue
out-office
out-parish
out-patient
out-pension
out-pointed
out-quarter
out-relief
out-room
out-sentry
out-settlement
out-soul
out-station
out-street
out-take
out-throw
out-thrust
out-top
out-travel
out-voter
out-wall
out-worker
out-a sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outside the gates
outside the pale
outside work
outsmart yourself
outstanding accounts
outstanding debt
outstanding feature
outstanding securities
outstretched hand
outstrip the wind
outward appearance
outward show
outward-bound
outward-bounder
outward-facing
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindraceous
ovate-cylindrical
ovate-elliptic
ovate-ellipsoidal
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrated
ovate-subulate
ovate-triangular
ovato-
oven builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
over-earnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
over-the-counter market
over-the-counter securities
over-train
over-trouble
over-trust
over-under
over-value
over-weight
over-wet
over-wise
over-zeal
overall length
overbearing pride
overcast stitch
overcome your resistance
overcome yourself
overcorrection of error
overcurrent relay
overdo it
overdose of
overdraft kiln
overdraw your account
overdrawn account
overextend yourself
overflow bug
overflow pipe
overflow with
overflow with energy
overflow with gratitude
overflowing eyes
overhand knot
overhead camshaft
overhead door
overhead lighting
overhead price
overhead railway
overhead-valve engine
overheated economy
overland stage
overlap fault
calibration fault
overlap radar
overlap glass
overload breaker
overload circuit
overload circuit breaker
overload relay
overload starter
overload switch
overlook distinctions
overlook no possibility
overlook nothing
overlooking no possibility
overly permissive
overmonopoly
overnight bag
overnight sensation
overnight telegram
overopenness to conviction
overopenness to persuasion
overplay your hand
overreach yourself
overreact to
overseas bar
overseas cap
overseas operations
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
overstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
oxidation number
oxidation potential
oxidation state
oxidation-reduction
oxide blue
oxide brown
oxide purple
oxide red
oxide yellow
oxidizing agent
oxidizing flame
oxime group
oxo process
oxo reaction
oxo-oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-oxy-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxy calcium light
oxychlor-oxydiacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyer agaric
oyer bank
oyer bar
oyer bay
oyer bed
oyer canoe
oyer catcher
oyer crab
oyer cracker
oyer culture
oyer dredge
oyer drill
oyer farmer
oyer fork
oyer fungus
oyer grass
oyer gray
oyer knife
oyer mine
oyer mushroom
oyer park
oyer pink
oyer plant
oyer plover
oyer rake
oyer rock
oyer scale
oyer schooner
oyer scow
oyer shell
oyer sloop
oyer stew
oyer tongs
oyer tree
oyer white
oyer-catcher
oyer-culturist
oyer-shaped
oyer-shell bark louse
oyer-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz t
ozaena-
pack the deal
pack train
pack twine
pack up
pack wall
pack-bearing
pack-horse
pack-laden
pack-needle
pack-saddle
package advertising
package bargaining
package conveyer
package deal
package price
package store
package tour
packaged goods
packaged house
packaged tour
packed caucus
packed cell volume
packed deal
packed jury
packed like herrings
packed like sardines
packed out
packed-up
packet boat
packet day
packet folio
packet ship
packet-boat
packing box
packing case
packing fraction
packing house
packing nut
packing plant
packing ring
pad crimp
pad eye
pad foot
pad groom
pad hook
pad horse
pad saddle
pad saw
pad stone
padded cell
paddle beam
paddle board
paddle boat
paddle box
paddle hole
paddle plate
paddle shaft
paddle staff
paddle steamer
paddle tennis
paddle tumbler
paddle wheel
paddle wing
paddle your own canoe
paddle-shaped
paddle-wheel
paddock pipe
paddy blast
paddy field
paddy lucern
paddy wagon
paddy-bird
paddywhack almanac
padge owl
padlock injunction
padlock law
padouk wood
padparadschah sapphire
paean of cheers
paed-
paedo-
pagan deity
pagan divinity
pagan priest
pagano-Christian
pagano-Christianism
page boy
page chair
page cord
page gauge
page numbering
page proof
page rest
page through
page-boy
pagoda sleeve
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
palace car
palace court
palace guard
palace revolution
palaeco-
palais de danse
palais glide
palas kino
palate bone
palatial residence
palatine tonsil
palato-
pale as a corpse
pale as a forpined ghost
pale as a ghost
pale as death
pale as his shirt
pale bark
pale blue chip
pale brandy
pale broomrape
pale catechu
pale color
pale corydalis
pale elder
pale horse
pale laurel
pale rider
pale-
pale-blooded
pale-blue
pale-bright
pale-cheeked
pale-colored
pale-complexioned
pale-dried
pale-eared
pale-eyed
pale-face
pale-faced
pale-gray
pale-green
pale-hued
pale-leaved
pale-livered
pale-looking
pale-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-stripped
pale-tinted
pale-visaged
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
palmer trout
palmer worm
palmer-worm
palmetto barrens
palmetto flag
palmetto green
palmetto scrub
palmi-
palmitic acid
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludi-
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
pan out
pan shot
pan supari
pan-
pan-Latin
pan-Saxon
pan-american
pan-americanism
pan-anglican
pan-broil
pan-broiled
pan-broiling
pan-fired
pan-fried
pan-fry
pan-frying
pan-headed
pan-leaf
pan-loaf
pan-pipe
pan-sexualism
pan-shaped
pancake bell
pancake engine
pancake ice
pancake landing
pancake plant
panchen lama
panchromatic film
pancreas ptyalin
pancreat-
pancreatic digestion
pancreatic duct
pancreatic fibrosis
pancreatic juice
pancuronium bromide
panda car
pandemic disease
pander to
pandora shell
panel beater
panel bed
panel board
panel body
panel den
panel discussion
panel heating
panel house
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
pantechnicon van
panther cat
panther cowrie
panther lily
panther piss
pantie girdle
pantile lath
pantile roof
panting stringer
panto-
pantograph snaffle
pantograph trolley
pantomime dame
pantothenic acid
pants suit
panty girdle
panty hose
panty-hose
panzer division
panzer warfare
papa rock
papal brief
papal cross
papal infallibility
papanicolaou test
papaw family
paper bale
paper birch
paper blockade
paper book
paper boy
paper bush
paper carrier
paper chase
paper chaser
paper chromatography
paper clip
paper cloth
paper coal
paper colorer
paper credit
paper cutter
paper doll
paper dolls
paper flower
paper foot
paper grass
paper hanger
paper hanging
paper holder
paper hornet
paper house
paper hunt
paper jogger
paper joint
paper knife
paper lapper
paper machine
paper mill
paper money
paper mulberry
paper muslin
paper nautilus
paper nautlius
paper office
paper on the wall
paper over
paper plant
paper profit
paper profits
paper pulp
paper pulper
paper rack
paper rate
paper sculpture
paper seller
paper shale
paper sorter
paper stainer
paper standard
paper surplus
paper tape
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitams
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parasite drag
parasite resistance
parasitic drag
parasitic plant
parasitic suppressor
parasitic vowel
parasol ant
parasol fern
parasol mushroom
parasol pine
parasol skirt
parasol wing
parasol-shaped
parasympathetic nervous system
parathyroid extract
parathyroid gland
parathyroid hormone
parathyroid tetany
paratoid gland
paratroop tactics
paratrooper boots
paratyphoid bacillus
paratyphoid fever
parce que
parcel carrier
parcel checker
parcel delivery
parcel gilding
parcel of land
parcel out
parcel paper
parcel post
parcel-blind
parcel-carrying
parcel-deaf
parcel-divine
parcel-drunk
parcel-gilder
parcel-gilding
pari-mutuel machine
pariah dog
pariah kite
parian ware
parietal bone
parietal cell
parietal eye
parietal lobe
parieto-
parieto-occipital
parimutuel machine
paring chisel
paring down
paring gouge
paring knife
paris green
parish church
parish clerk
parish council
parish house
parish meeting
parish priest
parish records
parish register
parish rolls
parish school
parish top
parish-pump
parish-rigged
parity bit
parity check
park flower
park forest
park green
park in space
park of artillery
park savanna
parkin baker
parking brake
parking disc
parking light
parking lot
parking meter
parking orbit
parking ramp
parking ticket
parkinson's disease
parl proc
parlatoria scale
parliament cake
parliament heel
parliament hinge
parliament house
parliament man
parliamentary agent
parliamentary government
parliamentary law
parliamentary private secretary
parliamentary secretary
parliamentary train
parlor Bolshevik
parlor boarder
parlor car
parlor grand
parlor house
parlor pink
parlour car
parlour game
parlous straits
parochial church council
parochial council
parochial school
parol arrest
parol contract
parole femne
parole law
paroquet auklet
paroquet bur
parotid duct
parotid gland
paroxysmal tachycardia
parquet circle
parquet floor
parrel truck
parrot bullfinch
parrot cry
parrot disease
parrot fever
parrot fish
parrot green
parrot mouth
parrot's-bill
parrot's-feather
parrot-beak
parrot-beaked
parrot-billed
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
partial differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
particeps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
parts of
parts of ships
party boss
party chairman
party chieftain
party circle
party doctrine
party dress
party emblem
party faithful
party girl
party hack
party in power
party leader
party line
party liner
party machine
party man
party member
party per fess
party per tierce
party philosophy
party platform
party politics
party pooper
party principle
party spirit
party to a suit
party wall
party wheelhorse
party whip
party wire
party-colored
party-column ballot
party-giving
party-making
party-man
party-political
party-spirited
party-wall
party-walled
party-zealous
parula blue
parula warbler
parvi-
pas d'action
pas de basque
pas de chat
pas de cheval
pas de deux
pas de trois
pas du tout
pas seul
pasch egg
pasch-egg
paschal candle
paschal controversy
paschal flower
paschal lamb
paschal letter
paso doble
pasque-flower
pass all bounds
pass along
pass an opinion
pass and repass
pass around
pass as
pass away
pass band
pass belief
pass boat
pass box
pass by
pass by in silence
pass check
pass comprehension
pass counterfeit money
pass course
pass current
pass degree
pass door
pass for
pass from mouth to mouth
pass holder
pass in review
pass in the dark
pass in the mind
pass in the thoughts
pass in your checks
pass in your chips
pass into
pass into your hands
pass judgment
pass key
pass law
pass master
pass muster
pass off
pass off on
pass on
pass out
pass out cold
pass out of sight
pass out of the picture
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passed over
passed up
passed-master
passenger agent
passenger capacity
passenger car
passenger density
passenger falcon
passenger list
passenger locomotive
passenger manager
passenger mile
passenger mileage
passenger pigeon
passenger plane
passenger steamer
passenger train
passenger-mile
passenger-pigeon
passer-by
passerine bird
passers-by
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion-blazing
passion-breathing
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passy-measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
past hope
past master
past mistress
past one's head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d’amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
pat-
patres conscripti
patri-
patria potestas
patriarchal basilica
patriarchal cross
patriarchate of Alexandria
patriarchate of Antioch
patriarchate of Constantinople
patriarchate of Jerusalem
patriots' day
patristic philosophy
patristic theology
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patten maker
patter song
pattern after
pattern bargaining
pattern bombing
pattern box
pattern card
pattern designer
pattern maker
pattern of perfection
pattern reader
pattern wheel

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pattern-bomb
pattes de mouche
patty shell
patty-cake
patty-shell
pauci-
paucis verbis
paul bunyan
paulo-post-future
paunch mat
pauper costs
pauper-born
pauper-bred
pauper-breeding
pauper-fed
pauper-feeding
pauper-making
pause for station identification
pauvre diable
pave the way
pave the way to
paved road
pavement ant
pavement artist
pavement epithelium
pavement light
paver of the way
pavilion hospital
pavilion roof
paving brick
paving material
paving roller
paving stone
paving tile
pavor nocturnus
paw print
paw-paw
paw-pawnness
pawed-over
pawl bitt
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
payno regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measles
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference
peace dove
peace establishment
peace feelers
peace giver
peace guild
peace lover
peace of God
peace of heart
peace of mind
peace of soul
peace of spirit
peace offensive
peace offer
peace offering
peace officer
peace pipe
peace warrant
peace-abiding
peace-blessed
peace-breathing
peace-bringing
peace-enamored
peace-giving
peace-inspiring
peace-keeping force
peace-loving
peace-lulled
peace-offering
peace-preaching
peace-procuring
peace-restoring
peace-trained
peaceful change
peaceful coexistence
peaceful death
peaceful end
peaceful protest
peaceful sleep
peach aphid
peach bacteriosis
peach bark beetle
peach bell
peach blight
peach blister
peach bloom
peach blossom
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachblow glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
peak out
peaked cap
peaking circuit
peaky-faced
peal of applause
peal of laughter
peal of thunder
peal ringing
peanut bar
peanut brittle
peanut butter
peanut butter and jelly sandwich
peanut flour
peanut gallery
peanut oil
peanut politician
peanut politics
peanut tube
peanut worm
pear blight
pear blight beetle
pear borer
pear brandy
pear gauge
pear haw
pear midge
pear scale
pear shell
pear slug
pear squash
pear thorn
pear thrips
pear-leaved
pear-shaped
pearl ash
pearl barley
pearl blue
pearl bluish
pearl blush
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
peccant humor
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
pecky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler's cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevish person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pel- 
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
penbrooke table
pen and ink
pen cancellation
pen driver
pen driving
pen feather
pen friend
pen in
pen keeping
pen machine
pen maker
pen mating
pen name
pen nib
pen pal
pen palsy
pen picture
pen point
pen portrait
pen portraiture
pen pot
pen pusher
pen pushing
pen sketch
pen up
pen yan
pen-
pen-and-ink
pen-bearing
pen-cancel
pen-clerk
pen-driver
pen-feather
pen-feathered
pen-fish
pen-pusher
pen-shaped
pen-tailed
pen-written
penal code
penal colony
penal institution
penal interest
penal law
penal retribution
penal servitude
penal settlement
penalty area
penalty bench
penalty box
penalty clause
penalty double
penalty envelope
penalty goal
penalty kick
penalty killer
penalty rates
penalty stroke
penang lawyer
penang nut
penang-lawyer
pencil beam
pencil blue
pencil box
pencil case
pencil cedar
pencil compass
pencil diamond
pencil drawing
pencil driver
pencil driving
pencil flower
pencil gate
pencil gating
pencil holder
pencil maker
pencil pusher
pencil pushing
pencil rod
pencil sharpener
pencil sharpening
pencil stone
pencil-beam antenna
pencil-case
pencil-formed
pencil-mark
pencil-shaped
pendant bow
pendant cloud
pendant post
pendant switch
pendant tackle
pendant-shaped
pendant-winding
pendent post
pendente lite
pendulum bob
pendulum clock
pendulum level
pendulum motion
pendulum press
pendulum pump
pendulum watch
pendulum wheel
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennati-
penner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pincher
penny-pinching
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
per head
per mensem
per mil
per mill
per pais
per pale
per pro
per procuration
per procurationem
per saltire
per saltum
per se
per second per second
per simpliciter
per stirpes
per-
perboric acid
perceived noise decibel
percentage composition
percentage error
percentage tare
perception deafness
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchromic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perfector press
perfide Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
pericline twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
periodic table
periodic wave
periodical cicada
periodical index
periodicity factor
periodontal membrane
periodontal tissue
periost-
periosteo-edema
peripatetic exercise
peripatetic journey
peripheral device
peripheral field
peripheral nervous system
peripheral neuritis
peripheral speed
peripheral vision
periscopic lens
perish the thought
perish with cold
perishing with hunger
periton-
periwig chair
periwinkle blue
perjure yourself
perjury-proof
perk up
perle cotton
permafrost table
permanent magnet
permanent magnet speaker
permanent magnetism
permanent press
permanent tooth
permanent wave
permanent way
permanent white
permanent yellow
permanent-press fabric
permanganic acid
permeate by nature
permission to enter
permissions editor
permit all
permit anything
permit bond
permonosulfuric acid
permutation lock
pernicious anaemia
pernicious anemia
pernicious weed
pernyi silkworm
peroxide blond
peroxide-blond
peroxy group
peroxy radical
peroxy-
peroxymonosulfuric acid
peroxysulfuric acid
peroxysulphuric acid
perpend stone
perpend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistance of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
personality conflict
personality disintegration
personality disorder
personality disorganization
personality inventory
personality tendency
personality test
personality type
p Petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew renter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshiper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmaco-
pharmaco-oryctology
pharyng-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant's-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumed
pheasant-shell
pheasant-tailed
phello-
phen-
phenacyl chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-phthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminopropionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray
phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in
phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol
phono-
phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphor-
phosphorous acid
phosphorous anhy-
dride
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulfide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
photo finish
photo base
photo finish
photo layout
photo relief
photo spread
photo-
photo-electric
photo-engraving
photo-finish
photo-galvanography
photo-mount
photo-offset
photo-reconnaissance
photo-reconnaissance plane
photo-retouch
photo-set
photo-setting
photochemical process
photoconductor cell
photoelectric cathode
photoelectric cell
photoelectric cell meter
photoelectric cells
photoelectric colorimeter
photoelectric counter
photoelectric current
photoelectric detector
photoelectric device
photoelectric effect
photoelectric emission
photoelectric image converter
photoelectric inspection machine
photoelectric intrusion detector
photoelectric meter
photoelectric multiplier tube
photoelectric photometer
photoelectric pickup
photoelectric pinhole detector
photoelectric recorder
photoelectric sorter
photoelectric threshold
photoelectric timer
photoelectric tube
photoelectric tubes and cells
photoflash bulb
photoflash lamp
photoflash photography
photoflash synchronizer
photoflood lamp
photogelatin process
photograph album
photographer's model
photographic equipment
photographic magnitude
photographic memory
photographic paper
photographic realism
photographic reproduction
photographic telescope
photomicrographic camera
photomultiplier tube
photosensitive device
photosensitive devices
photosensitive glass
photostatic copy
phototypesetting machine
photovoltaic cell
photovoltaic effect
phrasal idiom
phrasal verb
phrase book
phrase mark
phrase marker
phrase structure
phrase-structure grammar
phrase-structure rule
phren-
phreno-
phthalic acid
phthalic anhydride
phthalocyanine blue
phthalocyanine green
phyco-
phyll-
phyll-
phylo-
physi-
physic nut
physic-nut
physical anthropology
physical body
physical charm
physical checkup
physical chemistry
physical condition
physical culture
physical culturist
physical dependence
physical diagnosis
physical double star
physical education
physical examination
physical fitness
physical force
physical geography
physical geology
physical jerks
physical love
physical map
physical medicine
physical metallurgy
physical meteorology
physical optics
physical pendulum
physical pleasure
physical presence
physical science
physical sensibility
physical suffering
physical therapist
physical therapy
physical unfeeling
physical world
physician in ordinary
physico-
physico-theology
physio-
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt soluti
physiological salt solution
physiologically addictive
physo-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pia-arachnoid
pia-matral
piacicular offering
piano accordion
piano action
piano deal
piano duet
piano keys
piano lamp
piano nobile
piano organ
piano player
piano player roll
piano quartet
piano quintet
piano roll
piano score
piano stool
piano subito
piano trio
piano wire
piano-organ
piano-player roll
piano-violin
pica em
picaresque novel
picayune critic
piccolopasso red
pick a bone with
pick a hole
pick a quarrel
pick and choose
pick apart
pick at
pick clean
pick clock
pick dressing
pick eye
pick glass
pick hammer
pick holes
pick nits
pick off
pick on
pick out
pick over
pick rake
pick the bones of
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the check
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
pickaback plane
pickax team
picke-devant
picked dogfish
picked on
picked up
picked-hatch
picker-up
pickerel frog
pickerel-weed
picket fence
picket fort
picket guard
picket line
picket patrol plane
picket pin
picket ship
picket tail
picking and choosing
picking out
picking up
picking up the check
picking up the tab
pickle grass
pickle green
pickle moth
pickle-cured
pickle-herring
pickup arm
pickup camera
pickup current
pickup service
pickup tube
pickup unit man
picnic basket
picnic ham
picnic races
picnic shoulder
pico-
picot edge
picot stitch
pier-
pieric acid
picric acid
micro-
pictographic character
pictographic symbol
picture book
picture bride
picture card
picture cards
picture carrier
picture channel
picture control
picture detector
picture frame
pie board
pie chart
pie dish
pie eater
pie filler
pie filling
pie in the sky
pie knife
pie maker
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
piecrust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochon
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
pierre-perdu
pierrot show
piezo oscillator
piezo resonator
piezo-
piezoelectric crystal
piezoelectric effect
piezoelectric microphone
piff-paff
pig Latin
pig bed
pig boiling
pig breaker
pig cart
pig dealer
pig deer
pig hutch
pig in a poke
pig in clover
pig iron
pig lead
pig man
pig metal
pig tub
pig typhoid
pig wife
pig yoke
pig's ear
pig's wash
pig-back
pig-backed
pig-bed
pig-bellied
pig-breeding
pig-bribed
pig-chested
pig-dealing
pig-driving
pig-eating
pig-eyed
pig-faced
pig-farming
pig-fat
pig-footed
pig-haired
pig-haunted
pig-headed
pig-iron
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pikaba hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pike-gray
pike-snouted
piked dogfish
pil-
pilaster mass
pilaster strip
pile Pelion on Ossa
pile bent
pile bridge
pile builder
pile building
pile cap
pile drawer
pile drive
pile driver
pile dweller
pile dwelling
pile fender
pile hammer
pile house
pile in
pile it on
pile on
pile out
pile shoe
pile up
pile weave
pile weaving
pile wire
pile-built
pile-driven
pile-driver
pile-driving
pile-woven
pileated woodpecker
pilferage hazard
pilgrim bottle
pilgrim brown
pilgrim ring
pilgrim scallop
pilgrim's bottle
pilgrim's staff
pilgrimage psalm
pili nut
piling strip
pill bug
pill pipe
pill slab
pill tile
pill wood louse
pill, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pilot waters
pilot whale
pilot wheel
pilot-bird
pilot-boat
pilot-fish
pilotless aircraft
pilsner glass
piltdown man
pima cotton
pimento cheese
pimento grass
pimiento cheese
pimpernel root
pimple copper
pimple metal
pin a medal on
pin basket
pin bit
pin block
pin borer
pin boy
pin bridge
pin buttoc
pin cherry
pin clover
pin curl
pin down
pin fallow
pin gear
pin grass
pin horse
pin in
pin knot
pin mark
pin mill
pin money
pin oak
pin on
pin pallet
pin pallet escapement
pin point
pin pool
pin prod
pin rack
pin rail
pin rod
pin seal
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pin your hope upon
pin yourself upon
pin-brained
pin-buttocked
pin-curl
pin-eyed
pin-feather
pin-fire
pin-head
pin-hole
pin-lever escapement
pin-money
pin-pallet escapement
pin-prick
pin-spotted
pin-striped
pin-tailed
pin-tailed sand grouse
pin-toed
pin-up
pin-wheel
pin-wing
pina cloth
pinacate bug
pinacone-pinacolin
pinafore dress
pinball machine
pinbone steak
pinc-pinc
pince-nez
pincer movement
pincer-shaped
pincers movement
pincers-shaped
pinch bar
pinch effect
pinch hit
pinch hitter
pinch of snuff
pinch out
pinch pennies
pinch phenomenon
pinch point
pinch runner
pinch running
pinch-
pinch-faced
pinch-hit
pinch-hit for
pinch-hitting
pinch-run
pinch-spotted
pinched with hunger
pinched-in
pinchgut money
pincushion distortion
pincushion-flower
pindo palm
pindova palm
pine away
pine bark
pine bark aphid
pine barren
pine barrens
pine borer
pine bullfinch
pine cone
pine end
pine finch
pine for
pine grass
pine grosbeak
pine marten
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pine-bearing
pine-bordered
pine-built
pine-capped
pine-clad
pine-cone fish
pine-covered
pine-crested
pine-crowned
pine-dotted
pine-encircled
pine-fringed
pine-leaf scale
pine-needle oil
pine-sequestered
pine-shaded
pine-shipping
pine-tar oil
pine-tip moth
pine-tree
pine-tree flag
pine-wood
pineal apparatus
pineal body
pineal eye
pineal gland
pineapple cactus
pineapple disease
pineapple fiber
pineapple fungus
pineapple juice
pineapple oil
pineapple weed
piney dammar
piney tallow
piney woods
pinfall Wrestling
ping pong
ping-pong
pinhole camera
pinhole decay
pinhole pupil
pinion focusing microscope
pink bollworm
pink calla lily
pink champagne
pink coat
pink colors and pigments
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-sterne
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pinnate-leaved
pinnate-ribbed
pinnate-veined
pinnati-
pinnatifid-lobed
pinned down
pinni-
pinning down
pinchle rummy
pinon grass
pinon pine
pinpoint bombing
pinpoint precision
pins and needles
pint pot
pint-pot
pint-size
pint-sized
pintado petrel
pintle boss
pintle chain
pintle hook
pinto bean
pintsch gas
pinup girl
pinwheel roll
pinxter flower
pinxter flower
pioneer day
pioneer tunnel
pious fiction
pious fraud
pip card
pip emma
pip, the
pip-pip
pip-squeak
pipe amygdules
pipe batten
pipe beetle
pipe berth
pipe binder
pipe bomb
pipe box
pipe clay
pipe cleaner
pipe coupling
pipe cutter
pipe die
pipe down
pipe dream
pipe dreamer
pipe dreaming
pipe fitter
pipe fitting
pipe founder
pipe isinglass
pipe line
pipe major
pipe maker
pipe metal
pipe of peace
pipe off
pipe organ
pipe rack
pipe roll
pipe stop
pipe thimble
pipe thread
pipe threader
pipe tongs
pipe tool
pipe up
pipe up a song
pipe vine
pipe welder
pipe wrench
pipe your eye
pipe-bending
pipe-boring
pipe-caulking
pipe-clay
pipe-clayey
pipe-clayish
pipe-cleaning
pipe-cutting
pipe-drawn
pipe-dream
pipe-dreaming
pipe-drilling
pipe-fish
pipe-joint cement
pipe-layer
pipe-line
pipe-necked
pipe-playing
pipe-puffed
pipe-roll
pipe-shaped
pipe-smoker
pipe-stone
pipe-tapping
pipe-thawing
pipe-threading
piperonyl alcohol
piperonyl aldehyde
piperonyl butoxide
pipes of Pan
piping cord
piping hot
piping time of peace
piping times
pippin file
pippin-faced
pippin-hearted
piptostegia root
pique your interest
pique yourself
pirate bird
pirate perch
pirate stream
pis aller
pisang wax
pisci-
pish-pash
pismo clam
piss about
piss and vinegar
piss artist
piss away
piss off
piss pot
piss you off
pissed off
pissed-off
pissy-eyed
pistachia galls
pistachio green
pistachio nut
pistacia gall
pistol carbine
pistol fire
pistol grip
pistol plant
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pitch-blackened
pitch-blackness
pitch-blende
pitch-brand
pitch-brown
pitch-colored
pitch-dark
pitch-darkness
pitch-diameter
pitch-faced
pitch-farthing
pitch-lined
pitch-marked
pitch-ore
pitch-pine
pitch-pipe
pitch-stained
pitched battle
pitched roof
pitcher house
pitcher mold
pitcher molding
pitcher plant
pitcher-plant
pitcher-shaped
pitchfork grass
pitching indicator
pitching niblick
pitching piece
pitching tool
pitchy darkness
pith ball
pith hat
pith helmet
pith knot
pithy saying
pitot tube
pitot-static tube
pits, the
pitter-patter
pituitary body
pituitary extract
pituitary gland
pity-bound
pity-moved
pity-worthy
pivitol point
pivot about
pivot bearing
pivot blow
pivot bridge
pivot joint
pivot man
pivot on
pivot pier
pivot span
pivot stand
pivot tooth
pix-jury
pixy ring
pixy stool
pixy-led
pizza pie
place a value on
place after
place against
place an order
place at your disposal
place before
place bill
place brick
place card
place confidence in
place emphasis on
place hitter
place holder
place hunter
place in
place in difficulty
place in office
place in the foreground
plain as a pikestaff
plain as day
plain as the nose on your face
plain bearing
plain chant
plain chocolate
plain clothes
plain dealer
plain dealing
plain folks
plain knit
plain lap
plain living
plain people
plain rail
plain sail
plain sailing
plain sense
plain sewing
plain song
plain speaking
plain speech
plain style
plain stylist
plain suit
plain text
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
plain-garbed
plain-headed
plain-hearted
plain-laid
plain-looking
plain-mannered
plain-pranked
plain-soled
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planetary nebula hypothesis
plan-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-sheer
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plasma thromboplastic component
plasma torch
plasma transfusion
plasma-jet propulsion
plasmo-
plaster baker
plaster bond
plaster burner
plaster cast
plaster casting
plaster chopper
plaster down
plaster jacket
plaster of Paris
plaster of paris
plaster spreader
plastering trowel
plastic art
plastic bandage
plastic binding
plastic bomb
plastic explosive
plastic flow
plastic glass
plastic operation
plastic paint
plastic person
plastic plate
plastic plywood
plastic surgeon
plastic surgery
plastic tape
plastic wrap
plat du jour
plat-eye
plat-footed
plate armor
plate armour
plate battery
plate beam
plate bender
plate bone
plate calender
plate circuit
plate clutch
plate column
plate conductance
plate coupling
plate culture
plate current
plate cutter
plate cylinder
plate driller
plate engraving
plate fulcrum scale
plate gear
plate girder
plate glass
plate glazing
plate heater
plate horse
plate jig
plate keel
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
plate-glass
plate-glazed
plate-incased
plate-layer
plate-mark
plate-mounting
plate-punching
plate-roll
plate-rolling
plate-scarfing
plate-shaped
plate-shearing
plate-tossing
plated stem
platen press
plates of meat
platform balance
platform car
platform deck
platform elevator
platform frame
platform harvester
platform orator
platform oratory
platform rocker
platform scale
platform speaker
platform speaking
platform spring
platform ticket
platform wagon
platin-
platina yellow
platinic chloride
platino-
platinocyanic acid
platinoso-
platinum ammine
platinum black
platinum blond
platinum blonde
platinum lamp
platinum metal
platinum paper
platinum process
platinum sponge
platinum thermometer
platinum-blond
platitudinous ponderosity
platonic love
platoon fire
platoon school
platoon sergeant
platoon system
plats du jour
platted stem
platter-faced
platy-
play God
play Russian roulette
play a bunco game
play a deep game
play a desperate game
play a double game
play a double role
play a joke on
play a lone hand
play a part
play a part in
play a practical joke
play a practical joke upon
play a role
play a role in
play a scene
play a trick on
play a waiting game
play acting
play actor
play actorism
play actress
play against
play agent
play along
play around
play around with
play at
play at cross-purposes
play at dice
play at fast and loose with
play at hide and seek
play back
play backer
play ball
play bopeep
play by ear
play by the rules
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play-pretty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
plot lines
plot of ground
plot of land
plot out
plot survey
plottage increment
plottage value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plum-shaped
plum-sized
plum-tinted
plum-tree
plumb bob
plumb bond
plumb joint
plumb level
plumb line
plumb rule
plumb the depths
plumb-
plumb-bob
plumb-line
plumb-rule
plumbago blue
plumbago gray
plumbago slate
plumber block
plumber's snake
plumber-block
plumbo-
plumbous oxide
plume feather
plume grass
plume moss
plume moth
plume nutmeg
plume of smoke
plume polypody
plume poppy
plume stick
plume yourself on
plume-crowned
plume-decked
plume-dressed
plume-embroidered
plume-fronted
plume-gay
plume-like
plume-plucked
plume-plucking
plume-soft
plume-stripped
plumed tussock grass
plummer block
plummer-block
plummeter line
plump as a dumpling
plump as a partridge
plump down
plump fact
plump for
plump in the middle
plump upon
plummy coconut
plunge bath
plunge battery
plunge headlong
plunge in
plunge in water
plunge into
plunge into debt
plunge into difficulties
plunge into dissipation
plunge rod
plunge the world into war
plunge you into despair
plunge you into sorrow
plunged in debt
plunged in grief
plunger bucket
plunger elevator
plunger magnet
plunger piston
plunger pump
plunging fire
plunging neckline
plunk down
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la même chose
plus ça change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumatico-hydraulic
pneumato-
pneumato-hydatogenetic
pneumo-
pneumococcal pneumonia
pneumogastric nerve
pneumonic fever
pneumonic plague
pneumono-
poached eggs
poacher tub
poalike fescue grass
pock lymph
pock nook
pock scab
pock-arred
pock-frecken
pock-fretten
pock-marked
pock-pit
pocket battleship
pocket billiards
pocket bird
pocket bladder
pocket book
pocket boom
pocket borough
pocket burner
pocket chisel
pocket chronometer
pocket edition
pocket fiddle
pocket flap
pocket flask
pocket gopher
pocket lighter
pocket money
pocket mouse
pocket notebook
pocket picking
pocket piece
pocket plum
pocket print
pocket radio
pocket rat
pocket sheriff
pocket the affront
pocket trumpet
pocket veto
pocket watch
pocket-book
pocket-eyed
pocket-handkerchief
pocket-knife
pocket-money
pocket-size
pocket-sized
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
poetico-mystical
poetico-mythological
poetico-philosophic
poetry Muses
poetry image
poetry-proof
poets laureate
pogo stick
pogo-stick
poikilo-
point a moral
point alphabet
point at
point at issue
point bar
point blanket
point boat
point champain
point charge
point chisel
point co-ordinate
point count
point d'Angleterre
point d'appui
point d'esprit
point de Hongrie
point de gaze
point defect
point draftsman
point duchesse
point duty
point fuse
point group
point handle
point hole
point in question
point indirectly to
point lace
point of a pin
point of articulation
point of convergence
point of departure
point of difference
point of etiquette
point of flight
point of honor
point of honour
point of inflection
point of interest
point of land
point of no return
point of order
point of repose
point of sailing
point of the chin
point of time
point of vantage
point of view
point off
point out
point out to
point paper
point rail
point salient
point set
point source
point space
point switch
point system
point tense
point the finger at
point the finger of scorn
point the way
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
polar axis
polar bear
polar body
polar circle
polar coordinate
polar coordinates
polar data
polar distance
polar easterlies
polar equation
polar fox
polar front
polar lights
polar opposites
polar opposition
polar ray
polar seal
polar sequence
polar star
polar valence
polari-
polarity cap
polarity of opinion
polarized-relay armature
polarizing angle
polarizing filter
polarizing microscope
pole bean
pole chain
pole changer
pole compass
pole effect
pole flounder
pole hammer
pole horse
pole jump
pole jumper
pole lathe
pole mast
pole of cold
pole piece
pole pitch
pole plate
pole screen
pole star
pole strap
pole topgallant mast
pole trawl
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
police power
police reporter
police sergeant
police state
police station
police up
police van
police wagon
police whistle
police-up
policeman bird
policeman's helmet
policemanice station
policy loan
policy maker
policy racket
policy science
policy shop
policy year
policy-holder
polio vaccine
polish off
polish the apple
polish the platter
polish up
polished rice
polissoir wheel
polite act
polite behavior
polite commendation
polite deportment
polite literature
polite society
political activism
political activist
political affairs
political animal
political arithmetic
political ballot
political behavior
political belief
political campaign
political canard
political candidate
political caucus
political commissar
political conservatism
political convention
political corruption
political dabbler
political doubletalk
political economist
political economy
political election
political faith
political front
political geography
political government
political hack
political henchman
political hopeful
political influence
political intrigue
political intriguer
political jargon
political leader
political leadership
political liberty
political machine
political map
political movement
political nomination
political organization
political party
political patronage
political philosophy
political platform
political police
political policy
political principle
political principles
political prisoner
political program
political question
political realist
political referendum
political science
political scientist
political theory
political worker
political-minded
politician-proof
politico-
politico-arithmetical
politicocommercial
politicodiplomatic
politicoecclesiastical
politicoeconomical
politicooethical
politicogeographical
politic judicial
politicomilitary
politicomoral
politic orthodox
polí-tico-peripatetic
polí-tico-religious
polí-tico-sacerdotal
polí-tico-scientific
polí-tico-social
polí-tico-theological
politics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
poll degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
poll-parroty
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
pollice verso
pollin-
polling booth
polling place
polling station
polly mountain
polly-fox
polly-parrot
polo ball
polo cart
polo coat
polo ground
polo neck
polo pony
polo shirt
polt-foot
poly-
poly-mountain
polyarthritis rheumatism
polychrest salt
polyconic projection
polyethylene glycol
polyglot dictionary
polygonal number
polyhedral angle
polyhedron formula
polymeric amide
polymorpho-
polymorphonuclear leucocyte
polymorphous perversity
polymorphous-perverse
polyneuritic psychosis
polynomial ring
polyphase induction motor
polyphonic music
polyphonic prose
polyphosphoric acid
polypod brake
polypody family
polysulfdide rubber
polysyllabic profundity
polytechnic school
polyunsaturated fat
polyurethane rubber
polyvalent vaccine
polyvinyl acetal
polyvinyl acetate
polyvinyl alcohol
polyvinyl butyral
polyvinyl chloride
polyvinyl resin
polyvinyl-formaldehyde
polyvinylidene chloride
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommel bag
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
ponceau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-american
pond-cum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varioli
pons asinorum
pont l’evêque
pont-levis
pontes Varioli
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
pony engine
pony express
pony grass
pony shaft
pony trekking
pony truck
pony truss
pony up
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
don foul
don hero
don in
don into your head
don literature
don music
don off
don out

don safety valve
don the question
don up
don upon
don valve
don wine
don your cherry
don-
don-corn
don-gun
don-off
don-shop
don-up

doncorn balls
doncorn flower

don joan

don's eye

don's head

don's nose

don-holy

don eye catalufo

donpinjay green

donlar birch

donlar borer

donlar box

donlar hawk

donlar worm

donlar-covered

donlar-crowned

donlar-flanked

donlar-leaved

donlar-lined

donlar-planted

donliteal space

doncer cake

donpet head

donpet leg

donpet valve

donpet-head
popping crease
popping-crease
poppy anemone
poppy ash
poppy bee
poppy mallow
poppy oil
poppy seed
poppy-bordered
poppy-colored
poppy-crimson
poppy-crowned
poppy-flowered
poppy-haunted
poppy-head
poppy-pink
poppy-red
poppy-seed
poppy-sprinkled
poppyseed oil
pops concert
poptical art
poptical artist
popular air
popular belief
popular concert
popular etymology
popular front
popular hero
popular idol
popular literature
popular music
popular prices
popular psychology
popular regard
popular singer
popular song
popular sovereignty
popular taste
popular tune
popular vote
popular-priced
population explosion
population parameter
population pressure
population pyramid
porbeagle shark
porcelain clay
porcelain enamel
porcelain glass
porcelain green
porcelain maker
porcelain making
porcelain shell
porcelain tower
porch chair
porch climber
porch hammock
porch lamp
porch railing
porch rocker
porch screen
porch seat
porch settee
porch swing
porcupine anteater
porcupine balls
porcupine beater
porcupine boiler
porcupine crab
porcupine disease
porcupine fish
porcupine grass
porcupine man
porcupine rat
pore fungus
pore over
pork and beans
pork barrel
pork butcher
pork chop
pork eater
pork packer
pork pie
pork pig
pork store
pork tapeworm
pork-barrel legislation
pork-barrel politician
pork-barrel politics
pork-barreling
porkpie hat
porno film
pornographic art
pornographic film
pornographic literature
pornographic novel
porphyry chamber
porphyry copper
porphyry shell
porpoise oil
porpoise whale
port anchor
port authority
port bar
port captain
port charge
port differential
port duty
port engine
port engine ahead
port engineer
port in a storm
port of call
port of embarkation
port of entry
port risk insurance
port royalist
port superintendent
port tack
port-caustic
port-crayon
port-hole
port-mouthed
port-royal
port-sale
port-vent
port-wine
port-wine mark
port-wine stain
port-winy
portable TV set
portable drill
portable engine
portable field unit
portable radio
portable saw
portable television set
portal frame
portal vein
portal-to-portal
portal-to-portal pay
portative organ
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
positive direction of roll
positive direction of yaw
positive electricity
positive electron
positive fact
positive feedback
positive geotropism
positive ion
positive law
positive lens
positive lift axis
positive misprision
positive organ
positive philosophy
positive polarity
positive pole
positive ray
positive reinforcement
positive statement
positive transference
positive valence
positive-ion accelerator
positively right
poss stick
poss tub
posse comitatus
possess authority
possess incriminating evidence
possess nine lives
possess one of the facts
possess sexually
possess your soul in patience
possess yourself
post school
post term
post time
post town
post trader
post up
post-
post-Adamic
post-Advent
post-Alexandrine
post-Aristotelian
post-Augustan
post-Augustinian
post-Aztec
post-Babylonian
post-Biblical
post-Caesarean
post-Cambrian
post-Carboniferous
post-Carolingian
post-Cartesian
post-Cesarean
post-Chaucerian
post-Christian
post-Christmas
post-Columbian
post-Confucian
post-Constantinian
post-Copernican
post-Crusade
post-Darwinian
post-Davidic
post-Devonian
post-Diocletian
post-Easter
post-Elizabethan
post-Eocene
post-Galilean
post-Gothic
post-Hittite
post-Homeric
post-Ibsen
post-Impressionist
post-Johnsonian
post-Jurassic
post-Justinian
post-Jutland
post-Kansan
post-Kantian
post-Leibnitzian
post-Leibnizian
post-Lent
post-Linnean
post-Marxian
post-Mendelian
post-Mesozoic
post-Miocene
post-Mishnaic
post-Mishnic
post-Mishnical
post-Mosaic
post-Mycenean
post-Napoleonic
post-Newtonian
post-Nicene Fathers
post-Oligocene
post-Ordovician
post-Paleozoic
post-Pauline
post-Pentecostal
post-Permian
post-Petrine
post-Phidian
post-Platonic
post-Pleistocene
post-Pliocene
post-Pythagorean
post-Reformation
post-Renaissance
post-Restoration
post-Revolutionary
post-Roman
post-Romantic
post-Shakespearian
post-Shakespearean
post-Silurian
post-Socratic
post-Talmudic
post-Talmudical
post-Tertiary
post-Transcendental
post-Triassic
post-Tridentine
post-Vedic
post-Victorian
post-Volstead
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot earth
pot fisher
pot fisherman
pot furnace
pot garden
pot hat
pot kiln
pot lace
pot layering
pot lead
pot liquor
pot maker
pot marigold
pot marjoram
pot metal
pot plant
pot roast
pot shot
pot spinning
pot still
pot valve
pot wheel
pot-au-feu
pot-bellied
pot-belly
pot-boiler
pot-bound
pot-boy
pot-clay
pot-color
pot-earth
pot-gun
pot-gutted
pot-herb
pot-hole
pot-hook
pot-house
pot-hunter
pot-lead
pot-lid
pot-liquor
pot-luck
pot-metal
pot-pie
pot-pourri
pot-rustler
pot-shaped
pot-shot
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valiance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobbler
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium biartrate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypoantimonate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulphate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating
potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
potato hook
potato masher
potato mosaic
potato moth
potato mottle
potato murrain
potato onion
potato peeler
potato race
potato salad
potato scab
potato set
potato soup
potato tree
potato vine
potato wart
potato weevil
potato whisky
potato worm
potato-sick
potbellied stove
potcher engine
potcher man
potent cross
potent-counterpotent
potential cautery
potential difference
potential divider
potential energy
potential gradient
potentiometric titration
pothooks and hangers
pott octavo
pott quarto
pott's disease
potter away
potter bee
potter wasp
potter's clay
potter's earth
potter's field
potter's wheel
pattern ore
pottery tissue
pottery tree
potting shed
pottle pot
pottle-bellied
pottle-bodied
pottle-crowned
pottle-deep
potty-chair
pou de ciel
pou sto
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poul-de-soie
poulter's measure
poultry breeder
poultry breeding
poultry buyer
poultry buyer
poultry car
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-caf
pousse-cafe
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
powder down
powder flag
powder flask
powder grain
powder gray
powder horn
powder house
powder keg
powder magazine
powder maker
powder metallurgy
powder mill
powder monkey
powder paper
powder pimpimpimp
powder post
powder puff
powder room
powder ship
powder snow
powder train
powder-black
powder-blue
powder-charged
powder-down
powder-flask
powder-gray
powder-horn
powder-laden
powder-marked
powder-monkey
powder-post beetle
powder-posted
powder-puff
powder-scorched
powder-tinged
powdered milk
powdered soap
powdered sugar
powdery mildew
power amplifier
power base
power behind the throne
power brake
power brakes
power broker
power cab
power cable
power chain
crusing
power cut
dive
drill
duster
elite
engineer
engineering
factor
for good
gas
grab
drain
line
load
loading
loom
meter
microscope
mower
of appointment
of attorney
of expression
mind
over matter
money
reason
sight
of suggestion
of the keys
of thought
power off
pack
plant
play
plug
point
politics
press
pump
punch
rail
reactor
relay
sander
saw
sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-breeder reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
power-plant engineer
power-plant engineering
power-political
power-riveting
power-saw
power-sawed
power-sawing
power-sawn
power-seeking
power-supply engineer
powered flight
powerful like
powers of darkness
powers that be
powers that be, the
pox-marked
practical ability
practical art
practical consequence
practical joke
practical joker
practical knowledge
practical mechanics
practical mind
practical nurse
practical person
practical piece
practical politics
practical prop
practical reason
practical scientist
practical skill
practical test
practical theology
practical utility
practical wisdom
practical-minded
practical-mindedness
practice a profession
practice at the bar
practice curve
practice domesticity
practice fraud upon
practice landing
practice law
practice medicine
practice nonviolence
practice of medicine
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
praef-
praedium dominans
praedium serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakeroot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Kantian
pre-Laurentian
pre-Linnaean
pre-Linnean
pre-Luciferian
pre-Lutheran
pre-Malay
pre-Malayan
pre-Malaysian
pre-Marxian
pre-Mendelian
pre-Messianic
pre-Methodist
pre-Mohammedian
pre-Mongolian
pre-Mosaics
pre-Moslem
pre-Muslim
pre-Mycenaen
pre-Napoleonic
pre-Newtonian
pre-Noachian
pre-Norman
pre-Norse
pre-Osmanli
pre-Palaeozoic
pre-Paleozoic
pre-Patrician
pre-Pauline
pre-Permian
pre-Persian
pre-Petrine
pre-Pharaonic
pre-Phidian
pre-Polish
pre-Pueblo
pre-Puebloan
pre-Raphael
pre-Raphaelism
pre-Raphaelite
pre-Raphaelitic
pre-Raphaelitish
pre-Raphaelitism
pre-Reconstruction
pre-Reformation
pre-Renaissance
pre-Restoration
pre-Revolution
pre-Roman
pre-Sargonic
pre-Saxon
pre-Semitic
pre-Shakespeare
pre-Shakespearean
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
pre-editorially
pre-educate
pre-education
pre-educational
pre-educationally
pre-effect
pre-effective
pre-effectively
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-exceptionally
pre-exchange
pre-excitation
pre-excite
pre-exclude
pre-exclusion
pre-exclusive
pre-exclusively
pre-excision
pre-excuse
pre-execute
pre-execution
pre-executor
pre-exempt
pre-exemption
pre-exhaust
pre-exhaustion
pre-exhibit
pre-exhibition
pre-exhibitor
pre-exile
pre-exilian
pre-exilic
pre-exist
pre-existence
pre-existent
pre-existentiary
pre-existentism
pre-expand
pre-expansion
pre-expect
pre-expectant
pre-expectation
pre-expedition
pre-expeditionary
pre-expend
pre-expenditure
pre-expense
pre-experience
pre-experiment
pre-experimental
pre-expiration
pre-explain
pre-explanation
pre-explanatory
pre-explode
pre-explosion
pre-expose
pre-exposition
pre-exposure
pre-expound
pre-expounder
pre-express
pre-expression
pre-expressive
pre-extend
pre-extensive
pre-extensively
pre-extent
pre-extinction
pre-extinguish
pre-extinguishment
pre-extract
pre-extraction
pre-fabulous
pre-free-trade
pre-glacial
pre-ignition
pre-judicial
pre-judiciary
pre-man
pre-operculum
pre-option
pre-orbital
pre-ordain
pre-ordinate
pre-prefer
pre-preference
pre-raphael
pre-raphaelite
pre-raphaelitism
pre-shrunk
pre-socratic
pre-sternum
pre-teens
preach to the winds
preacher bird
preaching brother
preaching friar
preaching-house
prealternate molt
re basic molt
prebendal stall
precedent condition
precession of the equinoxes
precinct captain
precinct house
precinct leader
precious coral
precious heart
precious little
precious metal
precious metals
precious moonstone
precious opal
precious rascal
precious stone
precipitable water
precipitate yourself
precipitation hardening
precision balance
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
pree the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim
prefer a petition
prefer charges
prefer to
prefer your own company
preference for the best
preference primary
preference share
preference shares
preference stock
preferential shop
preferential system
preferential treatment
preferential voting
preference bond
preference freight
preferred lie
preferred position
preferred stock
prefree-trade
prefrontal leucotomy
prefrontal lobotomy
pregenital fixation
pregnant imagination
pregnant moment
pregnant of good
pregnant with meaning
prehensile tail
prehistoric animal
prehistoric animals
prehistoric anthropology
prehistoric archaeology
prehistoric man
prehistoric races
prejudice against
prejudice the issue
prejudice-proof
prelapsarian state
prelate nullius
preliminary act
preliminary approach
preliminary convention
preliminary examination
preliminary measure
preliminary sign
preliminary signal
preliminary step
preliminary study
premarital relations
premarital sex
premature acceptation
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
present-time
presentation copy
presentation of the case
presentation time
presentative realism
presenting arms
preservative medium
preserve a balance
preserve a middle course
preserve an even course
preserve from oblivion
preserve your dignity
preserve your honor
preset board
preset control board
preside at the board
preside over
president general
president pro tempore
president-elect
presidential election
presidential government
presidential palace
presidential papers
presidential preference primary
presidential primary
presidential timber
presiding judge
presiding officer
press agency
press agent
press association
press bed
press brake
press bundler
press bureau
press cake
press camera
press card
press charges
press clipper
press clipping
press cloth
press conference
press copy
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
pressure filter
pressure gauge
pressure governor
pressure gradient
pressure group
pressure head
pressure hull
pressure ice
pressure indicator
pressure microphone
pressure mine
pressure neuropathy
pressure nozzle
pressure point
pressure producer
pressure pump
pressure recorder
pressure register
pressure regulator
pressure ridge
pressure saucepan
pressure sense
pressure siphon
pressure spot
pressure spring
pressure stage
pressure suit
pressure syllable
pressure tank
pressure transducer
pressure transmitter
pressure tube
pressure valve
pressure warrant
pressure welding
pressure wire
pressure-cook
pressure-fixing
pressure-group politics
pressure-reciprocating
pressure-reducing
pressure-regulating
pressure-relief ring
pressure-relieving
pressure-testing
pressure-vacuum valve
pressureless space
pressurized suit
pressyou hard
prest money
prest-money
prestation money
prester john
prestige dialect
presto change
presto chango
prestressed concrete
presume on
presume upon
presumption of fact
presumption of innocence
presumptive evidence
presumptive heir
presumptive right
pretend not to see
pretend to
pretend to be
preter-
preterit-present
preterito-present
preterito-presental
pretium puellae
pretty as a picture
pretty damned quick
pretty good
pretty kettle of fish
pretty lies
pretty much
pretty much the same
pretty near
pretty pass
pretty penny
pretty pickle
pretty piece of business
pretty predicament
pretty up
pretty well
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
preventer backstay
preventer plate
preventer stay
prevention-proof
preventive custody
preventive dentist
preventive dentistry
preventive detention
preventive law
preventive measure
preventive medicine
preventive treatment
preventive war
previous question
previous time
previous to
prey on
prey on the mind
prey to blind fear
prey to malaise
prey upon
pribble-prabble
price ceiling
price control
price controls
price current
price cut
price determination
price discrimination
price fall
price fixing
price freeze
price index
price level
price list
price of money
price out of the market
price range
price reduction
price ring
price support
price supports
price tag
price war
price-cut
price-cutter
price-cutting
price-deciding
price-enhancing
price-fixing
price-lowering
price-raising
price-reducing
price-ruling
price-stabilizing
prices current
prick ear
prick mark
prick post
prick punch
prick shaft
prick shooting
prick song
prick the bubble
prick up
prick up the ears
prick up your ears
prick wheel
prick your balloon
prick-ear
prick-eared
prick-madam
prick-post
prick-seam
prick-song
prick-timber
pricking of conscience
pricking of heart
pricking wheel
pricking-up
prickle cell
prickle grass
prickle-back
prickle-cone pine
prickley heat
prickly ash
prickly glasswort
prickly grass
prickly heat
prickly lettuce
prickly pear
prickly phlox
prickly poppy
prickly shield fern
prickly thrift
prickly-finned
prickly-fruited
prickly-lobed
prickly-margined
prickly-seeded
prickly-toothed
pride and joy
pride of China
pride of India
pride of bearing
pride of place
pride of the morning
pride yourself
pride-blind
pride-blinded
pride-bloated
pride-fed
pride-inflamed
pride-inspiring
pride-of-India
pride-ridden
pride-sick
pride-swollen
prie-dieu
priest hole
priest vicar
priest-astronomer
priest-baiting
priest-catching
priest-doctor
priest-dynast
priest-educated
priest-guarded
priest-harboring
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primary pigment
primary processes
primary quality
primary road
primary scholar
primary school
primary schooler
primary sex character
primary sex characteristic
primary spermatocyte
primary stress
primary syphilis
primary trainer
primary type
primary wave
prime coat
prime cost
prime field
prime focus
prime hours
prime ideal
prime interest rate
prime interval
prime investment
prime issue
prime meridian
prime minister
prime ministry
prime mover
prime number
prime number theorem
prime of life
prime of the morning
prime of the year
prime rate
prime song
prime the pump
prime time
prime tone
prime vertical
prime-ministerial
prime-ministrieship
prime-ministry
primed for
primeval forest
priming boiler
priming charge
primitive Indo-European
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose color
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
 prince's feather
prince's pipe
prince's-feather
prince's-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primate
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
principal idea
principal ideal
principal keeper
principal parts
principal plane
principal point
principal quantum number
principal rafter
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
prize money
prize open
prize out
prize ring
prize sap
prize winner
prize-fight
prize-fighter
prize-giving
prize-playing
prize-ring
prize-taking
prize-winning
pro and con
pro bono publico
pro forma
pro forma balance sheet
pro memoria
pro patria
pro patria mori
pro rata
pro tanto
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Algerian
pro-Alsatian
pro-American
pro-Americanism
pro-Anglican
pro-Arab
pro-Arabian
pro-Arabic
pro-Argentine
pro-Arian
pro-Aristotelian
pro-Armenian
pro-Asian
pro-Asiatic
pro-Athenian
pro-Australian
pro-Austrian
pro-Baconian
pro-Baptist
pro-Belgian
pro-Bessarabian
pro-Biblical
pro-Bohemian
pro-Bolivian
pro-Bolshevik
pro-Bolshevism
pro-Bolshevist
pro-Brazilian
pro-British
pro-Buddhist
pro-Bulgarian
pro-Burman
pro-Cambodia
pro-Cameroun
pro-Canadian
pro-Catholic
pro-Catholicism
pro-Ceylon
pro-Chilean
pro-Chinese
pro-Colombian
pro-Confederate
pro-Congolese
pro-Congressional
pro-Cuban
pro-Cyprus
pro-Czech
pro-Czechoslovakian
pro-Danish
pro-Darwin
pro-Darwinian
pro-Darwinism
pro-Denmark
pro-Dominican
pro-East
pro-Eastern
pro-Ecuador
pro-Egyptian
pro-Elizabethan
pro-Emersonian
pro-English
pro-Eskimo
pro-Ethiopian
pro-European
pro-Finnish
pro-Florentine
pro-France
pro-French
pro-Freud
pro-Freudian
pro-Gaelic
pro-Gentile
pro-German
pro-Ghana
pro-Gothic
pro-Grecian
pro-Greek
pro-Guatemalan
pro-Haitian
pro-Hawaiian
pro-Hellenic
pro-Hindu
pro-Hitler
pro-Honduran
pro-Hungarian
pro-Icelandic
pro-Indian
pro-Indonesian
pro-Iranian
pro-Iraq
pro-Rumanian
pro-Russian
pro-Scandinavian
pro-Scriptural
pro-Scripture
pro-Somalia
pro-South
pro-Southern
pro-Soviet
pro-Spain
pro-Spanish
pro-Sudanese
pro-Sweden
pro-Swedish
pro-Swiss
pro-Switzerland
pro-Syrian
pro-Tunisian
pro-Turkey
pro-Turkish
pro-Unitarian
pro-United States
pro-Uruguayan
pro-Venezuelan
pro-Vietnamese
pro-West
pro-Western
pro-Westerner
pro-Whig
pro-Yugoslav
pro-Yugoslavian
pro-Zionism
pro-Zionist
pro-am
pro-art
pro-budgeting
pro-bus
pro-cathedral
pro-city
pro-co-operation
pro-form
pro-government
pro-immigrationist
pro-infinitive
pro-man
pro-modern
pro-observance
pro-oceanic
problon is a probability
proboscis monkey
procaine amide
procaryotic cell
proceed from
proceed out in the open
proceed to
proceed with
proces verbal
proces-verbal
proces-verbaux
process butter
process cheese
process control
process costing
process lag
process loop
process milling
process of time
process photos
process plate
process printer
process printing
process server
process shot
process variable
process-control system
process-server
processed cheese
processing solution
processing tax
procession flower
processional march
processionary moth
prochain ami
prochein ami
prochein amy
proclaim at Charing Cross
proclaim at the crossroads
proclaim at the market cross
proclaim from
procrustean bed
procto-
procuration fee
procurator fiscal
procurator-fiscal
procurator-general
procure materials
profile cutter
profile drag
profile line
profile machine
profile map
profile microscope
profile paper
profile plan
profiling machine
profit and loss
profit and loss account
profit by
profit sharing
profit system
profit taking
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profound knowledge
profound secret
profound sense
profound sleep
profound thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
project over
projected window
projectile anchor
projectile lathe
projectile rocket
projecting microscope
projection booth
projection fiber
projection machine
projection print
projection printing
projection room
projection tube
projective geometry
projective property
projective test
projector lamp
projector tube
prolate spheroid
proletarian novel
proliferative arthritis
prolong the agony
prolonge knot
prolonged narcosis
promenade concert
promenade deck
promenade tile
promethea moth
prominent belly
promise in marriage
promise of harm
promise-bound
promise-breach
promise-breaking
promise-crammed
promise-fed
promise-fulfilling
promise-keeping
promise-led
promise-making
promise-performing
promised land
promissory note
promoter of the faith
promotional material
prompt dower
prompt note
prompt side
prompt the mind
prompter's box
prone before
prone float
prone pressure method
prone to
prong box
prong budding
prong chuck
prong die
prong hoe
prong key
prong-horned
pronghorn antelope
pronounce judgment
pronounce on
pronounce sentence
prony brake
proof against
proof armor
proof before letter
proof charge
proof coin
proof correction
proof leaf
proof paper
proof plane
proof planer
proof press
proof sheet
proof spirit
proof stress
proof-correct
proof-proof
proof-spirit
prop joint
prop man
prop root
prop up
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
projet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-
protean actor
protected anchorage
protected cruiser
protection forest
protection racket
protective clothing
protective coloration
protective covering
protective custody
protective deck
protective mimicry
protective slope
protective stock
protective system
protective tariff
protective umbrella
protector paravane
protein crystal
protein deficiency
protein factor
protein fever
protein fibers
protein milk
protein plastic
protein shock
protein therapy
protein-free
proteolytic enzyme
proteroo-
protest against
protest demonstration
protest flag
protest too much
protested bill
proteus animalcule
prothetic vowel
prothonotary apostolic
prothonotary warbler
proto-
protocol sentence
protocol statement
proton gun
proton number
proton reaction
proton-synchrotron
protoxide of nitrogen
protozoan disease
protracted meeting
protruding belly
proud as Lucifer
proud as a peacock
proud bearing
proud flesh
proud-blind
proud-blooded
proud-crested
proud-exulting
proud-glancing
proud-hearted
proud-looking
proud-minded
proud-mindedness
proud-paced
proud-pillared
proud-prancing
proud-quivered
proud-spirited
proud-stomached
provable fact
provascular tissue
prove false
prove out
prove the contrary
prove to be
prove true
prove up
prove your point
proved fact
proverbial saying
provice-chancellor
provide a hedge
provide a rationale
provide against
provide against a rainy day
provide capital for
provide for
provide for a rainy day
provide money for
provide the wherewithal
provide with a roof
provided always
provided for
provided school
provided that
provident care
provident club
provident society
provincial court
provincial legislature
provincial parliament
provincial police
provincial tax
proving ground
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marshal
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudential administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseud-
pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo benefactor
pseudo benefactress
pseudo benevolence
pseudo bible
pseudo biographer
pseudo biography
pseudo biology
pseudo bird
pseudo bishop
pseudo boa
pseudo bookcase
pseudo boy
pseudo bride
pseudo broker
pseudo brokerage
pseudo brother
pseudo cancellation
pseudo candidacy
pseudo candidate
pseudo candor
pseudo captive
pseudo capture
pseudo catholic
pseudo catholicism
pseudo census
pseudo champion
pseudo championship
pseudo charity
pseudo chemist
pseudo chemistry
pseudo citizen
pseudo citizenship
pseudo clergy
pseudo clergyman
pseudo cleric
pseudo client
pseudo club
pseudo college
pseudo competitor
pseudo conclusion
pseudo cone
pseudo confession
pseudo confessional
pseudo confirmation
pseudo conflict
pseudo connection
pseudo consent
pseudo conservator
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation
pseudo culture
pseudo date
pseudo death
pseudo declaration
pseudo deficit
pseudo delegate
pseudo delegation
pseudo democracy
pseudo deputation
pseudo deputy
pseudo devotee
pseudo devotion
pseudo dike
pseudo diplomacy
pseudo diplomat
pseudo distance
pseudo distribution
pseudo distributor
pseudo divination
pseudo divine
pseudo divinity
pseudo doctor
pseudo donation
pseudo donor
pseudo drama
pseudo dramatist
pseudo duke
pseudo earl
pseudo economics
pseudo economy
pseudo editor
pseudo editorial
pseudo education
pseudo educator
pseudo election
pseudo electorate
pseudo emotion
pseudo endeavor
pseudo enthusiasm
pseudo enthusiast
pseudo episcopacy
pseudo equality
pseudo ethics
pseudo etymologist
pseudo etymology
pseudo evangelist
pseudo example
pseudo exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo ghost
pseudo healer
pseudo heart
pseudo heathen
pseudo hero
pseudo humanism
pseudo humanist
pseudo humanitarian
pseudo husband
pseudo identity
pseudo impartiality
pseudo independence
pseudo information
pseudo insanity
pseudo inspiration
pseudo internationalism
pseudo internationalist
pseudo invalid
pseudo invalidism
pseudo island
pseudo isle
pseudo jaundice
pseudo judge
pseudo judgment
pseudo justice
pseudo knight
pseudo label
pseudo learning
pseudo legality
pseudo legend
pseudo legislation
pseudo legislator
pseudo liberalism
pseudo liberality
pseudo liquidation
pseudo literature
pseudo loan
pseudo lord
pseudo mahogany
pseudo marble
pseudo marquis
pseudo marriage
pseudo martyr
pseudo martyrdom
pseudo masculinism
pseudo masculinity
pseudo masterpiece
pseudo medievalism
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
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pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
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pseudo reformer
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pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo specialty
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperance
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Assyrian
pseudo-Australian
pseudo-Austrian
pseudo-Babylonian
pseudo-Baptist
pseudo-Belgian
pseudo-Bohemian
pseudo-Bolivian
pseudo-Brahman
pseudo-Brazilian
pseudo-Buddhist
pseudo-Bulgarian
pseudo-Canadian
pseudo-Carthaginian
pseudo-Catholic
pseudo-Chilean
pseudo-Chinese
pseudo-Christian
pseudo-Ciceronian
pseudo-Dantesque
pseudo-Democratic
pseudo-Dutch
pseudo-East Indian
pseudo-Egyptian
pseudo-Elizabethan
pseudo-English
pseudo-Episcopalian
pseudo-European
pseudo-French
pseudo-Georgian
pseudo-German
pseudo-Germanic
pseudo-Gothic
pseudo-Grecian
pseudo-Greek
pseudo-Hindu
pseudo-Homeric
pseudo-Hungarian
pseudo-Incan
pseudo-Indian
pseudo-Iranian
pseudo-Irish
pseudo-Italian
pseudo-Japanese
pseudo-Mayan
pseudo-Messianic
pseudo-Methodist
pseudo-Mexican
pseudo-Miltonic
pseudo-Mohammedan
pseudo-Mohammedanism
pseudo-Mongolian
pseudo-Moslem
pseudo-Muslem
pseudo-Muslim
pseudo-Norwegian
pseudo-Panamanian
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearian
pseudo-Shakespearean
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-uniseptate
pseudo-urate
pseudo-urea
pseudo-uric
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psilo-
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychro-
psychrometric chart
psyllium seed
pterid-
pterido-
pteropteroic acid
pteroylglutamic acid
pteroylmonoglutamic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
public hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public library
public man
public motive
public notice
public nuisance
public official
public opinion
public orator
public ownership
public park
public policy
public press
public print
public prosecutor
public records
public relations
public relations man
public relations officer
public report
public sale
public school
public servant
public service
public speaker
public speaking
public speech
public spirit
public square
public statute
public telephone
public television
public till
public tit
public tranquillity
public treasury
public trough
public utilities
public utility
public walk
public welfare
public works
public worship
public-address system
public-liability insurance
public-minded
public-mindedness
public-official bond
public-opinion poll
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
certainty man
certainty manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publisher's catalog
publisher's list
publishing house
publishing industry
pubo-
puce oxide
puck-carrier
pucker up
pudding bag
pudding boom
pudding club
pudding face
pudding grass
pudding sleeve
pudding spar
pudding stone
pudding time
pudding-faced
pudding-pie
pudding-pipe tree
pudding-shaped
puddle ball
puddle bar
puddle duck
puddle rolls
puddle wall
puddling furnace
pudendal ulcer
puerperal fever
puerperal psychosis
puff adder
puff and blow
puff box
puff like a grampus
puff of air
puff of smoke
puff of wind
puff paste
puff pastry
puff pipe
puff shark
puff sleeve
puff up
puff-adder
puff-ball
puff-bird
puff-fish
puff-leg
puff-paste
puff-puff
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
puling infant
pull a blooper
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull-
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulley oiler
pulley stile
pulley tackle
pulley tap
pulley-shaped
pulling boat
pulling down
pulling out
pulling power
pulling together
pulling-out
pullorum disease
pullulate with
pully-haul
pully-hauly
pulmo-
pulmonary artery
pulmonary emphysema
pulmonary insufficiency
pulmonary phthisis
pulmonary stenosis
pulmonary tuberculosis
pulmonary valve
pulmonary vein
pulmoni-
pulmono-
pulp canal
pulp canal therapy
pulp canal treatment
pulp cavity
pulp chamber
pulp engine
pulp lead
pulp machine
pulp magazine
pulp nodule
pulp plaster
pulpyl galaxy
pulpit cloth
pulpit cross
pulpit rock
pulsating direct current
pulsating star
pulsating universe
pulsating universe theory
pulsation pump
pulsation theory
pulse analyzer
pulse deficit
pulse family
pulse generator
pulse glass
pulse height analyser
pulse ionization chamber
pulse jet
pulse jet helicopter
pulse modulation
pulse pressure
pulse radar
pulse rate
pulse transformer
pulse wave
pulse-jet
pulse-jet engine
pulse-jet propulsion
pulse-modulated radar
pulse-time modulation
pulsejet engine
pulsion diverticulum
pulsus alternans
pulvering day
pulverizer harrow
pumice soap
pumice stone
pumice-stone
pump bilge
pump bob
pump box
pump brake
pump cylinder
pump doctor
pump drill
pump for information
pump full of lead
pump gun
pump handle
pump house
pump out
pump priming
pump rod
pump room
pump sole
pump spear
pump staff
pump up
pump well
pump-action
pump-back method
pump-handle
pump-handler
pump-priming
pump-room
pump-well
pumping engine
pumping plan
pumping-back method
pumpkin ash
pumpkin head
pumpkin pine
pumpkin seed
pumpkin tree
pumpkin-colored
pumpkin-headed
pumpkin-seed
pumpkin-seed oil
puna grass
punch barrel
punch bowl
punch card
punch cards
punch cattle
punch cutter
punch full of holes
punch holder
punch house
punch in
punch ladle
punch lifter
punch line
punch mark
punch mat
punch out
punch pliers
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunk
punch-hole
punch-marked
punch-up
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitive damages
punitive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
pure-food law
pure-heartedness
pure-minded
purebred horse
purenness of heart
purgatory hammer
purge away
purge yourself
purging nut
purification flower
purified cotton
purine base
purity rubric
purl stitch
purlieu-man
purlin plate
puro-
purple and fine linen
purple beard grass
purple bent
purple boneset
purple cestrum
purple chokeberry
purple color
purple daisy
purple finch
purple fish
purple fishery
purple foxglove
purple gallinule
purple heart
purple heron
purple lake
purple loosestrife
purple martin
purple medic
purple melick grass
purple mombin
purple mullein
purple oat
purple of Cassius
purple pall
purple passage
purple passages
purple patch
purple patches
purple rock cress
purple sage
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purple-tailed
purple-tipped
purple-top
purple-topped
purple-veined
purple-vested
purple-yellow
purpose clause
purpose of
purpose to yourself
purpose-built
purpura hemorrhagica
purpureo-
purre maw
purse atomizer
purse bearer
purse boat
purse crab
purse cutter
purse cutting
purse isinglass
purse line
purse maker
purse net
purse pride
purse race
purse ring
purse rope
purse seine
purse seiner
purse silk
purse snatcher
purse snatching
purse spider
purse string
purse strings
purse weight
purse-bearer
purse-eyed
purse-lined
purse-lipped
purse-mad
purse-pinched
purse-pride
purse-proud
purse-shaped
purse-snatching
purse-string
purse-string suture
purse-swollen
purslane speedwell
purslane tree
pursuant to
pursue a policy of
pursue a strategy
pursue an inquiry
pursue the arts of peace
pursue your education
pursuit airplane
pursuit pendulum
pursuit plane
pursuit squadron
pus basin
pus cell
pus pan
push about
push along
push around
push aside
push back
push bicycle
push bolt
push broach
push broom
push button
push car
push cycle
push down
push drill
push fit
push forward
push from your thoughts
push hoe
push in
push moraine
push off
push on
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
pussle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juju on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of face
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another's shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-putter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
putt-putt
putter-forth
putter-in
putter-off
putter-on
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidine base
pyrite type
pyrite yellow
pyrito-
pyritohedral group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyrosulphuric acid
pyrotechnic sponge
pyroxene group
pyroxylin plastic
pyrrhic victory
pyrrole red
pyruvic acid
pyruvic acid
pyruvic aldehyde
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrant compass
quadrant electrometer
quadrant plate
quadraphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrate-
quadrature component
quadrature of the circle
quadrennial circus
quadri-
quadri-invariant
quadric surface
quadrilateral spinnaker
quadrille ruling
quadrumen merum
quadru-
quadruple counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d' orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quaking grass
quaking-grass
qualified negative
qualified veto
qualifying examination
qualitative analysis
quality binding
quality control
quality curve
quality factor
quality loop
quality stock
quality-control inspector
qualm of conscience
qualm-sick
quam libet
quandong nut
quantitative analysis
quantitative inheritance
quantitative meter
quantity control
quantity mark
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ail
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter grain
quarter hollow
quarter horse
quarter hour
quarter ill
quarter iron
quarter ladder
quarter lift
quarter light
quarter line
quarter miler
quarter nelson
quarter note
quarter of a century
quarter of a hundred
quarter pillar
quarter pitch
quarter plate
quarter point
quarter points
quarter rail
quarter rest
quarter round
quarter rudder
quarter screw
quarter section
quarter semitone
quarter sessions
quarter step
quarter stock
quarter tie
quarter tone
quarter watch
quasi bird
quasi blessing
quasi blockade
quasi blunder
quasi body
quasi broker
quasi brother
quasi calamity
quasi caller
quasi cancellation
quasi candidate
quasi candor
quasi captain
quasi cause
quasi celebration
quasi certificate
quasi champion
quasi charity
quasi cheer
quasi chemistry
quasi circulation
quasi citizen
quasi civilization
quasi clairvoyance
quasi client
quasi climax
quasi club
quasi co-operation
quasi collapse
quasi collateral
quasi collection
quasi collector
quasi college
quasi colloquial
quasi combat
quasi comedy
quasi comfort
quasi command
quasi compact
quasi competition
quasi competitor
quasi compliance
quasi compliment
quasi comprehension
quasi compromise
quasi concern
quasi concession
quasi conclusion
quasi conference
quasi confession
quasi confinement
quasi confirmation
quasi conflict
quasi conformance
quasi congratulation
quasi congress
quasi conjunction
quasi connection
quasi conquest
quasi conscience
quasi consent
quasi consequence
quasi consideration
quasi consignment
quasi consolation
quasi consolidation
quasi constitution
quasi construction
quasi consultation
quasi consumption
quasi contempt
quasi contest
quasi continent
quasi continuation
quasi contract
quasi contrast
quasi contribution
quasi control
quasi convenience
quasi convention
quasi conversation
quasi conveyance
quasi conviction
quasi cook
quasi copula
quasi corporateness
quasi corporation
quasi correction
quasi council
quasi coupon
quasi court
quasi courtesy
quasi cousin
quasi craft
quasi creation
quasi credit
quasi creditor
quasi crime
quasi crisis
quasi criticism
quasi cultivation
quasi culture
quasi currency
quasi customer
quasi damage
quasi debt
quasi decision
quasi declaration
quasi decoration
quasi dedication
quasi default
quasi defeat
quasi defiance
quasi deficit
quasi definition
quasi dejection
quasi delegate
quasi delict
quasi demand
quasi democrat
quasi deposit
quasi depreciation
quasi depression
quasi deputy
quasi despair
quasi destination
quasi destruction
quasi detention
quasi development
quasi devil
quasi devotion
quasi diamond
quasi difference
quasi dinner
quasi diplomacy
quasi disadvantage
quasi disappearance
quasi disaster
quasi discipline
quasi discovery
quasi discrimination
quasi disgrace
quasi disgust
quasi dismissal
quasi distress
quasi distribution
quasi diversion
quasi division
quasi dominion
quasi donation
quasi doubt
quasi drama
quasi earnings
quasi easement
quasi economy
quasi education
quasi election
quasi emperor
quasi emphasis
quasi employment
quasi endorsement
quasi enemy
quasi enforcement
quasi engagement
quasi enrollment
quasi entertainment
quasi enthusiasm
quasi envy
quasi error
quasi escape
quasi estimation
quasi evidence
quasi exchange
quasi exclusion
quasi excuse
quasi executive
quasi exertion
quasi exile
quasi expectation
quasi expenditure
quasi expense
quasi experience
quasi expert
quasi explanation
quasi export
quasi exposure
quasi expression
quasi fact
quasi factor
quasi factory
quasi faculty
quasi failure
quasi faith
quasi farewell
quasi farmer
quasi fascination
quasi favor
quasi fee
quasi fiction
quasi flight
quasi force
quasi friend
quasi fulfillment
quasi gem
quasi genius
quasi gentleman
quasi gift
quasi glory
quasi graduate
quasi grief
quasi growth
quasi guarantee
quasi guest
quasi guilt
quasi handicap
quasi hardship
quasi harm
quasi health
quasi heir
quasi help
quasi hero
quasi hesitation
quasi historian
quasi history
quasi holiday
quasi honor
quasi horror
quasi identification
quasi ignorance
quasi illness
quasi import
quasi improvement
quasi incentive
quasi inclination
quasi increase
quasi indifference
quasi inducement
quasi indulgence
quasi inference
quasi information
quasi inheritance
quasi initiation
quasi injury
quasi injustice
quasi innocence
quasi inquiry
quasi insight
quasi inspection
quasi inspiration
quasi installation
quasi institution
quasi instruction
quasi insult
quasi integrity
quasi intention
quasi interest
quasi interference
quasi interview
quasi introduction
quasi invasion
quasi investigation
quasi invitation
quasi invoice
quasi judge
quasi judgment
quasi justice
quasi justification
quasi kindred
quasi king
quasi knowledge
quasi labor
quasi lady
quasi lament
quasi league
quasi legacy
quasi legality
quasi legislation
quasi liability
quasi liberty
quasi limit
quasi literature
quasi loan
quasi lord
quasi loss
quasi luxury
quasi magic
quasi maintenance
quasi majority
quasi prosecution
quasi prosperity
quasi protection
quasi provocation
quasi punishment
quasi pupil
quasi purchase
quasi purity
quasi pursuit
quasi qualification
quasi quarantine
quasi quarrel
quasi quotation
quasi reality
quasi realization
quasi reason
quasi rebellion
quasi receipt
quasi recognition
quasi recollection
quasi reconciliation
quasi record
quasi recreation
quasi reduction
quasi reference
quasi refinement
quasi reform
quasi refusal
quasi registration
quasi rejection
quasi relief
quasi religion
quasi remedy
quasi reminder
quasi remittance
quasi remorse
quasi renewal
quasi rent
quasi repair
quasi replacement
quasi reply
quasi report
quasi representative
quasi request
quasi requirement
quasi rescue
quasi residence
quasi resident
quasi resistance
quasi response
quasi restoration
quasi result
quasi retirement
quasi revolution
quasi reward
quasi rival
quasi romance
quasi safety
quasi sagacity
quasi saint
quasi sale
quasi salvation
quasi sanction
quasi sarcasm
quasi satisfaction
quasi savings
quasi scarcity
quasi scholar
quasi science
quasi search
quasi sentence
quasi sentiment
quasi seriousness
quasi service
quasi settlement
quasi severalty
quasi shortage
quasi signature
quasi sincerity
quasi skill
quasi slander
quasi socialist
quasi soldier
quasi solution
quasi sonnet
quasi sovereign
quasi space
quasi specialist
quasi sphere
quasi spirit
quasi sport
quasi standard
quasi starvation
quasi statesman
quasi strike
quasi student
quasi subject
quasi submission
quasi success
quasi suggestion
quasi supervision
quasi support
quasi suppression
quasi sympathy
quasi system
quasi teacher
quasi temperance
quasi testimony
quasi thanks
quasi threat
quasi toleration
quasi tradition
quasi tragedy
quasi translation
quasi trial
quasi triumph
quasi trustee
quasi truth
quasi tyranny
quasi union
quasi unity
quasi university
quasi usufruct
quasi utility
quasi vacation
quasi valuation
quasi value
quasi verdict
quasi victim
quasi victory
quasi vigilance
quasi violation
quasi violence
quasi virtue
quasi vocation
quasi volunteer
quasi wager
quasi war
quasi warrant
quasi weakling
quasi wealth
quasi whisper
quasi wisdom
quasi witness
quasi wonder
quasi worship
quasi zeal
quasi-
quasi-American
quasi-Americanized
quasi-English
quasi-French
quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
quasi-academically
quasi-acceptance
quasi-accepted
quasi-accidental
quasi-accidentally
quasi-acquainted
quasi-active
quasi-actively
quasi-adequate
quasi-adequately
quasi-adjusted
quasi-admire
quasi-admired
quasi-admiring
quasi-adopt
quasi-adopted
quasi-adult
quasi-advantageous
quasi-advantageously
quasi-affectionate
quasi-affectionately
quasi-affirmative
quasi-affirmatively
quasi-alternating
quasi-alternatingly
quasi-alternative
quasi-alternatively
quasi-amateurish
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quasi-audibly
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quasi-awfully
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quasi-biographically
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quasi-bravely
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quasi-brilliantly
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quasi-brotherly
quasi-calm
quasi-calmly
quasi-candid
quasi-candidly
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quasi-capably
quasi-careful
quasi-carefully
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quasi-characteristically
quasi-charitable
quasi-charitably
quasi-cheerful
quasi-cheerfully
quasi-civil
quasi-civilly
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quasi-classically
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quasi-clerically
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quasi-colloquially
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quasi-comfortably
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quasi-comically
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quasi-commandingly
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quasi-commonly
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quasi-competitive
quasi-competitively
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quasi-compliantly
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quasi-confidently
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quasi-constructively
quasi-consuming
quasi-content
quasi-contented
quasi-contentedly
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quasi-contolled
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quasi-cordially
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quasi-courteously
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quasi-crafty
quasi-criminal
quasi-criminally
quasi-critical
quasi-critically
quasi-cultivated
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quasi-cynically
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quasi-dangerously
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quasi-daringly
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quasi-deafly
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quasi-defiantly
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quasi-desperate
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quasi-despondently
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quasi-devotedly
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quasi-difficultly
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quasi-diplomatically
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quasi-disadvantageously
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quasi-disastrously
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quasi-discreetly
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quasi-discriminatingly
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quasi-distantly
quasi-distressed
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quasi-dramatically
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quasi-dreadfully
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quasi-dutifully
quasi-dying
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quasi-eagerly
quasi-economic
quasi-economical
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quasi-educational
quasi-educationally
quasi-effective
quasi-effectively
quasi-efficient
quasi-efficiently
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quasi- eminent
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quasi-emotionally
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quasi-endlessly
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quasi-energetically
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quasi-engagingly
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quasi-enthusiastically
quasi-envious
quasi-enviously
quasi-episcopal
quasi-episcopally
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quasi-equitably
quasi-equivalent
quasi-equivalently
quasi-erotic
quasi-erotically
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quasi-essentially
quasi-established
quasi-eternal
quasi-eternally
quasi-ethical
quasi-everlasting
quasi-everlastingly
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quasi-evilly
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quasi-exactly
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quasi-exceptionally
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quasi-expeditiously
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quasi-humorously
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quasi-idealistically
quasi-ideally
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quasi-ignorantly
quasi-immediate
quasi-immediately
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quasi-immortally
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quasi-impartially
quasi-important
quasi-importantly
quasi-improved
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quasi-inclusive
quasi-inclusively
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quasi-infinitely
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quasi-informally
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quasi-injuriously
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quasi-regulated
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quasi-remarkably
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quasi-replaced
quasi-reported
quasi-represented
quasi-republican
quasi-required
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quasi-sincerely
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quasi-skillfully
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quasi-slanderously
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quasi-soberly
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quasi-socialistically
quasi-sovereign
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quasi-spherically
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quasi-spiritedly
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quasi-spiritually
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quasi-stellar object
quasi-stellar radio source
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quasi-strenuously
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quasi-studiously
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quasi-submissive
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quasi-systematically
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quasi-tangibly
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quasi-tolerantly
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quasi-universal
quasi-universally
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quasi-validly
quasi-valued
quasi-venerable
quasi-venerably
quasi-victorious
quasi-victoriously
quasi-violated
quasi-violent
quasi-violently
quasi-virtuous
quasi-virtuously
quasi-vital
quasi-vitally
quasi-vocational
quasi-vocationally
quasi-warfare
quasi-warranted
quasi-wealthy
quasi-whispered
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
quaternian algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
queen cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
queen regent
queen regnant
queen rod
queen shell
queen snake
queen staysail
queen stitch
queen substance
queen truss
queen's English
queen's birthday
queen's counsel
queen's evidence
queen's highway
queen's scout
queen's shilling
queen's ware
queen's wreath
queen-mother
queen-of-the-meadow
queen-of-the-prairie
queen-post
queen-post truss
queen-size bed
queens-ware
queer cuffin
queer duck
queer fish
queer in the head
queer potato
queer specimen
queer street
queer the works
queer-bashing
queer-eyed
queer-faced
queer-headed
queer-legged
queer-looking
queer-made
queer-notioned
queer-shaped
queer-spirited
queer-tempered
queer-tempered
queerqueer cuffin
queer-madam
quelque chose
quench hook
quenching bath
quenouille training
quercitron lake
quercitron oak
querulous person
query mark
quest after
question at issue
question before the house
question in your mind
question mark
question master
question of fact
question of law
question stop
question time
question-and-answer session
question-begging
question-mark
quetzal bird
queue up
queueing theory
qui s'excuse s'accuse
qui tam
qui transtulit sustinet
qui vive
qui-hi
qui-hy
quia-quia
quick as a wink
quick as lightning
quick as thought
quick assets
quick bread
quick ear
quick exit
quick fire
quick freezing
quick grass
quick hunch
quick inspection
quick kick
quick look
quick march
quick on the draw
quick on the trigger
quick on the uptake
quick one
quick parts
quick pull
quick sight
quick sighted
quick step
quick stick
quick temper
quick thinking
quick time
quick to take offense
quick trick
quick water
quick wit
quick-acting
quick-break switch
quick-burning
quick-change
quick-change artist
quick-coming
quick-compounded
quick-conceiving
quick-decaying
quick-designing
quick-devouring
quick-drawn
quick-eared
quick-fading
quick-falling
quick-fire
quick-firer
quick-firing
quick-flowing
quick-freeze
quick-freezer
quick-freezing
quick-froze
quick-frozen
quick-glancing
quick-gone
quick-growing
quick-guiding
quick-gushing
quick-handed
quick-laboring
quick-lunch
quick-lunch counter
quick-minded
quick-moving
quick-nosed
quick-paced
quick-piercing
quick-questioning
quick-raised
quick-returning
quick-rolling
quick-running
quick-saver
quick-scented
quick-scenting
quick-selling
quick-setting
quick-shifting
quick-shutting
quick-sighted
quick-sightedness
quick-speaking
quick-spirited
quick-spouting
quick-stepping
quick-talking
quick-tempered
quick-thinking
quick-thoughted
quick-thriving
quick-voiced
quick-winged
quick-witted
quick-wittedly
quick-wittedness
quick-wrought
quicken tree
quicken your pace
quickening grass
quickie strike
quickness to take offense
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quill bark
quill bit
quill drive
quill driver
quill driving
quill fern
quill fly
quill gear
quill nib
quill pen
quill pig
quill worts
quill-less
quill-like
quill-tailed
quillai bark
quillback carpsucker
quilting bee
quilting cotton
quin-
quince curculio
quince wine
quince yellow
quince-seed gum
quince-seed mucilage
quinhydrone electrode
quinic acid
quinine bush
quinine cherry
quinine flower
quinine herb
quinine plant
quinine tree
quinine water
quinnat salmon
quino-
quinaline dye
quinoline yellow
quinone diazide
quinone diimine
quinone oxime
quinova bitter
quinque-
quince-angle
quinque-angled
quinque-angular
quinque-annulate
quinque-articulate
quinsy woodruff
quint major
quint minor
quint-
quinti-
quintuple counterpoint
quintuple point
quintuple time
quintuple-nerved
quintuple-ribbed
quip at
quips and cranks
quirk bead
quirk molding
quit cold
quit of
quit the field
quit this world
quit yourself
quit-rent
quitch grass
quitclaim deed
quite a
quite a few
quite a little
quite a thing
quite another thing
quite rather
quite so
quite some
quite the contrary
quite the lady
quitter bone
quiver along the spine
quiver leg
quiver like a rabbit
quiver of terror
quiver tree
quixotic ideal
quiz kid
quiz show
quizzing glass
quizzing-glass
quo warranto
quoad hoc
quobosque-weed
quod erat demonstrandum
quod erat faciendum
quod vide
quoddy boat
quoin post
quota immigrant
quota system
quotation board
quotation book
quotation mark
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
race tool
race track
race week
race with
race with time
race your motor
race-begotten
race-course
race-horse
race-maintaining
race-murder
race-riding
race-running
race-track
race-wide
race-winning
racehorse grass
racemic acid
racemo-
racemose gland
rachi-
racial discrimination
racial immunity
racial memory
racial segregation
racial unconscious
racing car
racing crab
racing flag
racing form
racing gig
racing glass
racing iron
racing plate
racing saddle
racing shell
racing skate
racing skiff
racing stream
radar nacelle
radar navigation
radar nose
radar operation
radar parts
radar picket plane
radar pulse
radar reflector
radar scanner
radar screen
radar signal
radar speed meter
radar station
radar technician
radar telescope
radar tracking station
radar trap
radar-telephone relay
radial engine
radial motion
radial saw
radial symmetry
radial tire
radial triangulation
radial tyre
radial velocity
radial-flow turbine
radial-ply
radiant efficiency
radiant emittance
radiant energy
radiant exitance
radiant flux
radiant heat
radiant heater
radiant heating
radiant intensity
radiant point
radiant splendor
radiant-heat brooder
radiate cheer
radiate heat
radiate-veined
radiation atom
radiation belt
radiation counter
radiation counters and chambers
radiation fog
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiato-
radiato-undulate
radiator cap
radiator casing
radiator compound
radiator core
radiator foot
radiator gauge
radiator grille
radiator maker
radiator making
radiator tank
radiator valve
radical axis
radical change
radical chic
radical empiricism
radical empiricist
radical expression
radical operation
radical reform
radical right
radical rightism
radical sign
radical therapy
radici-
radio aerial
radio altimeter
radio amateur
radio antenna
radio astronomer
radio astronomy
radio audience
radio beacon
radio beam
radio bearing
radio broadcast
radio broadcasting
radio car
radio channel
radio circuit
radio communication
radio compass
radio compass station
radio control
radio detection and ranging
radio direction finder
radio drama
radio electrician
radio electronics
radio engineer
radio engineering
radio fare
radio field intensity
radio frequency
radio horizon
radio interference
radio interferometer
radio knife
radio link
radio links
radio listener
radio marker
radio mast
radio mirror
radio navigation
radio observatory
radio operator
radio play
radio program
radio proximity fuze
radio range
radio range beacon
radio range station
radio receiver
radio reception
radio relay station
radio room
radio set
radio shack
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rug fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rag-beating
rag-boiling
rag-bolt
rag-burn
rag-chew
rag-cutting
rag-fair
rag-made
rag-tag
rag-threshing
rag-time
rag-wheel
rage-crazed
rage-filled
rage-infuriate
rage-subduing
rage-swelling
rage-transported
ragged edge
ragged staff
raggle block
raggle-taggle
ragging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower
rain spot
rain suit
rain tadpoles
rain tree
rain water
rain wind rose
rain-awakened
rain-bearing
rain-beat
rain-beaten
rain-bird
rain-bitten
rain-bleared
rain-blue
rain-bright
rain-damped
rain-drenched
rain-driven
rain-dropping
rain-fowl
rain-fraught
rain-god
rain-gutted
rain-scented
rain-soaked
rain-sodden
rain-soft
rain-streaked
rain-swept
rain-threatening
rain-washed
rain-water
rain-water fish
rainbow bird
rainbow cactus
rainbow chaser
rainbow chasing
rainbow cordial
rainbow darter
rainbow fish
rainbow herring
rainbow moss
rainbow parrotfish
rainbow perch
rainbow runner
rainbow seaperch
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise animals
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'tre
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
ram-cat
ram-headed
ram-jam
ram-jet engine
ram-jet propulsion
ram-line
ram-rod
ramage hawk
ramble on
ramble-scramble
ramjet engine
rammed earth
ramp along
ramp valley
rampant arch
rampant will
ramper eel
ramrod-stiff
ran-tan
ranch company
ranch country
ranch economics
ranch hand
ranch house
ranch life
ranch owner
ranch rider
ranch wagon
rand machine
randall grass
random access
random access memory
random bond
random data
random line
random motion
random point
random sample
random sampling
random shot
random-jointed
range angle
range finder
range finding
range grass
range horse
range itself
range light
range line
range mark
range marker
range masonry
range of accommodation
range of meaning
range of view
range of vision
range out
range over
range paralysis
range pole
range rake
range rider
range stove
range table
range the coast
range the world
range through
range with
range wool
range yourself on the side of
range yourself with
range-bred
range-marker generator
range-sweep amplifier
range-sweep generator
ranging pole
rank and file
rank beneath
rank first
rank high
rank low
rank out
rank under
rank-and-filer
rank-brained
rank-feeding
rank-growing
rank-grown
rank-minded
rank-out
rank-scented
rank-scenting
rank-smelling
rank-springing
rank-swelling
rank-tasting
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rape butterfly
rape oil
rape wine
rapeseed oil
rapid eye movement
rapid fire
rapid glance
rapid recurrence
rapid slope
rapid succession
rapid transit
rapid-changing
rapid-fire
rapid-fire mount
rapid-firer
rapid-firing
rapid-flowing
rapid-flying
rapid-footed
rapid-mannered
rapid-passing
rapid-running
rash-brain
rash-brained
rash-conceived
rash-embraced
rash-headed
rash-hearted
rash-levied
rash-minded
rash-pledged
rash-running
rash-spoken
rash-thoughted
rasher of bacon
rasing iron
rasing knife
rasp grass
rasp house
rasp palm
rasp pod
raspberry apple
raspberry beetle
raspberry bug
raspberry curl
raspberry mosaic
raspberry red
raspberry root borer
raspberry root rot
raspberry sawfly
raspberry wine
raspberry yellows
raspberry-jam
rasphead rockfish
rat cheese
rat claw foot
rat flea
rat goose
rat hare
rat kangaroo
rat mite
rat mole
rat pineapple
rat poison
rat race
rat rhyme
rat snake
rat stop
rat tail
rat terrier
rat unit
rat's nest
rat's-tail
rat-a-tat
rat-bite fever
rat-catcher
rat-colored
rat-deserted
rat-eyed
rat-faced
rat-gnawed
rat-infested
rat-inhabited
rat-kangaroo
rat-kangaroos
rat-killing
rat-lin
rat-ridden
rat-riddled
rat-skin
rat-stripper
rat-tail
rat-tail cactus
rat-tail file
rat-tail spoon
rat-tailed
rat-tailed maggot
rat-tat
rat-tat-tat
rat-tattle
rat-tight
rat-trap
ratable value
ratafia biscuit
ratatat-tat
ratbite disease
ratbite fever
ratchet brace
ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
rate action
rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
rate-aided
rate-cutting
rate-fixing
rate-of-climb indicator
rate-raising
rate-setting
rated load
rathe-ripe
rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ration out
rational animal
rational calorie
rational faculty
rational form
rational function
rational ground
rational horizon
rational mechanics
rational number
rational psychology
rational theology
rational treatment
rational-emotive therapy
ratline down
ratline stuff
rato unit
rattail cactus
rattail comb
rattail fescue
rattail file
rattan vine
rattle around
rattle barrel
rattle grass
rattle on
rattle the windows
rattle-bush
rattle-head
rattle-pate
rattle-top
rattlesnake bean
rattlesnake fern
rattlesnake flag
rattlesnake grass
rattlesnake leaf
rattlesnake master
rattlesnake plantain
rattlesnake root
rattlesnake weed
rattlesnake-bite
rattley-bang
rattling pace
rattrap pedal
raucous happiness
raus mit dir
ravage with fire and sword
ravaged with age
ravages of time
rave about
rave against
rave hook
rave-up
ravel bread
ravel out
raven black
raven cockatoo
raven gray
raven standard
raven-black
raven-colored
raven-feathered
raven-haired
raven-plumed
raven-toned
raven-torn
raven-tressed
ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
raw comedy
raw data
raw deal
raw fibers
raw glaze
raw material
raw milk
raw nerve
raw nerves
raw recruit
raw score
raw sienna
raw silk
raw umber
raw vegetables
raw weather
raw wind
raw, the
raw-bone
raw-boned
raw-colored
raw-devouring
raw-edged
raw-faced
raw-handed
raw-head
raw-headed
raw-looking
raw-mouthed
raw-nosed
raw-pack method
raw-ribbed
raw-striped
raw-wool
ray filter
ray floret
ray flower
ray fungus
ray grass
ray gun
ray of hope
ray of light
ray of sunshine
ray pod
ray therapy
ray-fringed
ray-gilt
ray-girt
ray-grass
ray-illumined
ray-lit
ray-strewn
rayless goldenrod
rayon casheen
rayon stockings
raze to the dust
raze to the ground
raze plane
raison bomb
razor blade
razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
razor-back
razor-backed
razor-bill
razor-billed
razor-billed auk
razor-bladed
razor-bowed
razor-cut
razor-edge
razor-edged
razor-fish
razor-grinder
razor-keen
razor-leaved
razor-shaped
razor-sharp
razor-sharpening
razor-shell
razor-tongued
razor-weaponed
razor-witted
razzle-dazzle
re-
re-act
re-ally
re-book
re-buff
re-cede
re-claim
re-co-operate
re-co-operation
re-cognition
re-cognitional
re-coil
re-coilre-collect
re-collect
re-collection
re-commend
re-cord
re-count
re-cover
re-create
re-created
re-creating
re-creation
re-creative
re-creator
re-derive
re-desert
re-do
re-dress
re-earn
re-ebullient
re-echo
re-edificate
re-edification
re-edifier
re-edify
re-edit
re-educate
re-education
re-educative
re-effeminate
re-egg
re-ejaculate
re-eject
re-ejection
re-ejectment
re-elaborate
re-elaboration
re-elect
re-election
re-elevate
re-elevation
re-eligibility
re-eligible
re-eliminate
re-elimination
re-emanate
re-embark
re-embarkation
re-embarrass
re-embarrassment
re-embattle
re-embed
re-embellish
re-embodiment
re-embody
re-embosom
re-embrace
re-embracement
re-embroil
re-emerge
re-emergence
re-emergent
re-emersion
re-emigrant
re-emigrate
re-emigration
re-emission
re-emit
re-emphasis
re-emphasize
re-employ
re-employment
re-empower
re-empty
re-emulsify
re-enable
re-enact
re-enaction
re-enactment
re-enamel
re-enamor
re-enamour
re-enchain
re-enclose
re-enclosure
re-encounter
re-encourage
re-encouragement
re-endear
re-endearment
re-ender
re-endorse
re-endorsement
re-endow
re-endowment
re-energize
re-enfeoff
re-enfeoffment
re-enforce
re-enforcement
re-enforcer
re-enfranchise
re-enfranchisement
re-engage
re-engagement
re-engender
re-engenderer
re-engine
re-engraft
re-engrave
re-engraving
re-engross
re-enhearten
re-enjoin
re-enjoy
re-enjoyment
re-enkindle
re-enlarge
re-enlargement
re-enlighten
re-enlightenment
re-enlist
re-enlister
re-enlistment
re-enliven
re-ennoble
re-enroll
re-enrollment
re-enshrine
re-enslave
re-enslavement
re-ensphere
re-enter
re-entering
re-entering angle
re-entertain
re-entertainment
re-enthral
re-enthron
re-enthronement
re-enthronize
re-entice
re-entitle
re-entoil
re-entomb
re-entrain
re-entrance
re-entrancy
re-entrant
re-entrant angle
re-entrenchment
re-entry
re-entry card
re-enumerate
re-enumeration
re-enunciate
re-enunciation
re-epitomize
re-equilibrate
re-equilibration
re-equip
re-equipment
re-erect
re-erection
re-escape
re-escort
re-esposual
re-esposue
re-essay
re-establish
re-establisher
re-establishment
re-esteem
re-estimate
re-estimation
re-etch
re-etcher
re-evacuate
re-evacuation
re-evade
re-evaluate
re-evaluation
re-evaporate
re-evaporation
re-evasion
re-evoke
re-evolution
re-exalt
re-examinable
re-examination
re-examine
re-examiner
re-excavate
re-excavation
re-excel
re-exchange
re-excitation
re-excite
re-exclude
re-exclusion
re-execute
re-execution
re-exempt
re-exemption
re-exercise
re-exert
re-exertion
re-exhale
re-exhaust
re-exhibit
re-exhibition
re-exhilarate
re-exhilaration
re-exist
re-existence
re-existent
re-expand
re-expansion
re-expect
re-expectation
re-expedite
re-expedition
re-expel
re-experience
re-experiment
re-explain
re-explanation
re-export
re-exportation
re-exporter
re-expose
re-exposure
re-expound
re-express
re-expression
re-expulsion
re-extend
re-extension
re-extent
re-extract
re-extraction
re-form
re-formation
re-formative
re-former
re-fund
re-genesis
re-ice
re-ink
re-laid
re-lay
re-laying
re-lease
re-leased
re-leasing
re-mark
re-pose
re-posed
re-posing
re-present
re-presentation
re-presentment
re-press
re-proof
re-prove
re-proved
re-proven
re-proving
re-reaction
re-rebel
re-receive
re-reception
re-recital
re-recite
re-reckon
re-recognition
re-recognize
re-recollect
re-recollection
re-recommend
re-recommendation
re-reconcile
re-reconciliation
re-record
re-recover
re-rectification
re-rectify
re-reduce
re-reduction
re-refer
re-refine
re-reflect
re-reflection
re-reform
re-reformentation
re-refusal
re-refuse
re-regenerate
re-regeneration
re-rehearsal
re-rehearse
re-reiterate
re-reiteration
re-reject
re-rejection
re-rejoinder
re-relate
re-relation
re-release
re-relish
re-rely
re-remember
re-remind
re-remit
re-removal
re-remove
re-rendition
re-repair
re-repeat
re-repent
re-replevin
re-reply
re-report
re-represent
re-representation
re-reproach
re-request
re-treatment
re-trench
re-try
re-turn
re-up
re-use
reach a better land
reach a better life
reach a better place
reach a better world
reach a compromise
reach a new low
reach a parting of the ways
reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
reach-me-down
reach-me-downs
reacher-in
reaching foresail
reaching high
reaching jib
reaching post
react chemically
ready-coined
ready-cooked
ready-cut
ready-dressed
ready-for-wear
ready-formed
ready-furnished
ready-grown
ready-handed
ready-made
ready-mades
ready-mix
ready-mixed
ready-mounted
ready-penned
ready-prepared
ready-reference
ready-sanded
ready-sensitized
ready-shapen
ready-starched
ready-to-wear
ready-tongued
ready-typed
ready-winged
ready-witted
ready-wittedly
ready-wittedness
ready-worded
ready-written
reagent bottle
real McCoy, the
real axis
real estate
real estate agent
real estate broker
real income
real issue
real lady
real man
real meaning
real number
real part
real presence
real property
real scholar
real school
real tennis
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-
rear-admiral
rear-arch
rear-cut
rear-directed
rear-driven
rear-driving
rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
rearing bit
rearview mirror
reason about
reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebek clover
rebel yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalcsence point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
receive Christ
receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
reciprocal pronoun
reciprocal trade
reciprocal transfusion
reciprocating engine
reciprocity failure
reciprocity law
recitation room
recitativi accompagnati
recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
recite the rosary
reciting note
reciting the rosary
reckless expenditure
reckless person
reckless spending
reckon among
reckon in
reckon on
reckon up
reckon up to
reckon with
reckon without your host
reclaimed rubber
reclamation district
recline on
reclining chair
reclining lounge chair
recognition mark
recoil atom
recoil cylinder
recoil electron
recoil escapement
recoil wave
recoilless rifle
recommend itself
recommended price
reconcile yourself to
reconnaissance car
reconnaissance mission
reconnaissance plane
reconnaissance rocket
reconnaissance ship
reconstructive operation
reconstructive surgery
record book
record changer
record clerk
record holder
record hop
record keeping
record player
record ribbon
record time
record vote
record-bearing
record-beating
record-breaking
record-changer
record-making
record-player
record-seeking
record-setting
recorded delivery
recording altimeter
recording analyzer
recording anemometer
recording angel
recording barometer
recording hygrometer
recording instrument
recording instruments
recording meter
recording potentiometer
recording pyrometer
recording secretary
records-pulse generator
recover health
recover knowledge of
recover one's equilibrium
recover your balance
recover your equilibrium
recover your sanity
recovery coke
recovery oven
recovery peg
recovery room
recreation ground
recreation room
recreational therapy
recruit your strength
recruiting ground
rect-
rectangular coordinate
rectangular coordinates
rectangular data
rectangular hyperbola
rectangular number
recti-
rectifier circuit
rectifier instrument
rectifier tube
rectilinear number
recto-
recto-urethral
recto-uterine
rectovesical fascia
rectus abdominus
rectus femoris
recumbent anticline
recuperative furnace
recur to
recur to the mind
recurrence formula
recurrent fever
recurring action
recurring decimal
recursion formula
recurvo-
red admiral
red alder
red alert
red alga
red algae
red ant
red as a beet
red ensign
red false mallow
red feed
red fescue
red fir
red fire
red fish
red flag
red flash
red flour beetle
red fox
red giant
red giant star
red grouse
red gum
red hand
red hands
red hat
red heat
red herring
red hind
red horse
red horse chestnut
red in the face
red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
red letter
red light
red line
red liquor
red maids
red man
red maple
red mass
red meat
red mercuric oxide
red mercuric sulfide
red mombin
red mulberry
red mullet
red oak
red ocher
red ochre
red orpiment
red osier
red packet
red pepper
red periwinkle
red pine
red pink
red poll
red prussiate of potash
red puccoon
red race
red rag
red rag to a bull
red rat snake
red ribbon
red robin
red roncador
red rose
red rot
red rover
red rust
red sable
red sage
red salmon
red sand
red setter
red shank
red shanks
red shift
red sindhi
red siskin
red snapper
red snow
red spider
red squill
red squirrel
red stuff
red tai
red tape
red tide
red tipped moss
red trillium
red turtlehead
red valerian
red water
red whortleberry
red wine
red worm
red zinc ore
red, white, and blue
red-alder
red-armed
red-backed
red-backed sandpiper
red-backed shrike
red-bait
red-baiting
red-banded
red-bar
red-barked
red-beaded
red-beaked
red-beamed
red-bearded
red-bellied
red-bellied turtle
red-belted
red-berried
red-billed
red-black
red-blind
red-blooded
red-bloodedness
red-bodied
red-boled
red-bonnet
red-bound
red-branched
red-branching
red-breasted
red-brick
red-brick university
red-brown
red-burning
red-buttoned
red-carpet
red-cheeked
red-chested
red-ciled
red-ciling
red-cilled
red-clad
red-clay
red-cloaked
red-clocked
red-coat
red-coated
red-cockaded
red-collared
red-colored
red-combed
red-complexioned
red-crested
red-crowned
red-curtained
red-dabbled
red-dog
red-dogged
red-dogger
red-dogging
red-dyed
red-eared
red-edged
red-eye
red-eyed
red-eyed vireo
red-faced
red-facedly
red-facedness
red-feathered
red-figure
red-figured
red-finned
red-flag
red-flag law
red-flagger
red-flaggery
red-flanked
red-flecked
red-fleshed
red-flowered
red-flowering
red-footed
red-fronted
red-fruitied
red-gemmed
red-gilled
red-girdled
red-gleaming
red-gold
red-gowned
red-gownedred-green blind
red-green blind
red-green blindness
red-haired
red-hand
red-handed
red-handedly
red-handedness
red-hard
red-harden
red-hardness
red-hat
red-hatted
red-head
red-headed
red-headed woodpecker
red-heel
red-herring prospectus
red-hipped
red-hissing
red-hooded
red-horned
red-hot
red-hot poker
red-hued
red-humped
red-ink
red-jerseyed
red-kneed
red-knobbed
red-lead
red-lead ore
red-lead putty
red-leader
red-leaf
red-leather
red-leaved
red-legged
red-legged partridge
red-legs
red-letter
red-letter day
red-lettered
red-lidded
red-light
red-light district
red-lined
red-lipped
red-listed
red-lit
red-litten
red-looking
red-making
red-minded
red-mouthed
red-naped
red-neck
red-necked
red-nosed
red-orange
red-out
red-painted
red-pencil
red-plowed
red-plumed
red-polled
red-purple
red-ribbed
red-rimmed
red-ripening
red-roan
red-roofed
red-rooted
red-rose
red-rumped
red-rusted
red-scaled
red-scarlet
red-shafted
red-shank
red-shirted
red-short
red-shortness
red-shouldered
red-shouldered hawk
red-sided
red-silk
red-skinned
red-snoooded
red-specked
red-speckled
red-spotted
red-spotted purple
red-stalked
red-streak
red-streaked
red-streaming
red-swelling
red-tailed
red-tailed hawk
red-tape
red-taped
red-tapedom
red-tapeism
red-taper
red-tapery
red-tapey
red-tapish
red-tapism
red-tapist
red-tempered
red-thighed
red-throat
red-throated
red-tiled
red-tinted
red-tipped
red-tongued
red-top
red-topped
red-topped buffalo grass
red-trouserred
red-tufted
red-twiggled
red-up
red-upholstered
red-veined
red-vented
red-vested
red-violet
red-walled
red-wat
red-water
red-wattled
red-waved
red-white
red-winged
red-winged blackbird
red-wooded
red-written
red-yellow
redback spider
redbelly dace
reduction to elements
reduction to parts
reduction to powder
reduction works
reduction-improbation
redundant check
redundant verb
redwing blackbird
reed basket
reed bent
reed bunting
reed canary grass
reed fescue
reed grass
reed green
reed instrument
reed mace
reed mark
reed meadow grass
reed organ
reed pipe
reed plane
reed stop
reed thrush
reed warbler
reed wren
reed yellow
reed-back
reed-blade
reed-bordered
reed-clad
reed-compacted
reed-crowned
reed-grown
reed-mace
reed-rond
reed-roofed
reed-rustling
reed-shaped
reed-thatched
reed-warbler
reef band
reef cringle
reef down
reef earing
reef goose
reef hook
reef jig
reef jigger
reef knot
reef pendant
reef point
reef tackle
reef your sails
reef-knoll
reef-knot
reefed sail
reefing bowsprit
reefing jacket
reek of piety
reel and bead
reel back
reel borer
reel foot
reel in
reel man
reel off
reel oven
reel-fed
reel-fitted
reel-footed
reel-to-reel
reeled silk
reeling hammer
reemng beetle
reeming iron
reentering angle
reentering polygon
reeving-line bend
refectory table
refer to
reference book
reference editor
reference electrode
reference frame
reference gauge
reference group
reference librarian
reference library
reference mark
reference marks
reference peg
reference quantity
reference system
reference to
reference-voltage generator
refractive index
refractory brick
refractory clay
refractory ware
refrain from
refresh the inner man
refresh the memory
refresh the memory of
refresher course
refrigerating engine
refrigerating engineer
refrigerating engineering
refrigerating machine
refrigerating plant
refrigeration anesthesia
refrigeration ship
refrigerator car
refrigerator truck
refund annuity
refunding bond
refusal to be amazed
refusal to be awed
refusal to be impressed
refusal to believe
refuse comment
refuse consent
refuse credence to
refuse credit to
refuse destructor
refuse heap
refuse lac
refuse point-blank
refuse stays
refuse summarily
refuse to accept
refuse to acknowledge
refuse to admit
refuse to associate with
refuse to be impressed
refuse to believe
refuse to consider
refuse to cooperate
refuse to credit
refuse to pay
refuse to receive
refuse to recognize
refuse to shed blood
refuse work
rehearse in extenso
reheat the ashes
reheating furnace
rei persecutoria
rei-ntrant
reign of Saturn
reign of St
reign of terror
reigning beauty
reim-kennar
rein in
rein orchis
reindeer flower
reindeer lichen
reindeer moss
reindeer pest
reinforced bow
reinforced concrete
reins of government
reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller's market
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
relative by marriage
relative clause
relative complement
relative density
relative dispersion
relative electron affinity
relative frequency
reliability coefficient
reliance in
reliance on
relic area
relic of the past
relic-covered
relic-vending
relief etching
relief frame
relief map
relief method
relief motion
relief pallet
relief payments
relief pitcher
relief printing
relief ship
relief tube
relief valve
relief well
relief-carving
relieve the mind of
relieve you of
relieve your mind
relieve yourself
relieving arch
relieving tackle
religio-
religio-educational
religio-magical
religio-military
religio-philosophical
religio-political
religio-scientific
religions and sects
religious belief
religious believer
religious ceremony
religious discourse
religious education
religious faith
religious founder
religious house
religious humbug
religious hypocrite
religious leader
religious order
religious prophets
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham's bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
repeat by heart
repeat by rote
repeat like a broken record
repeat like a parrot
repeat order
repeat performance
repeat verbatim
repeat word for word
repeat yourself
repeated figure
repeated sounds
repeating decimal
repeating firearm
repeating theodolite
repeating watch
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsive report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrection-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverbatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reversed feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
reversing switch
reversing thermometer
reversion duty
reversion pendulum
reversion spectroscopy
reversionary annuity
revert to
review copy
review in retrospect
review of things past
revise your thoughts
revised edition
revised standard version
revised version
revival meeting
revolt at
revolting with
revolting with endured
revolution control
revolutionary calendar
revolutionary junta
revolutionary war
revolutions per minute
revolve in the mind
revolve on
revolve upon
revolving bookcase
revolving bookstand
revolving credit
revolving door
revolving fund
revolving lever
revolving on
revolving stage
revolving-jaw box chuck
revolving-jaw chuck
rewa-rewa
reward claim
reworked wool
rewrite man
rewrite rule
rex begonia
rez-de-chaussee
rh factor
rh-negative
rh-positive
rhabdo-
rhaeto-romanic
rheims version
rhein-berry
rheo-
rhesus baby
rhesus factor
rhesus monkey
rhetorical accent
rhetorical question
rhetorical stress
rheumatic disease
rheumatic fever
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumato-
rheumatoid arthritis
rhin-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhiz-
rhizo-
rhizoctonia disease
rhizosphere effect
rho particle
rhod-
rhode island bent
rhode island red
rhode island white
rhodes grass
rhodes scholar
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhomboid-ovate
rhubarb wine
rhumb line
rhumbline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
rhylolite-porphyr
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
ribbon microphone
ribbon movement
ribbon of light
ribbon park
ribbon rock
ribbon saw
ribbon snake
ribbon strip
ribbon tree
ribbon winder
ribbon wire
ribbon worm
ribbon-bedizened
ribbon-bordering
ribbon-bound
ribbon-fish
ribbon-grass
ribbon-marked
ribbon-shaped
ribonucleic acid
ribosomal RNA
rice body
rice boiler
rice bowl
rice bran
rice bug
rice christian
rice cleaner
rice coal
rice cousin
rice cut-grass
rice drier
rice dust
rice eater
rice field
rice flour
rice flower
rice glue
rice grader
rice grass
rice grinder
rice grower
rice hen
rice huller
rice milk
rice mill
rice miller
rice mouse
rice paddy
rice paper
rice planter
rice polish
rice polisher
rice polishings
rice powder
rice rat
rice shell
rice tenrec
rice water
rice weevil
rice wine
rice-bird
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-appareled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeced
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
richel bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
rietal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
rider embolus
rider keelson
ridge beam
ridge buster
ridge fillet
ridge harrow
ridge oak
ridge plow
ridge rib
ridge rope
ridge runner
ridge stone
ridge strut
ridge tile
ridge-bone
ridge-seeded
ridge-tile
ridging grass
ridging plow
ridicule-proof
ridiculously like
riding academy
riding at anchor
riding boot
riding boots
riding breeches
riding crop
riding habit
riding hood
riding horse
riding lamp
riding light
riding master
riding on cloud nine
riding pants
riding rhyme
riding saddle
riding sail
riding school
riding-coat
riding-habit
riding-hood
rie grass
riemannian geometry
rien du tout
rien ne va plus
riff through
riff-raff
riffle bar
riffle block
riffle file
riffle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
rifty-tufty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right side of the tracks
right side of, the
right smart
right smart spell
right sort
right stage
right standard rudder
right taste
right ten degrees rudder
right thing, the
right thinking
right to vote
right triangle
right whale
right wing
right with
right you are
right-about
right-about-face
right-aiming
right-angle
right-angled
right-angled triangle
right-angledness
right-angular
right-angularity
right-away
right-bank
right-believed
right-believing
right-born
right-bout
right-brained
right-bred
right-center
right-central
right-down
right-drawn
right-earred
right-eyed
right-eyedness
right-footed
right-footer
right-forward
right-framed
right-hand
right-hand man
right-hand side
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
rime riche
rime suffisante
rime-covered
rime-damp
rime-frost
rime-frosted
rime-laden
rimes riches
ring nebula
ring necrosis
ring of the nibelung
ring off
ring oiler
ring on the air
ring out
ring ouzel
ring peals
ring pin
ring road
ring rope
ring rot
ring screw
ring seizing
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praises of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
ring-billed duck
ring-billed gull
ring-bone
ring-bored
ring-bound
ring-chain isomerism
ring-chain tautomerism
ring-dove
ring-dyke
ring-eyed
ring-fence
ring-finger
ring-formed
ring-handled
ring-in
ring-legged
ring-man
ring-neck
ring-necked
ring-necked duck
ring-necked pheasant
ring-off
ring-oil
ring-porous
ring-ridden
ring-shaped
ring-shout
ring-small
ring-spinning frame
ring-straked
ring-streaked
ring-tailed
ring-tailed cat
ring-up
ringed about
ringed plain
ringed plover
ringed snake
ringing spindrift
ringing tone
ringside seat
ringtail topsail
ringworm bush
rink polo
rinka fadda
rinse out
riot act
riot away
riot gun
riot in
riot of color
riot of colors
riot police
riot squad
riotous living
rip apart
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-cheeked
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
ripen into
riper years
ripper act
ripping bar
ripping chisel
ripping iron
ripping out
ripping panel
rising terminal
rising trot
rising vote
risk assuming
risk capital
risk premium
risk stating
risk your life
risus sardonicus
rite de passage
rite of confession
rite of intensification
rite of passage
ritual contamination
ritual impurity
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleanness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritz it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
river deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanched
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
rivet pitch
rivet set
rivet snap
rivet steel
rivet the eyes upon
rivet the mind on
rivet the thoughts on
rivet weld
rivet wheat
rivet your attention
riveting hammer
riveting knob
riveting stake
riving knife
riving machine
rix-dollar
rk-up
roach back
roach paste
roach powder
roach-back
roach-backed
roach-bellied
roach-bent
road agent
road binder
road book
road builder
road building
road cart
road compound
road contractor
road donkey
road drag
road fettler
road gang
road grader
road guard
road harrow
road hog
road horse
road layer
road maker
road making
road map
road mender
road metal
road monkey
road oil
road pen
road plow
road race
road racer
road racing
road rash
road repairer
road roller
road runner
road scraper
road show
road sign
road tar
road test
road train
road wagon
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
roasting ear
roasting hot
roasting jack
rob Peter to pay Paul
rob roy
rob the cradle
rob you of ease
rob you of rest
rob you of sleep
rob you of your illusions
robbed of
robbed of illusion
robber bee
robber crab
robber fly
robber frog
robbers' roost
robbery insurance
robe de chambre
robe of royalty
robe of state
robe-de-chambre
robes-de-chambre
robin accentor
robin chat
robin dipper
robin goodfellow
robin hood
robin redbreast
robin runaway
robin sandpiper
robin snipe
robin's-egg blue
robing room
robinson crusoe
robot bomb
robot control
robot factory
robot pilot
robot plane
robot satellite
robot specialist
robot submarine
robot system
robot-control
robust health
roche alum
roche lime
roche moutonn
roche moutonnee
rochelle powders
rochelle salt
roching cask
rock 'n' roll
rock alyssum
rock and roll
rock and rye
rock barnacle
rock basin
rock bass
rock beauty
rock blenny
rock bottom
rock brake
rock breaker
rock burst
rock cake
rock candy
rock climber
rock cod
rock cornish
rock crab
rock cress
rock crusher
rock crystal
rock cycle
rock dove
rock drill
rock driller
rock eel
rock elm
rock face
rock fern
rock festival
rock flint
rock flour
rock flower
rock garden
rock gardener
rock gardening
rock glacier
rock goat
rock goldenrod
rock grouse
rock gunnel
rock gypsum
rock hind
rock hole
rock hopper
rock hopping
rock hound
rock hyrax
rock jasmine
rock lever
rock lily
rock lobster
rock maple
rock melon
rock milk
rock moss
rock music
rock oak
rock oil
rock oyster
rock painting
rock phosphate
rock pigeon
rock pile
rock plant
rock pressure
rock rabbit
rock salmon
rock salt
rock samphire
rock saw
rock saxifrage
rock seal
rock shelter
rock singer
rock snake
rock sparrow
rock spleenwort
rock spray
rock squirrel
rock the boat
rock the sky
rock thrush
rock to sleep
rock tripe
rock trout
rock violet
rock vole
rock wallaby
rock whiting
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-climb
rock-climber
rock-climbing
rock-concealed
rock-covered
rock-crested
rock-crushing
rock-cut
rock-drilling
rock-dusted
rock-dwelling
rock-eel
rock-embosomed
rock-encircled
rock-encumbered
rock-enthroned
rock-faced
rock-fallen
rock-fast
rock-fill
rock-fill dam
rock-firm
rock-firmed
rock-fish
rock-forming
rock-free
rock-frequenting
rock-girded
rock-girt
rock-hard
rock-hewn
rock-inhabiting
rock-loving
rocket harpoon
rocket laboratory
rocket larkspur
rocket launcher
rocket launching
rocket man
rocket motor
rocket pilot
rocket plane
rocket power
rocket program
rocket project
rocket propulsion
rocket research
rocket salad
rocket science
rocket scientist
rocket ship
rocket sled
rocket society
rocket technician
rocket technology
rocket testing
rocket to the moon
rocket torpedo
rocket-borne
rocket-firing plane
rocket-propelled
rocketing up
rocking bed
rocking chair
rocking horse
rocking rhythm
rocking stone
rocking valve
rocks ahead
rockweed bird
rocky mountain sheep
rocky mountain spotted fever
rod adaptation
rod and reel
rod bayonet
rod bolt
rod breaker
rod epithelium
rod fiber
rod granule
rod mill
rod of empire
rod of office
rod peeler
rod rigging
rod vision
rod-bending
rod-boring
rod-caught
rod-cone theory
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
rode goose
rodent operative
rodent ulcer
roe deer
roe-deer
roebuck berry
roentgen equivalent man
roentgen ray
roentgen ray therapy
roentgen-ray cancer
roentgeno-
rogation day
roger de coverley
rogue elephant
rogue's badge
rogue's march
rogue's yarn
rogues' gallery
rohr flute
roister-doister
roister-doisterly
role-player
role-playing
roll about
roll and fillet molding
roll around
roll back
roll call
roll cloud
roll film
roll flat
roll in
roll in the dust
roll in the lap of luxury
roll in wealth
roll into one
roll lathe
roll logs
roll of coins
roll of honour
roll of the dead
roll of the wheel
roll on
roll on the ground
roll on the tongue
roll out
roll over
roll over and play dead
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-top
rolling barrage
rolling bunt
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitches
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-poliness
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
romance-empurpled
romance-hallowed
romance-inspiring
romance-making
romance-writing
romano-
romantic bond
romantic comedy
romantic melancholy
romantic tie
romantic tragedy
romantico-heroic
romantico-robustious
rome-penny
rome-scot
romp home
romp through
rond de jambe
rondeau redouble
rondo form
ronds de jambe
rood altar
rood arch
rood beam
rood cloth
rood goose
rood ladder
rood loft
rood screen
rood spire
rood stair
rood stairs
rood steeple
rood tower
rood-day
roof beam
roof board
roof bracket
roof cover
roof covering
roof dome
roof door
roof fixer
roof garden
roof gardener
roof guard
roof high
roof in
roof iris
roof line
roof nucleus
roof over
roof over your head
roof plate
roof prism
roof rack
roof rat
roof ridge
roof thatch
roof tile
roof truss
roof-blockaded
roof-building
roof-climbing
roof-deck
roof-draining
roof-dwelling
roof-gardening
roof-haunting
roof-reaching
roof-shaped
roof-tree
roofed-in
roofed-over
roofing nail
roofing paper
roofing tile
rook-coated
rockety-coo
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
rope maker
rope molding
rope of sand
rope off
rope race
rope railway
rope shoes
rope socket
rope spinner
rope stitch
rope twine
rope yarn
rope's end
rope-band
rope-bound
rope-closing
rope-dancer
rope-driven
rope-driving
rope-end
rope-fastened
rope-girt
rope-laying
rope-muscled
rope-pulling
rope-reeved
rope-shod
rope-sight
rope-spinning
rope-stock
rope-stropped
rope-work
rope-yarn
rope-yarn knot
roped off
roping horse
roping palm
ropy lava
rory-cum-tory
rory-tory
ros solis
rosa solis
rosa solises
rosary pea
rosary plant
rosary ring
rosary shell
rose acacia
rose stitch
rose tickseed
rose water
rose weevil
rose willow
rose window
rose wine
rose worm
rose-a-ruby
rose-apple
rose-back
rose-bay
rose-bellied
rose-blue
rose-breasted
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-cheeked
rose-clad
rose-color
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-headed
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-ringed
rose-root
rose-scented
rose-shell reamer
rose-slug
rose-sweet
rose-tinged
rose-tinted
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
rosdeo-
rosetta stone
rosetta wood
rosetta-wood
rosette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-cheeked
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger'd morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rotating prism
rotating spit
rotation axis
rotation band
rotation of axes
rotation pool
rotation-inversion axis
rotational motion
rote learning
rote memory
rote song
rother nail
roto section
rotogravure press
rotor cloud
rotor motor
rotor plane
rotor ship
rott goose
rotten at
rotten at the core
rotten borough
rotten break
rotten egg
rotten humor
rotten ice
rotten luck
rotten row
rotten smell
rotten stop
rotten to the core
rotten-dry
rotten-egg
rotten-hearted
rotten-heartedly
rotten-heartedness
rotten-minded
rotten-planked
rotten-red
rotten-rich
rotten-ripe
rotten-stone
rotten-throated
rotten-timbered
rotundi-
rotundo-
rotundo-ovate
rouge et noir
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
rough it
rough leaf
rough loader
rough log
rough measure
rough out
rough outline
rough passage
rough puff pastry
rough sea
rough sketch
rough spot
rough stuff
rough surface
rough trade
rough turner
rough up
rough usage
rough water
rough weather
rough wine
rough woodbine
rough-and-readiness
rough-and-ready
rough-and-tumble
rough-backed
rough-barked
rough-bearded
rough-bedded
rough-billed
rough-blustering
rough-board
rough-bordered
rough-cast
rough-cheeked
rough-clad
rough-clanking
rough-coat
rough-coated
rough-cut
rough-draw
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruitied
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-haired
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbed
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-legged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plain
rough-plane
rough-plastered  
rough-plow  
rough-plumed  
rough-podded  
rough-point  
rough-ream  
rough-reddened  
rough-rider  
rough-ridged  
rough-roll  
rough-sawn  
rough-scaled  
rough-seeded  
rough-shape  
rough-sketch  
rough-skinned  
rough-spirited  
rough-spoken  
rough-square  
rough-stalked  
rough-stemmed  
rough-stone  
rough-stringed  
rough-surfaced  
rough-swelling  
rough-tailed  
rough-tanned  
rough-tasted  
rough-textured  
rough-thicketed  
rough-toned  
rough-tongued  
rough-toothed  
rough-tree  
rough-tree rail  
rough-turn  
rough-turned  
rough-voiced  
rough-walled  
rough-weather  
rough-winged  
rough-winged swallow  
rough-write  
rougher-down  
rougher-out  
rougher-up  
roughing mill  
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round dancing
round down
round hand
round heart
round herring
round in
round kumquat
round lot
round number
round of applause
round of beef
round of drinks
round of pleasure
round of pleasures
round of visits
round off
round on
round out
round pace
round robin
round scale
round seizing
round shot
round steak
round sum
round table
round the bend
round the clock
round to
round top
round tower
round trade
round transaction
round trip
round turn
round turn and half hitch
round turn in the hawse
round up
round whitefish
round window
round-about-face
round-arch
round-arched
round-arm
round-arm blow
round-armed
round-backed
round-barreled
round-bellied
round-beset
round-billed
round-blazing
round-bodied
round-boned
round-bottomed
round-bowed
round-bowled
round-built
round-cell sarcoma
round-celled
round-cornered
round-crested
round-dancer
round-eared
round-edge
round-edged
round-end
round-eyed
round-faced
round-fenced
round-footed
round-fruited
round-furrowed
round-hand
round-handed
round-headed
round-heart
round-hoofed
round-horned
round-house
round-leafed
round-leaved
round-leaved dogwood
round-limbed
round-lipped
round-lobed
round-made
round-mouthed
round-nosed
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-ovate
roundish-shaped
roundnose chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
route marker
route nationale
route order
route step
route survey
router patch
router plane
routing plane
rove beetle
rove iron
rove punch
rove-beetle
rove-over
rover ball
roving commission
roving iron
row away
row crop
row culture
row dry
row galley
row house
row of buttons
row of pins
row over
row vector
row-barge
row-boat
row-de-dow
row-dow-dow
row-off
row-port
rowan tree
rowan-tree
rowdy-dowdy
rowed of all
rowing boat
rowing crew
rowing machine
rowing port
rowlock arch
royal Canadian
royal antler
royal assent
royal authority
royal blue
royal coachman
royal colony
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
royal mast
royal oak
royal palm
royal pendulum
royal personage
royal pink
royal poinciana
royal prerogative
royal purple
royal quarto
royal red
royal road
royal seat
royal stag
royal standard
royal tennis
royal warrant
royal water lily
royal-born
royal-chartered
royal-hearted
royal-rich
rubber plant
rubber plate
rubber shoes
rubber snake
rubber spreader
rubber stamp
rubber tissue
rubber tree
rubber varnisher
rubber vine
rubber-base paint
rubber-block print
rubber-coated
rubber-collecting
rubber-cored
rubber-covered
rubber-cutting
rubber-down
rubber-faced
rubber-growing
rubber-headed
rubber-lined
rubber-mixing
rubber-off
rubber-producing
rubber-proofed
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
ruby blende
ruby copper
ruby fly
ruby glass
ruby grass
ruby pin
ruby port
ruby red
ruby roller
ruby silver
ruby spaniel
ruby spinel
ruby sulphur
ruby wood
ruby zinc
ruby-berried
ruby-budded
ruby-circled
ruby-colored
ruby-crested
ruby-crowned
ruby-crowned kinglet
ruby-eyed
ruby-faced
ruby-headed
ruby-hued
ruby-lipped
ruby-lustered
ruby-necked
ruby-red
ruby-set
ruby-studded
ruby-throated
ruby-throated hummingbird
ruby-tinctured
ruby-tinted
ruby-toned
ruby-visaged
ruck up
rudder amidships
rudder angle
rudder band
rudder bar
rudder brake
rudder chain
rudder coat
rudder crosshead
rudder fish
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spoken-rude-spun
rude-spun
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruffy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-browed
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rufous-toed
rufous-vented
rufous-winged
rufous-yellow
rufet hood
rufet-hood
rufy-tuffy
rug designer
rump steak
rump-fed
rumpled feathers
rumpus room
run a chance
run a comparison
run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about
run-around
run-down
run-down neighborhood
run-in
run-of-mill
run-of-mine
run-of-paper
run-of-the-mill
run-of-the-mine
run-on
run-on sentence
run-out
run-over
run-through
run-up
runaround, the
runaway ship
runaway shop
runaway victory
runcible spoon
rune-bearing
rune-inscribed
rune-staff
rune-stave
rune-stone
rung of the ladder
runic alphabet
runic character
runic symbol
runic verse
runner and tackle
runner bean
runner foot
runner peanut
runner stick
runner tackle
runner-up
runners-up
running English
running account
running away
running board
running bond
running bowsprit
running broad jump
running commentary
running dive
running dog
running down
running engagement
running fight
running fire
running fit
running for office
running free
running gaff
running gate
running gear
running hand
running head
running high jump
running in
running in the blood
running in the race
running in the strain
running jump
running knot
running light
running livestock
running mad
running martingale
running mate
running myrtle
running noose
running out of time
running over
running pine
running rhythm
running rigging
running sore
running start
running stitch
running story
running text
running title
running track
running water
running wild
running-birch
running-down clause
running-out fire
running-out of the sands
runo-
runoff election
rush-bottomed
rush-candle
rush-floored
rush-fringed
rush-girt
rush-grown
rush-hour
rush-leaved
rush-like
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sacr-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle ox
saddle oxford
saddle oyster
saddle pad
saddle pile
saddle piling
saddle pin
saddle pistol
saddle plant
saddle plate
saddle pocket
saddle point
saddle pommel
saddle press
saddle rack
saddle reef
saddle rock
saddle roof
saddle room
saddle rug
saddle seam
saddle seamer
saddle seat
saddle shell
saddle shoe
saddle skirt
saddle soap
saddle sore
saddle spot
saddle spring
saddle staple
saddle stirrup
saddle stitch
saddle stitcher
saddle stitching
saddle stone
saddle strap
saddle tank
saddle trunk
saddle upon
saddle wire stitch
saddle wiring
saddle with
saddle withers
saddle worker
saddle-backed
saddle-bag
saddle-billed
saddle-bow
saddle-check chair
saddle-cloth
saddle-fast
saddle-galled
saddle-girt
saddle-graft
saddle-nosed
saddle-shaped
saddle-sore
saddle-spotted
saddle-stitch
saddle-tree
saddle-wired
saddleback roof
saddleback stitch
sadist torturer
sadistic cruelty
saeva indignatio
safari ant
safari jacket
safari park
safari suit
safe and sound
safe builder
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
safflower red
saffron cake
saffron cordial
saffron crocus
saffron gatherer
saffron kiln
saffron oil
saffron plum
saffron robe
saffron thistle
saffron veil
saffron yellow
saffron-colored
saffron-hued
saffron-yellow
safrano pink
sag rod
sag to leeward
saga novel
sage Derby
sage ale
sage apple
sage brush green
sage cheese
sage chippy
sage cock
sage green
sage grouse
sage hare
sage hen
sage mullein
sage oil
sage rabbit
sage sparrow
sage tea
sage thrasher
sage tree
sage willow
sage wine
sage wormwood
sage-colored
sage-covered
sage-leaf
sage-leaf mullein
sage-leaved
sagging in folds
sagging market
sagittal suture
sago fern
sago flour
sago grass
sago palm
sago plant
sago spleen
sago tree
sahuca bean
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the wind
sail with the wind aft
sail with the wind quartering
sail yard
sail-bearing
sail-borne
sail-broad
sail-carrying
sail-dotted
sail-filling
sail-over
sail-propelled
sail-stretched
sail-winged
sailfin sculpin
sailing aid
sailing auxiliary
sailing barge
sailing boat
sailing canoe
sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
sailing ship
sailing sucker
sailing trawler
sailing trim
sailing vessel
sailing vessels
sailing yacht
sailmaker's needle
sailmaker's palm
sailor blue
sailor boy
sailor cap
sailor fish
sailor gang
sailor hat
sailor helmsman
sailor laborer
sailor lad
sailor phrase
sailor plant
sailor suit
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrews's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal ammoniac
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
salle d'attente
salle de danse
sallee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt fireman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh pest
salt-marsh terrapin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
salt-peter paper
salt-peter rot
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam-sodden
samadera bark
same but different
same here
same mind
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sized
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sample room
sample space
sample tester
sample trunk
sample vial
sampling inspection
sampling shovel
samson post
samson's post
san benito
san jacinto day
san jose scale
san-gaku
sancho panza
sancho pedro
sancte bell
sanctimonious fraud
sanction mark
sanctioned behavior
sanctioned conduct
sanctuary knocker
sanctuary ring
sanctum sanctorum
sanctus bell
sanctus turret
sand anchor
sand badger
sand bar
sand bath
sand bear
sand bellows
sand belt
sand binder
sand bird
sand blackberry
sand blaster
sand blindness
sand block
sand blower
sand bluestem
sand boil
sand brier
sand buffer
sand bug
sand bunker
sand burner
sand calciner
sand car
sand caster
sand casting
sand castle
sand cherry
sand chute
sand clam
sand clock
sand cloth
sand clover
sand cock
sand collar
sand column
sand cone
sand conveyer
sand corn
sand crab
sand crack
sand crater
sand cricket
sand cusk
sand dab
sand darter
sand digger
sand disease
sand diver
sand dollar
sand dredge
sand dropseed
sand drown
sand dune
sand eel
sand finish
sand flag
sand flask
sand flat
sand flea
sand flotation
sand flounder
sand fluke
sand fly
sand fox
sand gall
sand grape
sand grass
sand grouse
sand hill
sand hog
sand hoist
sand hole
sand hopper
sand hornet
sand in the eyes
sand jack
sand jet
sand lance
sand lark
sand launce
sand leek
sand lily
sand line
sand lizard
sand lob
sand lotter
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sand wasp
sand whiting
sand widgeon
sand yacht
sand-bag
sand-bar willow
sand-belt machine
sand-blight
sand-blind
sand-blindness
sand-blown
sand-bottomed
sand-box
sand-built
sand-buried
sand-burned
sand-cast
sand-cloth
sand-colored
sand-etched
sand-faced
sand-finished
sand-float finish
sand-floated
sand-fly bush
sand-fly fever
sand-glass
sand-groper
sand-hemmed
sand-hill
sand-hill bloom
sand-hill crane
sand-hill rose
sand-hill rosemary
sand-hiller
sand-lime
sand-lime brick
sand-lot
sand-paper
sand-red
sand-strewn
sand-struck
sand-warped
sandal brick
sandal tree
sandalwood family
sandalwood oil
sandalwood tan
sandraac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sanding machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
sang de bouf
sang-de-boeuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sapphire-blue
sapphire-colored
sapphire-hued
sapphire-visaged
sappy spot
sap-
sapro-
sapta-matri
sapucaia nut
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
sash weight
sash window
sash-window
sashay along
sashay off
sassa gum
sassafras laurel
sassafras medulla
sassafras nut
sassafras oil
sassafras pith
sassafras tea
sassy bark
satan monkey
satanic cunning
satchel charge
satellite DNA
satellite relay
satellite sphinx
satellite status
satem language
satin bird
satin bowerbird
satin cloth
satin glass
satin grass
satin moth
satin sheeting
satin spar
satin sparrow
satin stitch
satin stone
satin sultan
satin walnut
satin weave
satin white
satin-backed
satin-faced
satin-finished
satin-flower
satin-leaved
satin-lidded
satin-lined
satin-shining
satin-smooth
satin-striped
satin-worked
satiric humor
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
saturation curve
saturation factor
saturation level
saturation point
saturation pressure
saturation raid
saturnalia of blood
satyr butterfly
satyr orchid
satyr play
sauba ant
sauce boat
sauce espagnole
sauce-alone
sauce-boat
sauce-crayon
saucer dome
saucer eye
saucer eyes
saucer lake
saucer-eyed
saucer-shaped
sauna bath
saunce bell
saunders blue
sauro-
sausage balloon
sausage bassoon
sausage curl
sausage dog
sausage filler
sausage maker
sausage making
sausage meat
sausage poisoning
sausage roll
sausage tree
sausage turning
sausage-fingered
sausage-shaped
saussurite gabbro
saut de basque
sauter aux yeux
sauts de basque
sauva ant
sauve qui peut
sauve-qui-peut
saugignon blanc
savage-featured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savannah rhatany
savanna blackbird
savanna flower
savanna forest
savanna sparrow
savanna wattle
savanna woodland
savate expert
save and except
save as you earn
save face
save for a rainy day
save the necessity
save to fall back on
save to fall back upon
save up
save your bacon
save your breath
save your face
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
saw grinder
saw guard
saw guide
saw handle
saw jointer
saw kerf
saw knife
saw log
saw logs
saw machine
saw machinery
saw maker
saw palmetto
saw palmetto berry
saw pit
saw set
saw setting
saw shark
saw sharpener
saw steel
saw straightener
saw swage
saw table
saw teeth
saw the air
saw tooth
saw tree
saw vise
saw wedge
saw wood
saw wrack
saw wrest
saw-billed
saw-edged
saw-fly
saw-handled
saw-leaved
saw-pierce
saw-pit
saw-shaped
saw-tooth wave
saw-toothed
saw-whet
saw-whet owl
saw-wort
sawara cypress
sawarra nut
sawbuck table
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
say what you think
say yes
say your lesson
say your prayers
say your say
say-nothing
say-so
scab mite
scab over
scabbard fish
scabby mouth
scabby-head
scaff net
scaff-raff
scaffold nail
scala cordonata
scala media
scalar field
scalar product
scalar triple product
scald crow
scald' head
scald-fish
scalding hot
scale armor
scale beam
scale book
scale bug
scale buying
scale carp
scale caterpillar
scale charge
scale cordonate
scale degree
scale dove
scale down
scale drawing
scale duck
scale effect
scale fern
scale figure
scale fly
scale insect
scale leaf
scale louse
scale maker
scale making
scale micrometer
scale modulus
scale moss
scale off
scale passage
scale pipette
scale plan
scale plate
scale quail
scale reading
scale rule
scale selling
scale singing
scale stair
scale stone
scale the heights
scale the walls
scale wax
scale worm
scale-bearing
scale-board
scale-bright
scale-down
scale-tailed
scale-up
scaled partridge
scaled quail
scaled-down
scalene triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scaloped-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scaly tetter
scaly-bark
scaly-barked
scaly-finned
scaly-leg mite
scaly-stemmed
scaly-winged
scamper off
scan conversion
scan converter
scandal sheet
scandal-bearer
scandal-bearing
scandal-mongering
scandalous rumor
scandalum magnatum
scanning beam
scanning disk
scanning electron microscope
scanning line
scanning pattern
scanning speech
scansorial barbet
scant of
scant sufficiency
scantling number
scantling-draft vessel
scap net
scape grace
scape wheel
scape-bearing
scapho-
scapolite group
scapolite-gabbro
scapular medal
scapular-shaped
scapulo-
scar end
scar tissue
scar-bearer
scar-bearing
scar-clad
scar-faced
scar-seamed
scarab beetle
scarb-tree
scarce as hen's teeth
scarce-closed
scarce-cold
scarce-covered
scarce-discerned
scarce-found
scarce-heard
scarce-met
scarce-moving
scarce-parted
scarce-seen
scarce-told
scarce-warned
scarcely any
scarcely anything
scarcely ever
scarcely heard
scarcely like
scarcely to be anticipated
scarcely to be expected
scarcer than hen's teeth
scarcity price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scarlet lightning
scarlet lobelia
scarlet lycnhs
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scarlet tanager
scarlet woman
scarlet-ariled
scarlet-barred
scarlet-berried
scarlet-blossomed
scarlet-breasted
scarlet-circled
scarlet-clad
scarlet-coated
scarlet-colored
scarlet-crested
scarlet-day
scarlet-faced
scarlet-flowered
scarlet-fruited
scarlet-gowned
scarlet-haired
scarlet-lined
scarlet-lipped
scarlet-red
scarlet-robed
scarlet-tipped
scarlet-vermillion
scarp wall
scarp joint
scat singing
scat-
scato-
scatological literature
scatter diagram
scatter pin
scatter pins
scatter rug
scatter seed
scatter shot
scatter to the winds
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
scent bottle
scent box
scent from afar
scent gland
scent out
scent scale
scented fern
scented grass
scented oak fern
scented tea
scented verbena
scentless camomile
schappe silk
schedule of operation
schedule rate
scheduled airline
scheduled castes
scheduled territories
scheme arch
scheme of arrangement
scheme out
schenk beer
schick test
schiller spar
schist oil
schistosome dermatitis
schiz-
schizoid personality
schizothymic personality
schlieren effect
schlieren method
schlieren photography
schlock house
schlock rock
schlock shop
schmidt system
schola cantorum
scholae cantorum
scholarly edition
scholastic institution
scholastic theology
school account
school age
school agent
school airship
school aptitude
school argument
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
schools of
schooner bark
schooner ketch
schooner rig
schooner-rigged
schooner-granite
schooner-rock
schreiner finish
sci-fi
sciara army worm
sciatic artery
sciatic foramen
sciatic neuritis
science dictionary
science fiction
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape together or up
scrape up
scrape-finished
scrape-gut
scrape-shoe
scrape-trencher
scraper conveyer
scraper mat
scraper plane
scraper ring
scrappy con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch together or up
scratch wig
scratch-brush
scratch-coated
scratch-pad
scratch-penny
scratching post
scratching shed
scrawny horse
scream defiance
scream therapy
screaming color
screaming meemies, the
screaming-meemies
screech hawk
screech martin
screech owl
screech-owl
screen boy
screen door
screen facade
screen gate
screen grid
screen maker
screen making
screen memory
screen out
screen pass
screen plate
screen process
screen test
screen, the
screen-faced
screen-grid tube
screen-grid voltage
screen-plate process
screen-test
screen-wall counter
screen-wiper
screening constant
screening effect
screw alley
screw anchor
screw arbor
screw around
screw auger
screw axis
screw back
screw bean
screw bell
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-gear
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
screw-turned
screw-turning
screw-up
screwed up
screwed-up
screwing around
screwing machine
scribble-scrabble
scribbling block
scribbling lark
scribe saw
scribes and Pharisees
scribing block
scribing compass
scribing gouge
scribing iron
scrieve board
scrimmage line
scrimp rail
scrimping bar
scrip certificate
scrip dividend
scrip issue
scrip-scrap
script girl
script lichen
script reader
script-writer
scritch-owl
scritch-scratch
scritch-scratching
scrive board
scrofula plant
scrofula plant
scroll casing
scroll chuck
scroll creeper
scroll foot
scroll front
scroll gear
scroll lathe
scroll pediment
scroll saw
scroll step
scroll wheel
scroll-cut
scroll-like
scroll-shaped
scrooch down
scrooch down
crouch down
scrounge around
scrub birch
scrub bird
scrub brush
scrub bush
scrub chestnut oak
scrub fowl
scrub hickory
scrub juniper
scrub myrtle
scrub nurse
scrub oak
scrub out
scrub pine
scrub pine
scrub plane
scrub robin
scrub round
scrub sandalwood
scrub shrub
scrub turkey
scrub typhus
scrub up
scrub vine
scrub wren
scrub-bird
scrub-up
scrubbing board
scrubbing brush
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyphi-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea blite
sea bloom
sea blossom
sea blubber
sea blue
sea boat
sea boots
sea bottle
sea boy
sea brant
sea breach
sea bread
sea bream
sea breeze
sea brief
sea buckthorn
sea bugloss
sea burdock
sea bush
sea butterfly
sea cabbage
sea cabin
sea calf
sea campion
sea captain
sea card
sea carp
sea cat
sea catfish
sea catgut
sea cauliflower
sea celandine
sea change
sea chest
sea chickweed
sea chub
sea clam
sea cliff
sea cloth
sea club rush
sea clutter
sea coal
sea cob
sea cock
sea coco
sea coconut
sea colander
sea cole
sea colewort
sea combat
sea compass
sea connection
sea coot
sea corn
sea cow
sea cradle
sea crawfish
sea crayfish
sea creature
sea cress
sea crow
sea cucumber
sea cudweed
sea cushion
sea daffodil
sea dahlia
sea daisy
sea date
sea day
sea devil
sea dock
sea dog
sea dotterel
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea membrane
sea mew
sea mile
sea milkwort
sea mink
sea mist
sea monk
sea monster
sea moss
sea moth
sea mouse
sea mud
sea mugwort
sea mulberry
sea mule
sea mullet
sea necklace
sea nettle
sea nymph
sea oak
sea oat
sea of flames
sea of grass
sea of troubles
sea officer
sea onion
sea ooze
sea orach
sea orange
sea ore
sea otter
sea owl
sea oxeye
sea palm
sea panther
sea park
sea parrot
sea parsley
sea parsnip
sea partridge
sea pass
sea pay
sea pea
sea peach
sea pear
sea peat
sea pen
sea perch
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea purslane
sea puss
sea quail
sea radish
sea quail
sea ragweed
sea ragwort
sea ranger
sea rat
sea raven
sea reach
sea reed
sea rim
sea risk
sea risks
sea road
sea robber
sea robin
sea rocket
sea rod
sea room
sea rosemary
sea rover
sea ruffle
sea salmon
sea salt
sea sand
sea sand grass
sea sand reed
sea sandpiper
sea sands
sea sandwort
sea scallop
sea scorpion
sea scout
sea scouting
sea sedge
sea serpent
sea service
sea shell
sea shrub
sea silk
sea sled
sea slope
sea slug
sea smoke
sea snail
sea snake
sea snipe
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-circled
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-dragon
sea-driven
sea-eagle
sea-ear
sea-elephant
sea-encircled
sea-faring
sea-fern
sea-swallowed
sea-torn
sea-tossed
sea-tost
sea-traveling
sea-trout
sea-urchin
sea-wall
sea-walled
sea-wandering
sea-ware
sea-washed
sea-water
sea-water green
sea-way
sea-weary
sea-wide
sea-wildered
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seakale beet
seal brown
seal character
seal coat
seal cutter
seal cutting
seal cylinder
seal fisher
seal fisherman
seal fishery
seal fishing
seal hole
seal lock
seal maker
seal making
seal of approval
seal of confession
seal of secrecy
seal off
seal oil
seal point
seal press
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
sebi-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
secobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second officer
second paper
second papers
second person
second philosophy
second position
second prize
second rank
second reader
second reading
second self
second sex
second sight
second stomach
second story
second string
second stringer
second team
second thought
second thoughts
second to none
second wind
second youth
second-best
second-class
second-class mail
second-cut
second-cut file
second-degree
second-degree burn
second-drawer
second-feet
second-first
second-floor
second-foot
second-growth
second-guess
second-guesser
second-hand
second-handedness
second-in-command
second-line battleship
second-line destroyer
second-order reaction
second-rate
second-rateness
second-rater
second-sighted
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secondary condition
secondary contact
secondary diagonal
secondary digestion
secondary disease
secondary eardrum
secondary education
secondary electron
secondary emission
secondary evidence
secondary group
secondary infection
secondary intention
secondary issue
secondary modern school
secondary oocyte
secondary ordinary
secondary phloem
secondary planet
secondary plot
secondary processes
secondary propyl alcohol
secondary quality
secondary radiation
secondary road
secondary school
secondary schooler
secondary sense
secondary sex character
secondary sex characteristic
secondary sexual characteristic
secondary shock
secondary spermatocyte
secondary stress
secondary syphilis
secondary wave
secondary xylem
secondary-emission tube
secondhand clothes
secondhand shop
secondhand store
seconds pendulum
secret agent
secret ballot
secret block
secret caucus
secret exit
secret grip
secret heart
secret ink
secret language
secret nailing
secret name
secret order
secret partner
secret passage
secret place
secret places
secret police
secret recesses of the heart
secret service
secret society
secret staircase
secret thoughts
secret writing
secret-false
secret-service
secretarial school
secretaries-general
secretary bird
secretary bookcase
secretary of legation
secretary of state
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
sedge warbler
sedge wren
sediment bulb
sediment yeast
sedimentary clay
sedimentary rock
sedimentation coefficient
sedimentation test
sedition-proof
seduction-proof
see about
see action
see active duty
see after
see ahead
see as it really is
see at a glance
see badly
see beforehand
see both sides
see both sides of the question
see but one side of the question
see combat
see daylight
see double
see eye to eye
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seek for
seek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
seized of
seized with
seizing stuff
seizing truck
seizure of power
sejant-erect
sejeant-erect
sel- dom
seldom ever
seldom if ever
seldom met with
seldom seen
select committee
selected passage
selected short subject
selected works
selection forest
selection principle
selection rule
selection system
selection value
selective assembly
selective attention
selective calculator
selective service
selective transmission
selective-head
selective-head lathe
selector switch
selen-
selenic acid
selenio-
selenious acid
selenium cell
seleno-
selenographic chart
self blue
self correlation
self destruction
self discharge
self examination
self incrimination
self psychologist
self psychology
self-
self-abandon
self-abandoned
self-abandoning
self-abandoningly
self-abandonment
self-abased
self-abasement
self-abasing
self-abdication
self-abhorrence
self-abhorring
self-ability
self-abnegating
self-abnegation
self-abnegatory
self-abominating
self-abomination
self-absorbed
self-absorption
self-abuse
self-abuser
self-accorded
self-accusation
self-accusative
self-accusatory
self-accused
self-accuser
self-accusing
self-acknowledged
self-acquaintance
self-acquainter
self-acquired
self-acquisition
self-acquitted
self-acted
self-acting
self-action
self-active
self-activity
self-actor
self-actualization
self-actualizing
self-actuating
self-adapting
self-adaptive
self-addiction
self-addressed
self-adhesion
self-adhesive
self-adjoint
self-adjustable
self-adjusting
self-adjustment
self-administer
self-administered
self-administering
self-admiration
self-admired
self-admirer
self-admiring
self-admission
self-adorer
self-adorned
self-adorning
self-adornment
self-adulation
self-advanced
self-advancement
self-advancer
self-advancing
self-advantage
self-advantageous
self-advertise
self-advertisement
self-advertiser
self-advertising
self-affair
self-affected
self-affected
self-affecting
self-affectionate
self-affirmation
self-afflicting
self-affliction
self-afflictive
self-affrighted
self-agency
self-aggrandized
self-aggrandizement
self-aggrandizing
self-aid
self-aim
self-aligning
self-aligning
self-alignment
self-alinement
self-alining
self-amendment
self-amplifier
self-amputation
self-amusement
self-analysis
self-analytical
self-analyzed
self-anatomy
self-angry
self-annealing
self-annihilated
self-annihilation
self-annulling
self-answering
self-antithesis
self-apparent
self-applauding
self-applause
self-applausive
self-application
self-applied
self-applying
self-appointed
self-appointment
self-appreciating
self-appreciation
self-approbation
self-approval
self-approved
self-approver
self-approving
self-arched
self-arching
self-arising
self-asserting
self-assertingly
self-assertion
self-assertive
self-assertively
self-awareness
self-assertory
self-assigned
self-assumed
self-assuming
self-assumption
self-assurance
self-assured
self-assuredness
self-attachment
self-attracting
self-attraction
self-burning
self-called
self-canceled
self-cancelled
self-canting
self-capacity
self-captivity
self-care
self-castigating
self-castigation
self-catalysis
self-catalyst
self-catering
self-causation
self-caused
self-center
self-centered
self-centered self-contained
self-centeredly
self-centeredness
self-centering
self-centerment
self-centralization
self-centration
self-centred
self-centredly
self-centredness
self-chain
self-changed
self-changing
self-charging
self-charity
self-chastise
self-chastised
self-chastisement
self-chastising
self-cheatery
self-checking
self-chosen
self-christened
self-clamp
self-cleaning
self-clearance
self-closed
self-closing
self-cocker
self-cocking
self-cognition
self-cognizably
self-cognizance
self-coherence
self-coiling
self-collected
self-collectedness
self-collection
self-color
self-colored
self-colour
self-coloured
self-combating
self-combustion
self-command
self-commande
self-commendation
self-comment
self-commissioned
self-commitment
self-committal
self-committing
self-commune
self-communed
self-communication
self-communicative
self-communing
self-communion
self-comparison
self-compassion
self-compatible
self-compensation
self-competition
self-complacence
self-complacency
self-complacent
self-complacental
self-complacently
self-complaisance
self-completion
self-composed
self-composedly
self-composedness
self-comprehending
self-comprised
self-conceit
self-conceited
self-conceitedly
self-conceitedness
self-conceived
self-concentered
self-concentrated
self-concentration
self-concept
self-concern
self-concerned
self-concerning
self-concernment
self-condemnable
self-condemnant
self-condemnation
self-condemnatory
self-condemned
self-condemnedly
self-condemning
self-condemningly
self-conditioned
self-conditioning
self-conduct
self-confessed
self-confession
self-confidence
self-confident
self-confidently
self-confiding
self-confinement
self-confining
self-conflict
self-conflicting
self-conformance
self-confounding
self-confuted
self-congratulating
self-congratulation
self-congratulatory
self-conjugate
self-conjugately
self-conjugation
self-conquest
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self-consciously
self-consciousness
self-consecration
self-consequence
self-consequent
self-conservation
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self-conserving
self-consideration
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self-considering
self-consistency
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self-consistently
self-consoling
self-consolingly
self-constituted
self-constituting
self-consultation
self-consumed
self-consuming
self-consumption
self-contained
self-contained ornament
self-containedly
self-containedness
self-Containing
self-containment
self-contaminating
self-contamination
self-conterner
self-contremplation
self-contempt
self-content
self-contented
self-contentedly
self-contentedness
self-contentment
self-contracting
self-contraction
self-contradicter
self-contradicting
self-contradiction
self-contradictory
self-control
self-controlled
self-controller
self-controlling
self-convened
self-converse
self-convicted
self-convicting
self-conviction
self-cooking
self-cooled
self-correcting
self-correction
self-corrective
self-corrrespondent
self-corrresponding
self-corrupted
self-counsel
self-coupler
self-covered
self-cozening
self-created
self-creating
self-creation
self-creative
self-credit
self-credulity
self-cremation
self-critical
self-critically
self-criticism
self-cruel
self-cruelty
self-cultivation
self-culture
self-culturist
self-cure
self-cutting
self-damnation
self-danger
self-deaf
self-debasement
self-debasing
self-debate
self-deceit
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self-deceitfulness
self-deceived
self-deceiver
self-deceiving
self-deception
self-deceptive
self-declared
self-declaredly
self-dedicated
self-dedication
self-defeated
self-defeating
self-distrusting
self-disunity
self-divided
self-division
self-doctrine
self-dominance
self-domination
self-dominion
self-donation
self-doomed
self-dosage
self-doubt
self-doubting
self-dramatization
self-dramatizing
self-drawing
self-drinking
self-drive
self-driven
self-dropping
self-drown
self-dual
self-dualistic
self-dubbed
self-dumping
self-duplicating
self-duplication
self-ease
self-easing
self-eating
self-educated
self-education
self-effacement
self-effacing
self-effacingly
self-effacingness
self-effacive
self-effort
self-elaborated
self-elaboration
self-elation
self-elect
self-elected
self-election
self-elective
self-emitted
self-emolument
self-employed
self-exposure
self-expression
self-expressive
self-expressiveness
self-extinction
self-exultation
self-exulting
self-faced
self-fame
self-farming
self-fearing
self-fed
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self-feeder
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self-feeling
self-felicitation
self-felony
self-fermentation
self-fertile
self-fertility
self-fertilization
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self-fertilizer
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self-filler
self-filling
self-fitting
self-flagellating
self-flagellation
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self-flatterer
self-flattering
self-flattery
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self-fluxing
self-focused
self-focusing
self-focussed
self-focussing
self-folding
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self-fondness
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self-forgetfully
self-forgetfulness
self-forgetting
self-forgetfully
self-formation
self-formed
self-forsaken
self-fountain
self-friction
self-frighted
self-fruitful
self-fruition
self-fulfilling
self-fulfillment
self-fulfilment
self-furnished
self-furring
self-gaging
self-gain
self-gathered
self-gauging
self-generated
self-generating
self-generation
self-generative
self-given
self-giving
self-glazed
self-glazing
self-glorification
self-glorified
self-glorifying
self-glorious
self-glory
self-glorying
self-good
self-gotten
self-govern
self-governed
self-governing
self-governing dominion
self-government
self-gracious
self-gratification
self-gratulating
self-gratulatingly
self-gratulation
self-gratulatory
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self-guidance
self-guiltiness
self-guiltless
self-guilty
self-gullery
self-hardened
self-hang
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self-harming
self-hate
self-hating
self-hated
self-heal
self-healing
self-heating
self-help
self-helpful
self-helpfulness
self-helping
self-helpless
self-heterodyne
self-hid
self-hidden
self-hitting
self-holiness
self-homicide
self-honored
self-honoured
self-hood
self-hope
self-humbling
self-humiliating
self-humiliation
self-hypnosis
self-hypnotic
self-hypnotism
self-hypnotization
self-hypnotized
self-idea
self-identical
self-identification
self-identity
self-idolater
self-idolatry
self-idolized
self-idolizing
self-ignite
self-ignited
self-igniting
self-ignition
self-ignorance
self-ignorant
self-ill
self-illumined
self-illuminating
self-image
self-imitation
self-immolating
self-immolation
self-immunity
self-immurement
self-immuring
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self-impairing
self-impartation
self-imparting
self-impedance
self-importance
self-important
self-importantly
self-imposed
self-imposed duty
self-imposture
self-impotent
self-impregnated
self-impregnating
self-impregnation
self-impregnator
self-improvable
self-improvement
self-improver
self-improving
self-impulsion
self-inclosed
self-inclusive
self-inconsistency
self-inconsistent
self-incriminating
self-incrimination
self-incurred
self-indignation
self-induced
self-inductance
self-induction
self-inductive
self-indulged
self-indulgence
self-indulgent
self-indulgently
self-indulger
self-indulging
self-infatuated
self-infatuation
self-infection
self-inflation
self-inflicted
self-infliction
self-initiated
self-initiative
self-injuries
self-injurious
self-injury
self-inker
self-inking
self-inoculated
self-inoculation
self-insignificance
self-inspected
self-inspection
self-instructed
self-instructing
self-instruction
self-instructional
self-instructor
self-insufficiency
self-insurance
self-insured
self-insurer
self-integrating
self-integration
self-intelligible
self-intensified
self-intensifying
self-intent
self-interest
self-interested
self-interestedness
self-interpretative
self-interpreted
self-interpreting
self-interpretive
self-interrogation
self-interrupting
self-intersecting
self-intoxication
self-introduction
self-intruder
self-invented
self-invention
self-invited
self-involution
self-involved
self-ionization
self-ironies
self-irony
self-irrecoverable
self-irrecoverableness
self-irreformable
self-issued
self-issuing
self-jealous
self-jealously
self-judged
self-judgement
self-judging
self-judgment
self-justification
self-justified
self-justifier
self-justifying
self-killed
self-killer
self-killing
self-kindled
self-kindness
self-knowing
self-knowledge
self-known
self-lacerating
self-laceration
self-lashing
self-laudation
self-laudatory
self-lauding
self-learn
self-left
self-leveler
self-leveling
self-mate
self-matured
self-measurement
self-mediating
self-merit
self-minded
self-mistrust
self-misused
self-mortification
self-mortified
self-motion
self-motive
self-moved
self-movement
self-mover
self-moving
self-multiplied
self-multiplying
self-murder
self-murdered
self-murderer
self-mutilation
self-named
self-naughting
self-neglect
self-neglectful
self-neglectfulness
self-neglecting
self-nourished
self-nourishing
self-nourishment
self-objectification
self-oblivion
self-oblivious
self-observation
self-observed
self-obsessed
self-obsession
self-occupation
self-occupied
self-offence
self-offense
self-offered
self-offering
self-oiling
self-opened
self-opener
self-opening
self-operating
self-operative
self-operator
self-opiniated
self-opiniatedly
self-opiniative
self-opiniativeness
self-opinion
self-opinionated
self-opinionatedly
self-opinionatedness
self-opinionative
self-opinionatively
self-opinionativeness
self-opinioned
self-opinionedness
self-opposed
self-opposition
self-oppression
self-oppressive
self-oppressor
self-ordained
self-ordainer
self-organization
self-originated
self-originating
self-origination
self-ostentation
self-outlaw
self-outlawed
self-ownership
self-oxidation
self-paid
self-painter
self-pampered
self-pampering
self-panegyric
self-parasitism
self-parricide
self-partiality
self-paying
self-peace
self-penetrability
self-penetration
self-perceiving
self-perception
self-perceptive
self-perfect
self-perfectibility
self-perfecting
self-perfectionment
self-performed
self-permission
self-perpetuated
self-perpetuating
self-perpetuation
self-perplexed
self-persuasion
self-physicking
self-pictured
self-pious
self-piquer
self-pitiful
self-pitifulness
self-pity
self-pitying
self-pityingly
self-planted
self-player
self-playing
self-pleached
self-pleased
self-pleaser
self-pleasing
self-pointed
self-poise
self-poised
self-poisedness
self-poisoner
self-polar triangle
self-policing
self-policy
self-politician
self-pollinate
self-pollinated
self-pollination
self-polluter
self-pollution
self-portrait
self-portraitist
self-posed
self-posited
self-positing
self-possessed
self-possessedly
self-possessing
self-possession
self-posting
self-postponement
self-potence
self-potential method
self-powered
self-praise
self-praising
self-precipitation
self-preference
self-preoccupation
self-preparation
self-prepared
self-prescribed
self-presentation
self-presented
self-preservation
self-preservative
self-preserving
self-preservingly
self-pretended
self-pride
self-primed
self-primer
self-priming
self-prizing
self-proclaimant
self-proclaimed
self-proclaiming
self-procured
self-procurement
self-procuring
self-proditoriously
self-produced
self-production
self-professed
self-profit
self-projection
self-pronouncing
self-propagated
self-propagating
self-propagation
self-propelled
self-propelled barge
self-propellant
self-propeller
self-propelling
self-propulsion
self-protecting
self-protection
self-protective
self-proving
self-provision
self-pruning
self-puffery
self-punished
self-punisher
self-punishing
self-punishment
self-punitive
self-purification
self-purifying
self-purity
self-quenched counter
self-question
self-questioned
self-questioning
self-quotations
self-raised
self-raising
self-rake
self-rating
self-reacting
self-reading
self-realization
self-realizationism
self-realizationist
self-realizing
self-reciprocal
self-reckoning
self-recollection
self-recollective
self-reconstruction
self-recording
self-recrimination
self-rectifying
self-reduction
self-reduplication
self-reference
self-refinement
self-refining
self-reflection
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self-reflexive
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self-reformation
self-refuted
self-refuting
self-regard
self-regardant
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self-regardless
self-regardlessly
self-regardness
self-registering
self-registering barometer
self-registering thermometer
self-registration
self-regulate
self-regulated
self-regulating
self-regulating market
self-regulation
self-regulative
self-regulatory
self-relation
self-reliance
self-reliant
self-reliantly
self-relish
self-relying
self-renounced
self-renunciation
self-renouncing
self-renunciation
self-renunciatory
self-repeating
self-repellency
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self-repelling
self-repetition
self-repose
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self-repression
self-reproach
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self-reproachfulness
self-reproaching
self-reproachingly
self-reproachingness
self-reproducing
self-reproduction
self-reproof
self-reproval
self-reproved
self-reproving
self-reprovingly
self-repugnance
self-repugnancy
self-repugnant
self-repulsive
self-reputation
self-rescuer
self-resentment
self-resigned
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self-resourcefulness
self-respect
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self-resplendent
self-responsibility
self-restoring
self-restrained
self-restraining
self-restraint
self-restricted
self-restriction
self-retired
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self-revelation
self-revelative
self-revelatory
self-reverence
self-reverent
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self-rewarding
self-right
self-righteous
self-righteously
self-righteousness
self-righter
self-righting
self-rigorous
self-serving
self-set
self-severe
self-shadowed
self-shadowing
self-shelter
self-sheltered
self-shine
self-shining
self-shooter
self-shot
self-significance
self-similar
self-sinking
self-slain
self-slaughter
self-slaughtered
self-slayer
self-society
self-sold
self-solicitude
self-soothed
self-soothing
self-sophistication
self-sought
self-sounding
self-sovereignty
self-sow
self-sowed
self-sown
self-spaced
self-spacing
self-speech
self-spitted
self-sprung
self-stability
self-stabilized
self-stabilizing
self-starter
self-starting
self-starved
self-steered
self-sterile
self-sterility
self-stimulated
self-stimulating
self-stimulation
self-stowing
self-strength
self-stripper
self-strong
self-stuck
self-study
self-styled
self-style
d lawyer
self-subdual
self-subdued
self-subjection
self-subjugating
self-subjugation
self-subordained
self-subordinating
self-subordination
self-subsidation
self-subsistence
self-subsistency
self-subsistent
self-subsisting
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self-sufficience
self-sufficiency
self-sufficient
self-sufficiently
self-sufficientness
self-sufficing
self-sufficingly
self-sufficingness
self-suggested
self-suggester
self-suggestion
self-suggestive
self-suppletive
self-support
self-supported
self-supportedness
self-supporting
self-supportingly
self-supportless
self-suppressing
self-suppression
self-suppressive
self-sure
self-surrender
self-surrendering
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-tortment
self-tortmented
self-tormenter
self-tormenting
self-tormentingly
self-tormentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triturating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-union
self-unity
self-unloader
self-unloading
self-unscabbarded
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaunted
self-vaunting
self-vendition
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
self-whole
self-widowered
self-will
self-willed
self-willedly
self-willedness
self-winding
self-wine
self-wisdom
self-wise
self-witness
self-witnessed
self-working
self-worn
self-worship
self-worshiper
self-worshipping
self-worth
self-worthiness
self-wounded
self-wounding
self-writing
self-written
self-wrong
self-wrongly
self-wrought
selfish person
self-liquidating loan
sell a pig in a poke
sell at a loss
sell at a sacrifice
sell at auction
sell by auction
sell down the river
sell for
sell foreign
sell gold bricks
sell in futures
sell off
sell on consignment
sell on credit
sell one on
sell out
sell over
sell over the counter
sell retail
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
sellenger's round
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-double
semi-form
semi-idiocy
semi-idiotic
semi-idleness
semi-ignorance
semi-illiteracy
semi-illiterate
semi-illiterately
semi-illiterateness
semi-illuminated
semi-imbricated
semi-immersed
semi-impressionistic
semi-incandescent
semi-independence
semi-independent
semi-independently
semi-indirect
semi-indirectly
semi-indirectness
semi-inductive
semi-indurate
semi-indurated
semi-industrial
semi-industrialized
semi-industrially
semi-inertness
semi-infidel
semi-infinite
semi-inhibited
semi-inhibition
semi-insoluble
semi-instinctive
semi-instinctively
semi-instinctiveness
semi-insular
semi-intellectual
semi-intellectualized
semi-intellectually
semi-intelligent
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxication
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semiRussian
semiair-cooled
semiautomatic control
semiautomatic rifle
semibreve rest
semicircular canal
semicircular canals
semiclassical music
semico-operative
semicolon butterfly
semiconductor circuit
semiconductor device
send mad
send off
send on a fool's errand
send on a mission
send out
send out of your mind
send out rays
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroot
senega root
senega snakeroot
seneka root
seneka snakerooot
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
sense of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensori-
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensum theory
sensuous desire
sensuous pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septic poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serpent star
serpent stone
serpent-god
serpent-goddess
serpent-shaped
serpent-stone
serpentine front
serpentine green
serpentine marble
serpentine stretcher
serran imperial
serrana hispana
serrate-ciliate
serrate-dentate
serrato-
serre-papier
serri-
serum albumin
serum anaphylaxis
serum death
serum disease
serum gamma globulin
serum globulin
serum hepatitis
serum jaundice
serum prothrombin accelerator
serum shock
serum sickness
serum therapy
serum transfusion
servant girl
servant of God
servant of the servants of God
serve Mammon
serve an apprenticeship
serve as
serve in the capacity of
serve in the office of
serve in your stead
serve notice
serve one out
serve out
serve the office of
serve the purpose
serve time
serve with the colors
serve you right
serve your need
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
esequipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruited
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set about
set above
set abroach
set afloat
set against
set against one another
set agoing
set an anchor watch
set an arbitrary price on
set an end point
set an examination
set an example
set apart
set aside
set astir
set at
set at defiance
set at each other's throat
set at ease
set at hazard
set at intervals
set at large
set at liberty
set at naught
set at odds
set at rest
set at variance
set at your throat
set attention to
set back
set bar
set before
set before yourself
set book
set by
set by the ears
set chisel
set conditions
set designer
set down
set down as
set down for
set down for hearing
set down to
set eyes on
set fast
set fire to
set foot in
set foot on
set foot on dry land
set for
set form
set forth
set forward
set free
set function
set gauge
set going
set gun
set hammer
set her down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set limits
set little by
set mind
set naught by
set no store by
set nut
set of conditions
set of postulates
set of rooms
set of teeth
set of the current
set of three
set of two
set off
set off against
set off for
set off to advantage
set off to good advantage
set on
set on edge
set on fire
set on foot
set on its base
set on its beam ends
set on its feet
set on its legs
set on your feet
set on your legs
set one back
set one's face against
set out
set out for
set over against
set over against one another
set phrase
set piece
set pin
set point
set pot
set purpose
set right
set sail
set shot
set side by side
set someone on his feet
set speech
set square
set store by
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
set-off sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle- abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
settled purpose
settled soap
settled upon
settlement day
settlement house
settlement lease
settlement option
settlement sheet
settlement worker
settling clerk
settling day
settling price
seven deadly sins
seven o'clock
seven principles of man
seven sacraments
seven seas
seven sisters
seven sleepers
seven stars
seven year
seven-banded
seven-branched
seven-caped
seven-card stud
seven-channeled
seven-chorded
seven-cornered
seven-day
seven-eleven
seven-eyed
seven-eyes
seven-figure
seven-foot
seven-footer
seven-formed
seven-gated
seven-gilled
seven-hand
seven-headed
seven-hilled
seven-hilly
seven-holes
seven-horned
seven-inch
seven-league
seven-league boots
seven-leaved
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-tined
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
sewing awl
sewing basket
sewing bench
sewing bird
sewing board
sewing cabinet
sewing circle
sewing class
sewing cotton
sewing machine
sewing needle
sewing press
sewing room
sewing school
sewing silk
sewing society
sewing table
sewing teacher
sewing thread
sewing tray
sewing twine
sewing wire
sewing woman
sewing work
sewing-machine needle
sex act
sex appeal
sex behavior
sex cell
sex characteristic
sex chromosome
sex crime
sex criminal
sex deviant
sex deviate
sex discrimination
sex drive
sex fiend
sex goddess
sex hormone
sex hygiene
sex kitten
sex linkage
sex object
sex organ
sex organs
sex pervert
sex queen
sex ratio
sex-
sex-intergrade
sex-limited
sex-linkage
sex-linked
sex-starved
sexagesimal scale
sexagesimal system
sexagesimo-quarto
sexed-up
sexi-
sextant altitude
sexto-decimo
sexton beetle
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overtue
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shaft-rubber
shaft-straightener
shaft-foot man
shafting lathe
shag ass
shag rug
shag-haired
shag-rag
shagbark hickory
shaggy cap
shaggy dog story
shaggy-barked
shaggy-bearded
shaggy-bodied
shaggy-coated
shaggy-dog story
shaggy-fleeced
shaggy-footed
shaggy-haired
shaggy-leaved
shaggy-mane
shaggy-mane mushroom
shaggy-maned
shake a leg
shake all over
shake bolt
shake culture
shake down
shake hands
shake hands and kiss babies
shake hands on
shake hands with
shake hands with yourself
shake in your boots
shake in your shoes
shake it up
shake like an aspen leaf
shake like jelly
shake off
shake off the yoke
shake on it
shake the dust from your feet
shake the head
shake the windows
shake up
shake with laughter
shake your faith
shake your fist at
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shallow-read
shallow-rooted
shallow-rooting
shallow-sea
shallow-searching
shallow-sighted
shallow-soiled
shallow-thoughted
shallow-toothed
shallow-waisted
shallow-water
shallow-witted
shallow-wittedness
shalom aleichem
shalom alekhem
shalosh seudos
shalosh seudoth
sham object
sham subject
shama millet
shamalo grass
shame brier
shame child
shame vine
shame-burnt
shame-crushed
shame-eaten
shame-shrunk
shame-stricken
shame-swollen
shameless falsehood
shammy leather
shamrock green
shamrock pea
shamrock-pea
shangri-la
shank bone
shank cutter
shank grass
shank mill
shank of the afternoon
shank of the evening
shank painter
shank’s mare
shank’s pony
shank-painter
shanks’ mare
shanks’ pony
shanks's pony
shanty boat
shanty boy
shanty-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-eared
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruitied
sharp-gritted
sharp-ground
sharp-headed
sharp-heeled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-minded
sharp-nebbbed
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinned
sharp-shinned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
group
group

tasted
tasting

tempered
toed
tongued
toothed
unkindness
topped
visaged
whetted
winged
witted
wittedly
wittedness
a distinction
the wits
your tools
than a serpent's tooth
mola
your hopes
mind
nerves
away
grass
hook
off
rush
basin
board
box
brush
case
cream
cup
dies
glass
horse
mill
mirror
mug
paper
paste
powder
set
soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-aphile
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
she-kind
she-king
she-lion
she-malady
she-monster
she-negro
she-oak
she-page
she-panther
she-peace
she-pig
she-pine
she-poet
she-poetry
she-preacher
she-priest
she-relative
she-saint
she-salmon
she-school
she-scoundrel
she-society
she-sparrow
she-sun
she-thief
she-tongue
she-villain
she-whale
she-witch
she-wolf
she-woman
shea butter
shea tree
shea-nut
shea-nut oil
sheaf arrow
sheaf catalogue
shear angle
shear boom
shear hulk
shear legs
shear modulus
shear pin
shear plane
shear skid
shear steel
shear strain
shear stress
shear structure
shear transformation
shear zone
shear-grass
shear-legs
shearing deformation
shearing dies
shearing force
shearing machine
shearing plane
shearing punch
shearing stress
shearing tool
sheath gown
sheath knife
sheath moth
sheath pieffield
sheath pile
sheath-fish
sheath-winged
sheathe the sword
sheathing board
sheathing copper
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep's eye
sheep's eyes
sheep's fescue
sheep's head
sheep's sorrel
sheep's-bit
sheep-biter
sheep-dip
sheep-grazing
sheep-hued
sheep-kneed
sheep-lice
sheep-root
sheep-shearer
sheep-shearing
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheepsoo wool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell-leaf
shell-less
shell-like
shell-shaped
shell-shock
shell-shocked
shell-worker
shelly pahoehoe
shelter belt
shelter cabin
shelter deck
shelter half
shelter pit
shelter tent
shelter trench
shelter under
shelter-deck vessel
sheltering trust
shelterwood method
shelving beach
shenk beer
shepherd dog
shepherd god
shepherd king
shepherd spider
shepherd's check
shepherd's dial
shepherd's dog
shepherd's needle
shepherd's pie
shepherd's pipe
shepherd's plaid
shepherd's purse
shepherd's staff
shepherd's weatherglass
shepherd's-purse
shepherd's-scabious
shepherds-staff
sherbet powder
shere khan
sheriff court
sheriff depute
sheriff substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-back
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship auger
ship biscuit
ship boat
ship borer
ship breaker
ship broker
ship canal
ship carpenter
ship carpentry
ship chandler
ship chandlery
ship control
ship decanter
ship fever
ship head
ship joiner
ship ladder
ship letter
ship money
ship news
ship oars
ship of state
ship of the desert
ship of the line
ship of war
ship out
ship part
ship pendulum
ship pound
ship railway
ship rat
ship rigger
ship room
ship route
ship splice
ship stuff
ship time
ship tire
ship writ
ship's biscuit
ship's boat
ship's boy
ship's carpenter
ship's company
ship's cooper
ship's husband
ship's log
ship's officer
ship's papers
ship's ropes
ship's service
ship's tailor
ship's watch
ship's writer
ship-chandler
ship-holder
ship-load
ship-minded
ship-mindedly
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe laster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
dee-shoe
shoe-black plant
shoeing-horn
dee-shoe less horse
shoe-string catch
shoe-string fern
shoe-string fungus
shoe-string lily
shoe-string margin
shoe-string potato
shoe-string weed
shoggy-shoo
dee-shoo fly pie
dee-shoo in
dee-shoo fly finger
dee-shoo fly pie
dee-shook swarming
dee-shook up
dee-shook-up
dee-shoot ahead
dee-shoot ahead of
dee-shoot apex
dee-shoot at
dee-shoot back
dee-shoot ballast
dee-shoot craps
dee-shoot down
dee-shoot down in flames
dee-shoot for
dee-shoot full of holes
dee-shoot into space
dee-shoot it out with
dee-shoot off at an angle
dee-shoot off your face
dee-shoot off your mouth
dee-shoot out
dee-shoot out rays
dee-shoot questions at
dee-shoot straight
dee-shoot straight with
dee-shoot the breeze
dee-shoot the bull
dee-shoot the chutes
dee-shoot the shit
dee-shoot the sun
dee-shoot the works
dee-shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
shop paper
shop right
shop rivet
shop steward
shop-board
shop-made
shop-soiled
shop-window
shopping cart
shopping center
shopping centre
shopping complex
shopping goods
shopping mall
shopping plaza
shopping precinct
shopping spree
shore bird
shore boat
shore boulder
shore cod
shore cover
shore crab
shore dinner
shore fast
shore grape
shore grass
shore lark
shore leave
shore line
shore onion
shore party
shore patrol
shore pay
shore pine
shore pipit
shore snipe
shore spurge
shore terrace
shore up
shore whiting
shore-going
shored up
shorn of
short account
short allowance
short and
short and sweet
short answer
short ballot
short bill
short bob
short circuit
short column
short commons
short covering
short cross
short cut
short demy
short distance
short division
short duration
short end
short extension
short field
short fuse pepperiness
short game
short haul
short hundredweight
short interest
short iron
short jenny
short leet
short leg
short line
short list
short loin
short measure
short memory
short memory span
short odds
short of
short of breath
short of cash
short of funds
short of luck
short of money
short of wind
short on looks
short order
short out
short pants
short particular meter
short period
short piece
short plate
short position
short range aid to navigation
short rations
short rib
short ribs
short sale
short score
short seller
short session
short short story
short shorts
short shrift
short side
short sight
short snorter
short spell
short splice
short step
short stock
short story
short subject
short suit
short supply
short sweetening
short temper
short time
short title
short ton
short up
short version
short vowel
short wave
short way
short weight
short wool
short-arm
short-arm balance
short-arm blow
short-armed
short-awned
short-barred
short-barreled
short-beaked
short-bearded
short-billed
short-bitten
short-bladed
short-bobbed
short-bodied
short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-change
short-changed
short-changer
short-changing
short-chinned
short-circuit
short-circuiter
short-clawed
short-cloaked
short-commons
short-coupled
short-crested
short-cropped
short-crowned
short-cut
short-cycle
short-cycled
short-dated
short-day
short-distance
short-docked
short-drawn
short-eared
short-eared owl
short-extend
short-eyed
short-faced
short-fed
short-fingered
short-finned
short-footed
short-fruited
short-grained
short-growing
short-hair
short-hair plume grass
short-haired
short-handed
short-handled
short-haul
short-headed
short-headedness
short-keeled
short-hop airline
short-horned
short-horned grasshopper
short-jointed
short-keeled
short-laid
short-landed
short-lasting
short-leaf
short-leaved
short-legged
short-limbed
short-lined
short-list
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mousted
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shoulders
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suiter
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-termed
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shot-hole borer
shot-log
shot-peen
shot-put
shot-putter
shot-putting
shot-silk
shot-stified
shotgun marriage
shotgun microphone
shotgun pattern
shotgun wedding
shotten down
should want
should-be
shoulder a gun
shoulder angle
shoulder arm
shoulder arms
shoulder bag
shoulder bar
shoulder belt
shoulder blade
shoulder block
shoulder board
shoulder bone
shoulder brace
shoulder clod
shoulder flash
shoulder girdle
shoulder gun
shoulder knot
shoulder loop
shoulder mark
shoulder note
shoulder pad
shoulder patch
shoulder point
shoulder screw
shoulder sleeve insignia
shoulder slip
shoulder strap
shoulder to shoulder
shoulder tuft
shoulder weapon
shoulder-blade
shoulder-bone
shoulder-clap
shoulder-clapper
shoulder-high
shoulder-hitter
shoulder-knot
shoulder-piece
shoulder-shotten
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-moutherd
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show palce
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shriek-owl
shrift-father
shrike thrush
shrike tit
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sowar
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quaeris peninsulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
sickly-seeming
sickly-sweet
sickly-sweetness
sickness benefit
sickness insurance
sicut patribus sit Deus nobis
side action
side aisle
side arm
side arms
side ax
side band
side bar
side beam
side bench
side bet
side box
side boy
side brake
side by side
side cap
side car
side card
side chain
side chair
side chapel
side check
side chisel
side circuit
side cut
side cutting
side delivery
side dish
side door
side drum
side effect
side face
side frequency
side hatchet
side horse
side interest
side issue
side jointer
side keelson
side ladder
side lamp
side light
side line
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
side-look
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
sideslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siege perilous
siege piece
siege train
siege wagon
siege warfare
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sight reader
sight reading
sight rhyme
sight rule
sight screen
sight seeing trip
sight setter
sight unseen
sight vane
sight-feed
sight-hole
sight-read
sight-reader
sight-reading
sight-saver type
sight-see
sight-seeing
sight-seer
sight-shot
sight-unseen transaction
sighting angle
sighting hood
sighting shot
sightless eyes
sigma finite set
sigma particle
sigma-ring
sigmoid flexure
sign a petition
sign and seal
sign away
sign factor
sign for
sign in
sign language
sign manual
sign of aggregation
sign of the cross
sign of the three balls
sign of the times
sign of the zodiac
sign off
sign on
sign on the dotted line
sign out
sign over
sign painter
sign painting
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
signal light
signal lights
signal mast
signal modulation
signal multiplier
signal noise ratio
signal of distress
signal oil
signal post
signal red
signal relay
signal rocket
signal separator
signal service
signal shot
signal siren
signal squirter
signal tower
signal whistle
signal wire
signal-noise ratio
signal-to-noise ratio
signature loan
signature mark
signature tune
signed and sealed
signet ring
signet-ring
significance level
significant fact
significant figures
significant form
significate form
signify nothing
signifying nothing
signing on
signs manual
signs of the zodiac
silage cutter
silence cloth
silence of the grave
silence of the tomb
silent area
silent as a post
silent as a stone
silent as the grave
silent as the shadows
silent as the tomb
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicated soap
siliceo-
silici-
silicic acid
silicified wood
silicium bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitrimide
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk-stocking district
silk-stocking politics
silk-stocking ward
silk-stockinged
silk-tail
silk-tassel tree
silk-winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken-sailed
silken-sandaled
silken-shining
silken-soft
silken-threaded
silken-winged
silking machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silkworm seed
silky anteater
silky camellia
silky cornel
silky grass
silky oak
silky swallowwort
silky terrier
silky-barked
silky-black
silky-haired
silky-leaved
silky-looking
silky-smooth
silky-soft
silky-textured
silky-voiced
sill cock
sill course
sill floor
sill-like
silly Billy
silly about
silly ass
silly grin
silly over
silly season
silly smilesilly-billy
silly-faced
silly-facedly
silly-shally
silo filler
silt grass
silt up
siluro-
silver age
silver bass
silver beard grass
silver bell
silver birch
silver bromide
silver cat
silver certificate
silver chloride
silver citrate
silver cord
silver cyanide
silver dollar
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver nitrate
silver ore
silver oxide
silver paper
silver perch
silver plate
silver plater
silver plating
silver point
silver polish
silver powder
silver protein
silver queen
silver sage
silver salmon
silver salt
silver screen
silver smelter
silver spoon
silver standard
silver star medal
silver storm
silver thaw
silver threads among the gold
silver tin
silver tongue
silver vine
silver vitellin
silver wattle
silver wedding
silver wedding anniversary
silver white
silver-backed
silver-bar
silver-bar fish
silver-barked
silver-barred
silver-bearded
silver-bearing
silver-bell
silver-bell tree
silver-black
silver-bordered
silver-bright
silver-buskined
silver-chased
silver-chiming
silver-clasped
silver-clear
silver-coated
silver-colored
silver-coloured
silver-copper
silver-corded
silver-cupped
silver-eddied
silver-embroidered
silver-eye
silver-eyed
silver-eyes
silver-feathered
silver-fleeced
silver-flowing
silver-footed
silver-fork
silver-fronted
silver-glittering
silver-golden
silver-grained
silver-gray
silver-grey
silver-hafted
silver-hafted
silver-handled
silver-headed
silver-lace vine
silver-laced
silver-lead
silver-leafed
silver-leaved
silver-leaved linden
silver-leaved nightshade
silver-lined
silver-mail
silver-melting
silver-mounted
silver-penciled
silver-plate
silver-plated
silver-plating
silver-print drawing
silver-producing
silver-rag
silver-rimmed
silver-shafted
silver-shedding
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thralled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunk
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodied
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-caped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crested
single-crop
single-cross
single-current telegraphy
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
single-dotted
single-driver
single-edged
single-end
single-ended
single-entry
single-entry accounting
single-entry bookkeeping
single-eyed
single-file
single-filed
single-finned
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-hearted
single-heartedly
single-heartedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-leaded
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
tackle
single-wicket
wire
wired
out
d-out
liness of heart
liness of purpose
court
lar point
lar proposition
ister influence
ister-handed
istro-
ay
ack
boat
box
own
mind
despair
 oblivion
 the mind
like lead
 money in
 of corruption
 of iniquity
 or swim
or swim with
 your soul
ole
one
er bar
ker boat
er drill
ker wood
hole drainage
king bowl
king fund
king head
king heart
king speed
king stomach
king-fund
king-fund bond
king-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuoso-
sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
siphon cup
siphon gauge
siphon off
siphon recorder
siphon slide
siphon spillway
siphon-o-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
sitio-
sitka spruce
six-eared
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-o'clock
six-ounce
six-pack
six-part time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
six-three-three
six-time
six-ton
six-week
six-weeks grass
six-wheel
six-wheeled
six-wheeler
six-winged
six-yard
six-yard area
six-yard line
six-year
six-year-old
sixpenny bit
sixteen-foot
sixteen-foot stop
sixteen-pounder
sixteenth note
sixteenth rest
sixth chord
sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
sixty-eighth
sixty-fifth
sixty-first
sixty-five
sixty-four
sixty-four-dollar question
sixty-fourth
sixty-fourth note
sixty-fourth rest
sixty-nine
sixty-ninth
sixty-one
sixty-second
sixty-seven
sixty-seventh
sixty-six
sixty-sixth
sixty-third
sixty-three
sixty-two
size bone
size roll
size stick
size up
size up your measure
sizer die
sizer tap
sizing tool
sizing up
sizzling heat
sizzling hot
skate on thin ice
skate over
skate sailing
skating rink
skean dhu
skee-ball
skeel duck
skeel goose
skeeling goose
skeen arch
skeet shooting
skeleto-
skeleton at the feast
skeleton clock
skeleton company
skeleton construction
skeleton dance
skeleton drill
skeleton girder
skeleton in the closet
skeleton in the cupboard
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
ski suit
ski sweater
ski tow
ski troops
ski wax
ski-jumping
ski-plane
skia-
skid box
skid chain
skid engine
skid fin
skid landing gear
skid platform
skid road
skid row
skid to a stop
skid-row bum
skidding hooks
skidding sled
skidding trail
skiffle band
skill facet
skill with language
skill with words
skill-less
skill-lessness
skilled hand
skilled in
skilled laborer
skilled workman
skillet chopper
skim coat
skim colter
skim gate
skim milk
skim off
skim over
skim the surface
skin-breaking
skin-built
skin-clad
skin-clipping
skin-deep
skin-devouring
skin-dive
skin-dived
skin-diver
skin-diving
skin-dove
skin-peeled
skin-piercing
skin-plastering
skin-pop
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skinny as a lath
skinny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skip for joy
skip hoist
skip it
skip numbering
skip off
skip out
skip over
skip rope
skip straight
skip through
skip tracer
skip zone
skip-bomb
skip-bombing
skip-kennel
skipjack pike
skipjack tuna
skipping rope
skipping-rope
skirmish drill
skirmish line
skirt cassock
skirt chaser
skirt dance
skirt dancer
skirt marker
skirt of tasses
skirt the shore
skirt-dancer
skirting board
skirting table
skirting-board
skittle alley
skittle ball
skittle out
skittle pool
skittle pot
skittle-shaped
skivvy shirt
skookum-house
skrim shander
skua gull
skulk away
skull and crossbones
skull cracker
skull practice
skull session
skull-built
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky advertising
sky an oar
sky atlas
sky blue
sky compass
sky cover
sky dive
sky diver
sky diving
sky drain
sky farmer
sky gazer
sky gray
sky hooker
sky iron
sky line
sky map
sky marker
sky parlor
sky pilot
sky pipit
sky screen
sky shade
sky sign
sky train
sky truck
sky wave
sky-aspiring
sky-blasted
sky-blue
sky-blue pink
sky-born
sky-bred
sky-capped
sky-cast
sky-clad
sky-clear
sky-cleaving
sky-climbing
sky-color
sky-colored
sky-dive
sky-diving
sky-dome
sky-dyed
sky-elephant
sky-engendered
sky-facer
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rendering
sky-resembling
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraper
sky-sign
sky-throned
sky-tinted
sky-tinted
sky-touching
sky-worn
skye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slag cement
slag concrete
slag down
slag furnace
slag heap
slag hearth
slag sand
slag wool
slag-hearth
slag-lead
slag-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slapstick comedy
slapstick humor
slapstick quality
slash across
slash bar
slash mark
slash pine
slash pocket
slash the throat
slash-grain
slash-saw
slash-sawed
slash-sawing
slash-sawn
slat bonnet
slat sign
slat-back
slate ax
slate bed
slate black
slate blue
slate cement
slate clay
slate galiot
slate gray
slate green
slate olive
slate pencil
slate picker
slate purple
slate roof
slate spar
slate splitter
slate writer
slate writing
slate-beveling
slate-brown
slate-color
slate-colored
slate-colour
slate-cutting
slate-formed
slate-pencil
slate-spired
slate-strewn
slate-trimming
slate-violet
slaughter pen
slaughter tree
slaughter-breathing
slaughter-dealing
slaughter-house
slaughter-threatening
slave ant
slave broker
slave clock
slave cylinder
slave dealer
slave dealing
slave driver
slave fork
slave hunt
slave hunter
slave hunting
slave labor
slave labor camp
slave maker
slave market
slave ship
slave song
slave state
slave trade
slave trader
slave trading
slave-carrying
slave-collecting
slave-cultured
slave-deserted
slave-drive
slave-driver
slave-enlarging
slave-got
slave-grown
slave-labor
slave-making
slave-making ant
slave-merchant
slave-owning
slave-peopled
slave-trade
slaver over
slavo-
slay en masse
sleave silk
sleave-silk
sled cultivator
sled dog
sled harvester
sled knife
sled lister cultivator
sled marker
sled part
sled-log
sledge chair
sledge dog
sledge hammer
sledge-hammer
sleek stone
sleek-browed
sleek-faced
sleek-haired
sleek-headed
sleek-leaf
sleek-looking
sleek-skinned
sleeker-up
sleep around
sleep at your post
sleep drink
sleep in
sleep it off
sleep like a log
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedeafened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewded
sleep-dispelling
sleep-disturbing
sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slender-flanked
slender-flowered
slender-footed
slender-hipped
slender-jawed
slender-jointed
slender-leaved
slender-legged
slender-limbed
slender-looking
slender-muzzled
slender-nosed
slender-podded
slender-shafted
slender-shouldered
slender-spiked
slender-stalked
slender-stemmed
slender-striped
slender-tailed
slender-toed
slender-trunked
slender-waisted
slender-witted
slenderness ratio
sleuth-hound
slew rope
slew-eyed
slibber-sauce
slice bar
slice galley
slice of life
slice the melon
slice the pie
slice up
slick as a whistle
slick chick
slick citizen
slick down
slick magazine
slick on
slick stone
slick up
slick-ear
slick-faced
slick-haired
slick-looking
slick-spoken
slick-talking
slick-tongued
slicked up
slicker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slide viewer
slide-
slide-action
slide-easy
slide-groat
slide-rest
slide-rest lathe
slide-rock
slide-rule
slide-rule warfare
slide-valve
slide-valve engine
slide-wire
slide-wire bridge
slider crank
slider-crank chain
sliding board
sliding fit
sliding friction
sliding keel
sliding scale
sliding seat
sliding vector
sliding way
sliding-gear
sliding-scale
sliding-scale premium
slight knowledge
slight over
slight stretching
slight wrong
slight-billed
slight-bottomed
slight-built
slight-esteemed
slight-informed
slight-limbed
slight-looking
slight-made
slight-natured
slight-seeming
slight-shaded
slight-timbered
slim chance
slim down
slim pickings
slim-ankled
slim-built
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
cable
collar
memory
through
through your fingers
through your hands
tongue
up
ware
washer
wool
you a Mickey
you a Mickey Finn
cable
your mind
-
along
knot
on
rail
ring
sheet
shelled
shoe
skin
slop
stitch
string
tongue wheel
top
up
way
coat cheese
wool
disc
disk
tendon
wing
animalcule
animalcules
bath
block
boat
brake
chair
drag
foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
slocking stone
sloe gin
slope-lettered
sloped-roofed
sloped-sided
sloped-toothed
sloped-walled
sloping downward
sloping upward
sloppy Joe
sloppy joe
slosh wheel
slot and filler
slot burner
slot conveyer
slot driller
slot file
slot machine
slot man
slot mortise
slot rail
slot washer
slot winding
slot-boring
slot-drill
slot-drilling
slot-drilling machine
slot-headed
slot-spike
sloth animalcule
sloth bear
sloth monkey
sloth tree
sloting auger
sloting drill
sloting end mill
sloting file
sloting machine
slouch around
slouch hat
slough bass
slough grass
slough ice
slough of despond
slough off
slough over
sloughly performance
slow ahead
slow and careful steps
slow as death
slow as molasses
slow as slow
slow astern
slow burn
slow coach
slow down
slow goer
slow handclap
slow loris
slow march
slow market
slow match
slow motion
slow neutron
slow off the mark
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endeavoring
slow-extinguished
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speeched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small octave
small pastern bone
small pica
small place
small potato
small potatoes
small price tag
small print
small royal
small screen
small share
small signal hybrid open circuit
small signal open circuit
small signal short circuit
small slam
small space
small stores
small stuff
small talk
small time
small tradesmen
small voice
small woodbine
small years
small-credited
small-ankled
small-arm
small-armed
small-arms
small-beer
small-billed
small-boat
small-bodied
small-boned
small-bore
small-boyhood
small-boyish
small-brained
small-caliber
small-celled
small-claims court
small-clawed
small-clothes
small-college
small-colleger
small-cornered
small-craft warning
small-crowned
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruited
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-mindedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
small-sword
small-tailed
small-talk
small-threaded
small-timbered
small-time
small-timer
small-tired
small-toned
small-tooth
small-toothed
small-topped
small-town
small-towner
small-trunked
small-type
small-visaged
small-visioned
small-ware
small-wheeled
small-windowed
smallmouth bass
smallpox plant
smallpox-proof
smalt green
smalt-blue
smart aleck
smart as a whip
smart ass
smart crack
smart money
smart operator
smart pace
smart saying
smart set
smart-aleck
smart-aleckiness
smart-alecky
smart-ass
smart-built
smart-cocked
smart-dressing
smart-looking
smart-money
smart-spoken
smart-stinging
smart-talking
smart-tongued
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piecer
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smattering of ignorance
smattering of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
smoke-consuming
smoke-consumptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby's ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-billed
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-forehead
smooth-fronted
smooth-fruited
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smooth-stemmed
smooth-surfaced
smooth-tailed
smooth-taper
smooth-taper drift
smooth-tempered
smooth-textured
smooth-tined
smooth-tired
smooth-tongued
smooth-voiced
smooth-walled
smooth-winding
smooth-winged
smooth-working
smooth-woven
smooth-writing
smooth-wrought
smoothback flounder
smoothbore gun
smoothbore weapon
smoothed out
smoother-over
smoothhound shark
smoothing box
smoothing iron
smoothing mill
smoothing of the way
smoothing plane
smother crop
smother fire
smother fly
smother-kiln
smothered mate
smudge fire
smudge pot
smug-faced
smug-looking
smug-skinned
smuggle in
smuggled goods
smut ball
smut fungus
smut gall
smut grass
smut mill
smut-free
smutty-faced
smutty-nosed
smutty-yellow
snack bar
snack stool
snack table
snaffle bit
snaffle-bridled
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snail countersink
snail fever
snail horn
snail medic
snail plant
snail shell
snail trefoil
snail wheel
snail's pace
snail-horned
snail-like
snail-likeness
snail-paced
snail-seed
snail-shell
snail-slow
snake bearer
snake bite
snake blenny
snake boat
snake buzzard
snake cactus
snake cane
snake charmer
snake crane
snake cucumber
snake dance
snake doctor
snake eel
snake eggplant
snake eyes
snake feeder
snake fence
snake fern
snake fly
snake foot
snake gentian
snake gourd
snake guide
snake hole
snake idol
snake in the grass
snake juice
snake killer
snake leaf
snake lily
snake line
snake mackerel
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarl defiance
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
snav-broo
sneak attack
sneak boat
sneak box
sneak current
sneak in
sneak off
sneak out
sneak out of
sneak preview
sneak shooting
sneak thief
sneak thievery
sneak through
sneak-
sneak-cup
sneak-up
sneaking suspicion
sneaky pete
sneck band
sneck drawer
sneck harling
sneck hook
sneck posset
sneck-drawer
sneer at
sneeshing box
sneeshing mill
sneeshing mull
sneeze at
sneeze gas
sneeze weed
sneezewort tansy
sneezewort yarrow
sneezing gas
snick and snee
snick drawer
snick-a-snee
snick-and-snee
snick-and-snee knife
snick-snarl
snicker at
sniff at
sniff out
sniffle valve
sniffles, the
snifter valve
snifting valve
snow cup
snow devil
snow dust
snow eater
snow eyes
snow fence
snow field
snow finch
snow flea
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow partridge
snow pea
snow peak
snow pear
snow pellets
snow pheasant
snow pigeon
snow plant
snow plume
snow poppy
snow pudding
snow quail
snow rack
snow roller
snow rose
snow rosette
snow scale
snow sheen
snow sleep
snow slope
snow slush
snow smoke
snow snake
snow squall
snow stake
snow stream
snow tire
snow track
snow train
snow tree
snow trillium
snow tyre
snow under
snow vine
snow vole
snow water
snow white
snow wreath
snow-barricaded
snow-bearded
snow-beaten
snow-beater
snow-besprinkled
snow-blanketed
snow-blind
snow-blinded
snow-blown
snow-bright
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleeced
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
soap stone
soap test
soap the ways
soap tree
soap-boiler
soap-bubble
soap-fast
soap-maker
soapbark tree
soapberry family
soapberry tree
soapbox derby
soapbox orator
soapwort gentian
soar falcon
soar hawk
soaring costs
soaring heights
soaring plane
soaring prices
sob sister
sob story
sob stuff
sobe it
sober as a judge
sober down
sober fact
sober off
sober reality
sober senses
sober up
sober-blooded
sober-clad
sober-disposed
sober-eyed
sober-headed
sober-headedness
sober-minded
sober-mindedly
sober-mindedness
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social Darwinism
social Darwinist
social accounting
social activity
social affair
social anthropologist
social anthropology
social assistance
social barrier
social bee
social call
social circle
social class
social climber
social climbing
social code
social compact
social conduct
social conscience
social consciousness
social contract
social control
social convention
social critic
social dancer
social dancing
social democracy
social democrat
social differentiation
social director
social discrimination
social disease
social disorganization
social distance
social drinker
social drinking
social environment
social ethics
social evolution
social full-dress uniform
social gathering
social gospel
social grace
social graces
social grouping
social heritage
social incompatibility
social insurance
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretary
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjusive reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium biborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionite
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydrate
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulfi
sodium hyposulfite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suing agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium sulphate
sodium thiocyanate
sodium thiopental
sodium thiosulfate
sodium thiosulphate
sodium tungstate
sodium vapor
sodium-vapor lamp
sodium-vapour lamp
sofa bed
sofa bedstead
sofa corner
sofa cover
sofa cushion
sofa maker
sofa pillow
sofa seat
sofa table
sofa-bed
sofa-ridden
soffit brick
soft armor
soft as a kiss
soft as a sigh
soft as clay
soft as dough
soft as putty
soft as silk
soft binding
soft chancre
soft clam
soft coal
soft color
soft currency
soft diet
soft drink
soft focus
soft furnishings
soft goods
soft ground
soft hail
soft hat
soft ice cream
soft in the head
soft landing
soft market
soft nose stem
soft on
soft palate
soft paste
soft patch
soft pedal
soft phototube
soft phrases
soft place in your heart
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-haired
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartedness
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleeping
soft-sliding
soft-slow
soft-smiling
soft-soap
soft-soaper
soft-soaping
soft-solder
soft-soothing
soft-sounding
soft-speaking
soft-spirited  
soft-spleened  
soft-spoken  
soft-spread  
soft-spun  
soft-steel  
soft-swelling  
soft-tailed  
soft-tanned  
soft-tempered  
soft-throbbing  
soft-timbered  
soft-tinted  
soft-toned  
soft-tongued  
soft-treading  
soft-voiced  
soft-wafted  
soft-warbling  
soft-water  
soft-whispering  
soft-winged  
soft-witted  
soft-wooded  
soft-yielding  
soft-blowing wind  
soften the blow  
soften up  
softening of the brain  
softening point  
softening-up  
softer sex  
softwood tree  
soi-disant  
soil bank  
soil binder  
soil cap  
soil cement  
soil chemistry  
soil conditioner  
soil conservation  
soil mechanics  
soil miller  
soil mulch  
soil pipe  
soil profile  
soil rot  
soil science
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar ecliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solari-
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wig
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
sole-bound
sole-channeling
sole-commissioned
sole-cutting
sole-deep
sole-finishing
sole-happy
sole-justifying
sole-leather
sole-leather kelp
sole-living
sole-lying
sole-ruling
sole-saving
sole-seated
sole-shaped
sole-stitching
sole-sufficient
sole-thoughted
sole-walking
solemn affirmation
solemn declaration
solemn form
solemn mass
solemn mockery
solemn oath
solemn observance
solemn secret
solemn silence
solemn vow
solemn word
solemn-breathing
solemn-browed
solemn-cadenced
solemn-eyed
solemn-garbed
solemn-looking
solemn-mannered
solemn-measured
solemn-proud
solemn-seeming
solemn-shaded
solemn-sounding
solemn-thoughted
solemn-toned
solemn-visaged
solemnly mark
soleno-
solenoid brake
solent goose
solera sherry
solferino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somat-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
somni-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
song-and-dance
song-and-dance act
song-bird
song-book
song-fraught
song-play
song-school
song-singing
song-smith
song-timed
song-tuned
song-worthy
sonic barrier
sonic boom
sonic depth finder
sonic depth sounder
sonic mine
sonic speed
sonic wall
sonnet sequence
sonny boy
sonority syllable
sons of Belial
sons of Martha
sons of guns
sons of men
sons of the devil
sons-in-law
soogee-moogee
soola clover
soon enough
soon-believing
soon-choked
soon-clad
soon-consoled
soon-contented
soon-descending
soon-done
soon-drying
soon-ended
soon-fading
soon-known
soon-mended
soon-monied
soon-parted
soon-quenched
soon-repeated
soon-repenting
soon-rotting
soon-said
soon-sated
soon-speeding
soon-tired
soon-wearied
sooner or later
sooner than
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbic acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressed-sore-taxed
sore-taxed
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunken
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostinente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou’-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthralling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humbling
soul-illumined
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-rending
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
souple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned
sour-dough
sour-eyed
sour-faced
sour-featured
sour-headed
sour-looked
sour-looking
sour-natured
sour-sap
sour-sap disease
sour-smelling
sour-sop
sour-sweet
sour-tasted
sour-tasting
sour-tempered
sour-tongued
sour-visaged
source book
source material
source of aesthetic delight
source of aesthetic pleasure
source of light
source of supply
source program
sourdough bread
soured cream
sous-
sous-lieutenant
sous-prefect
south about
south african
south by east
south by west
south country
south pole
south sea
south wind
south-
south-blowing
south-borne
south-east
south-easterly
south-eastern
south-eastward
south-facing
south-following
south-preceding
south-seaman
south-seeking
south-side
south-south-east
south-south-west
south-southeast
south-southeasterly
south-southeastward
south-southerly
south-southwest
south-southwesterly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
space washer
space writer
space-bar
space-charge effect
space-crammed
space-embosomed
space-filling
space-lattice
space-occupying
space-penetrating
space-pervading
space-piercing
space-polar
space-saving
space-spread
space-thick
space-time
space-time continuum
space-traveling
space-world
spaced out
spaced-antenna direction finder
spaced-loop direction finder
spaced-out
spaceport station
spacing Telegraphy
spacious mind
spacious of mind
spackling compound
spade bayonet
spade beard
spade cassino
spade convention
spade face
spade foot
spade graft
spade grass
spade guinea
spade handle
spade iron
spade lug
spade maker
spade money
spade press
spade rudder
spade-beard
spade-bearded
spade-cut
spade-deep
spade-dug
spade-footed
spade-fronted
spade-shaped
spade-trenched
spadefoot toad
spadici-
spading fork
spading harrow
spae-man
spaghetti Western
spaghetti and meat balls
spaghetti western
spall off
spallling hammer
span blocks
span dog
span iron
span loading
span of apprehension
span of attention
span of meaning
span roof
span shackle
span-
span-counter
span-farthing
span-hapenny
span-long
span-new
span-roof
spandrel frame
spandrel step
spandrel wall
spang-new
spangle-baby
spangled glass
spanish american
spanish bayonet
spanish broom
spanish fly
spanish heel
spanish influenza
spanish mackerel
spanish moss
spanish needles
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handedly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
spark generator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
spark-plug
spark-plug wrench
sparked-back
sparking lamp
sparking plug
sparking points
sparking voltage
sparkle metal
speak falsely
speak for
speak for Buncombe
speak for itself
speak highly of
speak ill of
speak ill of behind your back
speak imperfectly
speak in high terms of
speak in privacy
speak in riddles
speak in tongues
speak incoherently
speak inopportunely
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightly of
speak soothing words
speak the truth
speak thickly
speak through your nose
speak to
speak to the winds
speak too late
speak too soon
speak true
speak up
speak up for
speak volumes
speak warmly of
speak well for
speak well of
speak with
speak with forked tongue
speak words of wisdom
speak your mind
speak your piece
speak-easy
speaker hole
speaker key
speaker system
speaker unit
speaker's platform
speaker's stand
speaking arc
speaking clock
speaking generally
speaking in tongues
speaking of
speaking part
speaking pipe
speaking rod
speaking stop
speaking terms
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialité de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
specialty contract
specialty shop
specialty stock
specie payment
specie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
spectacle case
spectacle clew
spectacle coot
spectacle frame
spectacle furnace
spectacle iron
spectacle stone
spectacled cobra
spectator sport
specter bat
specter candle
specter crab
specter lemur
specter shrimp
specter-fighting
specter-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speech day
speech defect
speech form
speech from the throne
speech house
speech impediment
speech island
speech map
speech melody
speech organ
speech pathology
speech reading
speech rhythm
speech room
speech situation
speech sound
speech sounds
speech tune
speech-bereaving
speech-bereft
speech-bound
speech-famed
speech-flooded
speech-maker
speech-reading
speech-reporting
speech-shunning
speech-writing
speed along
speed away
speed boss
speed box
speed comparisons
speed cone
speed cones
speed control
speed controller
speed cop
speed counter
speed demon
speed flag
speed frame
speed freak
speed gauge
speed gear
speed indicator
speed lamp
speed lathe
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
spek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spelling pronunciation
spelling reform
spelling reformer
spelter calciner
spelter chills
spelter solder
spencer mast
spend a penny
spend as if money grew on trees
spend like a drunken sailor
spend money like water
spend more than you have
spend the time
spend time
spend what you haven't got
spend your time in
spend yourself
spend yourself for
spend-all
spend-good
spending money
spending-money
spendthrift of your tongue
spendthrift trust
spenserian sonnet
spenserian stanza
spent-gnat
spent-gnat fly
sperm aster
sperm candle
sperm cell
sperm center
sperm nucleus
sperm oil
sperm receptor
sperm sac
sperm whale
sperm whaler
sperm whaling
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spici-
spick and span
spick and span new
spick-and-span
spick-and-spandy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesia
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spine-tailed swift
spine-tipped
spinel group
spinel pink
spinel ruby
spinel-red
spinet desk
spini-
spinnaker boom
spinnaker pole
spinnaker staysail
spinner of yarns
spinner play
spinning axis
spinning box
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mamilla
spinning mite
spinning mule
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spinocerebellar tract
spinous process
spinous-branched
spinous-finned
spinous-foliaged
spinous-leaved
spinous-pointed
spinous-serrate
spinous-tailed
spinous-tipped
spinous-toothed
spinul-, spinul-.
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruited
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-gear
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-prompted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spircketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
splanchno-
splash back
splash dam
splash feed
splash guard
splash lubrication
splash of rain
splash out
splash system
splash zone
splash-
splash-down
splash-lubricate
splash-tight
splat-back
splatter-faced
splay-edged
splay-footed
splay-kneed
splay-legged
splay-mouthed
splay-toed
spleen amaranth
spleen stone
spleen-born
spleen-devoured
spleen-pained
spleen-piercing
spleen-shaped
spleen-sick
spleen-struck
spleen-swollen
spleenwort bush
splen-
splendid isolation
splenic fever
spleno-
splenic bar
splice box
splice graftage
splice grafting
splice the main brace
splicing chamber
splicing hammer
spline broach
spline clutch
spline joint
spline milling machine
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
splint-bottom
splint-bottomed
splinter bar
splinter bulkhead
splinter deck
splinter group
splinter party
splinter-bar
splinter-proof
splish-splash
split 'S'
split T formation
split balance
split decision
split flap
split hairs
split in two
split infinitive
split nut
split open
split pea
split personality
split rail
split run
split schedule
split screen
split second
split shift
split shot
split shovel
split spindle
split sprit
split stroke
split the atom
split the difference
split the ear
split the eardrums
split the ears
split the lungs
spoiled child
spoiled darling
spoiled rotten
spoiling for
spoils of office
spoils system
spoke auger
spoke in your wheel
spoke stitch
spoke-dog
spoken language
spoken word, the
spolia opima
spon-image
spondylitis deformans
sponge bag
sponge bath
sponge cake
sponge cloth
sponge cucumber
sponge diver
sponge down
sponge drop
sponge finger
sponge fisher
sponge fisherman
sponge gourd
sponge grafting
sponge hook
sponge iron
sponge mop
sponge off
sponge on
sponge out
sponge pudding
sponge rubber
sponge tree
sponge up
sponge-bearing
sponge-cake
sponge-colored
sponge-diving
sponge-fishing
sponge-footed
sponge-leaved
sponge-painted
sponge-shaped
spongi-
sponging house
sponging-house
spongio-
spongo-
spongy-flowered
spongy-footed
spongy-looking
spongy-rooted
spongy-wet
spongy-wooded
spontaneous combustion
spontaneous generation
spontaneous recovery
spontaneous response
spool bed
spool turner
spool turning
spool winder
spool-shaped
spooling bracket
spoon bait
spoon bit
spoon bow
spoon brake
spoon bread
spoon chisel
spoon end
spoon food
spoon gouge
spoon hook
spoon iron
spoon lever
spoon meat
spoon nail
spoon net
spoon oar
spoon out
spoon tool
spoon victual
spoon victuals
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
spot-eared
spot-face
spot-grind
spot-leaved
spot-lipped
spot-mill
spot-on
spot-soiled
spot-weld
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted cowbane
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cowslip
spring cress
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphis
spring grass
spring green
spring gun
spring hammer
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-wheel
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
spring-head
spring-headed
spring-heeled
spring-jointed
spring-loaded
spring-lock
spring-made
spring-peering
spring-planted
spring-plow
spring-rail frog
spring-raised
spring-seated
spring-set
spring-snecked
spring-sowed
spring-sown
spring-spawning
spring-stricken
spring-tail
spring-taught
spring-tempered
spring-tide
spring-tight
spring-tooth harrow
spring-touched
spring-trip
spring-trip hoe
spring-well
spring-wood
springer spaniel
springing cow
springing line
springing point
springing wall
springtide of life
springtime of life
sprinkler head
sprinkler system
sprinkling can
sprinkling system
sprint car
sprint medley
sprint race
sprite crab
spritsail topmast
spritsail yard
sproat hook
sprocket wheel
sprout cell
sprout forest
sprout from
sprout up
sprout wings
sprouted oats
spruce bark beetle
spruce beer
spruce budworm
spruce fir
spruce grouse
spruce pine
spruce sawfly
spruce up
spruce yellow
spruced up
sprung molding
sprung rhythm
spud casing
spud in
spud-bashing
spudding bar
spule-bane
spun glass
spun hay
spun out
spun rayon
spun silk
spun sugar
spun yarn
spun-out
spunk up
spur bit
spur blight
spur bunting
spur chuck
spur dike
spur forger
spur fowl
spur gall
spur gear
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-geared
spur-gilled
spur-heel
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squadrons-left
squadrons-right
squall cloud
squall line
squam duck
squam-
squam-
squam-occipital
squamoso-
squamous epithelium
squander in dribs and drabs
squanter-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square meter
square mile
square millimeter
square number
square odds
square of opposition
square off
square one
square peg in a round hole
square piano
square rig
square root
square root planimeter
square sail
square serif
square set
square shake
square shooter
square shooting
square splice
square the circle
square the yards
square things
square tin
square up
square wave
square with
square with the evidence
square with the facts
square yourself with
square-John
square-barred
square-based
square-bashing
square-bladed
square-bodied
square-bottomed
square-browed
square-built
square-butted
square-cheeked
square-chinned
square-countered
square-cut
square-dancer
square-dealing
square-draw
square-drill
square-eared
square-edged
square-elbowed
square-faced
square-figured
square-fronted
square-headed
square-hewn
square-jawed
square-jointed
square-leg
square-lipped
square-looking
square-made
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-sterned
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
squaring lathe
squaring the circle
squarroso-
squarroso-dentate
squarroso-laciniate
squarroso-pinnatipartite
squarroso-pinnatissect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squel on
squegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
squinnancy berry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
squirrel-trimmed
squirrels-foot fern
squirreltail grass
squirt can
squirt gun
squirt-fire
squirtling cucumber
squish-squash
squitich grass
stab at
stab culture
stab in the back
stab kick
stab pass
stab to death
stab wages
stab wound
stabat mater
stabbing pain
stabilization fund
stable color
stable door
stable equation
stable equilibrium
stable fly
stable oscillation
stable police
stable state
stable-born
stable-stand
staccato mark
staccato sound
stack against
stack of bones
stack process
stack room
stack the cards
stack the deck
stack up
stack up with
stack-garth
stacked deck
stacking band
stacking belt
stacking swivel
stadia hair
stadia rod
stadia wire
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
staff vine
staff walk
staff work
staff-herd
staff-tree family
staffordshire terrier
stag beetle
stag bush
stag dance
stag film
stag gang
stag moss
stag party
stag sumac
stag the market
stag tick
stag’s-horn coral
stag-beetle
stag-evil
stag-eyed
stag-hafted
stag-handled
stag-headed
stag-headedness
stag-horn
stag-horned
stag-necked
stag-sure
stage boat
stage box
stage brace
stage business
stage carriage
stage cloth
stage coachman
stage direction
stage directions
stage director
stage door
stage effect
stage fright
stage left
stage lighting
stage management
stage manager
stage managership
stage micrometer
stage name
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunk
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stall angl
stall angle
stall angle of attack
stall around
stall for time
stall landing
stall net
stall off
stall plate
stall reader
stall-fed
stall-feed
stall-feeding
stall-like
stall-master
stalling angle
stalling angle of attack
stalling speed
stallion plague
stamin-
stamp and go
stamp battery
stamp book
stamp booklet
stamp copper
stamp dealer
stamp duty
stamp hammer
stamp in the memory
stamp licker
stamp mill
stamp note
stamp of approval
stamp on
stamp out
stamp pad
stamp rock
stamp tax
stamp upon
stamp your foot
stamp-licking
stamped on the memory
stamped securities
stamping ground
stamping mill
stance fatigue
stanch friendship
stanchion gun
stand a chance
stand a good chance
stand aghast
stand agog
stand alone
stand aloof
stand aloof from
stand and be counted against
stand apart
stand around
stand aside
stand at attention
stand at bay
stand at ease
stand at parade rest
stand at the head
stand away
stand back
stand back of
stand bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauge
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
standing high jump
standing jump
standing lug
standing martingale
standing matter
standing on end
standing on its base
standing on its feet
standing on its legs
standing order
standing orders
standing ovation
standing place
standing rigging
standing room
standing room only
standing salt
standing stone
standing to
standing treat
standing up
standing upright
standing vise
standing water
standing wave
standing way
standing-place
standing-wave indicator
standoff coat
standoff half
stanford-binet test
stank hen
stann-
stannel hawk
stannic acid
stannic oxide
stannic sulfide
stannic sulphide
stanno-
stannoso-
staphylo-
staple fiber
staple fur
staple item
staple punch
staple right
staple-fashion
staple-headed
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star cucumber
star cut
star density
star disk
star drift
star drill
star dust
star facet
star feed
star fern
star finch
star finder
star fort
star gauge
star gear
star ghost
star gooseberry
star grass
star hummingbird
star hyacinth
star image
star in the firmament
star ipomoea
star jasmine
star jelly
star lily
star lot
star map
star metal
star motion
star network
star of David
star of bethlehem
star of david
star pagoda
star pepper
star phlox
star pine
star place
star plate
star plum
star point
star polygon
star position
star quartz
star ratio
star reed
star route
star ruby
star sapphire
star saxifrage
star scout
star shake
star shell
star shifter
star shower
star skunk
star slough
star spectroscope
star spray
star stream
star streaming
star system
star thistle
star time
star trail
star tulip
star turn
star violet
star wheel
star winding
star worship
star worshiper
star-apple
star-aspiring
star-bearing
star-bedecked
star-bedizened
star-bespotted
star-bestudded
star-blasting
star-born
star-bright
star-broidered
star-chamber
star-climbing
star-connected
star-crossed
star-crossed life
star-decked
star-directed
star-distant
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
starting line
starting note
starting place
starting point
starting post
starting price
starting punch
starting stalls
starting step
starting torque
starting-hole
startle the echoes
startling resemblance
starvation diet
starvation treatment
starvation wages
starved-looking
stash away
stat mi
state a grievance
state aid
state assembly
state attorney
state bank
state bond
state capitalism
state chairman
state chamber
state church
state college
state convention
state coordinate system
state flower
state forest
state guard
state highway
state hospital
state legislature
state medicine
state mutual
state note
state of affairs
state of being
state of being one
state of expectancy
state of grace
state of mind
state of nature
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
state-provided
state-provisioned
state-pring
state-ridden
state-room
state-ruling
state-socialist
state-taxed
state-wide
state-wielding
stated cause
stated clerk
stated value
stateless person
stately home
stately-beauteous
stately-grave
stately-paced
stately-sailing
stately-storied
stately-written
statement covering the evidence
statement covering the facts
statement of belief
statement of claim
statement of defense
statement of facts
statement of principles
statement under oath
states general
states' righter
states' rights
states-people
static ceiling
static electricity
static field
static firing
static friction
static line
static propeller thrust
static stability
static tube
static water
station agent
station break
station day
station error
station hospital
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
station pole
station selector
station wagon
station-house
station-to-station
station-to-station call
stationary dive
stationary engine
stationary engineer
stationary engineering
stationary front
stationary orbit
stationary point
stationary state
stationary wave
stationery store
stations for diving
stations of the Cross
stations of the cross
statistical communication
statistical independence
statistical mechanics
statistical prediction
statistical probability
statistical survey
statistically probable
stato-
statu quo ante
statuary bronze
statuary marble
statue maker
statue making
statue of liberty
statue-blind
statue-bordered
statue-turning
statuelike repose
statues personal
status emphaticus
status in quo
status quo
status quo ante
status seeker
status symbol
status-seeking
statute book
statute fair
statute labor
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
statute-barred
statute-book
statutes mixed
statutory crime
statutory declaration
statutory law
statutory lien
statutory next of kin
statutory offense
statutory rape
statutory referendum
staunch belief
staunch friend
staunch friendship
stauro-
stave basket
stave in
stave oak
stave off
stave pipe
stave rhyme
stay alert
stay alive
stay aloof
stay at
stay at home
stay awake
stay away
stay away in droves
stay bar
stay boom
stay briefed
stay busk
stay chain
stay detached from
stay employed
stay for
stay foresail
stay girder
stay hole
stay in hiding
stay in line
stay in shape
stay in soundings
stay in the background
stay in the shade
stay inshore
stay it out
stay late
stay law
stay near
stay of execution
stay on
stay on the beam
stay on the treadmill
stay on your heels
stay on your tail
stay out
stay over
stay pin
stay plow
stay put
stay stitching
stay tackle
stay tap
stay the distance
stay tube
stay up
stay up for
stay up into the small hours
stay up late
stay with it
stay young
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stayed, stay-ship
stayed, stay-tape
stayed over, staying over
stayed, staying power
staysail schooner
steadfast faith
steadfast, steady market
steadfast, steady nerves
steadfast, steady pin
steadfast, steady rest
steadfast, steady so
steadfast, steady state
steadfast, steady state theory
steadfast, steady temper
steadfast, steady-eyed
steadfast, steady-footed
steadfast, steady-going
steadfast, steady-handed
steadfast, steady-handedness
steadfast, steady-headed
steadfast, steady-hearted
steadfast, steady-looking
steadfast, steady-minded
steadfast, steady-nerved
steadfast, steady-state theory
steadfast, steady-state universe
steadfast, steady-stream
steadfast, steady as you go
steak, steak and kidney pie
steak, steak hammer
steak, steak knife
steak, steak raid
steak, steak set
steak, steak tartar
steak, steak tartare
steak, steal a march
steak, steal a march on
steak, steal a march upon
steak, steal along
steak, steal away
steak, steal in
steak, steal on the ear
steak, steal the show
steak, steal up on
steak, steal your stuff
steak, steal your thunder
steam, steam at flank speed
steam, steam bath
steam beer
steam blow
steam blower
steam boiler
steam boiler insurance
steam box
steam cabinet
steam carriage
steam case
steam chest
steam cleaner
steam cleaning
steam coal
steam cock
steam coil
steam color
steam condenser
steam cure
steam cylinder
steam digger
steam distillation
steam dome
steam dredger
steam drop
steam drop hammer
steam engine
steam engineer
steam engineering
steam excavator
steam feed
steam filature
steam fire engine
steam fit
steam fitter
steam fitting
steam fog
steam frigate
steam gas
steam gauge
steam gun
steam hammer
steam harvester
steam heat
steam heater
steam heating
steam in line
steam in line of bearing
steam injector
steam iron
steam jacket
steam jammer
steam joint
steam knife
steam lance
steam lap
steam launch
steam lead
steam line
steam locomotive
steam loop
steam mason
steam metal
steam molder
steam navvy
steam nigger
steam nozzle
steam organ
steam owner
steam packing
steam piano
steam pipe
steam piping
steam plow
steam point
steam port
steam power
steam press
steam printing
steam propulsion
steam pump
steam radiator
steam radio
steam ram
steam road
steam roller
steam room
steam schooner
steam shovel
steam sizes
steam sloop
steam stamp
steam still
steam table
steam tackle
steam thresher
steam trap
steam tug
steam turbine
steam twill
steam up
steam valve
steam vessel
steam whistle
steam yacht
steam-boiler
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-launched
steam-pocket
steam-processed
steam-propelled
steam-ribbed
steam-rolled
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamer basket
steamer captain
steamer chair
steamer clam
steamer contract
steamer crew
steamer cruise
steamer dock
steamer duck
steamer freight
steamer funnel
steamer hull
steamer landing
steamer lane
steamer line
steamer passenger
steamer port
steamer road
steamer route
steamer rug
steamer sailing
steamer service
steamer siren
steamer smoke
steamer smokestack
steamer subsidy
steamer ticket
steamer track
steamer traffic
steamer travel
steamer trunk
steamer voyage
steamer wharf
steamer whistle
steamer-borne
steaming up
steamroller methods
steamroller through
steamship coal
steamship company
steamship freight
steamship lane
steamship line
steamship mail
steamship office
steamship route
steamship service
steamship ticket
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pen
steel-plated
steel-pointed
steel-rimmed
steel-riveted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
steer clear of
steer for
steer oar
steer toward
steerage passenger
steering arm
steering axle
steering box
steering bridge
steering column
steering committee
steering crutch
steering engine
steering fan
steering fork
steering gear
steering handle
steering head
steering joint
steering knuckle
steering lever
steering light
steering line
steering lock
steering oar
steering pillar
steering wheel
stego-
stellar cosmogony
stellar magnitude
stellar photometry
stellate-crystal
stellate-crystal fungus
stellate-pubescent
stem anchor
stem blight
stem borer
stem break
stem canker
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step dancing
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stereo camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
stern anchor
stern board
stern boat
stern chase
stern chaser
stern fast
stern frame
stern gallery
stern gun
stern hatch
stern hatchway
stern hook
stern knee
stern ladder
stern line
stern race
stern rail
stern sea
stern sheets
stern staysail
stern timber
stern tube
stern walk
stern wave
stern wheel
stern window
stern-bearer
stern-board
stern-born
stern-browed
stern-chase
stern-chaser
stern-eyed
stern-faced
stern-fast
stern-featured
stern-gated
stern-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
stetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick around or about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stick-at-itive
stick-at-itivity
stick-at-nothing
stick-back
stick-button
stick-candy
stick-dice
stick-ear
stick-in-the-mud
stick-jaw
stick-lac
stick-leg
stick-legged
stick-out
stick-ride
stick-to-it-iveness
stick-to-itive
stick-to-itably
stick-to-itiveness
stick-up
sticker-in
sticker-on
sticker-up
sticking out
sticking piece
sticking place
sticking plaster
sticking point
sticking power
sticking salve
sticking tommy
stickle for
sticks and stones
sticks, the
sticktight flea
stickup job
stickup man
sticky dog
sticky end
sticky fingers
sticky mess
sticky tape
sticky weather
sticky wicket
sticky willie
sticky-eyed
sticky-fingered
stiff as a poker
stiff as buckram
stiff aster
stiff bit
stiff breeze
stiff climb
stiff collar
stiff gentian
stiff market
stiff neck
stiff price
stiff temper
stiff wind
stiff-arm
stiff-armed
stiff-backed
stiff-bearded
stiff-bent
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
stiff-horned
stiff-ironed
stiff-jointed
stiff-jointedness
stiff-kneed
stiff-lamb disease
stiff-land
stiff-leathered
stiff-leaved
stiff-legged
stiff-limbed
stiff-lipped
stiff-minded
stiff-mud
stiff-neck
stiff-necked
stiff-necked pride
stiff-neckedly
stiff-neckedness
stiff-plate
stiff-pointed
stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swathed
stiff-tailed
stiff-uddered
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stifle bone
stifle joint
stifle shoe
stifle-out
stigma disk
stigmal vein
stigmatic grating spectrograph
stil-de-grain yellow
stilbene dye
stilbine color
stiletto fly
stiletto heel
stiletto-proof
stiletto-shaped
still alarm
still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
still-admired
still-birth
still-born
still-burn
still-closed
still-continued
still-continuing
still-diminishing
still-existing
still-fish
still-fisher
still-fishing
still-florid
still-flowing
still-fresh
still-gazing
still-hunt
still-hunter
still-hunting
still-improving
still-increasing
still-life
still-life painter
still-life painting
still-living
still-new
still-pagan
still-pining
still-recurring
still-refuted
still-renewed
still-repaired
still-rocking
still-room
still-sick
still-slaughtered
still-stand
still-unmarried
still-vexed
still-watching
still-young
stilling box
stilling well
stilt bug
stilt palm
stilt petrel
stilt plover
stilt sandpiper
stilt wheel
stilt-legged
stimulus coefficient
stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
sting bladder
sting moth
sting nettle
sting of conscience
sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
stink ball
stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
stipple board
stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
stirrup bar
stirrup bone
stirrup cover
stirrup cup
stirrup dram
stirrup glass
stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
stitch in the side
stitch of work
stitch rivet
stitch watermark
stitch wheel
stitching horse
stochastic independence
stochastic matrix
stock account
stock assessment
stock beer
stock pile
stock power
stock price
stock price index
stock prices
stock pump
stock purse
stock rail
stock raiser
stock raising
stock rate
stock receipt
stock record
stock room
stock saddle
stock saying
stock shot
stock soap
stock solution
stock speculation
stock speculator
stock split
stock station
stock still
stock tackle
stock the mind
stock ticker
stock type
stock up
stock vaccine
stock whaap
stock whip
stock-blind
stock-broker
stock-car
stock-car race
stock-dove
stock-dumb
stock-exchange broker
stock-fish
stock-gillyflower
stock-in-trade
stock-job
stock-jobber
stock-jobbing
stock-route
stock-still
stock-taking
stock-work
stockbroker belt
stockholder of record
stocking board
stocking cap
stocking cutter
stocking cutter tool
stocking filler
stocking frame
stocking hose
stocking knitter
stocking knitting
stocking loom
stocking machine
stocking maker
stocking making
stocking mask
stocking needle
stocking sole
stocking spinner
stocking stitch
stocking stuffer
stocking the mind
stocking trimmer
stocking weaver
stocking-foot
stocking-frame
stockless anchor
stocks and bonds
stocks machine
stoech-
stoke the fire
stoke up
stoke-hole
stole fee
stole mesh
stole-shaped
stolen goods
stolen property
stom-
stomach ache
stomach bucket
stomach condition
stomach cough
stomach piece
stomach poison
stomach pump
stomach staggers
stomach sweetbread
stomach tooth
stomach tube
stomach ulcer
stomach upset
stomach worm
stomach-ache
stomach-achy
stomach-filling
stomach-formed
stomach-hating
stomach-healing
stomach-qualmed
stomach-shaped
stomach-sick
stomach-soothing
stomach-tight
stomach-turning
stomach-twitched
stomach-weary
stomach-whetted
stomach-worn
stomat-
stomato-
stomodaeal food
stone age
stone ax
stone axe
stone bag
stone basil
stone bass
stone blue
stone boiling
stone bolt
stone borer
stone brake
stone bramble
stone breaker
stone breaking
stone brick
stone bruise
stone butter
stone canal
stone carver
stone cat
stone cell
stone china
stone circle
stone clover
stone coal
stone collar
stone color
stone contractor
stone coral
stone crab
stone crayfish
stone cricket
stone curlew
stone devil
stone dresser
stone dressing
stone falcon
stone fence
stone fern
stone fly
stone fox
stone fruit
stone grape
stone gray
stone green
stone grig
stone hammer
stone harmonicon
stone hawk
stone in your path
stone jug
stone leek
stone lichen
stone lifter
stone lily
stone lime
stone lugger
stone marten
stone mill
stone mint
stone money
stone oak
stone ochre
stone oil
stone orpine
stone owl
stone parsley
stone perch
stone picker
stone pine
stone-dust
stone-eared
stone-eating
stone-edged
stone-eyed
stone-faced
stone-floored
stone-fruit
stone-ground
stone-hand
stone-hard
stone-headed
stone-horse
stone-lily
stone-lined
stone-living
stone-milled
stone-moving
stone-parsley
stone-paved
stone-pillared
stone-pine
stone-ribbed
stone-rolling
stone-roofed
stone-silent
stone-smickle
stone-still
stone-throwing
stone-using
stone-vaulted
stone-wall
stone-walled
stone-wallimg
stoned-horse
stoner-out
stoney gate
stony coral
stony heart
stony pit
stony-blind
stony-broke
stony-eyed
stony-faced
stony-hearted
stony-heartedly
stony-heartedness
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooge around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoop-gallant
stoop-shouldered
stooping from your high place
stop at nothing
stop bath
stop bead
stop blowing
stop breathing
stop by
stop chorus
stop clause
stop clock
stop cold
stop consonant
stop dead
stop dead in your tracks
stop down
stop drill
stop finger
stop for breath
stop gauge
stop in
stop in your tracks
stop inor stop by
stop it
stop key
stop knob
stop light
stop list
stop log
stop looking
stop motion
stop needle
stop net
stop number
stop nut
stop odor
stop off
stop on
stop on a dime
stop order
stop out
stop over
stop payment
stop pin
stop plank
stop plate
stop press
stop rod
stop screw
stop seine
stop short
stop shot
stop spine
stop street
stop stroke
stop tester
stop the breath
stop the clock
stop the mouth of
stop thief
stop thrust
stop time
stop to consider
stop up
stop valve
stop volley
stop watch
stop wheel
stop work
stop your ears
stop your mouth
stop-and-go light
stop-cylinder press
stop-gap
stop-go
stop-loss
stop-loss order
stop-off
stop-open
stop-watch
stope drill
stopen bottle
stopped diapason
stopped flute
stopped up
stopper bolt
store-room
store-ship
storefront school
storehouse of the mind
storehouse of words
stores ledger
storey house
storing the mind
stork's bill
stork's-bill
stork, the
stork-billed
stork-fashion
storm along
storm and stress
storm axis
storm bell
storm belt
storm boat
storm boot
storm breeder
storm cave
storm cellar
storm center
storm centre
storm cloud
storm clouds
storm coat
storm collar
storm cone
storm current
storm door
storm drain
storm drum
storm finch
storm flag
storm glass
storm gray
storm in
storm in a teacup
storm in a teapot
storm jib
storm kite
storm lane
storm lantern
storm mizzen
storm pennant
storm petrel
storm porch
storm rubber
storm sail
storm sash
storm serge
storm sewer
storm signal
storm stay
storm surge
storm thrush
storm track
storm tracking
storm trooper
storm troops
storm trysail
storm warning
storm wind
storm window
storm-armed
storm-beat
storm-beaten
storm-boding
storm-breathing
storm-cock
storm-drenched
storm-encompassed
storm-felled
storm-god
storm-laden
storm-lit
storm-portending
storm-presaging
storm-rent
storm-stayed
storm-swept
storm-tight
storm-tossed
storm-trooper
storm-washed
storm-wise
storm-worn
storm-wracked
storming party
stormy petrel
stormy weather
stormy winds
story element
story hour
story line
story post
story rod
story writer
story-teller
story-writing
story-wrought
stout fellow
stout heart
stout-armed
stout-billed
stout-bodied
stout-girded
stout-hearted
stout-heartedly
stout-heartedness
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
stout-worded
stove black
stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
stove-dried
stove-heated
stove-pipe
stove-warmed
stovetop salt
stovepipe hat
stow away
stow down
stow it
stow net
stow-blade
stow-boating
straddle carrier
straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggly tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-body
straight-cut
straight-drawn
straight-edge
straight-edged
straight-faced
straight-falling
straight-fibered
straight-flung
straight-flute
straight-fluted
straight-from-the-shoulder
straight-front
straight-going
straight-grained
straight-growing
straight-grown
straight-haired
straight-hairedness
straight-hemmed
straight-horned
straight-jointed
straight-laced
straight-lacedly
straight-leaved
straight-legged
straight-limbed
straight-line
straight-line-frequency
straight-lined
straight-made
straight-minded
straight-necked
straight-nosed
straight-out
straight-pull
straight-ribbed
straight-shaped
straight-shooting
straight-side
straight-sided
straight-sliding
straight-spoken
straight-stemmed
straight-stocked
straight-tail dog
straight-tailed
straight-thinking
straight-trunked
straight-tusked
straight-up
straight-up-and-down
straight-veined
straight-winged
straighten out
straighten up
straighten yourself out
straightway drill
strain at
strain band
strain diagram
strain ellipsoid
strain every nerve
strain every nerve and sinew
strain for
strain gauge
strain hardening
strain insulator
strain normal
strain sheet
strain the meaning
strain the muscles
strain the sense
strain the throat
strain the truth
strain the voice
strain theory
strain your attention
strain your credulity
strain your ears
strain your eyes
strain your invention
strained relations
strainer arch
strainer core
strainer gate
strainer vine
straining arch
straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
strait-besieged
strait-bodied
strait-braced
strait-breasted
strait-breeched
strait-chested
strait-clothed
strait-coated
strait-embraced
strait-jacket
strait-knotted
strait-lace
strait-laced
strait-lacedly
strait-lacedness
strait-lacer
strait-lacing
strait-necked
strait-sleeved
strait-tied
strait-toothed
strait-waistcoat
strait-waisted
straitened circumstances
strait dollar
strand fishery
strand flat
strand former
strand line
strand plover
strand rat
strand snipe
strand wolf
strange duck
strange particle
strange thing
strange to
strange to say
strange woman
strange-achieved
strange-clad
strange-colored
strange-composed
strange-disposed
strange-fashioned
strange-favored
strange-garbed
strange-looking
strange-met
strange-plumaged
strange-sounding
strange-tongued
strange-voiced
strange-wayed
stranger's gallery
strangers' gallery
strangle hold
strangulated hernia
strap bolt
strap brake
strap drill
strap fern
strap game
strap hammer
strap hinge
strap iron
strap joint
strap key
strap oil
strap oyster
strap rail
strap railroad
strap railway
strap watch
strap work
strap-hinge
strap-laid
strap-leaved
strap-oil
strap-shaped
strapping motion
strapping plate
strategic air force
strategic bombing
strategic line
strategic materials
strategic plan
strategic point
strati-
stratificational grammar
stratified charge engine
stratified discharge
stratigraphic geology
strato-
strato-cirrus
strato-cumulus
stratocumulus castellanus
stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
stratosphere balloon
stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
straw bail
straw ballot
straw basher
straw bass
straw bid
straw bidder
straw bond
straw boss
straw cat
straw color
straw death
straw drain
straw fiddle
straw hat
straw in the wind
straw man
straw needle
straw oil
straw plait
straw ride
straw sedge
straw splitter
straw stem
straw to show the wind
straw vote
straw wedding
straw wine
straw yellow
straw-barreled
straw-boss
straw-breadth
straw-built
straw-capped
straw-colored
straw-crowned
straw-cutting
straw-dried
straw-emboved
straw-hatted
straw-laid
straw-necked
straw-plaiter
straw-plaiting
straw-roofed
straw-shoe
straw-splitting
straw-stuffed
straw-thatched
strawberry bass
strawberry blite
strawberry blond
strawberry blonde
strawberry borer
strawberry bush
strawberry cactus
strawberry clover
strawberry comb
strawberry crab
strawberry crown borer
strawberry crown moth
strawberry dish
strawberry fern
strawberry finch
strawberry fleabeetle
strawberry fly
strawberry geranium
strawberry guava
strawberry leaf
strawberry leaf blight
strawberry leaf roller
strawberry leaf spot
strawberry mark
strawberry moth
strawberry nettle
strawberry pear
strawberry perch
strawberry pink
strawberry raspberry
strawberry roan
strawberry root aphid
strawberry root borer
strawberry root weevil
strawberry rootworm
strawberry rust
strawberry sawfly
strawberry saxifrage
strawberry shrub
strawberry spinach
strawberry sunburn
strawberry tassel
strawberry tomato
strawberry tongue
strawberry tree
strawberry vine
strawberry weevil
strawberry-blond
strawberry-raspberry
strawberry-shrub family
strawhat circuit
strawhat theater
stray capacitance
stray current
stray energy
stray line
stray-line
streak culture
streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
stream bed
stream cable
stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
stream of fashion
stream of light
stream of time
stream piracy
stream the log
stream tin
stream wheel
stream-bordering
stream-drive
stream-embroidered
stream-illumed
stream-line
stream-of-consciousness
stream-of-consciousness novel
streamer aurora
streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
street Arab
street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
streptococcus tonsilitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
stressed skin
stretch away to
stretch fabric
stretch forth a helping hand
stretch forth your hand
stretch mill
stretch modulus
stretch of the imagination
stretch of time
stretch out
stretch pants
stretch stockings
stretch the legs
stretch the meaning
stretch the sense
stretch the truth
stretch to
stretch your legs
stretch your luck
stretch yourself
stretch-out
stretched out
stretched tight
stretched-out
stretcher bar
stretcher bond
stretcher-bearer
stretching course
stretching everywhere
stretching of the truth
stretching out
stretching piece
stretching your luck
stretching-out
striato-
stricken dumb
stricken in years
stricken with amnesia
stricken with years
strickle bar
strict attention
strict construction
strict constructionism
strict constructionist
strict discipline
strict interpretation
strict law
strict minded
strict neutrality
strict settlement
strictly between us
strictly cash
strictly decreasing function
strictly increasing function
strictly speaking
stride-legged
strident-voiced
striding compass
striding level
strife-breeding
strife-healing
strife-stirring
strike a balance
strike a bargain
strike a blow
strike a light
strike a pose
strike a responsive chord
strike a rich vein
strike against
strike all of a heap
strike an attitude
strike at
strike at the root of
strike back
strike benefit
strike bill
strike blind
strike block
strike board
strike camp
strike dead
strike down
strike dumb
strike enforcer
strike fault
strike figure
strike fire
strike hands
strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
strike joint
strike knife
strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
strinking-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
striped grass
striped hyena
striped maple
striped marlin
striped snake
striped spermophile
striped squirrel
striped-leaved
stripped atom
stripped bare
stripped down
stripped of
stripped of illusion
stripped to the buff
stripper-harvester
stripping bare
stripping down
stripping liquor
stripping of rank
strive about
strive against
strive for
strive to
strive with
strobe light
strobe lighting
stroboscopic light
stroboscopic photography
stroke culture
stroke hole
stroke oar
stroke oarsman
stroke of death
stroke of lightning
stroke of luck
stroke of policy
stroke of the hour
stroke of the pen
stroke of wit
stroke of work
stroke play
stroke stitch
stroker-in
strolling gait
strolling minstrel
strolling player
strong accumulation point
strong argument
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-boded
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
strong-set
strong-sided
strong-smelling
strong-stapled
strong-stomached
strong-tasted
strong-tasting
strong-tempered
strong-tested
strong-trunked
strong-voiced
strong-weak
strong-willed
strong-winged
strong-wristed
strongbox security
strontia digger
strontia process
strontian white
strontian yellow
strontium 90
strontium hydroxide
strontium monoxide
strontium nitrate
strontium oxide
strontium process
strontium salicylate
strontium unit
strontium white
strontium yellow
struck all of a heap
struck jury
struck measure
struck up
struck with
struck with surprise
structural botany
structural drag
structural engineer
structural engineering
structural fatigue
structural formula
structural gene
structural geology
structural grammar
structural linguistics
structural meaning
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study-given
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stump foot
stump it
stump joint
stump jumper
stump mast
stump mortise
stump orator
stump puller
stump ranch
stump rot
stump speaker
stump speaking
stump speech
stump spud
stump sucker
stump tail
stump tenon
stump the country
stump topmast
stump tracery
stump tree
stump up
stump wood
stump work
stump-fingered
stump-footed
stump-jump
stump-jump plow
stump-jumping plow
stump-legged
stump-nosed
stump-rooted
stump-tail
stump-tailed
stump-tailed lizard
stumping tour
stunner hitch
stunt flier
stunt flying
stunt girl
stunt man
stunt woman
stupefied with boredom
stupefyingly boring
stupid ass
stupid grin
stupid thing
stupid work
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
styour throw
styptic pencil
styrally acetate
stylene resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
sub-Christian
sub-Himalayan
sub-Pontine
sub-Pyrenean
sub-agent
sub-arch
sub-assembly
sub-base
sub-constable
sub-district
sub-edit
sub-editor
sub-head
sub-human
sub-jugate
sub-lease
sub-let
sub-level
sub-lieutenant
sub-machine-gun
sub-man
sub-officer
sub-prefect
sub-rosa
sub-title
sub-treasurer
sub-treasury
sub-war
sub-zero
subacute rheumatism
subaerial deposit
subaltern genus
subarctic current
subassembly plant
subatomic particle
subatomic particles
subclavian artery
subclavian groove
subclavian vein
subclinical infection
subcloud car
subconscious drive
subconscious knowledge
subconscious mind
subconscious perception
subconscious self
subconscious urge
suberic acid
subero-
subhyumenial layer
subject case
subject catalog
subject catalogue
subject for thought
subject index
subject matter
subject of thought
subject substantive
subject term
subject to
subject to a duty
subject to a fee
subject to a tax
subject to call
subject to close scrutiny
subject to death
subject yourself
subject-matter
subject-object
subject-objectivity
subject-raising
subjective certainty
subjective complement
subjective idealism
subjective idealist
subjective inspection
subjective speculation
subjective spirit
subjectivo-
subjectivo-objective
subjunct adjective
subjunct word
sublimation pressure
sublimation vein
sublime tobacco
subliminal advertising
subliminal perception
subliminal self
sublimity summit
submachine gun
submarine badge
submarine chaser
submarine killer
submarine mine
submarine patrol boat
submarine sandwich
submarine sentry
submarine telegraphy
submarine tender
submarine torpedo
submarine warfare
submaxillary gland
submerged coast
submerged in
submerged mind
submerged-tube boiler
subminiature camera
submit to
submit to indignity
submit with a good grace
suboctave coupler
subordinate clause
subordinate conjunction
subordinate ordinary
subordinate role
subordinate to
subordinate yourself
subordinating conjunction
subornation of perjury
subpoena ad testificandum
subpoena duces tecum
subscribe to
subscriber trunk dialling
subscription book
subscription concert
subscription edition
subscription library
subscription list
subscription television
subsequent to
subsidiary coin
subsidiary company
subsidiary sense
subsidy citizen
subsidy man
subsist in
subsistence agriculture
subsistence allowance
subsistence department
subsistence farming
subsistence level
subsistence money
subsistence stores
subsistent form
subsoil plough
subsoil plow
subsonic flight
subsonic jet
subsonic speed
subspace topology
substance of life
substandard language
substandard speech
substandard usage
substantial meal
substantiality theory
substantially true
substantive basis
substantive law
substantive point
substantive rank
substantive right
substitute for
substitution cipher
substitution deposit
substitution group
substitution tables
substitution therapy
substitution vein
subsurface tillage
subtarget machine
subtense bar
subter-
subterranean river
subtle body
subtle color
subtle distinction
subtle influence
subtle odor
subtle wit
subtle-brained
subtle-cadenced
subtle-fingered
subtle-headed
subtle-looking
subtle-meshed
subtle-minded
subtle-nosed
subtle-paced
subtle-scented
subtle-shadowed
subtle-souled
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
suck-
suck-bottle
suck-egg
suck-in
sucked dry
sucked into
sucker bait
sucker foot
sucker for
sucker list
sucker rod
sucket fork
sucking louse
sucking pig
sucking-fish
sucking-pig
sucking-pump
suckling pig
sucro-
suction anemometer
suction chamber
suction cleaner
suction cup
suction dredge
suction flask
suction hose
suction machine
suction pipe
suction primer
suction producer
suction pump
suction root
suction stop
suction stroke
suction sweeper
suction valve
sudan grass
sudden and quick in quarrel
sudden attack
sudden change
sudden death
sudden development
sudden impulse
sudden infant death syndrome
sudden or radical change
sudden pull
sudden thought
sudden turn
sudden-beaming
sudden-starting
sudden-whelming
sue at law
sue for
sue for divorce
sue out
sue to
suede cloth
suede gloves
suet pudding
suet refiner
suffer a misfortune
suffer an eclipse
suffer anguish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar baker
sugar bakery
sugar basin
sugar bean
sugar beet
sugar bird
sugar bowl
sugar brake
sugar bush
sugar cake
sugar camp
sugar candy
sugar cane
sugar cookie
sugar corn
sugar daddy
sugar diabetes
sugar engineering
sugar fish
sugar glider
sugar grape
sugar grass
sugar grove
sugar gum
sugar jack
sugar jack process
sugar loaf
sugar maker
sugar making
sugar maple
sugar mill
sugar mite
sugar mule
sugar nippers
sugar of lead
sugar of milk
sugar off
sugar orchard
sugar over
sugar palm
sugar pea
sugar pear
sugar pine
sugar planter
sugar planting
sugar pumpkin
sugar puncture
sugar refiner
sugar refinery
sugar refining
sugar shell
sugar sifter
sugar sorghum
sugar spoon
sugar squirrel
sugar tongs
sugar tree
sugar vinegar
sugar wrack
sugar-baker
sugar-beet webworm
sugar-bird
sugar-boiling
sugar-bush
sugar-candy
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujee-mujee
suji-muji
sulpato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulphate process
sulphate pulp
sulphate ultramarine
sulphato-
sulphide color
sulphide dye
sulphide toning
sulphindigotic acid
sulphine color
sulphine yellow
sulphite brown
sulphite pulp
sulpho salt
sulpho-
sulpho-acid
sulpho-salt
sulphocarbon oil
sulphon cyanine
sulphon cyanine black
sulphonic acid
sulphonium compound
sulphur acid
sulphur alcohol
sulphur bacteria
sulphur black
sulphur butterfly
sulphur candle
sulphur chloride
sulphur color
sulphur dioxide
sulphur dye
sulphur ether
sulphur family
sulphur granule
sulphur lime
sulphur match
sulphur monochloride
sulphur oil
sulphur olive oil
sulphur ore
sulphur paste
sulphur plant
sulphur rain
sulphur rose
sulphur shower
sulphur subchloride
sulphur toning
sulphur trioxide
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
sulphur-colored
sulphur-containing
sulphur-crested
sulphur-flower
sulphur-hued
sulphur-impregnated
sulphur-scented
sulphur-smoking
sulphur-tinted
sulphur-tipped
sulphureo-
sulphureo-aerial
sulphuretted hydrogen
sulphuric acid
sulphurous acid
sultan flower
sultan red
sultana bird
sultana roll
sultry weather
sum and substance
sum of money
sum of things
sum to
sum total
sum und substance
sum up
sum up your case
sum-total
sum-up
sumac family
sumac wax
summa cum laude
summary court-martial
summary judgment
summary justice
summary negative
summary offence
summary proceeding
summation curve
summation method
summation tone
summer aster
summer barley
summer camp
summer cholera
summer complaint
summer coot
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queening
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanced
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunk
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
summer-tilled
summer-time
summer-up
summer-weight
summing register
summing up
summing-up
summit canal
summit conference
summit level
summit yard
summit-level canal
summon forth
summon spirits
summon up
summon up courage
summons case
summons of death
summons-proof
summum bonum
summum genus
summum jus
sump cut
sump fuse
sump pit
sump pump
sump shot
sump winze
sumping cut
sumping shot
sumpter horse
sumpter mule
sumptuary law
sumptuary laws
sumptuary ordinances
sums total
sun animalcule
sun arc
sun bark
sun bath
sun bather
sun bear
sun bittern
sun blind
sun blindness
sun burner
sun clock
sun compass
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-begotten
sun-blackened
sun-blanched
sun-blind
sun-blistered
sun-blown
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courting
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
sun-delighting
sun-descended
sun-dial
sun-drawn
sun-dried
sun-dry
sun-eclipsing
sun-excluding
sun-expelling
sun-exposed
sun-eyed
sun-faced
sun-feathered
sun-filled
sun-fish
sun-flagged
sun-flaring
sun-flooded
sun-fringed
sun-gazed
sun-gazing
sun-gilt
sun-god
sun-graced
sun-graze
sun-grazer
sun-grebe
sun-grown
sun-heated
sun-illuminated
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaiting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sundra tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supercompression engine
superdense theory
superficial extension
superficial soundness
superficially sound
supergiant star
superheated air
superheterodyne circuit
superheterodyne receiver
superhigh frequency
superintendent engineer
superintendent general
superior conjunction
superior court
superior courts of Westminster
superior general
superior goods
superior planet
superior-general
superiority complex
superiors general
superiors-general
supernatural being
supernatural virtue
supernatural virtues
supernatural, the
super-
supero-occipital
superposition principle
supersonic aerodynamics
supersonic combat plane
supersonic flight
supersonic flow detection
supersonic jet
supersonic research plane
supersonic rocket
supersonic speed
supersonic transport
supersonic wings
supporting role
supporting treatment
supportive relationship
supportive therapy
supposing that
suppressed desire
suppressio veri
suppressor grid
suppurative arthritis
suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophageal
supra-esophagaeal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
suranal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surface paper
surface plate
surface printing
surface quality
surface radar
surface railway
surface resistance
surface resistivity
surgeons general
surgical anatomy
surgical boot
surgical dentistry
surgical diathermy
surgical hospital
surgical instrument
surgical intervention
surgical knife
surgical measure
surgical needle
surgical nurse
surgical operation
surgical shock
surgical spirit
surgical technique
surgical treatment
surmounted arch
surplice fee
surplus state
surplus value
surplus- age
surprise attack
surprise ending
surprise package
surprise party
surrealist tachism
surrealist tachist
surrender charge
surrender one's colors
surrender value
surrender your life
surround verge
sursum corda
surveillance radar
survey course
surveying sextant
surveyor general
surveyor's arrow
surveyor's chain
surveyor's compass
surveyor's dial
surveyor's level
surveyor's measure
survival of the fittest
survival rate
survival value
survive or perish
survivorship annuity
sus per coll
susceptible to
susceptive to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspender belt
suspend account
suspend drama
suspend ledger
suspend story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
suspensive veto
sensory ligament
sensory veto
suspicion-proof
sussex spaniel
sustain a part
sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarrow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globeflower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privat
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkweed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp-dwelling
swamp-growing
swamp-loving
swamp-oak
swamping resistance
swan animalcule
swan boat
swan dive
swan goose
swan knight
swan maiden
swan mussel
swan neck
swan neck pediment
swan orchid
swan pan
swan potato
swan shift
swan shot
swan song
swan's down
swan's neck
swan's neck pediment
swan's-down
swan-bosomed
swan-clad
swan-drawn
swan-eating
swan-fashion
swan-hopper
swan-hopping
swan-like
swan-mark
swan-neck
swan-pan
swan-plumed
swan-poor
swan-proud
swan-sweet
swan-tuned
swan-upper
swan-upping
swan-white
swan-winged
swanking stick
swanskin calico
swap hook
swap horses
swap places with
sward-cut
sward-cutter
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
sweede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweep the strings
sweep ticket
sweep under the rug
sweep up
sweep you off your feet
sweep-chimney
sweep-oar
sweep-second
sweeping change
sweeping net
sweeping process
sweeping score
sweeping statement
sweet William
sweet almond
sweet almond oil
sweet alyssum
sweet and pungent
sweet and sour
sweet as a nut
sweet as a rose
sweet as honey
sweet as sugar
sweet basil
sweet bay
sweet birch oil
sweet calamus
sweet cassava
sweet cherry
sweet chestnut
sweet chocolate
sweet cicely
sweet cider
sweet clover
sweet coltsfoot
sweet corn
sweet crab apple
sweet false camomile
sweet father of soft rest
sweet fern
sweet flag
sweet gale
sweet grass
sweet gum
sweet marjoram
sweet marten
sweet mock orange
sweet nature
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowering
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
sweet-sweet
sweet-talk
sweet-talking
sweet-tasted
sweet-tasting
sweet-tempered
sweet-temperedly
sweet-temperedness
sweet-throat
sweet-throated
sweet-toned
sweet-tongued
sweet-toothed
sweet-touched
sweet-tulk
sweet-tuned
sweet-voiced
sweet-warbling
sweet-whispered
sweet-william
sweet-wort
sweeten the kitty
sweetheart agreement
sweetheart contract
sweetheart neckline
sweetie pie
sweetleaf family
sweetness and light
sweetness of life
sweetness und light
sweets candy
sweetwood bark
swell box
swell dash
swell front
swell head
swell it
swell mob
swell organ
swell out
swell pedal
swell piece
swell shark
swell the ranks of
swell with emotion
swell-
swell-butted
swell-front
swell-headed
swell-headedness
swell-mobsman
swelled head
swelled-gelatin
swelled-gelatin process
swelled-headed
swelled-headedness
swelling utterance
sweltering heat
swept deck
swept up
swept-back
swept-forward
swift as an arrow
swift boat
swift fox
swift moth
swift rate
swift shrike
swift-advancing
swift-brought
swift-burning
swift-changing
swift-concerted
swift-declining
swift-effected
swift-fated
swift-finned
swift-flowing
swift-flying
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swine pox
swine thistle
swine vesicular disease
swine's feather
swine-backed
swine-bread
swine-chopped
swine-cote
swine-eating
swine-faced
swine-headed
swine-mouthed
swine-pipe
swine-pox
swine-snouted
swine-stead
swine-stone
swine-sty
swing arm
swing at
swing back
swing band
swing bar
swing beam
swing boat
swing bolster
swing bolt
swing bridge
swing cart
swing chair
swing district
swing door
swing drawbridge
swing from one thing to another
swing gate
swing hammer crusher
swing in with
swing jack
swing joint
swing knife
swing leg
swing music
swing musician
swing on
swing open
swing plate
swing plow
swing round
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swingleing tow
swinish gluttony
swinish multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
swivel table
swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
swollen phrase
swollen with pride
swollen-cheeked
swollen-eyed
swollen-faced
swollen-glowing
swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
swoop down on
swoop down upon
sword arm
sword bayonet
sword bean
sword belt
sword blade
sword breaker
sword cane
sword cut
sword cutler
sword cutlery
sword dance
sword dancer
sword dollar
sword fern
sword flag
sword flax
sword grass
sword guard
sword hand
sword hanger
sword hilt
sword in hand
sword kin
sword knot
sword law
sword lily
sword maker
sword mat
sword of Damocles
sword sedge
sword service
sword side
sword swallower
sword swallowing
sword tash
sword thrust
sword tip
sword-armed
sword-bearer
sword-bearership
sword-billed
sword-girded
sword-girt
sword-grass
sword-leaved
sword-play
sword-shaped
sword-tailed
swordfish sucker
sworn and affirmed
sworn enemy
sworn evidence
sworn off
sworn statement
sworn testimony
sworn to
swot up
swung dash
sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
syenite-porphry
syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
sylvic acid
sym-
symbol-using animal
symbolic books
symbolic code
symbolic language
symbolic logic
symbolic meaning
symbolic system
symbolical books
symbolist movement
symbolist verse
symbols of
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
symphonic form
symphonic music
symphonic ode
symphonic poem
symphonie concertante
symphony band
symphony concert
symphony orchestra
symphyo-
symphysio-
symptom complex
symptomatic anthrax
symptomatic treatment
syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
synchro-
synchro-cyclotron
synchronic linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
synchrotron radiation
syncopated music
syncro-mesh
syndesmo-
synectics group
synneusis texture
synodic month
synonym dictionary
syntactic analysis
syntactic construction
syntactic meaning
syntactic structure
syntax language
syntectic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningoencephalitis
syphilitic paresis
syphilo-
syringo-
syro-
syrphid fly
syrphus fly
syrup of ipecac
system component
system components
system engineer
system engineering
system function
system of belief
system of beliefs
system of government
system of ideas
system of knowledge
system of oral communication
system of theories
system of values
system of weight
system stabilization
systematic amnesia
systematic botany
systematic theology
systematically terrorize
systemic insecticide
systems analysis
systems analyst
systems design
systems engineering
systems planning
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
tail-joined
tail-low landing
tail-piece
tail-pipe burner
tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
tail-wagging
tailed frog
tailed sonnet
tailed toad
tailings auger
taille-douce
tailless airplane
tailless jet
tailor warbler
tailor's chalk
tailor's-tack
tailor-bird
tailor-built
tailor-cut
tailor-legged
tailor-made
tailor-mades
tailor-make
tailor-making
tailor-suited
tailored suit	
taint-free
taint-worm
taintor gate
tais toi
take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack at
take a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleanes
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box	
taken aback	
taken as granted	
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double	
taker-down
taker-in
taker-off	
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office	
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in
tal-laisim	
talba gum
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing
talc pencil
talc pulverizer
talc schist
talc-grinding
talca gum
talgo gum
talcum powder	
tale-teller
tale-telling
taleh gum	
talent money
talent scout	
talent show
talented person
talha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person
talked about
talked-about
talked-of
talkee-talkee
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos
talky-talk
talky-talky
tall as a maypole
tall coreopsis
tall drink
tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columned
tall-corn
tall-elled
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow chandling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow melter
tallow nut
tallow oil
tallow pot
tallow press
tallow refiner
tallow renderer
tallow sampler
tallow shrub
tallow tree
tallow wood
tallow-chandlering
tallow-colored
tallow-cut
tallow-face
tallow-faced
tallow-hued
tallow-lighted
tallow-pale
tallow-top
tallow-topped
tallow-white	ally board
tally card
tally clerk
tally iron
tally of
tally plan
tally room
tally sheet
tally shop
tally stick
tally trade
tally up
tally walk
tally with
tally-ho	allyho back	allyho coach	allyho over	almi gold	alon-tipped	tam o' shanter
tam o’shanter
tam-o’-shanter
tam-o’shanter
tam-o-shanter
tam-o-shantered
tam-tam
tamale pie
tamarack pine
tamarind fish
tamarind plum
tamarisk family
tamarisk salt
tamarisk salt tree
tamarix family
tambookie grass
tambour clock
tambour lace
tambour stitch
tambour stitcher
tambour work
tame-grief
tame-grown
tame-lived
tame-looking
tame-minded
tame-natured
tame-spirited
tame-witted	tammie norie	tammy cloth	tamp in	tamper with	tampered with	tamping bar	tamping iron	tamping pick	tamping stick	tan bay	tan oak	tan your hide	tan-burning	tan-colored	tan-faced	tan-mouthed	tan-sailed	tan-skinned	tan-strewn	tan-tan
tan-tinted
tan-trodden
tanbark beetle
tanbark oak
tanbark tree
tandem bicycle
tandem cart
tandem plane
tandem rotors
tandem seat
tandem-compound
tandem-punch
tandem-rotor helicopter
tang chisel
tang end
tangent distance
tangent galvanometer
tangent plane
tangent-cut
tangent-saw
tangent-sawed
tangent-sawing
tangent-sawn
tangential motion
tangerine-colored	
tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed
tangle-legs
tangle-tail
tangle-tailed
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tank fighter
tank furnace
tank iron
tank liquor
tank locomotive
tank meter
tank nipple
tank rivet
tank runner
tank ship
tank station
tank suit
tank table
tank top
tank town
tank trailer
tank truck
tank up
tank wagon
tank waste
tank-town
tankard bearer
tankard-bearing	anker ship	tannery fungus	tannic acid	tannin color	tanning extract
tanno-
tannyl acetate	tansy mustard	tansy oil	tansy ragwort	tant mieux	tant pis	tant soit peu	tantalic acid
tantalum lamp	tao-tieh	tap bell	tap bolt
tap bond	tap borer	tap chuck
tap cinder
tap cutter	tap dance	tap dancer
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying	
taped program
taped show	
taper drill
taper file
taper gauge
taper jack
taper mandrel
taper off
taper pin
taper pipe thread
taper reamer
taper reducer sleeve
taper tap
taper to a point
taper tool
taper-bored
taper-fashion
taper-fashion arrow
taper-grown
taper-headed
taper-lighted
taper-limbed
taper-molded
taper-pointed

tapered-in
tapestry Brussels

tapestry beetle
tapestry carpet
tapestry glass
tapestry maker
tapestry making
tapestry moth
tapestry needle
tapestry painting
tapestry stitch
tapestry weaver

tapestry weaving
tapestry work
tar putty
tar sand
tar soap
tar spot
tar sprayer
tar still
tar water
tar well
tar-and-feathering
tar-barrel
tar-bedaubed
tar-bind
tar-black
tar-boiling
tar-brand
tar-brush
tar-burning
tar-clotted
tar-coal
tar-dipped
tar-heating
tar-laid
tar-paint
tar-paved
tar-removing
tar-roofed
tar-scented
tar-sealed
tar-soaked
tar-spray
tar-water	
tara fern	
tarage table	
tarantula hawk	
tardive dyskinesia	
tardy epilepsy	
tardy-gaited	
tardy-moving	
tardy-rising	
tare an ages	
tare anouns	
tare anounty	
tare grass	
tare room	
tare vetch	
target arrow	
target bass	
target boat
tarry-fingered
tarry-jacket
tarrying irons
tarso-
tarso-metatarsal
tarso-metatarsus
tarso-orbital
tart up
tartan velvet
tartan-purry
tartar emetic
tartar sauce
tartar steak
tartar yeast
tartare sauce
tartare steak
tartaric acid
tartro-
task force
task group
task the mind with
task time
task wage
task with
task-work
tasmanian devil
tasmanian wolf
tassel bush
tassel flower
tassel grass
tassel hand
tassel hyacinth
tassel mold
tassel plant
tassel pondweed
tassel stitch
tassel tree
tassel weaver
tassel-hung
taste beaker
taste blood
taste bud
taste bulb
taste cell
taste cup
taste goblet
taste good
taste hair
taste in the mouth
taste like
taste like ashes in the mouth
taste of
taste paper
taste-maker
tat tvam asi
tat-tat
tat-tat-tat
tatou peba
tattie bogle
tattie lifting	
tattle on
tattletale gray
tattoo mark	
tatty-peelin
tau cross
tau staff
tau-meson
tau-saghyz
tau-topped
taunt ship
taunt with
taunt-masted
taunt-rigged
taupe brown
taupe-rose
tauro-
taurocholic acid
taut as a bowstring
taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted	
taw line
tawdry lace
tawed leather
tawny owl
tawny port
tawny-brown
tawny-coated
tawny-colored
tawny-faced
tawny-gold
tea blight
tea borer
tea bread
tea break
tea broom
tea caddy
tea cake
tea can
tea canister
tea cart
tea ceremony
tea checker
tea chest
tea clipper
tea cloth
tea cooper
tea cosy
tea cozy
tea dance
tea drinker
tea drunkard
tea egg
tea family
tea fight
tea fighting
tea garden
tea gardener
tea girl
tea gown
tea green
tea hound
tea hour
tea house
tea infuser
tea kettle broth
tea kitchen
tea lead
tea leaf
tea maid
tea maker
tea meeting
tea mite
tea mixer
tea mosquito
tea oil
tea oil tree
tea olive
tea packer
tea party
tea percolator
tea plant
tea planter
tea planting
tea plate
tea rose
tea sampler
tea scrub
tea service
tea set
tea shop
tea sifter
tea strainer
tea table
tea tasting
tea towel
tea tray
tea tree
tea trolley
tea urn
tea wagon
tea weigher
tea-blending
tea-chest
tea-clipper
tea-colored
tea-covered
tea-cup
tea-garden
tea-gardened
tea-growing
tea-inspired
tea-leaf
tea-leaved
tea-leaves
tea-loving
tea-maker
tea-mixing
tea-of-heaven
tea-packaging
tea-party
tea-plant
tea-planter
tea-pot
tea-producing
tea-rose
tea-rose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teagle post
teak-brown
teak-built
teak-complexioned
teak-lined
teak-producing
teal blue
teal duck
teal flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear apart
tear around
tear ass
tear away
tear bag
tear bomb
tear bottle
tear down
tear duct
tear from
tear gas
tear gland
tear grass
tear grenade
tear into
tear limb from limb
tear loose
tear off
tear off the mask
tear open
tear out
tear sheet
tear shell
tear streak
tear strip
tear tape
tear to pieces
tear to rags
tear to shreds
tear to tatters
tear up
tear up the earth
tear up the road
tear up the track
tear up your mortgage
tear your hair
tear your hair out
tear yourself away

tear-
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
tear-persuaded
tear-phrased
tear-pictured
tear-pitying
tear-plagued
tear-pouring
tear-practiced
tear-procured
tear-protested
tear-provoking
tear-purchased
tear-quick
tear-raining
tear-reconciled
tear-regretted
tear-resented
tear-revealed
tear-reviving
tear-salt
tear-scorning
tear-sealed
tear-shaped
tear-shedding
tear-shot
tear-stained
tear-stubbed
tear-swollen
tear-thirsty
tear-washed
tear-wet
tear-wiping
tear-worn
tear-wrung
tearful eyes
tearing down
tearing out
tearing passion
tearing up root and branch
tease out
 tease tenon
 tease up
 teasel clipper
 teasel cutter
 teasel family
 teasel frame
 teasel gourd
 teasel grower
 teasel merchant
 teasel packer
 teasel sorter
 teaser artist
 teaser curtain
 teat cup
 teaze tenon
 technical adviser
 technical brilliance
 technical college
 technical education
 technical expert
 technical flaw
 technical jargon
 technical knockout
 technical know-how
 technical knowledge
 technical mastery
 technical oil
 technical school
 technical sergeant
 technical skill
 technical term
 technical training institute
 technical writer
 technical writing
 technically superb
 techno-
techno-
technological institute
 technological revolution
 technological school
 technological unemployment
 technological warfare
 tecno-
tectorial membrane
 teddy bear
 teddy boy
 teddy girl
teil tree
teind boll
tel-
tele-
tele-action
tele-iconograph
telechron clock
telegraph agency
telegraph bar
telegraph block
telegraph blue
telegraph board
telegraph box
telegraph bracket
telegraph bug
telegraph buoy
telegraph cable
telegraph clerk
telegraph clock
telegraph coil
telegraph connector
telegraph editor
telegraph form
telegraph hook
telegraph inspector
telegraph instrument
telegraph insulator
telegraph jack
telegraph key
telegraph laborer
telegraph line
telegraph lineman
telegraph mechanic
telegraph messenger
telegraph operator
telegraph plant
telegraph pole
telegraph protector
telegraph recorder
telegraph recorders
telegraph relay
telegraph repeater
telegraph rope
telegraph sounder
telegraph superintendent
telegraph switchboard
telegraph tape
telegraph transmitter
telegraph tubing
telegraph wire
telegraph wireman
teleo-
teleological argument
teleological proof
telepathic dream
telepathic hallucination
telepathic transmission
telephone amplifier
telephone area
telephone arm
telephone attendant
telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
telephone call
telephone case
telephone cell
telephone closet
telephone coil
telephone condenser
telephone connector
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
telephone selector
telephone set
telephone stand
telephone supervisor
telephone support
telephone switch
telephone switchboard
telephone table
telephone tax
telephone terminal
telephone tester
telephone transmitter
telephone wire
telephone wireman
telephonic engineer
telephoto lens
teleprinter exchange
telescope antenna
telescope bag
telescope box
telescope chimney
telescope door
telescope eye
telescope finder
telescope fish
telescope fly
telescope jack
telescope joint
telescope lens
telescope screw
telescope shell
telescope sight
telescope stack
telescope table
telescope tube
telescope word
telescopic camera
telescopic sight
telestial kingdom
television audience
television broadcast
television camera
television channel
television drama
television engineer
television mast
television play
television radar air navigation
television receiver
television receiver parts
television reception
television relay
television set
television show
television station
television studio
television technician
television transmission
television transmitter
television transmitter parts
television tube
television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
temperate zone
temperature coefficient
temperature control
temperature curve
temperature gradient
temperature relay
temperature sensation
temperature sense
temperature sensor
temperature signal
temperature spot
temperature wind rose
temperature-humidity index
tempered glass
tempered safety glass
tempered semitone
tempest in a teacup
tempest in a teapot
tempest-bearing
tempest-beaten
tempest-blown
tempest-born
tempest-clear
tempest-driven
tempest-flung
tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-tost
tempest-troubled
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
tempo mark
tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
temporary expedient
temporary life annuity
temporary lodger
temporary measure
tempro-
temps lie
tempt Providence
tempt fortune
tempt the appetite
temptation-proof
tempus edax rerum
tempus fugit
ten best-dressed
ten cents
ten commandments
ten million
ten o'clock
ten strike
ten thousand
ten to one
ten-
ten-a-penny
ten-acre
ten-armed
ten-barreled
ten-bore
ten-cell
ten-cent
ten-cent store
ten-coupled
ten-course
ten-cylindered
ten-day
ten-day fern
ten-dollar
ten-dollar bill
ten-dollar gold piece
ten-eighth
ten-fingered
ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
ten-syllabled
ten-talented
ten-thousandaire
ten-to-one shot
ten-ton
ten-tongued
ten-toothed
ten-twenty-thirty
ten-weeks stock
ten-wheeled
ten-wheeled locomotive
ten-year
tenacious of life
tenaille line
tenant at sufferance
tenant at will
tenant farmer
tenant for life
tenant for years
tenant from year to year
tenant in capite
tenant in chief
tenant right
tenant righter
tenant-in-chief
ntenant-right
tend animals
tend on
tend to
tend to a point
tend to go
tend to show
tend toward
tend towards
tendency chord
tendency play
tendency theory
tendency tone
tendency writing
tender age
tender annual
tender conscience
tender feeling
tender heart
tender loving care
tender mercies
tender passion
tender perennial
tender rocket
tender spot
tender susceptibilities
tender thanks
tender your compliments
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tender-faced
tender-footed
tender-footedness
tender-foreheaded
tender-handed
tender-hearted
tender-heartedly
tender-hefted
tender-hoofed
tender-hued
tender-looking
tender-minded
tender-mouthed
tender-natured
tender-nosed
tender-personed
tender-rooted
tender-shelled
tender-sided
tender-skinned
tender-souled
tender-taken
tender-tempered
tender-witted
tenderloin steak	
tending to
tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
tene-bricose
tenement building
tenement district
tenement house

tenement of clay
tennessee walking horse
tennis ball
tennis bum
tennis court
tennis elbow
tennis marker
tennis play
tennis player
tennis playing
tennis racket
tennis shoe
tennis shoes
tennis-ball
tennis-court
tennis-play
teno-
tenon auger
tenon saw
tenon tooth
tenonto-
tenor behind
tenor clef
tenor covering
tenor drum
tenor horn
tenor octave
tenor tuba
tenor viol
tenor violin
tenpenny nail
tenpin bowling
tense auxiliary
tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered
tensile strength
tension carriage
tension element
tension fatigue
tension line
tension pulley
tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
tent-shaped
tent-sheltered
tent-stitch
tentaculi-
tentative approach
tentative contact
tentative examination
tentative explanation
tentative method
tentative poke
tentatively suggest
tented field
tenter-hook
tenterhook willey
tenth muse
tenth's place
tenth-rate
tenui-
tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
ter-
ter-equivalent
ter-sacred
ter-sanctus
tera-
teraí hat
terat-
terbium metal
terbium oxide
tercel gentle
tercel-gentle
terebic acid
terebinic acid
terebinth tree
terephthalic acid
tereti-
tergo-
term attendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
term-time
terminable annuity
terminal case
terminal date
terminal figure
terminal leave
terminal market
terminal moraine
terminal point
terminal speed
terminal velocity
terminate the account
terminating decimal
terminating plan
terminus a quo
terminus ad quem
termite-proof
terms of trade
tern schooner
tern-plate
ternary form
ternate-pinnate
terne metal
terne plate
terpane group
terpene alcohol
terpene hydrate
terpin hydrate
terra a terra
terra alba
terra cariosa
terra catechu
terra cotta
terra damnata
terra firma
terra foliata
terra incognita
terra japonica
terra miraculosa
terra muriatica
terra orellana
terra pinguis
terra ponderosa
terra porcellanea
terra pozzuoli
terra putura
terra rosa
terra rossa
terra salitrosa
terra sienna
terra sigillata
terra umbra
terra verde
terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
test marker
test match
test meal
test nail
test oath
test object
test one another
test out
test paper
test pattern
test pilot
test pit
test rocket
test room
test run
test solution
test tube
test tubing
test type
test-ban
test-bed
test-tube
test-tube baby
test-tubeful
testaceo-
testament dative
tester bed
testify against
testimonial banquet
testimonial dinner
testimony meeting
testing area
testing device
testing engineer
testing engineering
testing equipment
testing ground
testing sample
testing terminal
tetano-
tetanus bacillus
tetanus toxin
tetanus toxoid
tetarto-
tetbrothalein sodium
tete a tete
tete de veau
tete-a-tete
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thallloid shoot
thallous sulfate
thalofide cell
thanato-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-ma'am
thanks be to God
thanks to
thanksgiving day
that bald sexton Time
that be
that being so
that being the case
that buttons it up
that dreamless sleep
that fell sergeant
that flattering unction
that goes without saying
that good night
that grim ferryman
that inward eye
that is
that is evident
that is so
that is to be
that is to say
that leaps to the eye
that old bald cheater
that old common arbitrator
that one
that or nothing
that or the other
that orbed continent
that orbed maiden
that time
that unwritten law
that wants discourse of reason
that way
that will be
that's final
that's for sure
that's it
that's just it
that's just the thing
that's right
that's that
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Confessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Queen's English
the Ram
the Rand
the Reaper
the Red Planet
the Reef
the Regenerator
the Reproaches
the Restoration
the Rev Dr Dryasdust
the Reverend
the Right Honorable
the Right Reverend
the Risen
the River Po
the Roman Emperor
the Rule
the Rump
the Sacrament
the Sails
the Salon
the Scales
the Scandinavian Peninsula
the Scorpion
the Scriptures
the Sculptor
the Sculptor's Tool
the Sea Serpent
the Self-determined
the Serpent
the Serpent Bearer
the Seventy
the Sextant
the Shepherd
the Shield
the Ship Argo
the Shires
the Slump
the Snowies
the Snowy
the Son
the Sorrowful Mother
the South Seas
the Southern Crown
the Southern Fish
the Southern Triangle
the Spirit
the Spirit of God
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreath
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum's rush
the bunch
the burning tapers of the sky
the bush
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
the cud
the cunning of the serpent
the cup
the cup that cheers
the curse
the curse of Eve
the daily round
the damned
the dance
the danger is past
the dangerous age
the dansant
the dark
the dark sanctuary of incapacity
the data
the dawn of day
the dawn's early light
the day after tomorrow
the days of our years
the days that are no more
the dead
the dead Summer's soul
the deaf
the deal is off
the deceased
the deep
the deep blue sea
the deep sea
the deeps
the defensive
the defunct
the departed
the depths
the desk
the details
the deuce you say
the devil and all
the devil and the deep blue sea
the devil to pay
the devil you say
the devourer of things
the die is cast
the dim past
the direct opposite
the disadvantaged
the dismal science
the dismals
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the good
the good folk
the good hereafter
the good life
the good people
the good side of
the goods
the governess of floods
the government
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the haves
the hawk
the hay
the health of the soul
the hearing of deaf actions
the heebie-jeebies
the height of your ambition
the helm
the help
the herd
the hereafter
the hills
the hoi polloi
the hole
the holy
the holy of holies
the honest truth
the honest-to-God truth
the honey-heavy dew of slumber
the horde
the horrors
the hot seat
the how
the humanities
the hump
the hunted
the hurdles
the idea
the illimitable
the image of life
the immortals
the impossible
the in thing
the incalculable
the individual
the ineffable
the inenarrable
the inexpressible
the infirm
the information
the ingroup
the inner circle
the ins
the intelligent
the intense inane
the interests
the intrinsic truth
the invisible
the iron entering the soul
the irrevocable Past
the jackboot
the jaundice of the soul
the jerks
the jig is up
the jimjams
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the know
the knowing
the koine
the lam
the lambent easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man's Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quick and the dead
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
the special
the specific
the specifics
the speech of angels
the spit and image of
the spoken word
the sport of fortune
the sport of kings
the squirrel cage
the stage
the stake
the state of affairs
the status quo
the stern truth
the sticks
the still
the stork
the storm blown over
the storm has blown over
the story
the straight and narrow
the straight of it
the straight truth
the strange
the string
the strong
the strong arm
the staff
the subject is closed
the sublime
the sublime style
the suit of night
the summer of your youth
the summit
the supernatural
the supersensible
the supreme fiction
the suspicion of a suspicion
the sweat of your brow
the sweet by-and-by
the sweeter banquet of the mind
the sword
the syndicate
the tag-rag people
the temporal
the theater
the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the unfamiliar
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the war'ry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word 'go'
the works
the world
the world above
the world of commerce
the world of trade
the world of waters wild
the world over
the worldly
the worse for
the worse for liquor
the worse for wear
the worst
the worst of all evils
the worst way
the wretched of the earth
the written word
the wrong side of forty
the wrong way
the years that are past
the yellow leaf
the-
theater lighting
theater man
theater of cruelty
theater of operations
theater of the absurd
theater of war
theater part
theater world
theater, the
theater-craft
theater-in-the-round
theatre of cruelty
theatre of the absurd
theoretical specific impulse
theoretical structure
theory of beauty
theory of being
theory of equations
theory of evolution
theory of games
theory of history
theory of knowledge
theory of probability
theory of relativity
theory-blind
theory-blinded
theory-building
theory-making
theory-spinning
therapeutic abortion
therapeutic index
there and then
there is no help for it
there is no helping it
there is no question
there is not a shadow of doubt
there is nothing more to be said
there is reason to believe
there's no place like home
there's no two ways about it
therefore because of this
therefore on account of this
therio-
therm-
thermal ammeter
thermal barrier
thermal conductivity
thermal cracking
thermal detector
thermal detectors
thermal diffusion
thermal efficiency
thermal engine
thermal equator
thermal equilibrium
thermal neutron
thermal radiation
thermal reactor
thermal shock
thermal spring
thermal timing relay
thesis playwright
theta function
thi-
thiacetic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick-eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girthed
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-spreading
thick-sprung
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves' cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-belly
thin-bladed
thin-bloodyed
thin-blowed
thin-bodied
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-featured
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruited
thin-grown
thin-haired
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippedness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
third part
third party
third party procedure
third person
third position
third rail
third rank
third reading
third sex
third stomach
third stream
third string
third stringer
third ventricle
third world
third-class
third-class mail
third-degree
third-degree burn
third-degreed
third-degreing
third-estate
third-force
third-hand
third-order
third-rail
third-rate
third-rateness
third-rater
third-string
third-world
thirst after
thirst country
thirst for
thirst for knowledge
thirst quencher
thirst-abating
thirst-allaying
thirst-creating
thirst-inducing
thirst-maddened
thirst-quenching
thirst-raising
thirst-scorched
thirst-tormented
thirsty for knowledge
thirsty soul
thirteen-day
thirteen-inch
thirteen-lined
thirteen-lined gopher
thirteen-pence halfpenny
thirteen-ringleted
thirteen-square
thirteen-stone
thirteen-story
thirteenth chord
thirty-acre
thirty-day
thirty-eight
thirty-eighth
thirty-fifth
thirty-first
thirty-five
thirty-foot
thirty-four
thirty-fourth
thirty-gunner
thirty-hour
thirty-inch
thirty-knot
thirty-mile
thirty-nine
thirty-ninth
thirty-one
thirty-pound
thirty-second
thirty-second note
thirty-second rest
thirty-seven
thirty-seventh
thirty-six
thirty-sixth
thirty-third
thirty-thirty
thirty-three
thirty-ton
thirty-two
thirty-twomo
thirty-twomos
thirty-word
thirty-yard
thirty-year
this AM
this PM
this aft
this afternoon
this and no other
this and that
this bank and shoal of time
this being so
this big
this day
this day and age
this goodly frame
this hour
this instant
this man's army
this minute
this moment
this morning
this night
this one
this pendent world
this point
this quintessence of dust
this scepter'd isle
this seat of Mars
this second
this single
this size
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thistle tube
thistle-down
thistle-finch
thiuram disulphide
thompson submachine gun
thomsen's disease
thong leather
thong seal
thoraci-
thoracic duct
thoracic surgery
thoraco-
thoracolumbar nervous system
thorium dioxide
thorium emanation
thorium nitrate
thorium oxide
thorium series
thorn apple
thorn broom
thorn crown
thorn devil
thorn forest
thorn hedge
thorn in the flesh
thorn in the side
thorn in your flesh
thorn letter
thorn locust
thorn oyster
thorn palm
thorn plum
thorn poppy
thorn tree
thorn-apple
thorn-bearing
thorn-bound
thorn-bush
thorn-covered
thorn-crowned
thorn-encompassed
thorn-headed
thorn-hedge
thorn-hedged
thorn-marked
thorn-pricked
thorn-resisting
thorn-set
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twinning
thorough bass
thorough brace
thorough light
thorough stone
thorough-
thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
thorough-pin
thorough-ripe
thorough-shot
thorough-stain
thorough-stitch
thou breath of Autumn's being
thou deep and dark blue ocean
thou scarlet sin
thou unrelenting past
thou weed
thou-shalt-not
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
thought transference
thought writing
thought-abhorrning
thought-bewildered
thought-burdened
thought-challenging
thought-concealing
thought-conjuring
thought-depressed
thought-exceeding
thought-executing
thought-fed
thought-fixed
thought-free
thought-giving
thought-hating
thought-haunted
thought-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
thought-involving
thought-jaded
thought-kindled
thought-laden
thought-lighted
thought-mad
thought-mastered
thread spinner
thread splicer
thread spooler
thread tangle
thread winder
thread your way
thread-cutting
thread-leaved
thread-legged
thread-legged bug
thread-lettered
thread-line fishing
thread-marked
thread-measuring
thread-mercerizing
thread-milling
thread-needle
thread-paper
thread-shaped
thread-the-needle
thread-waisted
thread-winding
thread-worn
threaded glass
threader-up
threading lathe
threading machine
threading tool
threadneedle street
threat to health
threatening course
three R's
three Rs
three balls
three birds
three estates
three hours
three hundred
three o' cat
three o'clock
three of a kind
three old cat
three parts
three percent
three r's
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-angled
three-arced
three-arm
three-arm protractor
three-armed
three-awned
three-bagger
three-ball
three-ballmatch
three-banded
three-bar
three-base hit
three-basehit
three-bearded
three-bid
three-blade
three-bladed
three-bodied
three-bolted
three-bottle
three-bottom
three-bottom plow
three-bout
three-branch
three-branched
three-bushel
three-by-four
three-capsuled
three-card
three-card lant
three-card loo
three-card monte
three-card trick
three-celled
three-centered arch
three-charge
three-charge rate
three-chinned
three-circle
three-circuit
three-circuit switch
three-class
three-class system
three-clause
three-cleft
three-coat
three-cocked
three-color
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three-eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leafed
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouthed
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
tree-pile
tree-piled
tree-piler
tree-pint
tree-plait
tree-ply
tree-point
tree-point landing
tree-point perspective
tree-point problem
tree-point switch
tree-point turn
tree-pointed
tree-pointing
tree-position
tree-poster
tree-pound
tree-pound piece
tree-pounder
tree-power receiver
tree-pronged
tree-quality
tree-quart
tree-quarter
tree-quarter back
tree-quarter bed
tree-quarter binding
tree-quarter nelson
tree-quarter time
tree-quarter tone
tree-quarter turn stair
tree-quarter vamp
tree-quarter-bred
tree-quarters nelson
tree-rail
tree-ranked
tree-reel
tree-ribbed
tree-ridge
tree-ring
tree-ring circus
tree-ringed
tree-ring circus
tree-roll
tree-room
tree-roomed
three-row
three-rowed
three-sail
three-salt
three-scene
three-second
three-seeded
three-shanked
three-shaped
three-shilling
three-sided
three-sidedness
three-sixty
three-soled
three-space
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-striped
three-striper
three-styled
three-suited
three-syllable
three-syllable law
three-syllabled
three-tailed
three-thorned
three-thorned acacia
three-thread
three-throw
three-tie
three-tie joint
three-tier
three-tiered
three-time
three-tined
three-toed
three-toed woodpecker
three-toes
three-ton
three-tongued
three-toothed
three-toothed cinquefoil
three-torque
three-tripod
three-up
three-valued
three-valved
three-volume
three-way
three-way receiver
three-way spread
three-way switch
three-wayed
three-week
three-weekly
three-wheeled
three-wheeler
three-winged
three-wire
three-wire cable
three-wire generator
three-wire system
three-wive
three-woods
three-wormed
three-year
three-year-old
three-years
threelfold block
threelfold purchase
threelfold tackle
threepenny bit
threepenny piece
threescore and ten
threescore years and ten
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thrifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
throes of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throstle-cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ither
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off
throw off all disguise
throw off balance
throw off the scent
throw off your guard
throw on
throw on one's beam end
throw on paper
throw on the junk heap
throw on the market
throw on your beam ends
throw open
throw open to
throw out
throw out a feeler
throw out a hint
throw out a smoke screen
throw out of gear
throw out of joint
throw out of order
throw out on your ear
throw out the window
throw out your chest
throw over
throw overboard
throw rug
throw stick
throw stones at
throw the book at
throw the bull
throw the first stone
throw the spotlight on
throw to the dogs
throw together
throw under the jailhouse
throw up
throw up the cards
throw up your hands
throw your arms around
throw your back at
throw your hat in the ring
throw your money away
throw your weight around
throw your weight into the scale
throw yourself at the feet of
throw yourself at the head of
throw yourself into
throw yourself into the arms of
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb rule
thumb through
thumb turn
thumb your nose
thumb your nose at
thumb your way
thumb-and-finger
thumb-fingered
thumb-index
thumb-kissing
thumb-made
thumb-mark
thumb-marked
thumb-nail
thumb-ring
thumb-ropes
thumb-screw
thumb-shaped
thumb-stall
thumb-sucker
thumb-sucking
thumb-worn
thumbing a ride
thumbnail sketch
thumbs down
thumbs up
thumbs-down
thumbs-up
thump in
thump the tub for
thump-cushion
thumped-in landing
thunder against
thunder along
thunder and lightning
thunder at the top of your voice
thunder ax
thunder forth
thunder god
thunder gods
thunder mug
thunder of applause
thunder planet
thunder plant
thunder pumper
thunder rod
thunder snake
thunder spirit
thunder tube
thunder-armed
thunder-baffled
thunder-bearer
thunder-blast
thunder-breathing
thunder-charged
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymic acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyrd-
thyro-
thyroid gland
thyroid-stimulating hormone
ti palm
ti tree
tib-cat
tibetan terrier
tibeto-burman
tibio-
tic douloueux
tic-polonga
tic-tac-toe
tick bird
tick clover
tick doleru
tick farcy
tick fever
tick off
tick over
tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
ticket day
ticket gate
ticket holder
ticket maker
ticket night
ticket of admission
ticket of leave
ticket office
ticket porter
ticket printer
ticket punch
ticket rack
ticket scalper
ticket taker
ticket varnisher
ticket window
ticket writer
ticket-canceling
ticket-counting
ticket-dating
ticket-making
ticket-of-leave
ticket-of-leave man
ticket-of-leaver
ticket-porter
ticket-printing
ticket-registering
ticket-selling
ticket-vending
tickets of leave	tickety-boo
ticking work	tickle grass
tide lock
tide mill
tide of time
tide over
tide pole
tide pool
tide predictor
tide race
tide register
tide rip
tide staff
tide table
tide wave
tide way
tide wheel
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-tossed
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier	
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up
tie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-out
tie-plater
tie-tie
tie-up
tie-wig
tied down
tied house
tied image
tied letters
tied score
tied to your apron strings
tied up
tied up in
tier building
tier ranger
tier shot
tier table
tierce de Picardie
tierce major
tierce minor
tierce point
tierce rhyme
tiers etat
tiers-argent
ties of affection
ties of blood	
tiger beetle
tiger bittern
tiger cat
tiger chop
tiger cocoa
tiger cowrie
tiger finch
tiger fish
tiger frog
tiger grass
tiger heart
tiger lily
tiger milk
tiger mosquito
tiger moth
tiger python
tiger salamander
tiger shark
tiger shell
tiger snake
tiger swallowtail
tiger wolf
tiger’s milk
tiger’s-eye
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooper
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker
tiglic acid
til oil
til seed
til tree
tile drain
tile hook
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed	
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
till the soil
till then
till time runs out
till time stops
till you are blue in the face
till you're blue in the face
tiller bow
tiller chains
tiller lines
tiller of the soil
tiller rope	tilleul green	tilly-fally	tilly-vally	tilt angle	tilt at	tilt at windmills	tilt boat	tilt bonnet	tilt hammer	tilt mill	tilt roof	tilt steel	tilt with	tilt-boat	tilt-hammer	tilt-top table	tilt-up	tilt-yard	tilting chest	tilting conveyor	tilting fillet	tilting ground	tilting hammer	tilting helmet	tilting level	tilting yard	tim-whiskey
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
timber-lined
timber-producing
timber-propped
timber-skeletoned
timber-strewn
timber-toed
timber-tree
timber-wood
timber-work
timber-yard	imbrrel arch
timbrrel vault
time about
time after time
time ahead
time allotment
time allowance
time and a half
time and again
time and motion
time and motion study
time and time again
time at bat
time at your command
time at your disposal
time azimuth
time ball
time bargain
time belt
time bill
time bomb
time book
time capsule
time card
time chart
time charter
time charter party
time clerk
time clock
time constant
time constants
time control
time copy
time delay
time deposit
time derivative
time detector
time discount
time draft
time drawing on
time enough
time error
time exposure
time fire
time flies
time fuse
time globe
time gun
time hanging on your hands
time hit
time immemorial
time in
time interval
time just ahead
time killer
time lag
time lamp
time lead
time limit
time loan
time lock
time machine
time marches on
time measurement
time money
time note
time of day
time of life
time of year
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time quadrature
time rating
time recorder
time runs out
time scale
time schedule
time selling
time sense
time series
time service
time sharing
time sheet
time shrapnel
time sight
time signal
time signature
time space
time spirit
time stamp
time star
time study
time switch
time thrust
time ticket
time to burn
time to catch your breath
time to come
time to kill
time to spare
time train
time trial
time triangle
time value
time was
time waster
time without end
time zone
time's caravan
time's forelock
time-authorized
time-ball
time-bargain
time-barred
time-battered
time-beguiling
time-bent
time-bettering
time-bewasted
time-binding
time-blackened
time-blanching
time-borne
time-bound
time-breaking
time-cancelled
time-changed
time-cleft
time-consuming
time-delay relay
time-deluding
time-discolored
time-eaten
time-economizing
time-enduring
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
time-keeper
time-killing
time-lag
time-lapse
time-lapse photography
time-lasting
time-limit
time-marked
time-measuring
time-mellowed
time-motion study
time-noting
time-out
time-pressed
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing
time-shrouded
time-space
time-spirit
time-table
time-taught
time-temperature
time-temperature curve
time-tested
time-tried
time-wasted
time-wasting
time-wearied
time-white
time-withered
time-worn
timeo Danaos et dona ferentes	
times of old
times of yore
times past
times without number
times, the		
timing chain
timing gears
timing pulse
timing screw
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
 tin kettle
 tin liquor
 tin lizzie
 tin loaf
 tin monoxide
 tin opener
 tin ore
 tin oxide
 tin pail
 tin pan alley
 tin pest
 tin plague
 tin plate
 tin plater
 tin pot
 tin pulp
 tin putty
 tin pyrite
 tin pyrites
 tin salt
 tin shop
 tin smelter
 tin snips
 tin soldier
 tin spirit
 tin spirits
 tin spot
 tin stream
 tin streamer
 tin streaming
 tin tack
 tin tetrachloride
 tin wash
 tin washing
 tin wedding
 tin whistle
 tin-bearing
 tin-bottomed
 tin-bound
 tin-bounder
 tin-capped
 tin-colored
 tin-covered
 tin-earred
 tin-edged
 tin-filled
 tin-foil
tin-foil paper
tin-foiler
tin-glass
tin-glazed
tin-handled
tin-kettle
tin-kettler
tin-lined
tin-mailed
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-pottiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium
tincture press	
tinder fungus
tinder-cloaked
tinder-dry	
tinea barbae
ting ware	
ting-a-ling	
tingle with excitement	
tinhorn gambler	
tink-a-tink	
tinker mackerel	
tinker up	
tinker's dam	
tinker's damn	
tinker's damn, a	
tinker's weed	
tinkle-tankle	
tinkle-tankling
tinned dog
tinned goods
tinning stack	
tinsel-bright
tinsel-clad
tinsel-covered
tinsel-embroidered
tinsel-paneled
tinsel-slippered	
tint block
tint for tant	
tint meter	
tint photometer
tint tool	
tiny bit

tip and run
tip cap
tip car
tip cheese
tip crane
tip in
tip off
tip over
tip plant
tip roast
tip roll
tip sled
tip slide
tip speed
tip table
tip the hat to
tip the scale
tip the scales
tip truck
tip van
tip wagon
tip worm
tip your hand
tip-
tip-and-run
tip-cat
tip-crowning
tip-curved
tip-earred
tip-finger
tip-in
tip-off
tip-on
tired and weary-laden
tired cliche
tired market
tired of
tired of living
tired out
tired to death
tired-armed
tired-eyed
tired-faced
tired-headed
tired-looking
tired-winged
tiresome work
tiring house
tiring irons
tiring maid
tiring room
tiring woman
tiring-house
tiring-irons
tiring-room
tirli-wirli
tirling pin	irly-toy
tirra-lirra
tishah-b'ab	issue culture
tissue fibrinogen
tissue fluid
tissue paper
tissue-building
tissue-changing
tissue-destroying
tissue-forming
tissue-paper
tissue-producing
tissue-secreting	isty-tosty
tit babbler
tit drill
tit for tat
tit in the wringer	tit screw
tit-bit
tit-tat-toe
tit-up	tita root	titading or caption	titan crane	titan-
titanic acid	titanic anhydride	titanic iron ore	titanic oxide	titanium dioxide	titanium oxide	titanium white	titano-
titer test	tithe barn	tithe collector	tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man
title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
title insurance
title letter
title lining
title of honor
title page
title role
title space
title type
title-bearing
title-deed
title-holding
title-hunting
title-mad
title-page
title-seeking
title-winning	itter-totter	ittle-tattle	ittle-tattled	ittle-tattler	ittle-tattling	itular bishop	ityre-tu	iz-woz
to a T
to a certain extent
to a certainty
to a degree
to a draw
to a fare-thee-well
to a fare-ye-well
to a fare-you-well
to a fault
to a finish
to a frazzle
to a great degree
to a great extent
to a hair
to a large extent
to a man
to a nicety
to a small degree
to a small extent
to a standoff
to a tee
to a tie
to a tittle
to a turn
to advantage
to all appearances
to all intents and purposes
to all seeming
to an extent
to an inch
to and fro
to any end
to atone for
to be brief
to be counted on
to be counted on your fingers
to be depended upon
to be desired
to be exact
to be expected
to be fair
to be had
to be on the road
to be precise
to be preferred
to be reckoned on
to be relied upon
to be seen
to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to bits
to blame
to no purpose
to nourish a viper in your bosom
to one side
to order
to paint the lily
to perfection
to pieces
to post on a diagonal
to profit
to prove the point
to relieve yourself
to retain
to rights
to say nothing of
to sell
to shards
to shreds
to smithereens
to some degree
to some extent
to some purpose
to spare
to speak of
to speak truthfully
to splinters
to state the fact
to state the truth
to such an extent
to tatters
to tell the truth
to that place
to the account of
to the amount of
to the backbone
to the bad
to the best of your ability
to the best of your belief
to the best of your knowledge
to the bitter end
to the brim
to the contrary
to the core of
to the crack of doom
to the credit of
to the death
to the edge of doom
to the end
to the end of time
to the end that
to the extreme
to the eye
to the fore
to the four corners of the earth
to the four winds
to the front
to the full
to the good
to the heart of
to the heirs of his body
to the highest degree
to the hilt
to the king's taste
to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past
to the point
to the point of exhaustion
to the purpose
to the queen's taste
to the rear
to the right
to the same degree
to the second
to the side
to the skies
to the sky
to the teeth
to the top of your bent
to the tune of
to the utmost
to the wind
to the windward
to the wise
to the zenith
to this day
to this place
to throw a perfume on the violet
to what extent
to what place
to which place
to windward
to wit
to year and day
to your account
to your amazement
to your astonishment
to your cost
to your credit
to your delight
to your disgust
to your displeasure
to your face
to your fancy
to your fingertips
to your great glee
to your great surprise
to your health
to your heart's content
to your knowledge
to your liking
to your mind
to your satisfaction
to your shame
to your shame be it spoken
to your surprise
to your taste
to your utmost
to your way of thinking
to-
to-and-fro
to-and-fros
to-and-ko
to-arrive
to-be
to-break
to-burst
to-day
to-do
to-dos
to-draw
to-drive
to-fall
to-morn
to-morrow
to-name
to-night
to-rend
to-rights
to-side
to-tear
to-year
toad bug
toad grass
toad lily
toad orchis
toad rush
toad snatcher
toad spit
toad spittle
toad spot
toad stabber
toad sticker
toad's-mouth
toad-bellied
toad-blind
toad-eat
toad-eater
toad-fish
toad-flax
toad-frog
toad-green
toad-hating
toad-housing
toad-in-the-hole
toad-legged
toad-shaped
toad-spotted
toad-swollen
toadstool disease
toady to
toast color
toast list
toast rack
toast water
toast-brown
toasted cheese sandwich
toasting fork
toasting iron
tobacco addiction
tobacco bagger
tobacco barn
tobacco beetle
tobacco belt
tobacco box
tobacco brown
tobacco bug
tobacco camphor
tobacco carton
tobacco case
tobacco chewing
tobacco cloth
tobacco cultivator
tobacco cutter
tobacco dryer
tobacco dust
tobacco fertilizer
tobacco flea beetle
tobacco granulator
tobacco grater
tobacco hawk moth
tobacco heart
tobacco hornworm
tobacco juice
tobacco lath
tobacco leaf miner
tobacco liquor
tobacco liquorer
tobacco machine
tobacco machinery
tobacco mildew
tobacco molder
tobacco mosaic
tobacco mosaic virus
tobacco panner
tobacco pipe
tobacco pouch
tobacco press
tobacco rack
tobacco retainer
tobacco road
tobacco roller
tobacco shaver
tobacco shed
tobacco shop
tobacco smoker
tobacco smoking
tobacco sprayer
tobacco spreader
tobacco stick
tobacco stopper
tobacco store
tobacco stripper
tobacco thrips
tobacco tongs
tobacco twister
tobacco user
tobacco water
tobacco wilt
tobacco worm
tobacco-abusing
tobacco-box
tobacco-box skate
tobacco-breathed
tobacco-growing
tobacco-pipe
tobacco-pipe clay
tobacco-plant
tobacco-sick
tobacco-smoking
tobacco-stained
tobacco-stemming
tobin's tube
tobira family
toboggan cap
toboggan slide
tobosa grass	oby jug
toc-toc
toccata form
tocharian a
tocharian b
tocher band
tocher good	oco-
tod stove	oddle along	oddy bird	oddy blossom	oddy cat	oddy ladle	oddy palm	oddy stick	oddy table	oddy tree
toe and heel
toe biter
toe box
toe calk
token coin
token gesture
token money
token of esteem
token of remembrance
token payment
token punishment
token ring
token sheet
token silver
token strike
token vote
token-money
tol de rol
tol-
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-ish
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
toluyl radical
toly group
toly radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gall
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
ton-mile
ton-mileage
ton-up
tonal gap
tonal island
tone accent
tone arm
tone cluster
tone color
tone colour
tone control
tone deafness
tone down
tone gap
tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down
tong borer
tongue and groove
tongue bar
tongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm
tongue-and-groove joint
tongue-back
tongue-baited
tongue-bang
tongue-bitten
tongue-blade
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-graft
tongue-haltered
tongue-hammer
tongue-jangling
tongue-kill
tongue-lash
tongue-lashing
tongue-leaved
tongue-lolling
tongue-murdering
tongue-pad
tongue-point
tongue-puissant
tongue-shaped
tongue-tack
tongue-taming
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-aged
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
too-long
too-much
too-muchness
too-near
too-old
too-patient
too-piercing
too-proud
too-ripe
too-short
too-soon
too-soonness
too-timely
too-too
too-trusting
too-willing
too-wise
too-young
toolle-oo
tool angle
tool apron
tool bag
tool belt
tool boy
tool cabinet
tool car
tool carriage
tool carrier
tool cart
tool case
tool chest
tool coupling
tool demagnetizer
tool engineer
tool engineering
tool examiner
tool fasher
tool fettler
tool filer
tool finder
tool fitter
tool forge
tool forger
tool gauge
tool glazer
tool grinder
tool grinding
tool handle
tool heater
tool house
tool kit
tool lubricant
tool miller
tool oil
tool plane
tool post
tool press
tool rack
tool reclaim

tool regrind
tool reparer

tool rest
tool roll
tool set

tool sharpener
tool shed
tool shop
tool socket

tool spindle
tool stamper
tool stand

tool steel
tool storekeeper
tool subject

tool table
tool temper
tool tray

tool treating
tool truck
tool turner
tool wagon

tool whetter
tool-and-die maker

tool cleaning
tool cutting
tool dresser
tool dressing
tool maker

tool sharpening
tool using

tooling up
toolroom lathe
tools and machinery

toot plant

toot your own horn
tooth and nail

tooth ax

tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge
tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-drawer
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
toothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top priority
top round
top secret
top sergeant
top shape
top side
top slice
top slicing
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
topaz-yellow
toper's-plant
topgallant mast
topgallant sail
topgallant yard
tophus stone
topic of the day
topic sentence
topical anesthetic
topical outline
topknot pigeon
topo-
topographic chart
topographico-mythical
topological equivalence
topological group
topological invariant
topological space
topological transformation
topping lift
topping off
topping-off
topping-out course
topple down
topple over
tops, the
topsail schooner
topsail-tye
topsy-turn
topsy-turnness
topsy-turvical
topsy-turvies
topsy-turvification
topsy-turvifier
topsy-turvify
topsy-turvily
topsy-turviness
topsy-turvy
topsy-turvydom
topsy-turvyhood
topsy-turvyism
topsy-turvyist
topsy-turvyize
torch cactus
torch course
torch dance
torch flower
torch holder
torch light
torch lily
torch pine
torch race
torch singer
torch singing
torch song
torch staff
torch thistle
torch tree
torch-bearer
torch-fish
torch-light
torch-tree family
torch-wood
torchon board
torchon lace
torchon paper
torchwood family
toreador pants
toric lens	orningo crab apple
torment of Tantalus
tormentor wing
torn-down	ornado belt	ornado cellar	ornado cloud	ornado insurance	ornado lamp	ornado lantern	ornado-breeding	ornado-haunted	ornado-swept
toro bravo	ororo-konbu	ororo-kubu	torpedo battery	torpedo boat
torpedo body
torpedo bomber
torpedo boom
torpedo catcher
torpedo director
torpedo fish
torpedo mine
torpedo net
torpedo ram
torpedo rocket
torpedo room
torpedo sand
torpedo school
torpedo spar
torpedo station
torpedo stern
torpedo strike aircraft
torpedo tube
torpedo-boat
torpedo-boat catcher
torpedo-boat destroyer
torpedo-shaped
torque arm
torque converter
torque tube
torque wrench		
torrent bow
torrent duck
torrent of rain
torrent-bitten
torrent-borne
torrent-braving
torrent-flooded
torrent-mad
torrent-swept
torrid heat
torrid zone		
torsion angle
torsion axis
torsion balance
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress
torso murder
tort-feasor
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoiseshell turtle
torture the law to your own ends
torus palatinus
tory democracy
tory-rory	osh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up	tossed salad
tossing and turning
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
touch typewriting
touch up
touch upon
touch upon in passing
touch upon lightly
touch where it hurts
touch writer
touch writing
touch your heart
touch-
touch-and-go
touch-box
touch-hole
touch-in goal
touch-in-goal
touch-in-goal line
touch-line
touch-me-not
touch-me-not-ish
touch-paper
touch-piece
touch-powder
touch-tackle
touch-type
touch-up
touched in the head
touched in the wind
touching down
tough as leather
tough break
tough cake
tough grind
tough guy
tough it out
tough job
tough lineup to buck
tough luck
tough nut to crack
tough out
tough pitch
tough pitch copper
tough policy
tough proposition
tough shit
tough tenacity of purpose
tough titty
tough-backed
tough-fibered
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mindedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs
tours en l'air	
tous-les-mois
tousled hair
tout a fait
tout a l'heure
tout au contraire
tout court
tout de suite
tout ensemble
tout le monde
tow boy
tow car
tow carder
tow carrier
tow cloth
tow hook
tow iron
tow mixer
tow post
tow sack
tow team
tow truck
tow wheel
tow-colored
tow-coloured
tow-feeder
tow-haired
tow-headed
tow-line
tow-made
tow-net
tow-netter
tow-netting
tow-path
tow-pung
tow-rope
tow-row
tow-spinning
towel gourd
towel horse
towel rack
towel rail
tower above
tower away
tower bastion
tower bolt
tower cap
tower chime
tower clock
tower cress
tower hill
tower house
tower light
tower mustard
tower of Pisa
tower of silence
tower of strength
tower over
tower owl
tower pound
tower projector
tower shell
tower stamp
tower telescope
tower wagon
tower window
tower-bearing
tower-capped
tower-crested
tower-crowned
tower-dwelling
tower-encircled
tower-flanked
tower-high
tower-mill
tower-razing
tower-shaped
tower-studded
tower-supported
tower-tearing
towering alps
towering heights
towering passion
towering rage
towing basin
towing bridle
towing lights
towing net
towing path
towing post
towing spar
town adjutant
town ball
town book
town boomer
town bridge
town bushel
town car
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
toxin-antitoxin


toxin-antitoxin immunity

toxin-antitoxin immunization

toxo-

toxophore group

toy dog

toy manchester

toy poodle

toy shop

toy soldier

toy spaniel

toy terrier

toy with

toy-loving

toy-shop

toy-sized

tr-ties

tra-la

tra-la-la

trace buckle

trace chain

trace connector

trace down

trace element

trace fastener

trace holder

trace hook

trace horse

trace of an idea

trace out

trace over

trace spring

trace the derivation of

trace the origin of

trace to

trace-bearer

trace-galled

trace-high

tracer atom

tracer bullet

tracer element

tracer investigation

trache-

trachelo-

trachelo-occipital

tracheo-

trachio branchia

trachy-
tracing braid
tracing cloth
tracing paper
tracing thread
tracing wheel
track and field
track boat
track bolt
track brake
track chisel
track cleaner
track clip
track down
track drill
track edge
track gauge
track guard
track harness
track indicator
track inspector
track instrument
track jack
track level
track leveler
track lifter
track liner
track map
track mark
track meet
track of
track oven
track punch
track race
track record
track road
track rod
track roller
track scale
track shim
track shoe
track shot
track spike
track sports
track sprocket
track suit
track switch
track tank
track tool
track wrench
track-
track-and-field
track-clearing
track-laying
track-mile
track-walking
tracked vehicle
tracker action
tracker bar
tracker-action organ
tracking down
tracking shot
tracking station
trackless trolley
tract index
tract of time
traction engine
traction fiber
traction sprayer
traction wheel
traction-engine
tractive effort
tractive power
tractor airplane
tractor airscrew
tractor plane
tractor propeller
tractor trailer
tractor truck
tractor-trailer
trade acceptance
trade agreement
trade allowance
trade association
trade at
trade balance
trade board
trade book
trade center
trade club
trade coin
trade commissioner
trade council
trade cumulus
trade cycle
trade discount
trade dollar
trade-in
trade-laden
trade-last
trade-made
trade-mark
trade-mark infringement
trade-mark name
trade-marker
trade-off
trade-seeking
trade-union
trade-unionism
trade-unionist
trade-wind
trade-wind rig
trademark name
trades board
trades council
trades hall
trades-union
trades-unionism
trades-unionist
trading account
trading estate
trading market
trading post
trading stamp
tradition-bound
tradition-fed
tradition-following
tradition-making
tradition-nourished
tradition-ridden
traditional grammar
traditional logic
traditor battery
traffic beacon
traffic circle
traffic constable
traffic control
traffic control signal
traffic cop
traffic court
traffic density
traffic director
traffic engineering
traffic in
traffic in women
traffic island
traffic jam
traffic law
traffic light
traffic manager
traffic of the stage
traffic officer
traffic pattern
traffic policeman
traffic post
traffic regulator
traffic sheet
traffic shifter
traffic signal
traffic squad
traffic tower
traffic warden
traffic with
traffic-bearing
traffic-choked
traffic-congested
traffic-furrowed
traffic-laden
traffic-mile
traffic-regulating
traffic-thronged
tragedy-proof
tragi-
tragi-comedy
tragi-comic
tragic drama
tragic flaw
tragic irony
tragic muse
tragic-comedy
trail after
trail along
trail angle
trail arms
trail away
trail bar
trail behind
trail bike
trail blazer
trail blazing
trail board
trail boss
trail breaker
trail bridge
trail car
trail cart
trail ferry
trail handspike
trail herd
trail net
trail of
trail plank
trail plate
trail rope
trail sight
trail spade
trail spur
trail-eye
trail-marked
trail-weary
trail-wise
trailer camp
trailer car
trailer court
trailer park
trailer truck
trailing arbutus
trailing edge
trailing evergreen
trailing fuchsia
trailing myrtle
trailing phlox
trailing vortex drag
trailing-point
trailing-point switch
train butcher
train caller
train conductor
train crew
train dispatcher
train flagman
train foreman
train guard
train hand
train indicator
train inspector
train jumper
train legs
train line
train mileage
train of thought
train off
train oil
train pipe
train recorder
train reporter
train robber
train room
train rope
train schedule
train service
train shed
train sheet
train sickness
train signal
train spotter
train staff
train starter
train stop
train tackle
train ticket
train trip
train upon
train wrecker
train-dispatching
train-giddy
train-lighting
train-mile
trained nurse
trainer-bomber
trainer-fighter
training aid
training bank
training college
training day
training group
training level
training missile
training mission
training pants
training rocket
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
tram-car
tram-line
tram-road
tram-traveling
trammel net
trammel wheel
trammel-net
tramp pick
tramp ship
tramp steamer
trample down
trample in the dust
trample on
trample out
trample under foot
trample underfoot
trample upon
trampling down
trance speaking
trance state
trance writing
tranche de bouf
tranche de lard
tranche de vie
tranquil-acting
tranquil-ization
tranquil-looking
tranquil-minded
trans-
trans-Adriatic
trans-African
trans-Algerian
trans-Alleghenian
trans-American
trans-Andean
trans-Andine
trans-Antarctic
trans-Apennine
trans-Arabian
trans-Asiatic
trans-Australian
trans-Austrian
trans-Balkan
trans-Baltic
trans-Canadian
trans-Carpathian
trans-Caspian
trans-Congo
trans-Cordilleran
trans-Danubian
trans-Egyptian
trans-Euphrates
trans-Germanic
trans-Grampian
trans-Himalayan
trans-Hispanic
trans-Iberian
trans-Indian
trans-Indus
trans-Iranian
trans-Iraq
trans-Jovian
trans-Liberian
trans-Libyan
trans-Manchurian
trans-Martian
trans-Mediterranean
trans-Mississippi
trans-Mississippian
trans-Mongolian
trans-Neptunian
trans-Niger
trans-Panamanian
trans-Paraguayan
trans-Persian
trans-Pyrenean
trans-Rhenish
trans-Sahara
trans-Saharan
trans-Saturnian
trans-Severn
trans-Siberian
trans-Stygian
trans-Tiber
trans-Tibetan
trans-Ural
trans-Uralian
transfer resistance
transfer right
transfer stamp
transfer table
transferable vote
transference neurosis
transference number
transferred meaning
transferred sense
transferring machine
transfinite cardinal
transfinite number
transfinite ordinal
transformation myth
transformation range
transformation rule
transformation scene
transformation temperature
transformational grammar
transformational linguistics
transformational rule
transformer oil
transfuse the sense of
transfusion cell
transfusion tissue
transient boarder
transient cause
transient guest
transient lodging
transient state
transistor circuit
transistor hearing aid
transistor physics
transistor radio
transit camp
transit certificate
transit circle
transit compass
transit department
transit duty
transit floater
transit instrument
transit pass
transit prism
transit privileges
transit rot
transit station
transit theodolite
transit time
transition curve
transition element
transition fit
transition form
transition mission
transition point
transition probability
transition sound
transition strip
transition temperature
transition tint
transitive verb
transitive vnsit number
transitory action
translate into
translate into action
translating roller
translation of axes
translucent things
transmigration of souls
transmission bands
transmission belting
transmission cable
transmission case
transmission chain
transmission clutch
transmission density
transmission dynamometer
transmission efficiency
transmission electron microscope
transmission factor
transmission gear
transmission grating
transmission level
transmission line
transmission lock
transmission loss
transmission of light
transmission pulley
transmission pump
transmission rope
transmission shaft
transmission sheaf
transmission stop system
transmission theory
transmission tower
transmission unit
transmission wheel
transmit warrant
transmit-receive unit
transmit-receiver
transmitter part
transmitter parts
transmitter receiver
transmitter signal
transmitter truck
transmitting antenna
transmitting set
transmitting station
transoceanic rocket
transom adjuster
transom bar
transom butt
transom catch
transom center
transom chain
transom eye
transom frame
transom knee
transom lift
transom light
transom operator
transom plate
tansom stern
tansom window
tansom-stered
transonic barrier
transparent color
transparent item
transparent substance
transparent things
transpartisan leadership
transpersonal therapy
transphysical science
transpiration current
transport caf
transport number
transport rider
transport riding
transport ship
transport vessel
transportation corps
transportation engineer
transportation insurance
transportation map
transporter bridge
transposed conjg
transposed conjugate
transposed matrix
transposing instrument
transposition cipher
transposition method
transsonic speed
transverse colon
transverse flute
transverse magnification
transverse presentation
transverse process
transverse section
transverse vibrations
transverse wave
trap bat
trap bat and ball
trap brilliant
trap bushing
trap car
trap clamp
trap cleaner
trap cover
trap crop
trap cut
trap door
trap driver
trap drummer
trap fisher
trap hatch
trap lever
trap line
trap match
trap nest
trap net
trap on the ropes
trap play
trap screw
trap shot
trap stair
trap tree
trap tuff
trap vent
trap weir
trap window
trap-ball
trap-cut
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash Turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
traveling-wave tube
traveller's cheque
traveller's joy
travelling salesman
travelling wave
traverse a yard
traverse board
traverse circle
traverse drill
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
tray agriculture
tray boy
tray cloth
tray conveyer
tray elevator
tray emptier
tray filler
tray frame
tray handle
tray maker
tray table
tray-shaped
tray-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly
tread-wheel	
treading down
treading mill
treading water
treads and risers
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing
treasure box
treasure chamber
treasure chest
treasure city
treasure house
treasure hunt
treasure hunter
treasure hunting
treasure quest
treasure room
treasure seeker
treasure ship
treasure trove
treasure up
treasure up in the heart
treasure up in the memory
treasure-baited
treasure-bearing
treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant	
treat as routine
treat for sore eyes
treat gently
treat lightly
treat like dirt under your feet
treat of
treat to
treat unequally
treat well
treat with
treat with contempt
treat with disrespect
treat with indignity
treat with reserve
treatment room
treaty maker
treaty making
treaty of peace
treaty port
treaty reinsurance
treaty-bound
treaty-breaking
treaty-favoring
treaty-sealed
treaty-secured
treble best
treble block
treble bob
treble chance
treble clef
treble gear
treble purchase
treble staff
treble viol
treble-dated
treble-gear

treble-sinewed
tREE agate
tree aloe
tree azalea
tree bear
tree belt
tree boa
tree bracket
tree cactus
tree calf
tree cat
tree celandine
tree class
tree clover
tree cobra
tree compass
tree cony
tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fuchsia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hoopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree looker
tree lotus
tree lucern
tree lungwort
tree lupine
tree mallow
tree marking
tree marten
tree martin
tree medic
tree mildew
tree milk
tree molasses
tree moss
tree mouse
tree myrtle
tree nymph
tree of Jesse
tree of heaven
tree of knowledge
tree of life
tree of sadness
tree onion
tree orchis
tree partridge
tree peony
tree pie
tree pigeon
tree pipit
tree planter
tree planting
tree poke
tree poppy
tremble in your shoes
tremble like an aspen leaf
tremble on the verge
tremble to its fall
tremble to your fall
trembleuse cup
trembling in the balance
trembling poplar
trembling prairie
tremor disk
tremor of excitement	
trench albuminuria
trench artillery
trench back
trench bomb
trench cart
trench cavalier
trench coat
trench digger
trench disease
trench fever
trench foot
trench gun
trench knife
trench mortar
trench mouth
trench nephritis
trench plow
trench sickness
trench silo
trench warfare
trench-plough
trencher attendant
trencher cap
trencher companion
trencher critic
trencher friend
trencher knight
trencher philosopher
trencher plate
trencher poetry
trencher rascal
trencher slave
trencher time
trencher-cap
trencher-fed
trencher-man
trenching plane
trenching spade
trend downward
trend of the times
trend upwards
trend-setter
trente et quarante
trente-et-quarante
tres bien
tres bon
tres vif
tres-tine	
trespass board
trespass offering
tress-braiding
tress-encircled
tress-lifting
tress-plaiting
tress-shorn
tress-topped
trestle and table
trestle bed
trestle bent
trestle board
trestle bridge
trestle legs
trestle post
trestle table
trestle-tree
trey-ace
trez-tine
tri-
tri-city
tri-ester
tri-iodide
tri-mide
tri-pack
tri-personal
tri-ply
tri-tunnel
tria juncta in uno
triakis-
trial and error
trial at the bar
trial balance
trial balloon
trial brief
trial by battle
trial by jury
trial case
trial court
trial docket
trial engagement
trial examiner
trial frame
trial glasses
trial heat
trial horse
trial impression
trial judge advocate
trial jury
trial lawyer
trial lenses
trial marriage
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldeh
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricolor camera
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanic acid
tridarn cupboard
trident bat
trident-shaped
tridymite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
triggering pulse
triggering signals
trigonal trisoctahedron
trigono-
trigonometric equation
trigonometric function
trihydric alcohol
trilateral symmetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinitro-
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
triode-heptode
trip catch
trip charter party
trip dial
trip die
trip dog
trip engine
trip gear
trip hammer
trip hook
trip line
trip money
trip over your own feet
trip over your tongue
trip piece
trip pin
trip rate
trip shaft
trip slip
trip system
trip the light fantastic
trip to Mars
trip to the moon
trip train
trip up
trip-free
trip-hammer
trip-madam
trip-toe
tripartite and pretty
tripe de roche
tripe dresser
tripe seller
tripe-de-roche
tripe-eating
tripe-selling
triphenylmethane color
triphenylmethane dye
triphosphoric acid
triple bond
triple counterpoint
triple crown
triple dresser
triple fugue
triple integral
triple jump
triple measure
triple play
triple plume
triple point
triple rhyme
triple rhythm
triple scalar product
triple superphosphate
triple tangent
triple tangent plane
triple threat
triple time
triple vaccine
triple-acting
triple-action
triple-ailed
triple-apsidal
triple-arched
triple-awned
triple-barbed
triple-barred
triple-bearded
triple-bodied
triple-bolted
triple-branched
triple-check
triple-chorded
triple-colored
triple-crested
triple-crowned
triple-cylinder
triple-deck
triple-decked
triple-decker
triple-dyed
triple-edged
triple-entry
triple-expansion
triple-expansion engine
triple-formed
triple-gemmed
triple-hatted
triple-headed
triple-header
triple-hearth
triple-ingrain
triple-line
triple-lived
triple-lock
triple-nerved
triple-piled
triple-pole
triple-rayed
triple-ribbed
triple-rivet
triple-roofed
triple-space
triple-stranded
triple-tailed
triple-terraced
triple-thread
triple-throated
triple-throw
triple-tiered
triple-tongue
triple-tongued
triple-tonguing
triple-toothed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triplicate-ternate
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat
troilus butterfly
trois point
trojan horse
trojan war
troll plate
troll-drum
troll-madam
trolley attendant
trolley block
trolley bracket
trolley bus
trolley car
trolley carrier
trolley catcher
trolley clip
trolley coach
trolley cord
trolley fork
trolley frog
trolley gong
trolley guard
trolley harp
trolley hoist
trolley insulator
trolley lace
trolley line
trolley locomotive
trolley maker
trolley pole
trolley rail
trolley retriever
trolley road
trolley shoe
trolley spring
trolley track
trolley tracking
trolley wagon
trolley wheel
trolley wire
tromba marina
trombe marine
trombone coil
trompe l'oeil
tron weight
trope weight	troop carrier
troop duck
troop leader
troop school
troop train
troop transport
troop-lined
troop-thronged
troops of the line
troostite-martensite
troosto-martensite
trop-
tropaneol D
trope of comparison
tropeolin D
troph-
trophic level
tropho-
trophy cress
trophy money
trophy room
trophy tax
tropic bird
tropic of
tropic of Cancer
tropic of cancer
tropical aquarium
tropical bubo
tropical cycl
tropical cyclone
tropical fish
tropical heat
tropical medicine
tropical storm
tropical suit
tropical year
tropo-
trot along
trot out
troth ring
troth-contracted
troth-keeping
troth-plight
troth-telling	rotter cases	rotting race
trou madame
trou-de-coup
trou-de-loup
trout-perch
trowel bayonet
trowel-shaped
troy ounce
troy pound
troy weight
truant officer
truant school
true flag
true-hating
true-seeking
truck box
truck car
truck crop
truck driver
truck farm
truck farmer
truck farming
truck garden
truck gardener
truck gardening
truck horse
truck house
truck jobber
truck shot
truck system
truck tractor
truck trailer
truck house
truck shot
truckle bed
truckle to
truckle-bed
truckman's knot
trudgen crawl
trudgen stroke
true Christian
true air speed
true anomaly
true as gospel
true bearing
true being
true believer
true bill
true blue
true bug
true course
true faith
true fly
true fresco
true grit
true heading
true horizon
true inwardness
true jade
true laurel
true level
true lover's knot
true meaning
true north
true rib
true skin
true time
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
true-aimed
true-based
true-begotten
true-believing
true-blooded
true-blue
true-born
true-breasted
true-bred
true-dealing
true-derived
true-devoted
true-disposing
true-divining
true-eyed
true-false
true-false test
true-felt
true-grained
true-hearted
true-heartedness
trumpet flower
trumpet fly
trumpet forth
trumpet honey suckle
trumpet honeysuckle
trumpet hyphal
trumpet lily
trumpet major
trumpet marine
trumpet milkweed
trumpet narcissus
trumpet of doom
trumpet plant
trumpet reed
trumpet seaweed
trumpet shell
trumpet sound
trumpet tree
trumpet turning
trumpet vine
trumpet-blowing
trumpet-creeper family
trumpet-hung
trumpet-leaf
trumpet-leaves
trumpet-loud
trumpet-shaped
trumpet-toned
trumpet-tongued
trumpet-tree
trumpet-voiced
trumpeter fish
trumpeter muscle
trumpeter perch
trumpeter swan
trumpeter whiting
truncated pyramid
trundle bed
trundle-bed
trundle-tail
trunk breeches
trunk buoy
trunk cabin
trunk call
trunk curl
trunk deck
trunk dial
trunk engine
trunk hatch
trunk hatchway
trunk hose
trunk line
trunk piston
trunk road
trunk room
trunk scald
trunk steamer
trunk turtle
trunk whale
trunk-breeches
trunk-decked vessel
trunk-fish
trunk-hose
trunk-maker
trunnion band
trunnion carriage
trunnion chain
trunnion cradle
trunnion hoop
trunnion jig
trunnion plate
truss beam
truss bow
truss bridge
truss hoop
truss rod
truss up
truss-bound
truss-galled
truss-hoop
trussed beam
trussed joist
trussing bed
trussing machine
trust account
trust agreement
trust beneficiary
trust buster
trust busting
trust certificate
trust company
trust corporation
trust deed
trust fund
trust implicitly
trust in
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a sieve
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your darndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypanlavine neut
trypan blue
trypan red
try sail gaff
try sail mast
trysting day
trysting place
tsetchem leshalom
tsetse fly
tsetse fly disease
tsutsugamushi disease
tsutsugamushi mite
tu quoque
tu-chung
tu-chung bark
tu-whit
tu-whit tu-whoo
tu-whoo
tuan muda
tub boat
tub butter
tub chair
tub desk
tub drubber
tub front
tub maker
tub of lard
tub preacher
tub preaching
tub thumper
tub thumping
tub wheel
tub-brained
tub-coopering
tub-fast
tub-keeping
tub-preach
tub-preacher
tub-shaped
tub-size
tub-sized
tub-t
tub-thump
tub-thumper
tubal pregnancy	ube brazer
tube casts	ube coral	ube counter	ube culture	ube door	ube drawer	ube foot	ube generator	ube mill	ube of electric force	ube of force
tube plate
tube railway
tube saw
tube set
tube sheet
tube shutter
tube spinner
tube transmitter
tube weaver
tube well
tube worm
tube wrench
tube-bearing
tube-curing
tube-drawing
tube-drilling
tube-eye
tube-eyed
tube-eyes
tube-fed
tube-filling
tube-nosed
tube-rolling
tube-scrapping
tube-shaped
tube-straightening
tube-weaving
tubeless tire
tubeless tyre
tuber aster
tuber fern
tuber indexing
tuber moth
tuber root
tubercle bacillus
tubercul-
tuberculin test
tuberculo-
tuberculosis cutis
tuberculosis luposa
tuberculosis of the intestines
tuberculosis of the larynx
tuberculous arthritis
tuberculous meningitis
tuberculous rheumatism
tuberous root
tuberous-rooted	ubi-
tufted-necked
tug at the heart
tug at the heartstrings
tug chain
tug iron
tug of war
tug the heartstrings
tug-of-war
tug-of-warring
tula metal
tule chicken
tule goose
tule hen
tule mint
tule perch
tule potato
tule root
tule wren	ulema arrow-root
tulip bed
tulip blight
tulip ear
tulip fancier
tulip fire
tulip grower
tulip mold
tulip oak
tulip orchid
tulip poplar
tulip poppy
tulip root
tulip shell
tulip tree
tulip-eared
tulip-fancying
tulip-grass
tulip-growing
tulip-shaped
tulip-tree
tulip-wood	turn out	turn-ti-tum	turn-tum
tumble car
tumble cart	tumble drier	tumble for	tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-
tumble-down
tumbledown shack
tumbler bearing
tumbler cart
tumbler cup
tumbler drier
tumbler gear
tumbler gearing
tumbler pigeon
tumbler switch
tumbler-shaped
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly
tump-line
tumulus scab
tun of flesh
tun pail
tun shell
tun-bellied
tun-dish
tuna cheese
tuna clipper
tuna fish
tuna fish salad
tuna oil
tuna salad sandwich	
tune down
tune in
tune off
tune out
tune up
tune your lyre
tune-skilled
tune-up
tuned antenna
tuneful Nine
tuner-inner
tung oil
tung tree
tung-oil
tung-oil tree
tungsten lamp
tungsten ocher
tungsten steel
tungsten trioxide
tungstic acid	
tunic flower
tunica palmata	
tuning bar
tuning capacitor
tuning coil
tuning condenser
tuning cone	
tuning fork
tuning hammer
tuning hole	
tuning horn
tuning key
tuning lever
tuning peg
tuning pin
tuning pipe
tuning slide
tuning wrench	
tunking fit
tunna smjors
tunnel anemia
tunnel diode
tunnel disease
tunnel effect
tunnel head
tunnel kiln
tunnel miner
tunnel net
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped
tunny oil
tuno gum
tup lamb
tup-headed
tupelo gum
tupi-guarani
tupi-guaranian
tuppenny-hapenny
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog	urbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine	turbulent flow	turf accountant
turf ant
turf cake
turf hog
turf moss
turf out
turf webworm
turf-boring
turf-bound
turf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid
turf-roofed
turf-spread
turf-walled
turfing daisy
turgor pressure
turk's cap
turk's head
turkey beard
turkey berry
turkey bird
turkey blossom
turkey bur
turkey buzzard
turkey call
turkey carpet
turkey claw
turkey cock
turkey corn
turkey fig
turkey foot
turkey gnat
turkey gobbler
turkey grape
turkey grass
turkey hen
turkey louse
turkey mullein
turkey oak
turkey pea
turkey pod
turkey red
turkey shoot
turkey stone
turkey trot
turkey vulture
turkey-cock
turkey-feather
turkey-feather fucus
turkey-foot
turkey-hen
turkey-trot
turkey-trotted
turkey-trotting
turkey-worked
turkish bath
turkish coffee
turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turn-key job
turn-out
turn-over
turn-penny
turn-round
turn-server
turn-serving
turn-sick
turn-sickness
turn-table
turn-to
turn-tree
turn-under
turn-up
turned around
turned comma
turned on
turned period
turned-back
turned-down
turned-in
turned-off
turned-on
turned-out
turned-over
turned-up
turner hall
turner harp
turner hood
turner-off
turning arbor
turning around
turning away
turning back
turning backwards
turning basin
turning chisel
turning circle
turning down
tumip-leaved
tumip-pate
tumip-pointed
tumip-rooted
tumip-rooted celery
tumip-shaped
tumip-sick
tumip-stemmed
tumip-tailed
tumip-yielding
turnover door
turnover hinge
turnover tax
tumpike bond
tumpike geranium
tumpike man
tumpike road
turntable ladder
turnup bed
turnup card
turpentine beetle
turpentine camphor
turpentine gum
turpentine moth
turpentine oil
turpentine orchard
turpentine pine
turpentine plant
turpentine shrub
turpentine substitute
turpentine sunflower
turpentine tree
turpeth mineral
turquoise blue
turquoise green
turquoise-blue
turquoise-colored
turquoise-encrusted
turquoise-hued
turquoise-studded
turquoise-tinted	
turret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
turtle deck
turtle grass
turtle green
turtle heart
turtle peg
turtle pegger
turtle pegging
turtle plate
turtle shell
turtle soup
turtle stone
turtle-back
turtle-back shooting
turtle-billing
turtle-dove
turtle-footed
turtle-haunted
turtle-mouthed
turtle-neck
turtle-winged
turtleback scale
turtleneck sweater
tusk shell
tusk tenon
tussah silk
tussock grass
tussock moth
tussock sedge
tussock-grass	ut money	ut-mouthed	ut-tut	ut-tutted
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruitied
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o’clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-stared
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelvehynde man
twentieth man
twentieth-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eight
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fourmo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twenty-man
twenty-mark
twenty-mesh
twenty-meter
twenty-mile
twenty-minute
twenty-nigger
twenty-nine
twice-adapted
twice-adjourned
twice-adjusted
twice-admitted
twice-adopted
twice-affirmed
twice-agreed
twice-alarmed
twice-alleged
twice-allied
twice-altered
twice-amended
twice-angered
twice-announced
twice-answered
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bested
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-canceled
twice-canceled
twice-cancassed
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-condemned
twice-conferred
twice-confessed
twice-confirmed
twice-conquered
twice-consenting
twice-considered
twice-consulted
twice-contested
twice-continued
twice-converted
twice-convicted
twice-copyrighted
twice-corrected
twice-counted
twice-cowed
twice-created
twice-crowned
twice-cured
twice-damaged
twice-dared
twice-darned
twice-dead
twice-dealt
twice-debated
twice-deceived
twice-declined
twice-decorated
twice-decreed
twice-deducted
twice-defaulting
twice-defeated
twice-deferred
twice-defied
twice-delayed
twice-delivered
twice-demanded
twice-denied
twice-depleted
twice-deserted
twice-deserved
twice-destroyed
twice-detained
twice-diminished
twice-dipped
twice-directed
twice-disabled
twice-disappointed
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-disgraced
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubled
twice-doubted
twice-drafted
twice-drugged
twice-dyed
twice-earned
twice-effected
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted
twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-indulged
twice-infected
twice-injured
twice-insulted
twice-insured
twice-invented
twice-invited
twice-issued
twice-jailed
twice-judged
twice-kidnapped
twice-knighted
twice-laid
twice-lamented
twice-leagued
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liable
twice-listed
twice-loaned
twice-lost
twice-mad
twice-maintained
twice-marketed
twice-married
twice-mastered
twice-mated
twice-measured
twice-menaced
twice-mended
twice-mentioned
twice-merited
twice-met
twice-missed
twice-mistaken
twice-modified
twice-mortal
twice-mourned
twice-named
twice-necessitated
twice-needed
twice-negligent
twice-negotiated
twice-nominated
twice-noted
twice-notified
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted
twice-persuaded
twice-perused
twice-petitioned
twice-pinnate
twice-placed
twice-planned
twice-pleased
twice-pledged
twice-poisoned
twice-pondered
twice-posed
twice-postponed
twice-praised
twice-predicted
twice-preferred
twice-prepaid
twice-prepared
twice-prescribed
twice-presented
twice-preserved
twice-pretended
twice-prevailing
twice-prevented
twice-printed
twice-procured
twice-professed
twice-prohibited
twice-promised
twice-promoted
twice-proposed
twice-prosecuted
twice-protected
twice-proven
twice-provided
twice-provoked
twice-published
twice-punished
twice-pursued
twice-qualified
twice-questioned
twice-quoted
twice-raided
twice-re-elected
twice-read
twice-realized
twice-rebuilt
twice-recognized
twice-reconciled
twice-reconsidered
twice-recovered
twice-redeemed
twice-refined
twice-reformed
twice-refused
twice-regained
twice-regretted
twice-rehearsed
twice-reimbursed
twice-reinstated
twice-rejected
twice-released
twice-relieved
twice-remedied
twice-remembered
twice-remitted
twice-removed
twice-rendered
twice-rented
twice-repaired
twice-repeated
twice-replaced
twice-reported
twice-reprinted
twice-requested
twice-required
twice-reread
twice-resented
twice-resisted
twice-restored
twice-restrained
twice-resumed
twice-revenged
twice-reversed
twice-revised
twice-revived
twice-revolted
twice-rewritten
twice-rich
twice-right
twice-risen
twice-roasted
twice-robbed
twice-roused
twice-ruined
twice-sacked
twice-sacrificed
twice-said
twice-salvaged
twice-sampled
twice-sanctioned
twice-saved
twice-scared
twice-scattered
twice-subdued
twice-subjected
twice-subscribed
twice-substituted
twice-sued
twice-suffered
twice-sufficient
twice-suggested
twice-summoned
twice-suppressed
twice-surprised
twice-surrendered
twice-suspected
twice-suspended
twice-sustained
twice-sworn
twice-tabled
twice-taken
twice-tamed
twice-taped
twice-tardy
twice-taught
twice-tempted
twice-tendered
twice-terminated
twice-tested
twice-thanked
twice-thought
twice-threatened
twice-thrown
twice-tied
twice-told
twice-told tale
twice-torn
twice-touched
twice-trained
twice-transferred
twice-translated
twice-transported
twice-treated
twice-tricked
twice- tried
twice-trusted
twice-turned
twice-undertaken
twice- undone
twice-united
twice-unpaid
twice-upset
twice-used
twice-uttered
twice-vacant
twice-vamped
twice-varnished
twice-ventured
twice-verified
twice-vetoed
twice-victimized
twice-violated
twice-visited
twice-voted
twice-waged
twice-waived
twice-wanted
twice-warned
twice-wasted
twice-weaned
twice-welcomed
twice-whipped
twice-widowed
twice-wished
twice-withdrawn
twice-witnessed
twice-won
twice-worn
twice-wounded
twice-yielded
twiddle your thumbs
twiddle-twaddle
twiddling line	wig beetle
twig blight
twig borer	wig caterpillar
twig drop
twig gall	wig girdler	wig insect	twig pruner	twig rush	wig-formed	twig-green	wig-lined	wig-strewn	wig-suspended	wig-wrought
twilight arch
twilight blue
twilight home
twilight of the gods
twilight of your days
twilight parallel
twilight sleep
twilight state
twilight vision
twilight war
twilight zone
twilight-enfolded
twilight-hidden
twilight-hushed
twilight-loving
twilight-seeming
twilight-tinctured
twill weave
twill-woven	win band mill
twin bed
twin bill
twin boat
twin equatorial
twin mill
twin screws
twin ship
twin sister
twin sisterhood
twin spinnaker rig
twin stock
twin tail wheel
twin tap
twin telescope
twin town
twin triode
twin valve
twin-balled
twin-bearing
twin-begot
twin-blossomed
twin-born
twin-brother
twin-cylinder
twin-engine
twin-engined
twin-engines
twin-existent
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves
twin-lens
twin-lens camera
twin-lens reflex
twin-lens reflex camera
twin-light
twin-motor
twin-motored
twin-named
twin-peaked
twin-power
twin-prop
twin-roller
twin-screw
twin-set
twin-sister
twin-six
twin-spiked
twin-spired
twin-spot
twin-striped
twin-tailboom jet
twin-towered
twin-towned
twin-tractor
twin-wheeled
twin-wire
twine around
twine binder
twine braider
twine cutter
twine holder
twine polisher
twine reeler
twine spinner
twine-binding
twine-bound
twine-colored
twine-spinning
twine-toned
twine-twisting
twinge of conscience
twingle-twangle
twinkle of an eye
twinkling of an eye
twinning axis
twinning law
twinning machine
twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail
twisty-wisty	wit-twat	witch grass	witch of conscience	witch road
twite finch	witter-twatter
twittle-twattle	wizzle-twig	wo bits	wo cents	wo dozen	wo estates	wo fifths	wo hundred	wo leg	wo o'clock
two of a kind
two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half striper
two-angle
two-arched
two-armed
two-aspect
two-barred
two-barreled
two-base
two-base hit
two-beat
two-bedded
two-bid
two-bill
two-bit
two-bit politician
two-blade
two-bladed
two-block
two-blocks
two-bodied
two-bodies
two-bodies problem
two-bond
two-bottle
two-bottom plow
two-branched
two-bristled
two-bushel
two-by-four
two-capsuled
two-celled
two-cent
two-centered
two-chamber
two-fingered
two-fisted
two-fisted man
two-floor
two-flowered
two-fluid
two-fold
two-foot
two-foot octave
two-footed
two-for-a-cent
two-for-a-penny
two-forked
two-formed
two-four
two-four time
two-gallon
two-grained
two-groove
two-grooved
two-guinea
two-gun
two-hand
two-handed
two-handed saw
two-handedly
two-handedness
two-handled
two-headed
two-high
two-hinged
two-horned
two-horse
two-horsepower
two-hour
two-humped
two-inch
two-leaf
two-leaved
two-legged
two-level
two-life
two-light
two-line
two-line octave
two-lined
two-lipped
two-lobed
two-lunged
two-man
two-man tent
two-mast
two-masted
two-master
two-membered
two-mile
two-minded
two-minute
two-minute gun
two-monthly
two-name
two-name paper
two-named
two-necked
two-needled
two-nerved
two-oar
two-oared
two-ounce
two-pair
two-part
two-part harmony
two-part time
two-parted
two-party
two-party system
two-pass
two-peaked
two-petaled
two-phase
two-phaser
two-piece
two-piece bow
two-piece suit
two-pile
two-piled
two-pin escapement
two-pipe
two-place
two-platoon
two-platoon system
two-plowed
two-ply
two-point
two-point landing
two-pointic
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-seated
two-seater
two-seeded
two-shafted
two-shanked
two-shaped
two-sheave
two-shilling
two-shillingly
two-shillingness
two-shot
two-sided
two-sidedness
two-soused
two-speed
two-spined
two-spored
two-spot
two-spotted
two-stage rocket
two-stall
two-stalled
two-star
two-star general
two-step
two-step rocket
two-stepped
two-stepping
two-sticker
two-storied
two-story
two-stream
two-stringed
two-striped
two-striper
two-stroke
two-stroke cycle engine
two-stroke-cycle
two-suit
two-suiter
two-syllable
two-tailed test
two-teeth
two-thirder
two-thirds
two-three
two-throw
two-time
two-time loser
two-timed
two-timer
two-timing
two-tined
two-toed
two-toed anteater
two-tone
two-toned
two-tongued
two-toothed
two-topped
two-topsail schooner
two-track
two-tusked
two-twisted
two-unit
two-up
two-valved
two-volume
two-way
two-way communication
two-way radio
two-wheel
two-wheeled
two-wheeler
two-wicked
two-winged
two-winged fly
two-woods
two-word
two-year
two-year college
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
ty ing up
tylos
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
ty pe block
ty pe body
ty pe cabinet
ty pe case
ty pe caster
type characteristic
ty pe class
ty pe cutter
ty pe cutting
ty pe face
ty pe founder
ty pe founding
ty pe foundry
ty pe gauge
ty pe genus
ty pe lice
ty pe locality
ty pe matter
ty pe measure
ty pe metal
ty pe mold
ty pe object
ty pe page
ty pe part
ty pe plate
ty pe rack
ty pe shank
ty pe size
typhoid bacillus
typhoid carrier
typhoid fever
typhoid spine
typhus fever
typical case
typical example
typical man
typing machine
typing paper
typist's error
typo-
typographical error
tyranize over
tyrranny of the majority
tyrant bird
tyrant flycatcher
tyrant sparing none
ntyrant wren
tyrant-bought
tyrant-hating
tyrant-quelling
tyrant-ridden
tyrant-scourging
 tyrant purple
 tyrolean hat
 tyrolite green
 tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ugly as sin
ugly as the wrath of God
ugly customer
ugly duckling
ugly person
ugly thing
ugly wind
ugly-clouded
ugly-conditioned
ugly-eyed
ugly-faced
ugly-headed
ugly-looking
ugly-omened
ugly-tempered
ugly-visaged
uh-huh
ujamaa village
uji fly
ukiyo-e
ulcer diet
ulcerative colitis
ule tree
ulla grass
ullage rocket
ulnar nerve
ulnocondylar foramen
ulterior motive
ultima Thule
ultima ratio
ultima ratio regum
ultima thule
ultimate aim
ultimate analysis
ultimate cause
ultimate concern
ultimate constituent
ultimate load
ultimate purpose
ultimate strength
ultimate stress
ultimate truth
ultra vires
ultra-
 ultra-Protestantism
 ultra-abolitionism
 ultra-abstract
 ultra-academic
 ultra-affected
 ultra-aggressive
 ultra-ambitious
 ultra-angelic
 ultra-apologetic
 ultra-arbitrary
 ultra-argumentative
 ultra-atomic
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbro-
umbu-rana
umpire assay
un w
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christianise
un-Christianised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christianly
un-Christliness
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-american
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-ableness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-ableness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
unable to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaided eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
unco guid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
under the impression
under the influence
under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
under the shadow of your wing
under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
under-estimate
under-frame
under-garment
under-glaze
under-jaw
under-king
under-mentioned
under-petticoat
under-round
under-runner
under-secretary
under-sized
under-skirt
under-steward
under-surface
under-the-counter
under-the-table
under-time
under-treasurer
undercover activity
undercover man
undercurrent relay
underdeck tonnage
underdeveloped nation
underfrequency relay
undergo a change
undergo an eclipse
undergo deprivation
undergo privation
undergo schooling
undergo treatment
underground activity
underground cable
underground fighter
underground film
underground literature
underground movie
underground railroad
underground railway
underground river
underground route
underground trolley
underground warfare
underhand bundler
underhand dealing
underhand stope
underheat brooder
underhung rudder
underload starter
underload switch
underlying level
underlying meaning
underlying reason
underlying structure
undermine your faith
undermine your reason
underpitch vault
underpower relay
underprivileged, the
undershot wheel
understand by
understand one another
understudy for
undertake operations
undertaker's establishment
undervaluing of self
underwater archaeologist
underwater archaeology
underwater craft
undesirable discharge
undesirable person
undigested securities
undistributed costs
undistributed middle
undivided attention
undivided profits
undreamed-of
undress uniform
undue excitability
undue liberty
undulant fever
undulatory theory
unduly neglected
undying fame
undying friendship
unearned income
unearned increment
uneducated speech
unemployed, the
unemployment benefit
unemployment compensation
unemployment insurance
unequal to
unequal treatment
unequal-lengthed
unequal-limbed
unequal-lobed
unequal-sided
unequal-tempered
unequal-valved
uneven-aged
uneven-carriaged
uneven-handed
uneven-numbered
uneven-priced
uneven-roofed
unexcused absence
unexempt from
unexpended balance
unexplored ground
unexplored territory
unfair competition
unfair discrimination
unfair list
unfair practice
unfairly neglected
unfallen state
unfamiliar with
unfathomed deeps
unfavorable balance of payments
unfavorable wind
unfeel mg
unfinished worsted
unfit for human consumption
unfit to live in
unfold a tale
unforeseen attack
unforgivable sin
unfortunate time
unfortunate woman
unfrozen hydrometeor
unfulfilled pledge
unfunded debt
unfurl a banner
unfurl a flag
unfurl an ensign
unfurl sail
unfurnished uninhabited
unget-at-able
ungka puti
ungrateful wretch
ungreenable black
unh-unh
unhappy about
unhappy lot
unhappy-eyed
unhappy-faced
unhappy-happy
unhappy-looking
unhappy-seeming
unhappy-witted
unharmonious relationship
unheard-of
unholy dread
unholy joy
unholy mess
unhoped for
unhoped-for
uni-
uni-univalent
unicameral legislature
unicellular animal
unicorn antelope
unicorn beetle
unicorn bird
unicorn fish
unicorn hawk moth
unicorn moth
unicorn plant
unicorn ram
unicorn root
unicorn shell
unicorn whale
unicorn-plant family
unidentified flying object
unidirectional current
unidirectional microphone
unidirectional signal
unified atomic mass unit
unified field theory
unified theory
uniflow engine
uniform convergence
uniform velocity
uniform with
uniform-proof
uniformly continuous function
unilateral trade
unimportant person
uninhabited region
uninitiated in
uninterrupted course
uninterrupted sequence
unintoxicicated state
uninvited guest
unio-
union black
union blue
union bow
union card
union catalog
union catalogue
union color
union contract
union cord
union district
union down
union dye
union elbow
union flag
union grass
union house
union jack
union jet burner
union joint
union label
union language
union list
union local
union member
union nut
union officer
union orange
union organizer
union pipes
union school
union shop
union station
union suit
union tannage
union tee
union territory
union-made
unipolar transistor
unique factorization domain
unique factorization theorem
uniqueness theorem
unisex clothing
unison interval
unissued capital stock
unit banking
unit carrier
unit cell
unit character
unit cost
unit element
unit factor
unit fraction
unit insignia
unit investment trust
unit line
unit lock
unit magnetic pole
unit matrix
unit of account
unit of being
unit of energy
unit of flux
unit of force
unit of light
unit of meaning
unit of measurement
unit of weight
unit operation
unit organ
unit plane
unit point
unit price
unit pricing
unit prism
unit process
unit pyramid
unit quantity
unit rule
unit stress
unit switch
unit tare
unit trust
unit vector
unit watermark
unit's place
unit-set
unitary government
unitary matrix
unite efforts
unite in
unite in holy wedlock
unite in marriage
unite in sexual intercourse
unite with
united action
united front
united nations day
united states
unitive life
units of force
units of mass
units of weight
unity of interest
unity stress
univalent chromosome
univalent vaccine
universal accord
universal affirmative
universal agreement
universal algebra
universal antenna
universal church
universal class
universal concept
universal conception
universal coupling
universal donor
universal ego
universal essence
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
universal stage
universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
universally admitted
universally recognized
universe of discourse
universe vine
university college
university extension
university settlement
university-bred
university-conferred
university-going
university-sponsored
university-taught
university-trained
unjust legal disability
unjust representation
unknown depths
unknown quantity
unknown soldier
unknown, the
unlapsed state
unlawful assembly
unlawful entry
unlearned capacity
unleash destruction
unleash the hurricane
unleavened bread
unless that
unlicked cub
unlisted securities
unlonged-for
unlooked for
unlooked-for
unlucky day
unlucky hour
unlucky person
unmade-up
unmanned satellite
unmarried person
unmeasured in your praise
unmediated perception
unmindful of
unmistakable sign
unmoth-eaten
unmoved mover
unnarrow-minded
unnarrow-mindedly
unnarrow-mindedness
unnecessary repetition
unnumbered bank account
uno saltu
unobstructed vision
unofficial wife
unorganized data
unorganized ferment
unorganized matter
unpaid accounts
unpaid-for
unpaid-letter
unpaid-letter stamp
unpardonable sin
unparliamentary language
unpath'd waters
unplanned t
unpleasant taste
unpolished rice
unpossessed of
unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
unrefined flour
unrefined mineral
unregistered bank account
unregistered securities
unrelenting attention
unrepeatable expressions
unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
unself-assertive
unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
unself-righteously
unself-righteousness
unself-sacrificial
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheathe your weapon
unsighed-for
unskilled in
unskilled labor
unskilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unsparing of self
unspoken accusation
unspoken consent
unstable as water
unsteady market
unstopper your ears
unsuccessful person
unsuitable time
unsupported by evidence
unsure of yourself
unswerving attention
unsymmetrical loading
untalked-of
unthinking response
unthought-of
unthought-on
unthought-out
untie the knot
untie the purse strings
untie your hands
until now
until the conclusion of
until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
untouched by evil
untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
unversed in
unwanted person
unwarranted demand
unwed condition
unwed state
unwedded to an opinion
unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwished disclosure
unworm-eaten
unworthy of belief
unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
up a stump
up a tree
up against
up against it
up ahead
up and about
up and around
up and at ‘em
up and coming
up and die
up and do
up and doing
up and down
up and go
up attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up on
up on end
up quark
up right
up steps
up the creek
up the river
up the spout
up the wind
up till
up to
up to date
up to expectation
up to grade
up to now
up to par
up to scratch
up to snuff
up to standard
up to the ears
up to the elbows
up to the eyes
up to the hilt
up to the mark
up to the minute
up to the notch
up to the present
up to the time of
up to this time
up to your ears
up to your ears in
up to your ears in debt
up to your elbows
up to your elbows in
up to your neck in
up town
up your alley
up your pay
up your sleeve
up your street
up-
up-a-daisy
up-anchor
up-and
up-and-coming
up-and-comingness
up-and-doing
up-and-down
up-and-down dial
up-and-down indicator
up-and-downish
up-and-downishness
up-and-downness
up-and-downy
up-and-over
up-and-under
up-and-up
up-bow
up-bow sign
up-chuck
up-country
up-end
up-grade
up-market
up-over
up-page
up-patient
up-put
up-putting
up-see-daisy
up-sky
up-stream
up-stroke
up-to-date
up-to-dately
up-to-dateness
up-to-datish
up-to-datishness
up-to-the-minute
up-trending
up-wind
upas tree
upfeed system
uphill going
uphill work
upholsterer bee
upholsterer's needle
upland cotton
upland hickory
upland plover
uplift brassiere
upmost height
upon condition that
upon even terms
upon oath
upon pain of
upon presentation
upon shares
upon sight
upon something
upon the heels of
upon the hip
upon the point of
upon the whole
upon this bank and shoal of time
upon trust
upon which
upon your hands
upon your honor
upper air
upper arm
upper atmosphere
upper berth
upper bo
upper bound
upper bracket
upper case
upper chamber
upper circles
upper class
upper classes
upper classman
upper crust
upper cut
upper deck
upper extremity
upper frequencies
upper hand
upper house
upper leather
upper limit
upper middle class
upper mordent
upper partial tone
upper regions
upper school
upper semicontinuous function
upper side
upper spanker
upper story
upper ten
upper ten thousand
upper works
upper-case
upper-cased
upper-casing
upper-circle
upper-class
upper-cruster
upper-form
upper-grade
upper-school
uppermost height
uppers and lowers
upright drill
upright piano
upright shave
upright-growing
upright-grown
upright-hearted
upright-heartedness
upright-minded
upright-standing
upright-walking
ups and downs
ups and downs of life
upset one's applecart
upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
upside down
upside downward
upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
upsilon particle
upstairs and downstairs
upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
upward looking
upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
ur-
ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
urano-
uranosoruranic oxide
uratic arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
uretero-
uretero-ureterostomy
uretero-uterine
urethr-
urethral arthritis
urethral fever
urethro-
ureylene group
ureylene radical
urge along
urge as a motive
urge on
urge on the mind
urge reasons for
urge upon
urgent need
uric acid
uric-acid
urim and thummim
urin-
urinal fever
urinalysis kit
urinary bladder
urinary calculus
urine analysis
uriniferous tubule
urino-
urinogenital disease
urinogenital ridge
urinogenital sinus
urn burial
urn field
urn moss
urn schemata
urn-buried
urn-cornered
urn-enclosing
urn-shaped
urn-topped
uro-
urogenital disease
urogenital system
urological surgery
uropygial gland
urradhus law
ursa major
ursa minor
ursine dasyure
ursine howler
urucu-rana
urucuri iba
usar grass
usara root
use a light hand
use a light rein
use advisedly
use an experimental sample
use as a doormat
use as a meal ticket
use badly
use district
use faulty grammar
use for your own ends
use force
use force upon
use hindsight
use ill
use inadmissible grammar
use inappropriate grammar
use informal speech
use informal style
use inheritance
use language
use loosely
use materials
use money
use of words
use one's head
use radar
use reason
use tax
use terror tactics
use terroristic tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
use-money
used to
used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
usher in
usher into the world
usher-in
using up
using-ground
usque ad aras
usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut supra
uterine brother
uterine kin
uterine sister
uterine-
uti possidetis
utile dulci
utility man
utility plane
utility player
utility pole
utility room
utility sash
utmost extent
utmost height
uto-aztecan
utopian socialism
utopian socialist
utter a caveat
utter a judgment
utter a mot
utter bar
utter barrister
utter darkness
utter defeat
utter rout
utter threats against
utterance string
utterly attentive
utterly detest
uva grass
uva-ursi
uvi yam
uviol glass
uviol lamp
uzara root
v aux
v sign
v-day
v-eight
v-engine
v-particle
vCechy
vCeskd
vCeskoslovensko
va' via
va-et-vien
va-t'-en
vacancy clause
vacant possession
vacant post
vacant-brained
vacant-eyed
vacant-headed
vacant-looking
vacant-minded
vacant-mindedness
vacant-seeming
vacation barrister
vacation church school
vacation school
vaccinal fever
vaccine lymph
vaccine point
vaccine rash
vaccine therapy
vaccino-syphilis
vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
vacuum-tube hearing aid
vacuum-tube voltmeter
vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vae victis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
vale of years
value-added tax
valued at
valued policy
valued-policy law
valval view
valve body
valve box
valve cage
valve cap
valve casing
valve casting
valve chamber
valve chest
valve control
valve coupling
valve cup
valve diagram
valve ellipse
valve file
valve filter
valve fitting
valve gear
valve generator
valve grinder
valve handle
valve housing
valve indicator
valve key
valve line
valve motion
valve plate
valve ring
valve rod
valve seat
valve spring
valve stem
valve tool
valve travel
valve trombone
valve trumpet
valve view
valve washer
valve wrench
valve-grinding
valve-in-head engine
valve-shaped
valvular incompetence
valvular insufficiency
vamp up
vampire bat
van Eyck
van Gogh
van Ruisdael
van attendant
van boy
van builder
van de graaff generator
van der Rohe
van der Waals equation
van der Waals forces
van der Waals' forces
van der Weyden
van driver
van load
van loader
van owner
van't Hoff
van-courier
van-foss
van-john
van-winged hawk
vanadic acid
vanadium bronze
vanadium family
vanadium oxide
vanadium steel
vanadous oxide
vandyke brown
vanilla bean
vanilla chica
vanilla extract
vanilla grass
vanilla leaf
vanilla plant
vanilla pudding
vanille ice
vanillyl alcohol
vanish from sight
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
vanity-proof
vant-
vantage game
vantage ground
vantage point
vantage post
vantage-ground
vapor bath
vapor bathing
vapor burner
vapor cabinet
vapor cloud
vapor condenser
vapor density
vapor engine
vapor heating
vapor inhaler
vapor jacket
vapor lamp
vapor lock
vapor plane
vapor pressure
vapor regulator
vapor stove
vapor tension
vapor trail
vapor treatment
vapor tube
vapor valve
vapor volume
vapor-belted
vapor-braided
vapor-burdened
vapor-claunched
vapor-filled
vapor-headed
vapor-producing
vapor-sandaled
vaporer moth
vapour density
vapour lock
vapour pressure
vapour trail
vapour-bath
vare widgeon
vari-
vari-coloured
varia lectio
variable annuity
variable capacitor
variable condenser
variable cost
variable density system
variable error
variable field
variable star
variable time fuze
variable-mu tube
variable-reluctance microphone
variable-speed gear
variable-speed motor
variable-time fuse
variae lectiones
variance analysis
variant reading
variation chart
variation compass
variation factor
variation of parameters
variation range
varico-
varicose aneurysm
varicose vein
varicose veins
varied robin
varied thrush
variegated pattern
variegated-leaved
variety hybrid
variety meat
variety shop
variety show
variety store
varifocal lens
vario-
variola porcina
various-blossomed
various-colored
various-formed
various-leaved
variscite green
varix lymphaticus
varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
varnish resins
varnish sumac
varnish thinner
varnish tree
varnish-drying
varnish-making
varnish-treated
varnish-treating
varnishing day
varsity socks
varsity student
varve-count
varying duty
varying hare
varying-speed motor
vas deferens
vas-
vasa deferentia
vasa murrhina
vasa parrot
vascular bundle
vascular cylinder
vascular hemophilia
vascular plant
vascular ray
vascular tissue
vase clock
vase painter
vase painting
vase rug
vase-shaped
vase-vine
vaso-
vaso-motor
vassal state
vast knowledge
vast-dimensioned
vast-rolling
vast-skirted
vastus intermedius
vastus lateralis
vastus medialis
vat builder
vat color
vat dye
vat keeper
vat liquor
vat setter
vat waste
vat-dyed
vat-net
vates sacer
vau consecutive
vau conversive
vaudeville circuit
vaudeville show
vaudeville theater
vault light
vault mount
vault of heaven
vault rib
vault up
vaulting ambition
vaulting capital
vaulting cell
vaulting course
vaulting horse
vaulting pillar
vaulting shaft
vaulting shoe
vaulting tile
vaunt-
vaunt-courier
vaya con Dios
veal Parmigiana
veal bird
veal calf
veal chop
veal cutlet
veal scallopini
vector addition
vector algebra
vector analysis
vector area
vector field
vegetable oyster
vegetable parchment
vegetable pathology
vegetable physiology
vegetable plate
vegetable red
vegetable remedies
vegetable resins
vegetable satyr
vegetable sheep
vegetable silk
vegetable soup
vegetable spermaceti
vegetable sponge
vegetable stock
vegetable store
vegetable tallow
vegetable tanning
vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
vegetation daemon
vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
vegeto-
vehement action
vehicle tank
vehicular tunnel
veil of secrecy
veil-hid
veil-wearing
veiled accusation
veiled in darkness
veiled threat
veiled voice
vein claim
vein dike
vein islet
vein quartz
vein-bearing
vein-healing
vein-mining
vein-streaked
veining tool
velar-pharyngeal
veld cornet
veld sickness
veld sore
veld-
veld-kost
velic point
velleda moth
vellum binder
vellum binding
vellum cloth
vellum form
vellum paper
vellum-bound
vellum-covered
vellum-leaved
vellum-papered
vellum-written
velocity co-ordinate
velocity function
velocity head
velocity microphone
velocity modulation
velocity of circulation
velocity of money
velocity peak
velocity potential
velocity ratio
velocity screen
velocity stage
velt-marshmal
velvet ant
velvet ash
velvet bean
velvet bent
velvet bur
velvet cap
velvet carpet
velvet cork
velvet darkness
velvet dock
velvet duck
velvet finish
velvet fish
velvet flower
velvet glove
velvet grass
velvet green
velvet groundsel
velvet head
velvet leaf
velvet leather jacket
velvet moss
velvet osier
velvet paper
velvet plant
velvet rug
velvet runner
velvet scoter
velvet sponge
velvet stout
velvet tree
velvet violet
velvet-banded
velvet-bearded
velvet-black
velvet-caped
velvet-clad
velvet-leaved
velvet-pile
velvet-suited
ven-
vena cava
vena contracta
venae contractae
vending machine
veneer grafting
veneer moth
venerable sir
venerable-looking
venereal appetite
venereal desire
venereal disease
venetian blind
venetian blind reflector
venetian glass
venetian red
venga lo que venga
vengeance-crying
vengeance-prompting
vengeance-sated
vengeance-scathed
vengeance-seeking
vengeance-taking
ventral fin
ventral radome
ventri-
ventricular fibrillation
ventro-
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr-
veratric acid
verb complex
verb phrase
verb sap
verbal adjective
verbal agreement
verbal amnesia
verbal auxiliary
verbal contest
verbal diarrhea
verbal engagement
verbal fallacy
verbal intercourse
verbal noun
verbal response
verbal thrust
verbal translation
verbatim et litteratim
verbena family
verbena oil
verbena violet
verbum sap
verbum sapienti
verbum sat
verd antique
verd gay
verd russe
verd-antique
verdant green
verde antico
verde antique
verdict of acquittal
verdict of guilty
verdict of not guilty
verdigris green
verditer blue
verditer green
verge escapement
verge on
verge paper
verge upon
verge watch
verge-board
verging on
verging upon
vermeil-cheeked
vermeil-dyed
vermeil-rimmed
vermeil-tinctured
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
vermin-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermouth cassis
vernacular language
vernacular speech
vernal equinox
vernal grass
vernal point
vernal-bearded
vernal-blooming
vernal-flowering
vernal-seeming
vernal-tinctured
verner's law
vernier caliper
vernier dial
vernier engine
vernier micrometer
vernier rocket
vernier scale
vernier telescope
vernix Martin
vernix caseosa
vernonia purple
verruc-
vers de societe
vers de societ
vers libre
vers librist
vers libriste
vers-librist
versatile digit computer
verse anthem
verse service
verse-colored
verse-commemorated
verse-prose
verse-writing
versed cosine
versed in
versed sine
version book
vert russe
vertebral arthritis
vertebral column
vertebro-
vertical amplifier
vertical angle
vertical angles
vertical circle
vertical combination
vertical combinationalness
vertical deflector
vertical distance
vertical engine
vertical envelopment
vertical file
vertical fin
vertical fire
vertical grouping
vertical height
vertical integration
vertical interference
vertical lift bridge
vertical mobility
vertical overlap
vertical radiator antenna
vertical rays
vertical saw
vertical stabilizer
vertical synchronizer
vertical synchronizing pulse
vertical union
vertical-grained
vertical-lift mower
vervain family
vervain hummingbird
vervain mallow
vervain sage
vervain thoroughwort
very beginning
very best
very good
very high frequency
very image
very important person
very light
very like
very likely
very low frequency
very many
very model
very much
very much alive
very picture
very pistol
very reverend
very same
very seldom
very thing
very top
very truth
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-ureteral
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vicar apostolic
vicar capitular
vicar choral
vicar forane
vicar general
vicar of christ
vicar-choralship
vicar-general
vicar-generalship
vicarage tithe
vicariate apostolic
vicariates apostolic
vicarious authority
vicars capitular
vicars choral
vicars forane
vicars-general
vice admiral
vice chancellor
vice presidency
vice president
vice squad
vice versa
vice-
vice-abbot
vice-admiral
vice-admirality
vice-admiralship
vice-admiralty
vice-admiralty court
vice-agent
vice-apostle
vice-apostolical
vice-marshaled
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidentship
vice-priest
vice-principal
vice-principalship
vice-priory
vice-prone
vice-protector
vice-provost
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenery
vice-wardenship
vice-worn
viceregal assent
vichy water
vicious circle
vicious reasoning
vicissitudes of fortune
vicontiel rent
vicontiel writ
victoria cross
victoria plum
victory garden
victory girl
victory medal
victual rent
victualing bill
victualing house
victualing note
victualing office
victualing ship
victualing station
victualing yard
vida finch
vide ante
vide infra
vide post
vide supra
vide ut supra
video amplifier
video channel
video detector
video frequency
video game
video monitor
video signal
video static
video tape
video tape recorder
video transmitter
video truck
video-gazer
videotape recorder
vie against
vie for
vie with
vienna sausage
view angle
view as
view camera
view finder
view halloa
view halloo
view in a new light
view in all its phases
view mark
view together
view with a jaundiced eye
view with a scornful eye
view with disfavor
view with favor
view with indulgence
view with the mind's eye
view-halloo
view-point
viewing audience
vigesimo-quarto
vigesimo-quartos
vigil light
vigilance committee
vigilance man
vigogne yarn
vile language
vile-born
vile-bred
vile-concluded
vile-fashioned
vile-looking
vile-natured
vile-proportioned
vile-smelling
vile-spirited
vile-spoken
vile-tasting
villa-dotted
villa-dwelling
villa-haunted
village cart
village college
village community
village economy
village green
village of the dead
village reserve
village soviet
village-born
village-dwelling
village-lit
villain d
villainous-looking
villainy-proof
villanous saltpetre
villein socage
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-
vin-jaune
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimoni
vindicate a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
ground worm
ground-faced
ground-flavored
ground-generating
ground-hearted
ground-tart
groundyard plow
vingt-et-un
vinho verde
vini-
vino de pasto
vino-
vins ordinaires
vintage car
vintage wine
vintage year
vinyl acetate
vinyl alcohol
vinyl chloride
vinyl ether
vinyl group
vinyl plastic
vinyl polymer
vinyl radical
vinyl resin
vinylidene chloride
vinylidene group
vinylidene radical
vinylidene resin
viol block
viol d'amore
viol d'orchestre
viol da braccio
viol da gamba
viol da spalla
viol di bordone
viol di fagotto
viol family
viola alta
viola bastarda
viola clef
viola d'amore
viola d'amores
viola da braccio
viola da braccios
viola da gamba
viola da gambas
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringed
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curved
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue-tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
vis comica
vis inertiae
vis major
vis mortua
vis vitae
vis vitalis
vis viva
vis-a-ns
vis-a-vis
vis-a-visness
viscera itch
visceral leishmaniasis
visceral rheumatism
viscero-
vise cap
vise chuck
vise coupling
visibility curve
visibility meter
visibility unlimited
visibility zero
visible balance
visible horizon
visible radiation
visible spectrum
visible speech
visible-speech data
vision-directed
vision-filled
vision-haunted
vision-seeing
vision-struck
visit at
visit upon
visit with
visitations of providence
visiting book
visiting card
visiting day
visiting fireman
visiting list
visiting nurse
visiting patrol
visiting professor
visiting teacher
visiting ticket
visitor-general
vista of time
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitamin B
vitamin B complex
vitamin B1
vitamin B12
vitamin B2
vitamin B6
vitamin Bc
vitamin C
vitamin D
vitamin D2
vitamin D3
vitamin E
vitamin G
vitamin H
vitamin K
vitamin K1
vitamin K2
vitamin K3
vitamin M
vitamin P
vitamin a
vitamin b
vitamin b12
vitamin b2
vitamin b6
vitamin c
vitamin chart
vitamin complex
vitamin d
vitamin deficiency
vitamin e
vitamin g
vitamin h
vitamin k
vitamin p
vitamin shot
vitamin-deficiency diet
vitamin-free
vitelline membrane
vitello-
vitello-intestinal
viti-
vitreous body
vitreous china
vitreous copper
vitreous electricity
vitreous enamel
vitreous fusion
vitreous humor
vitreous humour
vitreous selenium
vitreous silica
vitreous silver
vitreous sponge
vitreous table
vitrified fort
vitriol chamber
vitriol stone
vitriolated tartar
vitriolized bone
vitro-
vitro-clarain
vitro-di-trina
vitular apoplexy
viva voce
viva voce examination
viva-voce
vivaciousness vivacity
vivacity of imagination
vive l'amour
vive la bagatelle
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix clesete
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
volt-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliammeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltameter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
volute spring
volutin granule
vomerine cartilage
vomic nut
vomit forth
vomit nut
vomit out
vomiting center
vomiting gas
vomito negro
von Braun
von Neumann
von Sternberg
vortex atom
vortex filament
vortex fringe
vortex line
vortex plate
vortex ring
vortex sheet
vortex theory
vortex tube
vortex wheel
vortical motion
rotary candle
vote affirmatively
vote against
vote aye
vote checking
vote counter
vote down
vote for
vote in
vote in the negative
vote nay
vote negatively
vote-bringing
vote-buying
vote-casting
vote-catching
voter-preference survey
voting age
voting bond
voting booth
voting machine
voting paper
voting right
voting stock
voting trust
voting-right certificate
votive candle
votive mass
votive medal
votive offering
votive office
vouch for
vouched for
voucher check
voucher register
voucher system
vouchers payable
voussoir-shaped
vow-bound
vow-breaking
vow-keeping
vow-pledged
vowel flame
vowel gradation
vowel harmony
vowel mutation
vowel point
vowel quantity
vowel rhyme
vowel system
vows of poverty
vox angelica
vox barbara
vox caelestis
vox et praeterea nihil
vox humana
vox pop
vox populi
vox populi vox Dei
voyage policy
vrai reseau
vt fuze
vulcanite grinding wheel
vulcanite pavement
vulcanized fiber
vulcanized rubber
vulgar era
vulgar establishment
vulgar fellow
vulgar fraction
vulgar language
vulgar latin
vulgar person
vulgar purgation
vulgar substitution
vulgar taste
vulgar tongue
vulnerable place
vulnerable point
vulnerable to
vulnerant omnes ultima necat
vulpine opossum
vulture hock
vulture raven
vulture-beaked
vulture-gnawn
vulture-hocked
vulture-rent
vulture-torn
vulture-tortured
vulture-winged
vulturine eagle
vulturine guinea fowl
vulturine sea eagle
vulvo-
w will
wabble saw
waberan-leaf
wabert-leaf
wad hook
wad up
wade an
wade in
wade into
wade knee-deep in blood
wade through
wading bird
wading pool
wadmel wadmol
wafer ash
wafer bread
wafer cake
wafer capsule
wafer cutter
wafer iron
wafer paper
wafer sheet
wafer stamp
wafer tong
wafer-sealed
wafer-thin
wafer-torn
waffle cloth
waffle ingot
waffle iron
waft on the ear
wag the tongue
wag-on-the-wall
wag-tongue
wage board
wage capital
wage contract
wage control
wage earner
wage earning
wage fixing
wage freeze
wage fund
wage labor
wage level
wage paying
wage peace
wage rate
wage reduction
wage rollback
wage scale
wage slave
wage slavery
wage system
wage war
wage-fund theory
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
waggon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
wagon ceiling
wagon filler
wagon greaser
wagon gun
wagon hammer
wagon jobber
wagon lock
wagon master
wagon road
wagon roof
wagon seat
wagon shed
wagon shoe
wagon soldier
wagon table
wagon tent
wagon tongue
wagon top
wagon track
wagon trail
wagon train
wagon tree
wagon truck
wagon vault
wagon wheel
wagon yard
wagon-headed
wagon-lit
wagon-roofed
wagon-shaped
wagon-spring clock
wagon-vaulted
wagtail flycatcher
waifs and strays
waika chewstick
wail of woe
wailing wall
wainscot chair
wainscot oak
wainscot-faced
wainscot-joined
wainscot-paneled
waist anchor
waist belt
waist board
waist boat
waist boater
waist gun blister
waist strap
waist tree
waist-deep
waist-high
waist-pressing
waist-slip
wait a minute
wait a second
wait and see
wait and see policy
wait fee
wait for
wait for something to turn up
wait impatiently
wait it out
wait on
wait on hand and foot
wait out the market
wait service
wait table
wait to see how the cat jumps
wait to see how the wind blows
wait up
wait up for
wait upon
wait with bated breath
wait-a-bit
wait-awhile
waiter on Providence
waiter-on
waiting concealed
waiting for
waiting game
waiting it out
waiting list
waiting maid
waiting man
waiting period
waiting room
walk-through
walk-up
walker-on
walkie-lookie
walkie-talkie
walking bass
walking beam
walking boat
walking crane
walking dead man
walking delegate
walking encyclopedia
walking engine
walking excursion
walking fern
walking fish
walking gentleman
walking lady
walking leaf
walking line
walking mort
walking papers
walking part
walking phalus
walking pipe
walking plow
walking scow
walking skeleton
walking staff
walking stick
walking straw
walking sword
walking toad
walking tour
walking twig
walking tyrant
walking wheel
walking-out
walking-stick
walking-stick palm
walking-sticked
walky-talkies
walky-talky
wall anchor
wall arcade
wall barley
wall bars
wall bearing
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall saltpeter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-cheeked
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-cheeked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
waning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav'd
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war eagle
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-appareled
war-blasted
war-breathing
war-breeding
warehouse truck
warlike spirit
warm as toast
warm assent
warm body
warm color
warm friend
warm friendship
warm front
warm heart
warm imagination
warm man
warm over
warm sector
warm spot
warm spring
warm temper
warm the bency
warm the blood
warm the cockles of the heart
warm the spirits
warm up
warm weather
warm welcome
warm work
warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warrior ant
warrior bush
warsaw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
warty egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
washable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up
washing bear
washing bottle
washing crystal
washing engine
washing equipment
washing machine
washing maid
washing out
washing pot
washing powder
washing soda
washing tub
washing up
washing-up
washington pie
washington's birthday
washout process
washrag gourd
wasp ant
wasp bee
wasp beetle
wasp fly
wasp nest
wasp spider
wasp waist
wasp's nest
wasp-barbed
wasp-minded
wasp-stung
wasp-waisted
wasp-waistedness
wassail bowl
wassail cup
wassermann reaction
wassermann test
waste away
waste baling
waste bank
waste bin
waste book
waste box
waste boy
waste breaker
waste bundler
waste heat
waste leaf
waste lot
waste matter
waste mold
waste no words
waste nut
waste of breath
waste of labor
waste of time
waste pallet
waste pipe
waste product
waste the opportunity
waste the precious hours
waste time
waste time in regret
waste waste
waste well
waste your breath
waste-cleaning
waste-dwelling
waste-heat boiler
waste-heat drier
waste-paper
waste-thrift
waste-wax process
wasted away
wasted loins
wastepaper basket
wastes of outer space
wasting asset
wasting away
wasting disease
wasting palsy
watch adjuster
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blister
water bloom
water blue
water boat
water boatman
water bog rush
water bomb
water bottle
water bouget
water boy
water brash
water breather
water budget
water buffalo
water bug
water butt
water caltrop
water cannon
water carrier
water channel
water chestnut
water chinquapin
water clock
water closet
water color
water conservation
water cooler
water crake
water cress
water crowfoot
water cure
water cycle
water diviner
water dog
water loss
water main
water marigold
water meadow
water meadow grass
water meter
water milfoil
water mill
water mink
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water ski
water sky
water slide
water smoke
water snail
water snake
water snowflake
water softener
water soldier
water sound
water spaniel
water spider
water spirit
water spot
water sprite
water sprout
water starwort
water strider
water supply
water system
water table
water tare grass
water target
water telescope
water thrush
water ton
water tortoise
water torture
water tower
water trap
water travel
water treatment
water vapor
water vapour
water vole
water wagon
water wagtail
water wave
water wheel
water-fast
water-fennel oil
water-finished
water-flood
water-flowing
water-free
water-front
water-fronter
water-furrow
water-gall
water-galled
water-gas
water-gas tar
water-gate
water-gild
water-girt
water-glass
water-glass painting
water-gray
water-growing
water-gruel
water-gruellish
water-hammer
water-hen
water-hole
water-horse
water-ice
water-inch
water-jacket
water-jacketing
water-jelly
water-jet
water-laid
water-lane
water-level
water-lily
water-lily family
water-lily tree
water-line
water-line model
water-lined
water-living
water-logged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-power engineering
water-pumping
water-purpie
water-quenched
water-rat
water-repellant
water-repellent
water-resistant
water-ret
water-rolled
water-rot
water-seal
water-sealed
water-season
water-shield family
water-shot
water-sick
water-ski
water-skied
water-skiing
water-slaked lime
water-smoke
water-soak
water-soaked
water-soluble
water-souchy
water-spout
water-spring
water-standing
water-starwort family
water-stream
water-struck
water-supply
water-supply engineer
water-supply engineering
water-sweet
water-table
water-tube boiler
water-vascular
water-vascular system
water-wagtail
water-washed
water-wave
water-waved
water-waving
water-way
water-weed
water-wheel
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
watered stock
watered-down
waterglass painting
watering can
watering hole
watering place
watering pot
watering-place
watering-pot
watering-pot shell
waterless cooker
waterproofing salt
waters of Lethe
waters of bitterness
waters of oblivion
watertight integrity
watertube boiler
watery grave
watery-colored
watery-eyed
watery-headed
watt current
watt-hour
watt-hour meter
watt-second
wattle and dab
wattle and daub
wattle bark
wattle crow
wattled bee eater
wattled crow
wattled honey eater
wattled lapwing
wattled stare
wattless current
wave a flag
wave a wand
wave antenna
wave band
wave changer
wave cyclone
wave down
wave drag
wave equation
wave form
wave front
wave function
wave guide
wave mechanics
wave molding
wave motion
wave number
wave phenomenon
wave scroll
wave surface
wave system
wave telegraphy
wave telephony
wave the arms
wave the bloody shirt
wave the hand
wave the white flag
wave theory
wave top
wave train
wave trap
wave wheel
wave winding
wave-cut
wave-cut platform
wave-encircled
wave-form
wave-form theory
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
waw consecutive
waw conversive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privet
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
way point
way shaft
way station
way thistle
way ticket
way train
way wire
way-beguiling
way-bill
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we'll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak-headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
wear the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wear your heart upon your sleeve
wear-out
wearer of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
wearing course
wearing down
wearisome sameness
wearisome trip
weary for
weary of life
weary to death
weary unto death
weary waste
weary-foot
weary-footed
weary-laden
weary-looking
weary-winged
weary-worn
weasel cat
weasel coot
weasel lemur
weasel out
weasel spider
weasel word
weasel words
weasel-faced
weasel-worded
weather anchor
weather back
weather balloon
weather bow
weather box
weather breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-stripped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
wedged-tailed
wedging crib
wee bit
wee doch-an-dorrach
wee folk
wee tot
wee-wee
weed killer
weed out
weed tree
weed-choked
weed-cutting
weed-entwined
weed-fringed
weed-grown
weed-hidden
weed-hook
weed-hung
weed-killer
weed-killing
weed-ridden
weed-spoiled
weeded out
weeder clips
weeder hoe
weedy-bearded
weedy-haired
weedy-looking
week work
week-end
week-long
week-old
week-work
weekend bag
weekly newspaper
weekly payments
weeny-bopper
weep for
weep hole
weep over
weep with
weep with them that weep
weeping and gnashing of teeth
weeping ash
weeping beech
weeping cross
weeping eczema
weeping golden bell
weeping honey locust
weeping lantana
weeping myall
weeping pea tree
weeping willow
weeping-ripe
weese-allan
weet-weet
weft fork
weft knitting
weft sorter
weft-knit
weft-knitted
weigh against
weigh anchor
weigh beam
weigh down
weigh heavy
weigh heavy on
weigh heavy upon
weigh in
weigh in the balance
weigh lightly
weigh on
weigh one thing against another
weigh out
weigh scales
weigh upon
weigh with
weigh you down
weigh your words
weigh-bridge
weigh-in
weigh-out
weigh-scale
weighbar shaft
weighed down
weighed upon
weighing down
weighing instrument
weighing instruments
weighing machine
weighing-in
weighing-out
weight cloth
weight control
weight density
weight down
weight down with
weight down with ornament
weight lifter
weight lifting
weight playing
weight voltameter
weight watcher
weight-bearing
weight-carrying
weight-lifting
weight-measuring
weight-raising
weight-resisting
weight-watch
weight-watching
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statistic
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
well borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accompanied
well-accommodated
well-accomplished
well-accorded
well-according
well-accoutered
well-accrued
well-accredited
well-accumulated
well-acquaint
well-acquainted
well-acquired
well-acted
well-adapted
well-addicted
well-addressed
well-adjusted
well-administered
well-admitted
well-adopted
well-adorned
well-advanced
well-adventured
well-advertised
well-advertized
well-advised
well-advocated
well-affected
well-affectedness
well-affectioned
well-affirmed
well-afforded
well-aged
well-agreed
well-agreeing
well-aligned
well-aired
well-alleged
well-allied
well-allotted
well-allowed
well-alphabetized
well-altered
well-amended
well-amused
well-analysed
well-analyzed
well-ancestored
well-anchored
well-anean
well-ankled
well-annealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-appareled
well-apparelled
well-appearing
well-applauded
well-applied
well-appointed
well-appointedly
well-appointedness
well-appreciated
well-approached
well-appropriated
well-approved
well-arbitrated
well-arched
well-argued
well-armed
well-armored
well-armoured
well-aroused
well-arranged
well-arrayed
well-articulated
well-ascertained
well-assembled
well-asserted
well-assessed
well-assigned
well-assimilated
well-assisted
well-associated
well-assorted
well-assumed
well-assured
well-attached
well-attained
well-attempered
well-attempted
well-attended
well-attending
well-attested
well-attired
well-attested
well-attributed
well-audited
well-authenticated
well-authorized
well-averaged
well-avoided
well-awakened
well-awarded
well-aware
well-baby clinic
well-backed
well-baked
well-balanced
well-balanced mind
well-baled
well-bandaged
well-bang
well-banked
well-barbered
well-bargained
well-base rim
well-based
well-bathed
well-batted
well-bearing
well-beaten
well-becoming
well-bedded
well-befitting
well-begotten
well-begun
well-behated
well-behaved
well-being
well-beknown
well-believed
well-believing
well-beloved
well-beneficed
well-bent
well-beseemingly
well-bespoken
well-bested
well-bestowed
well-blacked
well-blended
well-blent
well-blessed
well-blooded
well-blown
well-bodied
well-boding
well-boiled
well-bonded
well-boned
well-booted
well-bored
well-boring
well-born
well-borne
well-bottled
well-bottomed
well-bought
well-bound
well-bowled
well-boxed
well-braced
well-braided
well-branched
well-branded
well-brawned
well-breasted
well-breathed
well-breasted
well-bred
well-bredness
well-brewed
well-bricked
well-bridgeted
well-broken
well-brooked
well-brought-up
well-browed
well-browned
well-brushed
well-built
well-buried
well-burned
well-burnished
well-burnt
well-bushed
well-busied
well-buttoned
well-caked
well-calculated
well-calculating
well-calked
well-called
well-calved
well-camouflaged
well-caned
well-canned
well-canvassed
well-cared-for
well-carpeted
well-carved
well-cased
well-cast
well-caught
well-cautioned
well-celebrated
well-cemented
well-censured
well-centered
well-centred
well-certified
well-chained
well-changed
well-chaperoned
well-characterized
well-charged
well-charted
well-chauffeured
well-checked
well-cheered
well-cherished
well-chested
well-chewed
well-chilled
well-choosing
well-chopped
well-chosen
well-chosen moment
well-churned
well-circularized
well-circulated
well-circumstanced
well-civilized
well-clad
well-classed
well-classified
well-cleansed
well-cleared
well-climaxed
well-cloaked
well-cloistered
well-closed
well-closing
well-clothed
well-coached
well-coated
well-coined
well-collected
well-colonized
well-colored
well-coloured
well-combed
well-combined
well-commanded
well-commenced
well-commended
well-committed
well-communicated
well-compacted
well-compared
well-compassed
well-compensated
well-compiled
well-completed
well-complexioned
well-composed
well-comprehended
well-concealed
well-conceded
well-conceived
well-concentrated
well-concerted
well-concluded
well-concocted
well-concorded
well-condensed
well-conditioned
well-conducted
well-criticized
well-crocheted
well-cropped
well-crossed
well-crushed
well-cultivated
well-cultured
well-curbed
well-cured
well-curled
well-curried
well-curved
well-cushioned
well-cut
well-cutting
well-damped
well-danced
well-darkened
well-darned
well-dealing
well-dealt
well-debated
well-deceived
well-decided
well-deck
well-decked
well-declaimed
well-decorated
well-decreed
well-deeded
well-defended
well-deferred
well-defined
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
well-depicted
well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-dressed
well-dried
well-drilled
well-driven
well-drugged
well-duged
well-dusted
well-dying
well-eared
well-earned
well-earthed
well-eased
well-economized
well-edited
well-educated
well-effectuated
well-elaborated
well-elevated
well-eliminated
well-embodied
well-emphasized
well-employed
well-enacted
well-enchanting
well-encountered
well-encouraged
well-ended
well-endorsed
well-endowed
well-enforced
well-engineered
well-engraved
well-enlightened
well-entered
well-entertained
well-entitled
well-enumerated
well-enveloped
well-equipped
well-erected
well-escorted
well-essayd
well-established
well-esteemed
well-estimated
well-evidence
well-evidenced
well-examined
well-executed
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well-exercised
well-exerted
well-exhibited
well-expended
well-experienced
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well-explicatied
well-exploded
well-exposed
well-expressed
well-fabricated
well-faced
well-faded
well-famed
well-fancied
well-farmed
well-fashionen
well-fastened
well-fatted
well-favored
well-favoredly
well-favoredness
well-favoured
well-favourenced
well-feasted
well-feathered
well-featured
well-fed
well-feed
well-feigned
well-felt
well-fenced
well-fended
well-fermented
well-fielded
well-filed
well-filled
well-filtered
well-financed
well-fined
well-finished
well-fitted
well-fitting
well-fixed
well-flanked
well-flattered
well-flavored
well-flavoured
well-fledged
well-fleeced
well-fleshed
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well-floored
well-floured
well-flowered
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well-focused
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well-followed
well-fooled
well-foreseen
well-forested
well-forewarned
well-forewarning
well-forged
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well-fought
well-found
well-founded
well-foundedly
well-foundedness
well-framed
well-fraught
well-freckled
well-freighted
well-frequent
well-frequented
well-fried
well-friend
well-frightened
well-fruited
well-fueled
well-fuelled
well-functioning
well-furnished
well-furnishedness
well-furred
well-gained
well-gaited
well-gardened
well-garmented
well-garnished
well-gathered
well-geared
well-generated
well-gifted
well-girt
well-glossed
well-gloved
well-glued
well-going
well-gotten
well-governed
well-gowned
well-graced
well-graded
well-grained
well-grassed
well-gratified
well-graveled
well-gravelled
well-graven
well-greased
well-greaved
well-greeted
well-groomed
well-groomedness
well-grounded
well-grounded hope
well-grouped
well-grown
well-guaranteed
well-guarded
well-guessed
well-guided
well-guiding
well-guyed
well-hained
well-haired
well-hallowed
well-hammered
well-handicapped
well-handled
well-hardened
well-harnessed
well-hatched
well-havened
well-hazarded
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well-inscribed
well-inspected
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well-instanced
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well-instructed
well-insulated
well-insured
well-integrated
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well-intentioned
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well-interviewed
well-introduced
well-invented
well-invested
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well-irrigated
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well-judging
well-judgingly
well-justified
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well-kenned
well-kent
well-kept
well-kindled
well-knit
well-knitted
well-knotted
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well-knowledged
well-known
well-known fact
well-labeled
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well-laboured
well-laced
well-laden
well-laid
well-languaged
well-larded
well-launched
well-laundered
well-led
well-left
well-lent
well-less
well-lettered
well-leveled
well-levelled
well-levied
well-lighted
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well-liked
well-liking
well-limbed
well-limited
well-limned
well-lined
well-lined purse
well-linked
well-lit
well-liveried
well-living
well-loaded
well-located
well-locked
well-lodged
well-lofted
well-looked
well-looking
well-lost
well-loved
well-lunged
well-made
well-made play
well-maintained
well-managed
well-manned
well-mannered
well-manufactured
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well-marketed
well-married
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well-matched
well-mated
well-meaner
well-meaning
well-meaningly
well-meaningness
well-meant
well-measured
well-membered
well-mended
well-merited
well-met
well-metered
well-methodized
well-mettled
well-milked
well-mingled
well-minted
well-mixed
well-modeled
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well-moduled
well-moneyed
well-moralized
well-motivated
well-motived
well-moulded
well-mounted
well-mouthed
well-named
well-narrated
well-natured
well-naturedness
well-navigated
well-near
well-necked
well-needed
well-negotiated
well-neighbored
well-nicknamed
well-nigh
well-nosed
well-noted
well-nourished
well-nursed
well-nurtured
well-oared
well-obeyed
well-observed
well-occupied
well-off
well-officered
well-oiled
well-omened
well-omitted
well-operated
well-opinioned
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well-ordering theorem
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well-oriented
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well-ossified
well-outlined
well-overseen
well-packed
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well-painted
well-paired
well-paneled
well-paragraphed
well-parceled
well-parked
well-past
well-patched
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well-pensioned
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well-pictured
well-piloted
well-pitched
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well-plead
well-pleased
well-pleasedly
well-pleasedness
well-pleasing
well-pleasingness
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well-plowed
well-plucked
well-plumaged
well-plumed
well-pointed
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well-positioned
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well-postponed
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well-preserved
well-pressed
well-pretended
well-priced
well-primed
well-principled
well-printed
well-prized
well-professed
well-prolonged
well-pronounced
well-prophesied
well-proportioned
well-prosecuted
well-protected
well-proved
well-proven
well-provendered
well-provided
well-published
well-punished
well-pursed
well-pushed
well-put
well-puzzled
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well-qualitied
well-quartered
well-quizzed
well-raised
well-ranged
well-rated
well-read
well-read in
well-readied
well-reared
well-reasoned
well-received
well-recited
well-reckoned
well-recognised
well-recognized
well-recommended
well-recorded
well-recovered
well-refereed
well-referred
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well-reflected
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well-refreshed
well-refreshing
well-regarded
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well-regulated mind
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well-relished
well-relishing
well-remarked
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well-rendered
well-rented
well-repaid
well-repaired
well-replaced
well-replenished
well-reported
well-represented
well-reprinted
well-reputed
well-requited
well-resolved
well-resounding
well-respected
well-rested
well-restored
well-revenged
well-reviewed
well-revised
well-rewarded
well-rhymed
well-ribbed
well-ridden
well-rigged
well-ringed
well-ripened
well-risen
well-risked
well-roasted
well-rode
well-rolled
well-roofed
well-rooted
well-roped
well-rotted
well-rounded
well-rounded periods
well-routed
well-rowed
well-rubbed
well-rulled
well-ruling
well-run
well-running
well-sacrificed
well-saffroned
well-shod
well-shot
well-showered
well-shown
well-sifted
well-sighted
well-simulated
well-sinewed
well-sinking
well-situated
well-sized
well-sketched
well-skilled
well-skinned
well-smelling
well-smoked
well-soaked
well-sold
well-soled
well-solved
well-sorted
well-sounding
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well-sped
well-spent
well-spiced
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well-spoken
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well-spread
well-spring
well-spun
well-spurred
well-squared
well-stabilized
well-stacked
well-staffed
well-staged
well-stained
well-stamped
well-starred
well-stated
well-stationed
well-steered
well-stirred
well-stitched
well-stocked
well-stopped
well-stored
well-straightened
well-strained
well-strapped
well-stressed
well-stretched
well-striven
well-stroked
well-strung
well-studied
well-stuffed
well-styled
well-subscribed
well-succeeding
well-sufficing
well-sugared
well-suggested
well-suited
well-summarised
well-summarized
well-sunburned
well-sung
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well-supervised
well-supplemented
well-supplied
well-supported
well-suppressed
well-sustained
well-swelled
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well-systematized
well-tailored
well-taken
well-tamed
well-tanned
well-tasted
well-taught
well-taxed
well-tempered
well-tenanted
well-tended
well-terraced
well-tested
well-thewed
well-thought
well-thought-of
well-thought-out
well-thrashed
well-thriven
well-thrown
well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
well-tinted
well-to-do
well-toasted
well-told
well-toned
well-tongued
well-toothed
well-tossed
well-traced
well-traded
well-trained
well-translated
well-trapped
well-traveled
well-travelled
well-treated
well-tricked
well-tried
well-trimmed
well-trod
well-trodden
well-trunked
well-trussed
well-trusted
well-tuned
well-turned
well-turned periods
well-turned-out
well-tutored
well-twisted
well-typed
well-umpired
well-understood
well-uniformed
well-united
well-upholstered
well-urged
well-used
well-utilized
well-valuted
well-varied
well-varnished
well-veiled
well-ventilated
well-ventured
well-verified
well-versed
well-visualised
well-visualized
well-voiced
well-vouched
well-walled
well-wared
well-warmed
well-warmed
well-warranted
well-washed
well-watched
well-watered
well-weaponed
well-wearing
well-weaved
well-weaving
well-wedded
well-weighed
well-weighing
well-whipped
well-wigged
well-willed
well-willer
well-willing
well-winded
well-windowed
well-winged
well-winnowed
well-wired
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well-wisher
well-wishing
well-witnessed
well-witted
well-won
well-wooed
well-wooing
well-wooled
well-worded
well-worked
well-worked-out
well-worn
groove
well-woven
well-wreathed
well-written
well-wrought
well-yoked
wellington boot
welsh corgi
welsh harp
welsh hook
welsh rabbit
welsh rarebit
welsh springer spaniel
welsh terrier
welt seam
welter in your own blood
welter weight
wen-li
wend your way
were it not
were it not that
were-
were-animal
were-animals
were-ass
west Greenland current
west by north
west by south
west coast fir
west coast hemlock
west country
west end
west germanic
west highland
west india
west indian
west indies
west saxon
west wind
west wind drift
west-by
west-central
west-ender
west-endism
west-ardy
west-faced
west-facing
west-going
west-india man
west-north-west
west-northwest
west-northwesterly
west-northwestward
west-south-west
west-southwest
west-southwesterly
west-southwestward
west-southwestwardly
west-turning
west-winded
west-windy
western diamondb
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
western red cedar
western roll
western sandwich
western swing
western tanager
western wool
western yellow pine
westphalian ham
westward-looking
wet behind the ears
wet blanket
wet bulb
wet cell
wet chinook
wet cleaner
wet compass
wet contact
wet coooper
wet dock
wet down
wet dream
wet fly
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-gig
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumper
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what do you know
what do you know about that
what does it matter
what else is new
what for
what goes up must come down
what happens
what have you
what if
what in the world
what is coming to one
what is coming to you
what is comprised
what is condign
what is contained
what is destined
what is done
what is doomed
what is due
what is fated
what is in the books
what is included
what is merited
what is owing
what is possible
what is proper
what is revealed
what is right
what is to be
what is to come
what it is about
what it takes
what looms
what makes it tick
what makes you tick
what matter
what may be
what might be
what must not be
what of it
what on earth
what ought not be
what ought to be
what ought to be done
what should be
what should not be
what the hell
what time
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
what's-her-name
what's-his-face
what's-his-name
what's-its-name
what-d'ye-call-'em
what-d'ye-call-it
what-d'you-call-it
what-do-you-call-it
what-eer
what-for
what-is-it
what-like
what-you-call-it
what-you-may call-it
what-you-may--call-it
what-you-may-call-'em
whatever comes
whatever may happen
whatever the cost
whats-her-name
whats-his-name
whats-it
whats-its-name
wheaf take-all
wheaf-head
wheat aphid
wheat aphis
wheat beetle
wheat belt
wheat berry
wheat bread
wheat bug
wheat bulb fly
wheat bulb worm
wheat cake
wheat chafer
wheat cutworm
wheat duck
wheat eel
wheat eelworm
wheat farmer
wheat field
wheat fly
wheat from the chaff
wheat gallfly
wheat germ
wheat grass
wheat jointworm
wheat louse
wheat maggot
wheat meal
wheat midge
wheat mildew
wheat mite
wheat mosaic
wheat moth
wheat pest
wheat pit
wheat plant louse
wheat rosette
wheat rust
wheat sawfly
wheat scab
wheat seed
wheat sheaf
wheat smut
wheat stem
wheat stem rust
wheat thief
wheat thrips
wheat weevil
wheat weigher
wheat-blossoming
wheat-colored
wheat-fed
wheat-growing
wheat-head army worm
wheat-hid
wheat-producing
wheat-raising
wheat-rich
wheat-stem maggot
wheat-stem sawfly
wheat-straw
wheatear cockle
wheatsel bird
wheatstone bridge
wheel about
wheel and axle
wheel and deal
wheel animal
wheel animalcule
wheel around
wheel back
wheel barometer
wheel base
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whettle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
whing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
whip graftage
whip grass
whip hand
whip handle
whip hoist
whip horse
whip in
whip into shape
whip line
whip maker
whip off
whip on
whip purchase
whip ray
whip rod
whip roll
whip row
whip scorpion
whip snake
whip stall
whip thread
whip top
whip up
whip yarn
whip yourself
whip-
whip-bearing
whip-corrected
whip-cracker
whip-cracking
whip-ended
whip-grafting
whip-hand
whip-jack
whip-lash
whip-marked
whip-poor-will
whip-round
whip-saw
whip-shaped
whip-stick
whip-stitch
whip-tailed
whip-tom-kelly
whip-tongue
whip-up
whip-wielding
whipbelly vengeance
whipcord willow
whiplash injury
whipped cream
whipped up
whipper-in
whipper-snapper
whippers-in
whippet tank
whipping boy
whipping cream
whipping girl
whipping post
whipping top
whipping up
whipping-boy
whipping-snapping
whipping-up
whipsy-derry
whiptail shark
whirl drill
whirl gate
whirl like a dervish
whirl the mind
whirl-
whirl-blast
whirl-shaped
whirligig beetle
whirligig mullet
whirligig of time
whirling dervish
whirling table
whirlpool bath
whirlpool nebula
whirlwinds of tempestuous fire
whirly-
whisk broom
whisk tail
whisk-tailed
whisker boom
whisker jumper
whisker pole
whiskey jack
whiskey smash
whiskey sour
whisky cherry
whisky drinker
whisky jack
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white Mariposa
white Orpington
white Plymouth Rock
white Wyandotte
white acid
white admiral
white alert
white alkali
white ant
white area
white arsenic
white as a lily
white as a sheet
white as snow
white ash
white ash herb
white bass
white bay
white bear
white beet
white belt
white birch
white blood cell
white blood corpuscle
white book
white boy
white bread
white bronze
white bryony
white cake
white campion
white cast iron
white cedar
white chip
white clover
white coal
white comparisons
white cooper
white corpuscle
white crab
white crappie
white cross
white currant
white daisy
white damp
white dew
white dutch clover
white dwarf
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white upland aster
white vitriol
white walnut
white water
white water lily
white wax
white way
white whale
white wine
white with age
white wolf
white wood aster
white- acre
white- alder
white- alder family
white- ankled
white- ant
white- anted
white- armed
white- ash
white- backed
white- barked
white- barred
white- beaked
white- bearded
white- bellied
white- berried
white- billed
white- blood
white- blooded
white- blue
white- bodied
white- bone
white-boned
white-bordered
white-bosomed
white-breasted
white-brick
white-browed
white-brown
white-burning
white-capped
white-cell
white-cell blood
white-cheeked
white-chinned
white-churned
white-clad
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-eyes
white-faced
white-faced hornet
white-favored
white-feathered
white-featherism
white-felled
white-flanneled
white-flecked
white-fleshed
white-flower
white-flowered
white-flowing
white-foot
white-footed
white-footed mouse
white-frilled
white-fringed
white-frocked
white-fronted
white-fronted goose
white-fruit
white-girdled
white-glittering
white-gloved
white-gray
white-green
white-ground
white-haired
white-hairy
white-handed
white-hard
white-hatted
white-headed
white-heart
white-heart hickory
white-hoofed
white-hooved
white-horned
white-horsed
white-hot
white-jacketed
white-laced
white-leaf
white-leaved
white-legged
white-lie
white-lined
white-linen
white-lipped
white-list
white-listed
white-livered
white-liveredly
white-liveredness
white-loaf
white-looking
white-maned
white-mantled
white-marked
white-mooned
white-mottled
white-mouthed
white-mustard
white-mustard oil
white-necked
white-nosed
white-painted
white-paneled
white-petaled
white-pickle
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
white-ribbed
white-ribboned
white-ribboner
white-rinded
white-robed
white-roofed
white-ruffled
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slaver
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
whitetailed deer
whitewall tire
whitewash job
whitewood bark
whiting bottle
whiting box
whiting brush
whiting can
whiting dabber
whiting filler
whiting furnace
whiting kit
whiting loader
whiting maker
whiting mill
whiting packer
whiting paste
whiting pollack
whiting pout
whiting powder
whiting sponge
whiting time
whiting tin
whitish-blue
whitish-brown
whitish-cream
whitish-flowered
whitish-green
whitish-lavender
whitish-red
whitish-tailed
whitish-yellow
whitley council
whitlow grass
whitlowwort family
whitten tree
whitty-tree
whity-brown
whity-gray
whity-green
whity-yellow
whiz about
whiz kid
whiz off
whiz-bang
whizz-bang
whizzing stick
who cares
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole megillah
whole mess
whole milk
whole note
whole number
whole offering
whole people
whole picture
whole rest
whole schmear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
whole-hog
whole-hogger
whole-hoofed
whole-leaved
whole-length
whole-minded
whole-mouthed
whole-or-none
whole-sail
whole-seas
whole-skinned
whole-souled
whole-souledly
whole-souledness
whole-spirited
whole-step
whole-timer
whole-tone scale
whole-wheat
whole-witted
wholesale dealer
wholesale house
wholesale murder
wholesale price
whomp up
whoop and a holler
whoop it up
whoop it up about
whoop-de-do
whoop-de-doo
whoop-de-dos
whoop-up
whooppee cup
whooper swan
whooping cough
whooping crane
whooping-cough
whore's bird
whorl foot
why yes
why-not
whydah bird
wi-wi
wibble-wabble
wibble-wobble
wicked imitation
wicked, the
wicked-acting
wicked-eyed
wicked-looking
wicked-minded
wicked-speaking
wicked-tongued
wicker basket
wicker-woven
wicket dam
wicket door
wicket gate
wicket maiden
widbin pear tree
wide apart
wide as a church door
wide awake
wide away
wide berth
wide gauge
wide knowledge
wide margin
wide of the mark
wide open
wide place in the road
wide ration
wide reading
wide world
wide-a-wake
wide-abounding
wide-accepted
wide-angle
wide-angle lens
wide-arched
wide-armed
wide-aware
wide-aware hat
wide-awakeness
wide-banked
wide-bottomed
wide-branched
wide-branching
wide-breasted
wide-brimmed
wide-cast
wide-chapped
wide-circling
wide-climbing
wide-consuming
wide-crested
wide-distant
wide-doored
wide-eared
wide-echoing
wide-elbowed
wide-expanded
wide-expanding
wide-extended
wide-extending
wide-eyed
wide-faced
wide-flung
wide-framed
wide-gaping
wide-gated
wide-girdled
wide-handed
wide-hipped
wide-honored
wide-imperial
wide-jointed
wide-kneed
wide-lamented
wide-leafed
wide-leaved
wide-lipped
wide-met
wide-minded
wide-mindedness
wide-mouthed
wide-necked
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreading
wide-straddling
wide-streeted
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widen the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow's benefit
widow's cruse
widow's dower
widow's mite
widow's peak
widow's walk
widow's weeds
widow's-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht's
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-woggle
wiggly-waggly
wig wag flag
wig wag signal
wilcolored flowers
wild West
wild about
wild allspice
wild and woolly
wild animal
wild animals
wild ass
wild basil
wild bean
wild beast
wild beasts
wild bergamot
wild bleeding-heart
wild boar
wild brier
wild calla
wild carrot
wild cat
wild celery
wild cherry
wild chervil
wild clove
wild corn
wild date
wild deer
wild dog
wild duck
wild fig
wild flax
wild flower
wild for
wild fowl
wild geranium
wild ginger
wild goat
wild goose
wild goose chase
wild growth
wild guess
wild hollyhock
wild honeysuckle
wild horse
wild hyacinth
wild hyacin
wild hydrangea
wild imagination
wild indigo
wild ipecac
wild land
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billowing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
wild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
wilderness area
wilderness preserve
wildest dream
wildest dreams
wildlife conservation
wildlife preserve
wile away
will and bequeath
will and pleasure
will and will not
will contest
will for power
will of Heaven
will of iron
will of your own
will power
will to
will to believe
will to power
will turn
will wonders never cease
will you
will-call
will-commanding
will-fraught
will-less
will-lessly
will-lessness
will-o'-the-wisp
will-o-the-wisp
will-strong
will-willet
will-with-the-wisp
will-worship
will-worshiper
willful disobedience
willful misconception
william tell
willie gow
willow sparrow
willow thorn
willow thrush
willow tit
willow tree
willow wand
willow warbler
willow wren
willow-bordered
willow-colored
willow-cone
willow-cone gall
willow-fringed
willow-grown
willow-herb
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
winch driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blasting
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outspeeding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
window trimmer
window trimming
window work
window-breaking
window-broken
window-cleaning
window-dress
window-dresser
window-dressing
window-efficiency
window-efficiency ratio
window-opening
window-rattling
window-shop
window-shopper
window-shopping
window-smashing
window-ventilating
windowless monad
windpipe-slitting art
windscreen wiper
windshield wing
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-mouthed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunken
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wing shell
wing shooting
wing shot
wing skid
wing snail
wing stopper
wing tie
wing tip
wing top
wing tract
wing transom
wing truss
wing valve
wing wale
wing wall
wing your way
wing-borne
wing-broken
wing-case
wing-clipped
wing-ding
wing-footed
wing-hoofed
wing-leaved
wing-limed
wing-loose
wing-maimed
wing-margined
wing-shaped
wing-slot
wing-swift
wing-tip
wing-tip flare
wing-tip float
wing-tipped
wing-wearily
wing-weariness
wing-weary
wing-wide
wingback formation
winged chair
winged elm
winged rocket
winged spindle tree
winged-footed
winged-heeled
winged-leaved
wink at
wink of sleep
wunker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-bouding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
wire basket
wire bender
wire bent
wire birch
wire bridge
wire brush
wire cartridge
wire chief
wire chisel
wire cloth
wire coat
wire communication
wire coverer
wire cutter
wire cutting
wire drawer
wire drawing
wire edge
wire entanglement
wire former
wire galvanizer
wire gauge
wire gauze
wire glass
wire grama
wire grass
wire grating
wire grub
wire gun
wire house
wire lath
wire line
wire ling
wire loop binding
wire mark
wire micrometer
wire money
wire nail
wire netting
wire nut
wire pack
wire plant
wire press
wire radio
wire recorder
wire recording
wire reducer
wire road
wire rod
wire roller
wire room
wire rope
wire ropeway
wire rush
wire saw
wire sculpture
wire service
wire sewer
wire side
wire silver
wire spooler
wire stem
wire stitch
wire stitcher
wire stitching
wire straightener
wire stranger
wire tapper
wire tapping
wire tester
wire tighter
wire tinner
wire vine
wire walker
wire wave communication
wire weaver
wire welder
wire wheel
wire winder
wire wool
wire-bending
wire-blocking
wire-borne
wire-bound
wire-brushing
wire-caged
wire-cloth
wire-coiling
wire-crimping
wire-cut
wire-draw
wire-drawer
wire-drawn
wire-edged
wire-feed
wire-feeding
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wise man of Chelm
wise man of Gotham
wise old man
wise passiveness
wise saying
wise to
wise up
wise up to
wise-ass
wise-bold
wise-framed
wise-hardy
wise-headed
wise-heart
wise-judging
wise-lipped
wise-reflecting
wise-said
wise-spoken
wise-valiant
wise-worded
wiser head
wish for
wish fulfillment
wish fulfilment
wish on
wish to
wish to goodness
wish upon
wish very much
wish well
wish you joy
wish you luck
wish-bringer
wish-fulfilling
wish-fulfillment
wish-fulfillment fantasy
wish-giver
wish-maiden
wish-wash
wish-washy
wishbone bush
wishbone gaff
wishbone rig
wished-for
wishful belief
wishful thinker
wishful thinking
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit's end
wit-abused
wit-assailing
wit-beaten
wit-cherishing
wit-crack
wit-cracker
wit-drawn
wit-foundered
wit-fraught
wit-gracing
wit-infusing
wit-loving
wit-masked
wit-offended
wit-oppressing
wit-pointed
wit-salted
wit-snapper
wit-starved
wit-stung
wit-worn
witch alder
witch baiter
witch baiting
witch ball
witch bird
witch broom
witch burner
witch burning
witch butter
witch cake
witch chick
witch doctor
witch doctoring
witch doctory
witch doctress
witch fire
witch flounder
witch for water
witch gowan
witch grass
witch hazel
witch hobble
witch hopple
witch hunt
witch hunter
witch knot
witch light
witch lock
witch mania
witch mark
witch master
witch meal
witch moth
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch-elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches' Sabbath
witches' chorus
witches' coven
witches' meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a yellow streak
with abandonment
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow's feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitapat
with heart going pitter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawing room
withe rod
wither away
wither-wrung
withered loins
withhold assent
withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear or favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-beseen
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwrapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirm
woe-laden
woe-maddened
woe-revolving
woe-scorning
woe-sprung
woe-stricken
woe-struck
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
wolf down
wolf eel
wolf fish
wolf fruit
wolf grape
wolf herring
wolf in sheep's clothing
wolf in the stomach
wolf madness
wolf moth
wolf note
wolf pack
wolf snake
wolf spider
wolf tooth
wolf tree
wolf willow
wolf's-bane
wolf's-head
wolf-begotten
wolf-boy
wolf-child
wolf-children
wolf-colored
wolf-dog
wolf-eel
wolf-eyed
wolf-gray
wolf-haunted
wolf-headed
wolf-hound
wolf-hunting
wolf-man
wolf-moved
wolf-scare
wolf-shaped
wolf-slaying
wolf-suckled
wolffian body
wolfram lamp
wolfram ocher
wolfram steel
woman chaser
woman child
woman movement
woman of easy virtue
woman of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-lodged
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
womens' chorus
won ton
won ton soup
wonder about
wonder drug
wonder drugs
wonder whether
wonder-beaming
wonder-bearing
wonder-charmed
wonder-dumb
wonder-exciting
wonder-fed
wonder-hiding
wonder-loving
wonder-mocking
wonder-promising
wonder-raising
wonder-seeking
wonder-sharing
wonder-smit
wonder-smitten
wonder-stirring
wonder-stricken
wonder-striking
wonder-struck
wonder-teeming
wonder-waiting
wonder-work
wonder-worker
wonder-working
wonder-wounded
wonder-writing
wonderful thing
wonders of the world
wondrous strange
wonga-wonga
wont-believer
wont-learn
wont-wait
wont-work
wood acid
wood alcohol
wood almond
wood anemone
wood ant
wood apple
wood aster
wood avens
wood awl
wood baboon
wood barker
wood bass
wood bedstraw
wood bender
wood betony
wood bison
wood block
wood boiler
wood borer
wood broom
wood brown
wood buffalo
wood bundle
wood calamint
wood calker
wood carpet
wood carver
wood carving
wood cell
wood cement
wood checker
wood chess
wood chopper
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood collier
wood coker
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsel
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood ipecac
wood keeper
wood kingfisher
wood laborer
wood lark
wood laurel
wood leopard
wood leopard moth
wood lily
wood loader
wood lock
wood lot
wood louse
wood machine
wood machinist
wood meadow grass
wood meal
wood measurer
wood milling machine
wood mite
wood model
wood molder
wood mouse
wood naphtha
wood nettle
wood nightshade
wood nut
wood nymph
wood offering
wood oil
wood oil tree
wood opal
wood owl
wood packing
wood painting
wood paper
wood parenchyma
wood partridge
wood pavior
wood pea
wood peat
wood pegger
wood pennroyal
wood pewee
wood pie
wood pigeon
wood pimpernel
wood pitch
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymph
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-quest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
woody nightshade
woody-stemmed
wooer-bab
wool breaker
wool burler
wool card
wool carder
wool carding
wool classer
wool classing
wool clip
wool comb
wool comber
wool combing
wool crepe
wool driver
wool extract
wool extractor
wool fast dye
wool fat
wool feeder
wool fell
wool fiber
wool former
wool grade
wool grader
wool grading
wool grass
wool grease
wool green
wool hall
wool hardener
wool mill
wool moth
wool needle
wool oil
wool oiler
wool packer
wool powder
wool sampler
wool scour
wool spinner
wool spinning
wool sponge
wool staple
wool stapler
wool stripper
wool table
wool thistle
wool tree
wool waste
wool wax
wool-backed
wool-bearing
wool-bundling
wool-burring
wool-cleaning
wool-clipper
wool-coming
wool-drying
wool-dyed
wool-eating
wool-flock
wool-fringed
wool-gather
wool-gathering
wool-growing
wool-hetchel
wool-laden
wool-lined
wool-oerburdened
wool-pack
wool-packing
wool-pated
wool-picking
wool-producing
wool-rearing
wool-sorter's disease
wool-staple
wool-stapling
wool-white
wool-witted
wool-woofed
wool-work
woolen draper
woolen drapery
woolen mill
woolen-clad
woolen-frocked
woolen-stockinged
woollen-drapery
woolly aphid
woolly bear
woolly beard grass
woolly foot
woolly mammoth
woolly manzanita
woolly worm
woolly-butted
woolly-coated
woolly-haired
woolly-haried
woolly-head
woolly-headed
woolly-headedness
woolly-leaved
woolly-looking
woolly-minded
woolly-mindedness
woolly-pated
woolly-podded
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
woolly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
work like a horse to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work of fiction
work of reference
work off
work on
work out
work out a deal
work out beforehand
work over
work overtime
work release
work roller
work school
work sheet
work shift
work shoe
work shoes
work site
work socks
work song
work space
work spreading
work stock
work stone
work stoppage
work ticket
work to windward
work to your advantage
work to your will
work together
work toward
work train
work under pressure
work up
work up into a lather
work up into a passion
work up to
work upon
work week
work well
work wonders
work your fingers to the bone
work your head off
work your head to the bone
work your shift
work your way
work your way up
work yourself into a lather
work yourself into a stew
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working-out
workings of the mind
workmen's compensation
workmen's compensation insurance
works committee
works council
works manager
works, the
world ash
world at large
world belt
world beyond the grave
world champion
world communion sunday
world concept
world day of prayer
world economy
world federalism
world federalist
world government
world ground
world island
world language
world line
world myth
world of fashion
world of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-cleansing
world-comforting
world-commanding
world-commended
world-compassing
world-compelling
world-condemned
world-confounding
world-connecting
world-conquering
world-conscious
world-consciousness
world-constituted
world-consuming
world-contemning
world-contracting
world-contrasting
world-controlling
world-converting
world-copied
world-corrupted
world-corrupting
world-covering
world-creating
world-credited
world-crippling
world-crowding
world-crushed
world-deaf
world-debated
world-deceiving
world-deep
world-defying
world-delighting
world-delivering
world-demanded
world-denyng
world-depleting
world-depressing
world-describing
world-deserting
world-desired
world-desolation
world-despising
world-destroying
world-detached
world-detesting
world-devouring
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world- eminent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world-esteemed
world-excelling
world-exiting
world-famed
world-familiar
world-famous
world-favored
world-fearing
world-felt
world-forgetting
world-forgotten
world-forming
world-forsaken
world-forsaking
world-fretted
world-girdling
world-gladdening
world-governing
world-grasping
world-great
world-grieving
world-hailed
world-hardened
world-hating
world-heating
world-helping
world-honored
world-horrifying
world-humiliating
world-imagining
world-improving
world-infected
world-informing
world-involving
world-jaded
world-jeweled
world-joining
world-kindling
world-knowing
world-known
world-lamented
world-lasting
world-leading
world-leveling
world-lighting
world-line
world-linking
world-long
world-loving
world-mad
world-made
world-marked
world-mastering
world-melting
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-noised
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-poisoned
world-pondered
world-populating
world-portioning
world-possessing
world-power
world-practiced
world-preserving
world-prevalent
world-prized
world-producing
world-prohibited
world-protected
world-raising
world-rare
world-read
world-recognized
world-record holder
world-redeeming
world-reflected
world-regulating
world-rejected
world-rejoicing
world-relieving
world-remembered
world-renewing
world-renowned
world-resented
world-respected
world-restoring
world-revealing
world-reviving
world-revolving
world-ridden
world-round
world-rousing
world-roving
world-ruling
world-sacred
world-sacrificing
world-sanctioned
world-sated
world-saving
world-scarce
world-scattered
world-schooled
world-scorning
world-seasoned
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worm-destroying
worm-driven
worm-eat
worm-eaten
worm-eatenness
worm-eater
worm-eating
worm-gear elevator
worm-geared
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-boded
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-ruled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-ruled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king's ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-whileness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wound cork
wound fever
wound fungus
wound gall
wound parasite
wound rocket
wound shock
wound string
wound to the quick
wound up
wound-dressing
wound-fevered
wound-free
wound-inflicting
wound-marked
wound-plowed
wound-producing
wound-scarred
wound-secreted
wound-up
wound-worn
wounded pride
wounds immedicable
wove paper
woven-wire
wow-wow
wowie zowie
wr-
wrack and ruin
wrack grass
wrack the nerves
wrack up
wracked with age
wrangle over
wrap about
wrap around
wrap up
wrap yourself in
wrap-
wrap-around
wrap-rascal
wrap-round
wrap-up
wrapped in
wrapped in clouds
wrapped in mystery
wrapped in thought
wrapped in wonder
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreathe goldenrod
wreathe shell
wreathe-crowned
wreathe-drifted
wreath-festooned
wreath-wrought
wreath around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wreck-causing
wreck-devoted
wreck-free
wreck-raising
wreck-strewn
wreck-threatening
wrecking bar
wrecking car
wrecking crane
wrecking frog
wrecking pump
wren babbler
wren tit
wren warbler
wren-thrush
wren-tit
wrench fit
wrench forger
wrench from
wrench hammer
wrench head
wrest block
wrest from
wrest out
wrest pin
wrest plank
wresting out
wrestle with
wrestling hold
wrestling match
wrestling meet
wrestling ring
wrestling school
wretched lot
wretched of the earth
wretched-fated
wretched-looking
wretched-witched
wriggle out of
wriggle yourself into
wring from
wring out
wring the heart
wring your hands
wring washer
wringing fit
wringing machine
wringing wet
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
winkled-browed
winkled-cheeked
winkled-leaved
winkled-old
winkled-shelled
winkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
writing expert
writing fluid
writing frame
writing ink
writing lesson
writing machine
writing machines
writing master
writing material
writing materials
writing on the wall
writing pad
writing paper
writing reed
writing room
writing set
writing stamps
writing style
writing system
writing systems
writing table
writing tablet
writing telegraph
writing-table
writing-paper
written character
written communication
written constitution
written down
written examination
written hand
written language
written law
written matter
written music
wrong conduct
wrong construction
wrong font
wrong foot
wrong fount
wrong impression
wrong linking
wrong move
wrong name
wrong number
wrong side
wrong side of your face
wrong side out
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
wrong-minded
wrong-mindedly
wrong-mindedness
wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
wrong-way around
wroth money
wroth penny
wroth silver
wrought iron
wrought iron casting
wrought out
wrought up
wrought up by
wrought-iron
wrought-up
wry face
wry mouth
wry-armed
wry-billed
wry-blown
wry-eyed
wry-faced
wry-formed
wry-guided
wry-legged
wry-looked
wry-mouthed
wry-necked
wry-neckedness
wry-nosed
wry-set
wry-tailed
wry-toothed
wu-su
wu-wei
wung-out
wych elm
wych-elm
wych-hazel
wye level
x chromosome
x height
x in
x number
x out
x ray
x rays
x-axis
x-disease
x-ed
x-height
x-high
x-ing
x-line
x-out
x-radiation
x-ray
x-ray astronomy
x-ray crystallography
x-ray photograph
x-ray photography
x-ray star
x-ray therapy
x-ray tube
x-shaped
x-stretcher
x-unit
xanth-
xanthd-
xanthene dye
xanthic acid
xantho-
xanthoproteic acid
xaverian brother
xen-
xenic acid
xeno-
oxenon hexafluoride
xenon tetrafluoride
xer-
xero-
zxoderma pigmentosum
xi-particle
xiph-
xiphoid process
xyl-
xylem parenchyma
xylem ray
xylene blue
xylic acid
xylite oil
xylo-
xyloglyphic artist
xylonic acid
y chromosome
y tile
y-
y-axes
y-axis
y-bake
y-blend
y-blenies
y-blenny
y-blent
y-cast
y-clept
y-end
y-painted
y-pointing
y-rapt
y-scalded
y-ssed
y-warn
ya-ta-ta
yaba bark
yacca gum
yacht berth
yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
yacht ensign
yacht gear
yacht propeller
yacht race
yacht racing
yacht rigging
yacht rope
yacht squadron
yacht-built
yachtman's anchor
yackety-yack
yackety-yak
yackety-yakked
yackety-yakking
yak-yak
yakety-yak
yakety-yakked
yakety-yakking
yakity-yak
yakkety-yak
yam bean
yam family
yam potato
yam stick
yam tree
yam-root
yammer yawp
yang-kin
yankee-doodle
yap at
yapp binding
yard boy
yard cleaner
yard donkey
yard engineer
yard foreman
yard goods
yard grass
yard inspector
yard laborer
yard locomotive
yard lumber
yard of ale
yard porter
yard regulator
yard rope
yard rush
yard scavenger
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
yard up
yard-arm
yard-broad
yard-deep
yard-long
yard-long bean
yard-measure
yard-of-ale
yard-square
yard-thick
yard-wand
yard-wide
yardarm to yardarm
yarding engine
yarn baller
yarn bleacher
yarn boiler
yarn buncher
yarn bundler
yarn carrier
yarn conditioner
yarn croft
yarn dresser
yarn dryer
yarn dyer
yarn finisher
yarn inspector
yarn packer
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spinning
yarn spreader
yarn stretcher
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn weigher
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
ye-makimono
yea sayer
yea vote
yea-and-nay
yea-and-nayish
yea-nay
yea-sayer
yea-saying
yeah-yeah
year after year
year count
year hour
year in
year in and year out
year in year out
year letter
year of grace
year out
year's mind
year-around
year-book
year-born
year-counted
year-daimon
year-demon
year-end
year-long
year-marked
year-old
year-round
yearly meeting
yearn for
yearning for the past
years ago
years of discretion
years old
years on end
yeas and nays
yeast bee
yeast cake
yeast cell
yeast fungus
yeast nucleic acid
yeast plant
yeast powder
yeast spot
yeast-bitten
yeddo hawthorn
yell at
yell bloody murder
yell out
yell to high heaven
yell yourself hoarse
yellow Chartreuse
yellow alert
yellow bell
yellow belly
yellow bile
yellow birch
yellow blindness
yellow book
yellow brass
yellow bush
yellow cake
yellow calla lily
yellow camomile
yellow carmine
yellow cedar
yellow complexion
yellow copper ore
yellow cypress
yellow daisy
yellow dog
yellow enzyme
yellow fever
yellow flag
yellow foxglove
yellow gentian
yellow goatfish
yellow gold
yellow granadilla
yellow grass
yellow grease
yellow honeysuckle
yellow jack
yellow jacket
yellow jasmine
yellow jaundice
yellow jessamine
yellow journal
yellow journalism
yellow journalist
yellow lady’s-slipper
yellow lead ore
yellow light
yellow line
yellow locust
yellow loosestrife
yellow madder
yellow man
yellow mandarin
yellow medick
yellow melilot
yellow mercuric oxide
yellow-breasted chat
yellow-browed
yellow-brown
yellow-capped
yellow-centered
yellow-checked
yellow-cheeked
yellow-chinned
yellow-collared
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeced
yellow-fleshed
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruitied
yellow-skinned
yellow-skirted
yellow-speckled
yellow-splotched
yellow-spotted
yellow-sprinkled
yellow-stained
yellow-starched
yellow-striped
yellow-tailed
yellow-throated
yellow-throated vireo
yellow-tinged
yellow-tinging
yellow-tinted
yellow-tipped
yellow-toed
yellow-tressed
yellow-tufted
yellow-vented
yellow-washed
yellow-white
yellow-winged
yellowfin tuna
yellowish-amber
yellowish-brown
yellowish-colored
yellowish-gold
yellowish-gray
yellowish-green
yellowish-green-yellow
yellowish-haired
yellowish-orange
yellowish-pink
yellowish-red
yellowish-red-yellow
yellowish-rose
yellowish-skinned
yellowish-tan
yellowish-white
yelly-hoo
yelly-hooing
yelp at
yen for
yeoman of the guard
yeoman service
yeoman's service
yeomen of the guard
yerba buena
yerba mansa
yerba mate
yerba reuma
yerba sagrada
yerba santa
yerba-mate
yerk out
yes indeed
yes indeedy
yes ma'am
yes man
yes sir
yes sirree
yes-and-no answer
yes-man
yes-no
yes-noer
yes-noism
yeshiva bocher
yester-
yester-year
yesterday and today and forever
yet again
yew berry
yew family
yew green
yew pine
yew tree
yew-besprinkled
yew-crested
yew-hedged
yew-leaved
yew-roofed
yew-shaded
yew-treed
yi tsing ware
yield a profit
yield again to
yield an aroma
yield an odor
yield assent
yield hope
yield point
yield strength
yield stress
yield the floor
yield the ghost
yield the palm
yield the spirit
yield to
yield to despair
yield to maturity
yield value
yield your breath
yielding a return
yielding prop
yill-caup
ylang-ylang
yo-heave-ho
yo-ho
yo-ho-ho
yo-kyoku
yo-yo
yoga trance
yohimbe bark
yoke bone
yoke devil
yoke elm
yoke front
yoke method
yoke riveter
yoke with
yoke-footed
yoke-toed
yolk bag
yolk boil
yolk cord
yolk duct
yolk gland
yolk nucleus
yolk plate
yolk plug
yolk sac
yolk stalk
yolk yellow
yom kippur
yom tob
yom tobs
yom tov
yom tovs
yomin tovim
yoo-hoo
york rite
yorkshire pudding
yorkshire terrier
you and me
you are mistaken
you are right
you are wrong
you bet
you bet your boots
you bet your life
you better believe it
you can bank on it
you can bet on it
you can bet your bottom dollar
you can just bet
you can make book on it
you can say that again
you can't go wrong
you don't say
you have another guess coming
you name it
you said a mouthful
you said it
you should live so long
you speak truly
you too
you're all wet
you're darn tootin'
you're not kidding
you're telling me
you're way off
you've got it
you've got me
you've got something there
you-all
you-be-damned
you-be-damnedness
you-know-what
you-know-who
you-uns
young animal
young bird
young blood
young buck
young cat
young chicken
young cow
young creature
young deer
young devil
young dog
young duck
young frog
young fry
young fustic
young generation
young goat
young goose
young hopeful
young horse
young hyson
young insect
young lady
young man
young one
young people
young person
young pig
young sheep
young thing
young turk
young whippersnapper
young woman
young-bladed
young-chinned
young-conscienced
young-counseled
young-eyed
young-headed
young-ladydom
young-ladyfied
young-ladyhood
young-ladyish
young-ladyism
young-ladylike
young-ladyship
young-looking
young-manhood
young-manlike
young-manliness
young-manly
young-mannish
young-mannishness
young-manship
young-old
young-winged
young-womanhood
young-womanish
young-womanishness
young-womanlike
young-womanly
young-womanship
young-yeared
younger generation
youngest-born
your adieus
your all
your ancestors
your applecart
your best
your best effort
your best endeavor
your betters
your blind side
your blood
your crowd
your cup of tea
your days are numbered
your doom is sealed
your due
your fathers
your grain
your head off
your hour
your hour is come
your last hour
your level best
your native ground
your native heath
your native place
your number is up
your own choice
your own discretion
your own initiative
your own level
your own man
your own will
your race is run
your ribs
your say
your set
your turn
your utmost
your worth
yours truly
youth club
youth group
zebra bird
zebra caterpillar
zebra crossing
zebra finch
zebra fish
zebra grass
zebra opossum
zebra parakeet
zebra plant
zebra poison
zebra shark
zebra spider
zebra swallowtail
zebra wolf
zebra-back
zebra-plant
zebra-tailed
zebra-tailed lizard
zebrawood family
zebu cattle
zee bar
zeeman effect
zenaida dove
zend-avesta
zenith blue
zenith collimator
zenith distance
zenith point
zenith sector
zenith star
zenith telescope
zenith tube
zenith-pole
zenith-pole arc
zenith-star arc
zenithal projection
zephr worsted
zephyr cloth
zephyr flower
zephyr lily
zephyr shawl
zephyr shirting
zephyr worsted
zephyr yarn
zephyr-fanned
zephyr-haunted
zephyr-kissed
zero ablaut grade
zero algebra
zero beat
zero day
zero element
zero fleck
zero grade
zero gravity
zero grazing
zero group
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zero in
zero in on
zero magnet
zero mark
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zero method
zero oil
zero point
zero post
zero potential
zero set
zero stage
zero stem
zero thrust pitch
zero tone
zero torque pitch
zero vector
zero weather
zero-dimensional
zero-divisor
zero-lift
zero-lift angle
zero-point energy
zero-rated
zero-thrust pitch
zero-zero
zeroth law of thermodynamics
zeta function
zetetic philosophy
zig and zag
zigzag course
zigzag fence
zigzag path
zigzag rule
zigzag-fashion
zigzag-lined
zigzag-shaped
zila parishad
zimocca sponge
zinc alkyl
zinc amide
zinc blende
zinc bloom
zinc bromide
zinc carbonate
zinc chloride
zinc chromate
zinc chrome
zinc crust
zinc dust
zinc engraving
zinc etching
zinc ethide
zinc ethyl
zinc fixer
zinc flowers
zinc gray
zinc green
zinc methide
zinc methyl
zinc ointment
zinc orange
zinc oxide
zinc phosphide
zinc sender
zinc spar
zinc spinel
zinc standard cell
zinc stearate
zinc sulfate
zinc sulfide
zinc sulphate
zinc sulphide
zinc vitriol
zinc white
zinc yellow
zinc-coated
zinc-etched
zinc-lined
zinc-roofed
zinc-sampler
zinco-
zinco-polar
zip code
zip fastener
zip gun
zip through
zip up
zircon lamp
zircon light
zircon-syenite
zirconium dioxide
zirconium oxide
zo-
zodiacal constellation
zodiacal light
zona pellucida
zonae pellucidae
zonal soil
zone axis
zone catalogue
zone fire
zone line
zone melting
zone of communications
zone of fire
zone of interior
zone of no signal
zone phenomenon
zone plate
zone refining
zone system
zone tariff
zone time
zone-confounding
zone-marked
zone-tailed
zoning act
zoning commission
zoning law
zoning laws
zoning ordinance
zoned out
zono-
zoo-
zoo-ecologist
zoo-ecology
zoogenic infection
zoological garden
zoom binoculars
zoom in
zoom lens
zoom shot
zoot suit
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 30082

zoot-suiter
zwitter ion
zyg-
zygo-
zygomatic arch
zygomatic bone
zygomatic process
zym-
zymo-

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-gnathous
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-phyte
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-plasty
-pod
-podium
-proof
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-trope
-trophy
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A.W.O.L.
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Abib
Abidjan
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Abu Simbel
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Anne of Bohemia
Anne of Cleves
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Asgard
Ash Wednesday
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Ashcroft
Asher
Ashford
Ashkhabad
Ashton
Ashton-under-Lyne
Ashtoreth
Ashur
Ashurbanipal
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Asia Minor
Asian
Asian flu
Asiatic
Asiatic beetle
Asiatic cholera
Asiatic flu
Asir
Ask
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Asmara
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Asyut
At
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Atacama Desert
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Atalanta
Atbara
Ate
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Athabaska
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Athanasius
Athapaskan
Atharva-Veda
Athelstan
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Atlantic Charter
Atlantic City
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Atlantic Ocean
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Atlas Mountains
Atli
Atomic Energy Commission
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Atreus
Atropos
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DMZ
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John XXII
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John of Salisbury
John the Baptist
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Johnson
Johnson grass
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Jokjakarta
Joliot-Curie
Jolly Roger
Jolo
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Jonathan
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Jonson
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Jordan
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K.C.B.
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K.O.
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Karen
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Karlovy Vary
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Kassel
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Kekkonen
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Kelso
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Kentucky
Kentucky Derby
Kentucky bluegrass
Kentucky coffee tree
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Landau
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Landowska
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Lanfranc
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Langer
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Leonardo da Vinci
Leoncavallo
Leonid
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Leopold III
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Lepontine Alps
Lepus
Lermontov
Lerwick
Les Cayes
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Lesotho
Lesseps
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Lethbridge
Lethe
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Lett
Lettish
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Lév.
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Leven
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Lollard
Lomax
Lombard
Lombard Street
Lombardy
Lombardy poplar
Lombok
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Lomond
London
London broil
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Londonderry
Londrina
Long
Long Beach
Long Island
Long Parliament
Longfellow
Longford
Longhorn
Longinus
Longobard
Longs Peak
Lons-le-Saunier
Lope de Vega
Lorca
Lord
Lord Chancellor
Lord Chief Justice
Lord Lieutenant
Lord Mayor
Lord President of the Council
Lord Privy Seal
Lord Protector
Lord Provost
Lord of Misrule
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Lordship
Lorelei
Loren
Lorentz
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Lorenzetti
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Lorraine
Lorraine cross
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Low Archipelago
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Lt.
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Lualaba
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Lubbock
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Lucan
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Lucas van Leyden
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Lutine bell
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Luzern
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Lyllpur
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Macpherson
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Madagascar
Madeira
Madhya Pradesh
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Madonna
Madras
Madre de Dios
Madrid
Madura
Maeander
Maebashi
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Maelstrom
Maestricht
Mafeking
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Magallanes
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Magna Graecia
Magna Mater
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Mahdi
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Manila
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Maria Theresa
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Marie Byrd Land
Marie Galante
Mariehamn
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Maritsa
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Markov chain
Markova
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Marmara
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Marquand
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Marquette
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Marrakech
Marrano
Mars
Mars brown
Mars violet
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Marshall
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Marston Moor
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Mason
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Meistersinger
Meitner
Mekka
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Methyr Tydfil
Merton
Mesa Verde
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Messapian
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Messiah
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Molly Maguire
Moloch
Molokai
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Mona Lisa
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Mondrian
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Morea
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Mozarab
Mozart
Mr.
Mrs.
Ms.
Msgr.
Mt.
Mt. Rev.
Muhammad
Muhammadan
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Mukden
Mulpiber
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Mussolini
Mussorgsky
Mussulman
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Mutazilite
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Mylitta
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Nanga Parbat
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Nansen bottle
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Ne Win
Neanderthal
Neanderthal man
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Nebo
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Neckar
Necker
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Negress
Negrillo
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New Forest
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Nightingale
Nihon
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Nikko
Nile
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Nilotic
Nilsson
Nimitz
Nimrod
Nimwegen
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Nineveh
Ningal
Ningpo
Ningsia
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Niobe
Nip
Nipissing
Nippon
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Nisan
Nissen hut
Niue
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Nizhni Novgorod
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Njord
Nkrumah
No
Noachian
Noah
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Nobel prize
Noel
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Noguchi
Noh
Nolde
Nona
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Nor.
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Norge
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Norse
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North
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North Borneo
North Brabant
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North Star
North Vietnam
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Northamptonshire
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Northeast
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Nusku
Nut
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O
O'Casey
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O'Higgins
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O. Henry
O.B.
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OAO
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Omar Khayyam
Omdurman
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Toledo
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Tom Collins
Tom Thumb
Tom and Jerry
Tombouctou
Tommy
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Tomsk
Tonga
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Tonle Sap
Toowoomba
Topeka
Tophet
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Tyrr
Tyrrenian Sea
Tyumen
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U Thant
U bolt
U-boat
U-turn
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U.A.R.
U.C.
U.K.
U.S.
U.S.A.
U.S.S.
U.V.
UAM
UFO
UHF
UN
UNESCO
UNICEF
UPI
UPU
USA
USIA
USM
USN
Ubangi
Ubangi-Shari
Ubiquitarian
Ucayali
Udall
Udine
Ufa
Uganda
Ugaritic
Ugrian
Ugric
Uhland
Uigur
Uinta Mountains
Ujiji
Ukr.
Ukrainian
Ulbricht
Ulm
Ulpian
Ulster
Ulyanovsk
Ulysses
Umayyad
Umbria
Umbrian
Unamuno
Uncle Sam
Unfederated Malay States
Ungava
Uniat
Union
Unit.
Unitarian
Unitarianism
United Arab Republic
United Arab States
United Kingdom
United Nations
United Press International
United Provinces
United States
United States Navy
United States of America
Univ.
Universal Postal Union
Universalism
Unknown Soldier
Unterwalden
Upanishad
Upolu
Upper Austria
Upper Egypt
Upper Silesia
Upper Tunguska
Upper Volta
V-E Day
V-J Day
V-mail
V-shaped
V-type engine
V.
V. Rev.
V.A.
V.C.
V.I.
V.P.
V.R.
V.W.
VAR
VAT
VC
VD
VHF
VIP
VISTA
VLF
VTOL
Va.
Vaal
Vaasa
Vaduz
Vaishnava
Vaisya
Valais
Valdai Hills
Valdemar I
Valence
Valencia
Valenciennes
Valentine
Valentinian I
Valentino
Valera
Valkyrie
Valladolid
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaíso
Van
Van Allen belt
Van Buren
Van Diemen's Land
Van Dyck
Van Gogh
Vance
Vancouver
Vandal
Vanderbilt
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
Vane
Vanir
Vanity Fair
Vanua Levu
Var
Varanasi
Vardar
Vardhamana
Varese
Vargas
Varietyper
Varro
Varuna
Vasco da Gama
Vaseline
Vashti
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Vauban
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Vaughan
Vaughan Williams
Veda
Vedanta
Vedda
Vedic
Vega
Veii
Vela
Ven.
Venetia
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Venetian blind
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Venetic
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Venezia Tridentina
Venezuela
Venice
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Venn diagram
Ventris
Venturi tube
Venus
Venus's flower basket
Venus's looking-glass
Venus's-flytrap
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Venusberg
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Veracruz
Vercelli
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Verde
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Vermeer
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Vernoleninsk
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Veronese
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Vertumnus
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Verwoerd
Vespasian
Vesper
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Vesta
Vesuvius
Veterans Administration
Veterans Day
Viborg
Vic.
Vicar of Christ
West Hartlepool
West Irian
West Pakistan
West Point
West Prussia
West Sussex
West Virginia
Western
Western Australia
Western Church
Western Hemisphere
Western Ocean
Western Roman Empire
Western Samoa
Westfalen
Westminster
Westminster Abbey
Westmorland
Westphalia
Wetterhorn
Wexford
Weymouth
Wheatstone bridge
Whig
Whiggism
Whistler
Whit
Whitaker
White House
White Mountains
White Nile
White Russia
White Russian
White Sea
White Volta
Whitechapel
Whitehall
Whitehead
Whitehorse
Whitney
Whitsun
Whitsunday
Whitsuntide
Whittington
Whittle
Whyalla
Wichita
Wick
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Wismar
Wittenberg
Wittgenstein
Witwatersrand
Wobbly
Woden
Wolf
Wolfe
Wolff
Wolfram von Eschenbach
Wollongong
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Wolsey
Wolverhampton
Wood
Woodbridge
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Woolf
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Wordsworth
World Bank
World Court
World Health Organization
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Wotan
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Wrens
Wright
Wuhan
Wuhlsien
Wuhu
Wulfila
Wundt
Wyandotte
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Wycliffite
Wye
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Wyo.
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X
X chromosome
XL
XP
Xanthippe
Xanthus
Xavier
Xe
Xenocrates
Xenophon
Xeres
Xerox
Xerxes I
Xhosa
Ximenes
Xmas
Xn.
Xnty.
Xt.
Xuthus
Y
Y chromosome
Y.
Y.M.C.A.
Y.M.H.A.
Y.T.
Y.W.C.A.
Y.W.H.A.
YHVH
Yahata
Yahrzeit
Yahweh
Yahwistic
Yajur-Veda
Yakut
Yakutsk
Yalta
Yalu
Yama
Yamashita
Yang
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Yanina
Yank
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Yap
Yarkand
Yarmouth
Yaroslavl
Yawata
Yb
Yeisk
Yellow River
Yellowknife
Yellowstone
Yellowstone Falls
Yellowstone National Park
Yemen
Yenisei
Yentai
Yerevan
Yezd
Ygerne
Yggdrasil
Yiddish
Yin and Yang
Yingkow
Ymir
Yoga
Yokohama
Yom Kippur
Yonkers
Yonne
Yorkist
Yorkshire
Yorkshire pudding
Yorkshire terrier
Yorktown
Yoruba
Yosemite Falls
Young
Young Pretender
Young Turk
Young's modulus
Youngstown
Ypres
Ypsilanti
Yser
Yseult
Yt
Yugo.
Yugoslav
Yugoslavia
Yukaghir
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Z
Zabrze
Zacatecas
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Zama
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Zamora
Zante
Zapata
Zaporozhye
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Zebedee
Zebulun
Zech.
Zechariah
Zeebrugge
Zeeland
Zeeman effect
Zeist
Zeitgeist
Zen
Zend-Avesta
Zeno of Citium
Zeno of Elea
Zenobia
Zeph.
Zephaniah
Zephyrus
Zeppelin
Zermatt
Zetland
Zeus
Zeuxis
Zhdanov
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Zinfandel
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Zlatoust
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Zollverein
Zomba
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Zoroaster
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Zulu
Zuyder Zee
Zweig
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Zwinglian
Zwolle
Zworykin
Zyrian
a
a cappella
a capriccio
a fortiori
a la carte
a la mode
a posteriori
a priori
a tempo
a'
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a.c.
a.f.
a.m.
a.p.
a.r.
a.w.
aa
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aardvark
aardwolf
ab initio
ab origine
ab ovo
ab urbe condita
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abaft
abalone
abamp
abampere
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abhenry
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able-bodied
able-bodied seaman
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abnormity
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aborticide
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abortion
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abortive
aboulia
abound
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about ship
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abraxas
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abroach
abroad
abrogate
abrupt
abruption
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abseil
absence
absence of mind
absence without leave
absent
absent without leave
absent-minded
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absentee ballot
absentee landlord
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absently
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absolute alcohol
absolute altitude
absolute ceiling
absolute humidity
absolute idealism
absolute magnitude
absolute majority
absolute monarchy
absolute music
absolute pitch
absolute temperature
absolute value
absolute zero
absolutely
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absonant
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abyss
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acacia
academe
academia
academic
academic freedom
academic year
academician
academicism
academy
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acanthoid
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acanthous
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acescent
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acetate rayon
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acetic acid
acetic anhydride
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achievement age
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achlorhydria
achondrite
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acorn barnacle
acorn squash
acorn worm
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acotyledon
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acoustic nerve
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acrophobia
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across-the-board
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acroter
acrotion
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acrylic resin
acrylonitrile
acrylyl
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act curtain
act of God
act of faith
act of war
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act out
act up
actable
actg.
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acting area
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actinic ray
actinide series
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actinism
actinium
actinium series
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actinolite
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actinomycete
actinomycin
ad libitum
ad litem
ad nauseam
ad rem
ad val.
ad valorem
ad-
ad-lib
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adamantine
adamsite
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adapter
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addendum
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adder's-mouth
adder's-tongue
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addressee
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adjutant general
adjuvant
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aerial ladder
aerial mine
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aerial torpedo
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agate line
agateware
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age of discretion
age-old
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agent provocateur
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agger
aggiornamento
agglomerate
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agglutinate
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aggrandize
aggravate
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agrapha
agraphia
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agronomics
agronomy
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ahem
ahimsa
ahoy
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aide-de-camp
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aigrette
aiguille
aiguillette
aikido
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aileron
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alewife
alexandrite
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algebraist
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algolagnia
algology
algometer
algophobie
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alienor
aliform
alight
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alignment
alike
aliment
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alimentary canal
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aliquant
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alkali flat
alkali metal
alkali soil
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alkalosis
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alkanet
alkene
alkyd
alkyd resin
alkyl
alkylation
alkyne
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all clear
all fours
all hail
all in
all right
all-
all-American
all-around
all-embracing
all-fired
all-important
all-inclusive
all-night
all-out
all-powerful
all-purpose
all-round
all-star
all-time
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alla prima
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allantoid
allantois
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allies
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alligator pear
alligator wrench
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allodium
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allometry
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allomorphism
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allonym
allopath
allopathy
allopatric
allophane
allophone
alloplasm
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allotment
allo trope
allo tropy
allottee
allover
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allowable
allowance
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alloy steel
allseed
allspice
allude
allure
allurement
alluring
allusion
allusive
alluvial
alluvial fan
alluvion
alluvium
ally
allyl
allyl alcohol
allyl resin
alma mater
almanac
almandine
almemar
almighty
almond
almond oil
almond-eyed
almoner
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au pair
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automatic rifle
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automatic transmission
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azeotrope
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azimuth
azimuthal circle
azimuthal equidistant projection
azimuthal projection
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babirusa
baboon
babu
babul
babushka
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baby bond
baby carriage
baby grand
baby spot
baby talk
baby tooth
baby's-breath
baby-blue-eyes
baby-sit
baby-sitter
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badlands
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bagpipes
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bagworm
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	bait
	baize
	bake
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	baked beans
	bakehouse
	baker
	baker's dozen
	bakery
	baking
	baking powder
	baking soda
	baklava
	baksheesh
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	bal.
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	balance
	balance lug
	balance of payments
	balance of power
	balance of trade
	balance rudder
	balance sheet
	balance spring
	balance wheel
	balanced
	balancer

talas
	balata

talboa

talbriggen
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	bald
	bald cypress
	bald eagle
	baldrachin
balderdash
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baldpate
baldric
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baler
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balky
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ball and chain
ball bearing
ball boy
ball cock
ball game
ball lightning
ball mill
ball of fire
ball valve
ball-and-socket joint
ball-peen hammer
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ballad stanza
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balladmonger
balladry
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ballata
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ballet
ballflower
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ballistic missile
ballistics
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ballonet
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balloon sail
balloon tire
balloon vine
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ballot box
ballottement
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ballyhoo
ballyrag
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balsam fir
balsam poplar
balsam spruce
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balsaminaceous
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balustrade
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banal
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banana republic
banana split
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band shell
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bank examiner
bank holiday
bank indicator
bank loan
bank manager
bank note
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bank rate
bank statement
bank swallow
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bankroll
bankrupt
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baptism of fire
baptismal regeneration
baptistery
baptistry
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bar graph
bar line
bar magnet
bar mitzvah
bar sinister
bar.
barathea
barb
barbarian
barbaric
barbarism
barbarity
barbarize
barbarous
barbate
barbecue
barbecue sauce
barbed
barbed wire
barbel
barbell
barbellate
barber
barber chair
barber's itch
barberry
barbershop
barbet
barbette
barbican
barbicel
barbital
barbitone
barbiturate
barbituric acid
barbiturism
barbule
barbwire
barcarole
barchan
bard
barde
bare
bare-handed
bareback
barefaced
barefoot
barehanded
bareheaded
barely
baresark
barefly
bargain
bargain for
bargain-basement
barge
barge couple
barge course
bargeboard
bargello
bargeman
barghest
baric
barilla
barit.
barite
baritone
barium
barium hydroxide
barium oxide
barium sulfate
bark
bark beetle
barkeeper
barkentine
barker
barking deer
barley
barley sugar
barley water
barleycorn
barm
barmaid
barman
barmy
barn
barn dance
barn owl
barn swallow
barnacle
barnacle goose
barney
barnstorm
barnyard
baro-
barogram
barograph
barometer
barometric pressure
barometrograph
barometry
baron
baron of beef
baronage
baroness
baronet
baronetage
baronetcy
barong
baronial
barony
baroque
baroque organ
baroscope
barouche
barque
barquentine
barrack
barracks
barracks bag
barracoon
barracuda
barrage
barrage balloon
barramunda
barranca
barrator
barratry
barre
barred
barrel
barrel chair
barrel organ
barrel roll
barrel vault
barrel-chested
barrelhouse
barren
barrens
barret
barrette
barretter
barricade
beam-power tube
beaming
beamy
bean
bean caper
bean sprout
bean tree
beanery
beanfeast
beanie
beano
beanpole
beanstalk
bear
bear down
bear garden
bear hug
bear off
bear on
bear out
bear up
bear with
bear's-ear
bear's-foot
bearable
bearberry
bearcat
beard
bearded
bearded darnel
bearded lizard
bearded tit
bearded vulture
beardless
bearer
bearing
bearing plate
bearing rein
bearish
bearskin
bearwood
beast
beast of burden
beastings
beastly
beat
beat down
beat up
bed jacket
bed linen
bed of roses
bedabble
bedaub
bedazzle
bedbug
bedchamber
bedclothes
bedcover
bedder
bedding
bedeck
bedel
bedesman
bedevil
bedew
bedfast
bedfellow
bedlight
bedim
bedizen
bedlam
bedlamite
bedmate
bedpan
bedplate
bedpost
bedrabbles
bedraggle
bedraggled
bedrail
bedridden
bedrock
bedroll
bedroom
bedside
bedsore
bedspread
bedspring
bedstead
bedstraw
bedtime
bedtime story
bedwarmer
bee
bee beetle
bee fly
bee glue
bee killer
bee moth
bee plant
bee tree
bee-eater
beebread
beech
beech fern
beechnut
beef
beef cattle
beef extract
beef tea
beef-witted
beefburger
beefcake
beefeater
beefsteak
beefwood
beefy
beehive
beekeeper
beekeeping
beeline
been
beep
beer
beer and skittles
beer garden
beer pump
beery
beestings
beeswax
beeswing
beet
beet sugar
beetle
beetle-browed
beetroot
bees
beezer
befall
befit
befitting
befog
befool
before
bellows
bellows fish
bells of Ireland
bellwether
bellwort
belly
belly dance
belly flop
belly landing
belly laugh
bellyache
bellyband
bellybutton
bellyful
belomancy
belong
belonging
belongings
beloved
below
belt
belted
belting
beluga
belvedere
bema
bemean
bemire
bemoan
bemock
bemuse
bemused
ben
ben trovato
bename
bench
bench mark
bench warrant
bencher
bend
bend sinister
bender
bendwise
bendy
beneath
benedicite
benedict
benediction
benefaction
benefactor
benefactress
benefic
benefice
beneficence
beneficent
beneficial
beneficiary
benefit
benefit of clergy
benempt
benevolence
benevolent
bengaline
benighted
benign
benignant
benignity
benison
benjamin
benne
bennet
benny
bent
bent grass
benthos
bentonite
bentwood
benumb
benzaldehyde
benzene
benzene hexachloride
benzene ring
benzidine
benzine
benzo-
benzoate
benzoate of soda
benzocaine
benzofuran
benzoic
benzoic acid
benzoin
benzol
benzophenone
benzoyl
benzoyl peroxide
benzyl
bequeath
bequest
berate
berberidaceous
berberine
berceuse
bereave
bereft
beret
berg
berg wind
bergamot
bergschrund
beriberi
berkelium
berley
berlin
berm
berretta
berry
bersagliere
berseem
berserk
berserker
berth
bertha
bery
beryl
beryllium
beseech
beseem
beset
besetting
beshrew
beside
besides
besiege
beslobber
besmear
besmirch
besom
besot
besotted
besought
bespangle
bespatter
bespeak
bespectacled
biblio-
biblioclast
bibliofilm
bibliog.
bibliography
bibliographer
bibliography
bibliolatry
bibliology
bibliomancy
bibliomania
bibliopagery
bibliophobia
bibliophile
bibliopole
bibliothaph
bibliotheca
bibliotherapy
bibulous
bicameral
bicapsular
bicarb
bicarbonate
bicarbonate of soda
bice
bicentenary
bicentennial
bicephalous
biceps
bichloride
bichloride of mercury
bichromate
bicipital
bicker
bickering
bicollateral
bicorner
biconcave
biconvex
bicorn
bicuspis
bicuspis
bicycle
bicycle pump
bicycle race
bicyclic
bid
bid price
bid up
bill of sale
billabong
billboard
billbug
billet
billet-doux
billfish
billfold
billhead
billhook
billiard
billiard ball
billiard parlor
billiard table
billiards
billing
billingsgate
billion
billionaire
billon
billow
billowy
billposter
billy
billy club
billy goat
billycock
bilobate
bilocular
biltong
bimah
bimanous
bimbo
bimestrial
bimetallic
bimetalism
bimolecular
bimonthly
bin
bin-
ninal
binary
binary code
binary digit
binary fission
binary form
binary star
binary system
binate
binaural
bind
bind over
binder
bindery
binding
binding energy
bindle
bindweed
bine
binge
binghi
bingle
bingo
binnacle
binocular
binoculares
binomial
binomial distribution
binomial nomenclature
binomial theorem
binominal
binturong
binucleate
bio-
bioastronautics
biocatalyst
biocellate
biochemical oxygen demand
biochemistry
bioclimatología
biodegradable
biodynamics
bioecología
bioenergetic
biofeedback
biog.
biogen
biogenesis
biogeochemistry
biogeography
biographer
biographical
biography
biol.
biological
biological clock
biological warfare
biologist
biology
bioluminescence
biolysis
biomass
biome
biomedicine
biometrics
biometry
bionics
bionomics
biophysics
bioplasm
biopsy
bioscope
bioscopy
biosphere
biostatics
biosynthesis
biota
biotechnology
biotic
biotin
biotite
biotope
biotype
bipack
biparietal
biparous
bipartisan
bipartite
biparty
biped
bipetalous
biphenyl
bipinnate
biplane
bipod
bipolar
bipropellant
biquadrate
biquadratic
biquarterly
biracial
biradial
biramous
birch
birch beer
bird
bird call
bird cherry
bird dog
bird of paradise
bird of passage
bird of prey
bird pepper
bird shot
bird's-eye
bird's-foot
bird's-foot trefoil
bird's-nest fungus
bird-dog
bird-watcher
birdbath
birdcage
birdhouse
birdie
birdlike
birdlime
birdman
birdseed
birefringence
bireme
biretta
birl
birr
birth
birth certificate
birth control
birth rate
birthday
birthday suit
birthmark
birthplace
birthright
birthroot
birthstone
birthwort
bis
biscuit
bise
bisect
bisector
bisectrix
biserrate
bisexual
bishop
bishop's-cap
bishopsric
bisk
bismuth
bismuthic
bismuthinite
bismuthous
bison
bisque
bissextile
bister
bistort
bistoury
bistre
bistro
bisulcate
bisulfate
bit
bit part
bitartrate
bitch
bitchy
bite
biting
biting midge
bitstock
bitt
bitten
bitter
bitter apple
bitter end
bitter orange
bitter principle
bitterling
bittern
bitternut
bitterroot
bitters
bittersweet
bitterweed
bitty
bitumen
bituminize
bituminous
bituminous coal
bivalent
bivalve
bivouac
biweekly
biennial
biz
bizarre
bk.
bkey.
bkg.
bks.
bl.
blab
blabber
blabbermouth
black
black and white
black art
black bass
black bear
black belt
black bile
black bindweed
black body
black book
black bottom
black box
black bread
black buck
black diamond
black eye
black flag
black fly
black fox
black frost
black gang
black grouse
black guillemot
black hole
black horehound
black knot
black lead
black letter
black light
black magic
black mark
black market
black marketeer
black measles
black mustard
black nightshade
black opal
black pepper
black powder
black power
black pudding
black quarter
black rat
black rot
black rust
black sea bass
black sheep
black spot
black spruce
black tea
black tie
black velvet
black vomit
black walnut
black whale
black widow
black-and-blue
black-and-white
black-backed gull
black-eyed Susan
black-eyed pea
black-market
black-marketeer
blackamoor
blackball
blackberry
blackbird
blackboard
blackcap
blackcock
blackdamp
blacken
blackface
blackfellow
blackfish
blackguard
blackguardly
blackhead
blackheart
blackening
blackjack
blackleg
blacklist  
blackmail  
blackness  
blackout  
blackpoll  
blacksmithe  
blacksnake  
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blacktail  
blackthorn  
blacktop  
blackwater fever  
bladder  
bladder campion  
bladder ketmia  
bladder worm  
bladdernose  
bladdernut  
bladderwort  
blade  
blaeberry  
blague  
blah  
blain  
blamable  
blame  
blamed  
blameful  
blameless  
blameworthy  
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blancmange  
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blandishment  
blandishments  
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blank cartridge  
blank check  
blank endorsement  
blank verse  
blank wall  
blankbook  
blanket  
blanket stitch  
blanketing  
blankety-blank
blankly
blare
blarney
blaspheme
blasphemous
blasphemy
blast
blast furnace
blast lamp
blast off
blast-off
blasted
blastema
blasting
blasto-
blastocoel
blastocyst
blastoderm
blastogenesis
blastomere
blastopore
blastosphere
blastula
blat
blatant
blate
blather
blatherskite
blaubok
blaze
blazer
blazing star
blazon
blazonry
bldg.
bleach
bleacher
bleachers
bleaching powder
bleak
blear
blear-eyed
bleary
bleary-eyed
bleat
bleb
bleed
bleeder
bleeder's disease
bleeding
bleeding heart
blemish
blench
blend
blende
blended whiskey
blender
blennioid
blenny
blent
blepharitis
blesbok
bless
blessed
blessing
blest
blether
blew
blight
blighter
blimey
blimp
blind
blind alley
blind date
blind gut
blind pig
blind snake
blind spot
blind staggers
blind tiger
blindage
blinders
blindfish
blindfold
blinding
blindly
blindman's buff
blindstory
blindworm
blink
blinker
blinkers
blinking
blintz
blintze
bloomers
bloomery
blooming
bloomy
blooper
blossom
blot
blotch
blotchy
blotter
blotting paper
blotto
blouse
blouson
blow
blow off
blow out
blow over
blow up
blow-by-blow
blower
blowfish
blowfly
blowgun
blowhard
blowhole
blowing
blown
blowout
blowpipe
blowsy
blowtorch
blowtube
blowup
blowy
blowzed
blowzy
blub
blubber
blubberhead
blubbery
blucher
bludge
bludgeon
blue
blue baby
blue blood
blue book
blue cheese
blue chip
blue crab
blue devils
blue fox
blue grouse
blue gum
blue jay
blue jeans
blue laws
blue mold
blue note
blue ointment
blue peter
blue point
blue racer
blue ribbon
blue shark
blue spruce
blue vitriol
blue whale
blue-collar
blue-eyed Mary
blue-eyed grass
blue-green
blue-green algae
blue-pencil
blue-ribbon jury
blue-sky law
bluebell
blueberry
bluebill
bluebird
bluebonnet
bluebottle
bluecoat
bluefish
bluegill
bluegrass
blueing
bluejacket
blueness
bluenose
bluepoint
blueprint
blues
bluestocking
bluestone
bologna
bolometer
boloney
bolster
bolt
bolter
boltonia
boltrope
bolus
bomb
bomb bay
bomb ketch
bomb rack
bomb shelter
bombacaceous
bombard
bombardier
bombardon
bombast
bombastic
bombazine
bombe
bomber
bombproof
bombshell
bombsight
bombycid
bon mot
bon ton
bon vivant
bon voyage
bona fide
bona fides
bonanza
bonbon
bond
bond paper
bondage
bonded
bonded warehouse
bondholder
bondmaid
bondman
bondsman
bondstone
bondswoman
bondwoman
bone
bone ash
bone china
bone meal
bone of contention
bone oil
bone-dry
boneblack
bonefish
bonehead
boner
boneset
bonesetter
boneyard
bonfire
bongo
bonhomie
bonito
bonkers
bonne
bonne bouche
bonne foi
bonnet
bonnet monkey
bonnet rouge
bonny
bonyclabber
bonsai
bonspiel
bontebok
bonus
bony
bony labyrinth
bonze
bonzer
boo
boo-boo
boob
booby
booby hatch
booby prize
booby trap
boodle
boogeyman
boogie
boogie-woogie
boohoo
book
book club
booster shot
boot
boot tree
bootblack
booted
bootee
bootery
booth
bootie
bootjack
bootlace
bootleg
bootless
boottick
boots
boots and saddles
bootstrap
booty
booze
boozer
boozy
bop
bor.
bora
boracic
boracite
borage
boraginaceous
borak
borate
borax
borborygmus
bordello
border
border line
bordereau
borderer
borderland
borderline
bordure
bore
boreal
borecole
boredom
borehole
borer
boresome
boric
botfly
both
bother
botheration
bothersome
bothy
botryoidal
bots
bott
bottle
bottle glass
bottle green
bottle party
bottle tree
bottle up
bottleneck
bottom
bottom drawer
bottomless
bottommost
bottomry
bottoms up!
botulin
botulinus
botulism
boudoir
bouffant
bouffe
bough
boughpot
bought
boughten
bougie
bouillabaisse
bouilli
bouillon
boulder
boulder clay
boule
boulevard
boulevardier
bouleversement
bounce
bounce back
bouncer
bouncing
bouncing Bet
bouncy
bowknot
bowl
bowl over
bowlder
bowleg
bowler
bowline
bowling
bowling alley
bowling crease
bowling green
bowls
bowman
bowse
bowshot
bowsprit
bowstring
bowstring hemp
bowyer
box
box calf
box camera
box canyon
box coat
box elder
box girder
box kite
box office
box pleat
box seat
box spring
box turtle
box wrench
boxberry
boxboard
boxcar
boxer
boxfish
boxhaul
boxing
boxing glove
boxing ring
boxthorn
boxwood
boy
boy scout
boyar
boycott
brain
c brain coral
c brain drain
c brain fever
c brain stem
c brain wave
brainchild
brainless
brainpan
brainsick
brainstorm
brainstorming
brainwash
brainwashing
brainwork
brainy
raise
brace
brace band
brace drum
brace horsepower
brace lining
brace parachute
brace shoe
brakeman
brakesman
bramble
brambling
brambly
bran
branch
branch line
branch out
branched chain
branchia
branching
branchiopod
brand
brand-new
brandish
brandling
brandy
branks
branle
branny
brant
brash
brashy
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadroot
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
break of day
break out
break through
break up
breakable
breakage
breakaway
breakbone fever
breakdown
breaker
breakfast
breakfast food
breakfront
breaking
breaking and entering
breakneck
breakout
breakthrough
breakup
breakwater
bream
breast
breast drill
breast-beating
breast-feed
breastbone
breastpin
breastplate
breaststroke
breastsummer
breastwork
breath
breathe
briarroot
briarwood
bribe
bribery
bric-a-brac
brick
brick cheese
brick red
brickbat
brickkiln
bricklayer
bricklaying
brickle
brickwork
bricky
brickyard
bricole
bridal
bridal wreath
bride
bride price
bridegroom
bridesmaid
bridewell
bridge
bridge deck
bridge lamp
bridgeboard
bridgehead
bridgework
bridging
bridle
bridle path
bridlewise
bridoon
brief
briefcase
briefing
briefless
briefs
brier
brierroot
brierwood
brig
brigade
brigadier
brigadier general
brigand
brigandage
brigandine
brigantine
bright
brighten
brightness
brightwork
brill
brilliancy
brilliant
brilliantine
brim
brimful
brimmer
brimstone
brindle
brindled
brine
bring
bring about
bring down
bring forward
bring in
bring off
bring on
bring out
bring over
bring round
bring to
bring up
bringing-up
brink
brinkmanship
briny
brio
brioche
briolette
briony
briquet
briquette
brisance
brise-soleil
brisk
brisket
brisling
bristle
bristletail
bristling
brit
britches
britska
brittle
britzka
broach
broad
broad arrow
broad bean
broad gauge
broad jump
broad jumper
broad seal
broad-faced
broad-leaved
broad-minded
broad-spectrum
broadax
broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadcloth
broaden
broadleaf
broadloom
broadside
broadsword
brodtail
brocade
brocatel
broccoli
broch
brochette
brochure
brock
brocket
brogan
brogue
broider
brol
broiler
broke
broken
broken heart
broken wind
broken-down
brokenhearted
broker
brokerage
brolly
bromal
bromate
brome grass
bromeosin
bromic
bromic acid
bromide
bromide paper
bromidic
brominate
bromine
bromism
bromo-
bromoform
bronchi
bronchia
bronchial
bronchial pneumonia
bronchial tube
bronchiectasis
bronchiole
bronchitis
broncho-ronchopneumonia
bronchoscope
bronchus
bronco
broncobuster
bronze
brooch
brood
brooder
broody
brook
brook trout
brookite
brooklet
brooklime
brookweed
broom
broomcorn
broomrape
broomstick
brunet
brunette
brunt
brush
brush aside
brush discharge
brush off
brush turkey
brush up
brush-off
brushwood
brushwork
brusque
brusquerie
brut
brutal
brutality
brutalize
brute
brutify
brutish
bryology
bryony
bryophyte
bryozoan
btl.
btry.
bu.
bub
bubal
bubaline
bubble
bubble and squeak
bubble bath
bubble chamber
bubble dance
bubble gum
bubbler
bubbly
bubo
bubonic plague
bubonocele
buccal
buccaneer
buccinator
bucentaur
buck
buck and wing
buffalo robe
buffer
buffer state
buffet
buffet car
buffing wheel
buflehead
buffo
buffoon
bug
bugaboo
bugbane
bugbear
bugeye
bugger
buggery
buggy
bughouse
bugle
bugleweed
bugloss
bugs
buhl
buhr
buhrstone
build
build up
builder
builder's knot
building
building line
built
built-in
built-up
bul.
bulb
bulbar
bulbiferous
bulbil
bulbous
bulbul
bulge
bulimia
bulk
bulk modulus
bulkhead
bulky
bull
bumbledom
bumbling
bumboat
bumf
bunkin
bummalo
bummer
bump
bump into
bump off
bumper
bumppkin
bumptious
bumpy
bun
bunch
bunch grass
bunch light
bunchy
bunco
buncombe
bund
bundle
bundle of isoglosses
bundle up
bung
bungalow
bunghole
bungle
bunion
bunk
bunk bed
bunker
bunkhouse
bunkmate
bunko
bunkum
bunny
bunny hug
bunt
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bureaucrat
bureaucratic
bureaucratize
burette
burg
burgage
burger
burgass
burgh
burgher
burglar
burglar alarm
burglarious
burglarize
burglary
burgle
burgomaster
burgonet
burgoo
burgrave
burial
burial ground
burial mound
burier
burin
burka
burke
burl
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cat nap
cat rig
cat whisker
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cat-o'-mountain
cat-o'-nine-tails
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daughter-in-law
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de los Angeles
de novo
de profundis
de rigueur
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dead reckoning
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deadly nightshade
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death duty
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diving board
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dog clutch
dog collar
dog days
dog fennel
dog in the manger
dog paddle
dog rose
dog sled
dog tag
dog's-tail
dog's-tongue
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dog-eat-dog
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easy chair
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eau de Cologne
eau de Javelle
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ectophyte
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electron lens
electron microscope
electron multiplier
electron optics
electron telescope
electron tube
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exclamation point
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exclave
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exclusion principle
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excommunicative
excommunicatory
excoriate
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excrement
excruciate
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exculpate
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executioner
executive
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executive session
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father image
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fellow feeling
fellow traveler
fellowman
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field battery
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field event
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field gun
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field marshal
field mouse
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field of view
field of vision
field officer
field spaniel
field trial
field trip
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fighting chance
fighting cock
fighting fish
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fille de joie
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filling station
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film library
film pack
film star
filmdom
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filter bed
filter paper
filter tip
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fine-grain
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fine-tooth comb
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finger wave
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fire beetle
fire blight
fire brigade
fire clay
fire company
fire control
fire department
fire drill
fire engine
fire escape
fire extinguisher
fire fighter
fire hydrant
fire insurance
fire irons
fire marshal
fire opal
fire power
fire red
fire resistance
fire sale
fire screen
fire ship
fire station
fire tower
fire trench
fire wall
fire-cure
fire-eater
fire-new
fire-resistant
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fireback
fireball
firebird
fireboard
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firebox
firebrand
firebrat
firebreak
firebrick
firebug
firecracker
firecrest
firedamp
firedog
firedrake
first offender
first officer
first person
first post
first principle
first quarter
first reading
first refusal
first sergeant
first string
first water
first-born
first-class
first-day cover
first-degree burn
first-foot
first-nighter
first-rate
firsthand
firstling
firstly
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fiscal
fiscal year
fish
fish and chips
fish cake
fish fry
fish hawk
fish joint
fish ladder
fish louse
fish meal
fish out
fishbolt
fishbowl
fisher
fisherman
fisherman's bend
fishery
fisheye lens
fishgig
fishhook
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fishing rod
fishing smack
fishing tackle
fishmonger
fishnet
fishplate
fishskin disease
fishtail
fishwife
fishworm
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five-star
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fivepenny
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fixed charge
fixed idea
fixed oil
fixed price
fixed satellite
fixed star
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flag officer
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flagellate
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flash gun
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flashing point
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flesh wound
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fleshpots
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flight arrow
flight deck
flight engineer
flight feather
flight formation
flight path
flight plan
flight recorder
flight simulator
flight strip
flight surgeon
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flocculus
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flood insurance
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flood plain
flood tide
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floor broker
floor lamp
floor leader
floor manager
floor plan
floor show
floor trader
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flooring saw
floorman
floorwalker
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florilegium
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floristic
floruit
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flos ferri
floss
flossy
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flotilla
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flotsam and jetsam
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flounder
flour
flour mill
flourish
flourishing
floury
flout
flow
flow chart
flow sheet
flowage
flower
flower girl
flower head
flower power
flower-de-luce
flowerage
flowered
flowerer
floweret
flowering
flowering maple
flowering moss
flowering plant
flowerless
flowerlike
flowerpot
flowery
flowing
flying bridge
flying buttress
flying circus
flying column
flying doctor
flying dragon
flying field
flying fish
flying fox
flying frog
flying gurnard
flying jib
flying jib boom
flying lemur
flying lizard
flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
flyte
flytrap
flyweight
flywheel
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foam rubber
foamflower
foamy
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fob off
focal
focal infection
focal length
focal plane
focal point
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food chain
food poisoning
foodstuff
foofaraw
fool
fool's cap
fool's errand
fool's gold
fool's paradise
fool's-parsley
foolery
foolhardy
foolish
foolproof
foolscap
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foot brake
foot fault
foot rot
foot rule
foot soldier
foot warmer
foot-and-mouth disease
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foot-lambert
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forefather
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foreign minister
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foreign service
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forensic psychiatry
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forequarter
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forest reserve
forestage
forestall
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foretoken
foretooth
foretop
forever
forevermore
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fortnightly
fortress
fortuitism
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fortuity
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fortune hunter
fortune-teller
fortuneteller
fortunetelling
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forty-four
forty-niner
fortyish
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forward delivery
forward pass
forward quotation
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forwarder
forwarding
forwardness
forwards
forwent
forwhy
forworn
forzando
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fosse
fossette
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foster child
foster home
foster sister
fosterage
fosterling
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fought
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foul shot
foul up
foul-mouthed
foul-up
foulard
foulmouthed
foulness
foumart
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foundation
foundation garment
foundation stone
founder
founders' shares
foundling
foundry
foundry proof
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fountain
fountain pen
fountainhead
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four flush
four-cycle
four-dimensional
four-eyed fish
four-flush
four-handed
four-in-hand
four-leaf clover
four-legged
four-letter word
four-o'clock
four-poster
four-way
four-wheeler
fourchette
fourflusher
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fragmentation
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frail
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frame line
frame of reference
frame-up
framework
framing
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franc-tireur
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frankpledge
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fraternal insurance
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fraudulent
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frazzled
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freak of nature
freak out
freakish
freaky
freckle
freckle-faced
freckly
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free agent
free alongside ship
free association
free balloon
free city
free coinage
free companion
free company
free energy
free enterprise
free fall
free form
free gold
free hand
free house
free list
free liver
free love
free on board
free port
free radical
free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
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freedom rider
freedwoman
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freemasonry
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freer
freesia
freestanding
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freewill
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freezing mixture
freezing point
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freight ton
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frenulum
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frequency modulation
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freshen
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freshet
freshman
freshwater
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friction match
friction tape
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front room
front runner
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fruit knife
fruit salad
fruit sugar
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full blood
full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
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full-blown
full-bodied
full-faced
full-fledged
full-grown
full-length
full-mouthed
full-rigged
full-scale
full-time
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fulminate
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fulminous
fusome
fulvous
fumaric acid
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future perfect
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gamma iron
gamma radiation
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gene pool
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genera
generable
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general court-martial
general delivery
general election
general headquarters
general hospital
general linguistics
general of the army
general officer
general paralysis
general partner
general post office
general practitioner
general semantics
general sessions
general staff
general store
general strike
general theory of relativity
generalissimo
generalist
generality
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generalship
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generative grammar
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genetic code
geneticist
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gentlewoman
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geometric ratio
geometric series
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germ layer
germ plasm
germ theory
germ warfare
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giraffe
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glossopharyngeal nerve
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go-devil
go-getter
go-go dancer
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godwit
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goglet
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gold beetle
gold certificate
gold digger
gold dust
gold fever
gold foil
gold leaf
gold mine
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gold note
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gold point
gold reserve
gold rush
gold standard
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gold-of-pleasure
gold-plate
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goldbeater's skin
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golden chain
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golden goose
golden mean
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golden pheasant
golden plover
golden retriever
golden rule
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goldthread
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gonorhea
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goober
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good Joe
good Samaritan
good afternoon
good behavior
good cheer
good day
good egg
good evening
good faith
good fellow
good humor
good looks
good morning
good nature
good night
good offices
good sort
good turn
good use
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graham cracker
graham flour
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grain alcohol
grain elevator
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grainfield
grains of paradise
grainy
grallatorial
gram
grandfatherly
grandiloquence
grandiloquent
grandioso
grandma
grandmamma
grandmother
grandmotherly
grandnephew
grandniece
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grandpapa
grandparent
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grandson
grandstand
granduncle
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grantor
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gravity fault
gravity knife
gravity wind
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gray matter
gray wolf
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green pepper
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greenbelt
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greenheart
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groschen
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ground bass
ground beetle
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ground floor
ground glass
ground hog
ground ice
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ground loop
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ground plan
ground plate
ground plum
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ground rule
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ground state
ground stroke
ground swell
ground water
ground wave
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group practice
group therapy
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grow out of
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growth hormone
growth ring
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guard hair
guard ring
guard ship
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guardhouse
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guardianship
guardrail
guardroom
guardsman
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guayule
gubernatorial
guberniya
guck
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guelder-rose
guenon
guerdon
guereza
guerrilla
guess
guess-rope
guess-warp
guesstimate
guesswork
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guest rope
guesthouse
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guffaw
guggle
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guide dog
guide rope
guideboard
guidebook
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guided missile cruiser
guided wave
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guinea grass
guinea hen
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gulf
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gulosity
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gum arabic
gum benzoin
gum dammar
gum elastic
gum elemi
gum plant
gum resin
gum up
gumbo
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gumbotil
gumdrops
gumma
gummite
gummosis
gummosus
gummy
gumption
gumshoe
gumwood
gun
gun carriage
gun deck
gun dog
gun for
gun metal
gun moll
gun room
gun tackle
gun-shy
gunboat
guncotton
gunfight
gunfire
gunflint
gung ho
gunk
gunlock
gunmaker
gunman
gunnel
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gyrfalcon
gyro
gyro horizon
gyro-
gyrocompass
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gyromagnetic ratio
gyron
gyonny
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gyroscope
gyrose
gyrostabilizer
gyrostat
gyrostatic
gyrostatic compass
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lady's man
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lady's-smock
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lady-killer
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land grant
land measure
land mine
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land rail
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law of parsimony
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long-horned beetle
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long-lived
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long-range
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long-standing
long-sufferance
long-suffering
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love-in-idleness
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machine gun
machine language
machine pistol
machine screw
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machine tool
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magnetic bearing
magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
magnetic flux density
magnetic force
magnetic induction
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic pickup
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magnetic potential
magnetic quantum number
magnetic storm
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maid
maid of honor
maid-in-waiting
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maidenhair
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maidservant
maeutic
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mail car
mail order
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main
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maltose
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mama's boy
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mamelon
mamey
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mammal
mammalian
mammalogy
mammary
mammary gland
mammet
mammiferous
mammilla
mammillary
mammillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
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managed currency
management
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military law
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mother country
mother of vinegar
mother superior
mother tongue
mother wit
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mother-of-pearl
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natural science
natural selection
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nonprofit
nonrecognition
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nonresistance
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office boy
office hours
office seeker
office-block ballot
officeholder
officer
officer of the day
official
officialdom
officialese
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point group
point lace
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point of departure
point of honor
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postfix
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posthaste
posthumous
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postscript
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pot marigold
pot roast
pot shot
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powder burn
powder charge
powder flask
powder horn
powder keg
powder metallurgy
powder mill
powder monkey
powder puff
powder room
powder snow
powdered milk
powdery
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power brake
power dive
power drill
power line
power loading
power of appointment
power of attorney
power pack
power plant
power politics
power saw
power series
power station
power steering
power structure
power supply
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press conference
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public defender
public domain
public enemy
public house
public law
public opinion
public prosecutor
public relations
public school
public servant
public service
public utility
public works
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public-opinion poll
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putty knife
putty powder
puttyroot
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puzzlement
puzzler
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queen mother
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quick assets
quick bread
quick fire
quick grass
quick march
quick time
quick trick
quick-change artist
quick-freeze
quick-tempered
quick-witted
quicken
quickie
quicklime
quickly
quicksand
quicksilver
quickstep
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rabbit ears
rabbit fever
rabbit punch
rabbitfish
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race horse
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racecourse
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radiant heat
radiant heating
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radical axis
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radiculitis
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radio astronomy
radio beacon
radio beam
radio compass
radio control
radio direction finder
radio frequency
radio knife
radio range beacon
radio source
radio spectrum
radio star
radio station
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radium therapy
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rag doll
rag paper
rag-and-bone man
ragamuffin
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ragman
ragout
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ragtime
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ragwort
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railroader
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rain gauge
rain or shine
rain tree
rain water
rainband
rainbow
rainbow trout
raincoat
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rainfall
rainmaker
rainout
rainproof
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rainstorm
rainwater
rainy
rainy day
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raja
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rake up
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ready-made
ready-mix
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real estate
real number
real presence
real property
real wages
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rear-view mirror
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red algae
red ant
red blood cell
red brass
red carpet
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red clover
red coral
red corpuscle
red currant
red deer
red duster
red fir
red fire
red flag
red fox
red giant
red grouse
red gum
red hat
red heat
red herring
red lead
red light
red man
red meat
red mullet
red osier
red pepper
red rag
red rose
red shift
red snapper
red squirrel
red tape
red wine
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red-faced
red-handed
red-headed
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red-light district
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rice paper
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riding light
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right angle
right ascension
right away
right field
right hand
right of way
right off
right triangle
right whale
right wing
right-angled triangle
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right-hand man
right-handed
right-hander
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righteous
righteousness
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road hog
road metal
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robber fly
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robin
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robe-de-chambre
robin
robin’s-egg blue
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roboman
robosant
robot
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rochet
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root hair
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root position
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rosaniline
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rose
rose acacia
rose apple
rose beetle
rose campion
rose engine
rose geranium
rose mallow
rose moss
rose of Jericho
rose of Sharon
rose quartz
rose water
rose window
rose-water
roseate
rosebay
rosebud
rosefish
rosemary
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rouge et noir
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rough diamond
rough stuff
rough up
rough-and-ready
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rough-dry
rough-hew
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rundlet
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runner and tackle
runner bean
runner-up
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running board
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running head
running knot
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running mate
running rigging
running start
running stitch
running title
runny
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runt
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runway
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rupture
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rural dean
rural district
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s.p.
sabadilla
sabayon
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sabbatical year
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saber-toothed tiger
sabin
sable
sable antelope
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saboteur
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sabulous
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sal ammoniac
sal soda
sal volatile
salaam
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salad days
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salami
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salep
saleratus
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sales promotion
sales resistance
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sales tax
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sallet
sallow
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salmagundi
salmi
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salt cake
salt dome
salt flat
salt lick
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salt pork
salt water
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saltarello
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salter
saltern
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saltire
saltish
sanctitude
sanctity
sanctuary
sanctum
sanctum sanctorum
sand
sand castle
sand crack
sand dab
sand dollar
sand flea
sand hopper
sand lance
sand lizard
sand martin
sand painting
sand trap
sand-blind
sandal
sandalwood
sandarac
sandbag
sandbank
sandblast
sandbox
sandbox tree
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sanderling
sandfly
sandglass
sandhi
sandhog
sandman
sandpaper
sandpiper
sandpit
sandstone
sandstorm
sandwich
sandwich board
sandwich man
sandy
sandy blight
sane
sang
sang-froid
sangria
sanguinaria
sanguinary
sanguine
sanguineous
sanguinolent
saries
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sanitary engineering
sanitary towel
sanitation
sanitize
sanity
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sans
sans pareil
sans serif
sans souci
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saporous
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sapwood
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sarangi
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sarmentose
sarmentum
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sash weight
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sastruga
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satang
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sateen
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satiety
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satin stitch
satinet
satinwood
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satisfactory
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satisfy
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satrap
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saturation point
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saturnine
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satyr play
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saucepan
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saucy
sauerbraten
sauerkraut
sauger
sauna
saunter
saurel
saurian
saurischian
sauropod
saury
sausage
saut de basque
sauterne
sauve qui peut
savage
savigery
savigism
savanna
savant
savarin
savate
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save-all
saveloy
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savings account
savings and loan association
savings bank
savior
saviour
savoir-faire
savoir-vivre
savor
savory
savour
savoury
savoy
saw
saw palmetto
saw-toothed
sawbuck
sawdust
sawfish
sawfly
sawhorse
sawmill
sawn
sawyer
sax
saxhorn
saxophone
saxtuba
say
saying
sayyid
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scabble
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scabies
scabious
scabrous
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scalar product
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scald
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scale insect
scale moss
scaleboard
scalene
scalenus
scaler
scallion
scallop
scarlet fever
scarlet hat
scarlet letter
scarlet pimpernel
scarlet runner
scarlet tanager
scarlet woman
scarp
scarper
scary
scat
scat singing
scathe
scathing
scatology
scatter
scatter pin
scatter rug
scatterbrain
scattering
scaup duck
scauper
scavenge
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scenario
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scend
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scene dock
scenery
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scenography
scent
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sceptic
sceptre
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schedule
scheelite
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schematic
schematism
schematize
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scheming
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schistosomiasis
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schizogenesis
schizogony
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schizomycete
schizont
schizophrenia
schizophyceous
schizopod
schizothymia
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schlep
schlieren
schlieren photography
schlimazel
schlock
schmaltz
schmaltzy
schmo
schmooze
schmuck
schnapps
schnauzer
schnitzel
schnook
schnorkle
schnorrer
schnozzle
schola cantorum
scholar
scholarship
scholastic
scholasticate
scholasticism
scholiast
scholium
school
school age
school board
school year
scirrhus
scissel
scissile
scission
scissor
scissors
scissors kick
scissors truss
scissure
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scoot
scooter
scop
scope
scopolamine
scopoline
scopophilia
scopula
scorbutic
scorch
scrip dividend
script
scriptorium
scriptural
scripture
scriptwriter
scrivener
scrobiculate
scrod
scrofula
scrofulous
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scroll saw
scroop
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scrotum
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scrub typhus
scrubber
scrubby
scrubland
scruff
scruffy
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scrumptious
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scrutineer
scrutinize
scrutiny
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scud
scudo
scuff
scuffle
scull
scullery
scullion
sculp.
sculpin
sculpsit
sculpt
sculptor
sea devil
sea dog
sea duck
sea eagle
sea elephant
sea fan
sea foam
sea green
sea gull
sea heath
sea holly
sea horse
sea king
sea ladder
sea lavender
sea lawyer
sea legs
sea lettuce
sea level
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sea lion
sea mew
sea mile
sea milkwort
sea moss
sea onion
sea otter
sea perch
sea pink
sea power
sea purse
sea raven
sea robin
sea room
sea rover
sea serpent
sea shell
sea slug
sea snake
sea squill
sea squirt
sea swallow
sea tangle
sea trout
sea turtle
sea urchin
sea wrack
sea-island cotton
sea-maid
seaboard
seaborne
seacoast
seacock
seadog
seafarer
seafaring
seafood
seagirt
seagoing
seal
seal brown
seal ring
sealed
sealed book
sealed orders
sealer
sealing wax
sealskin
seam
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seamanlike
seamanship
seamark
seamount
seamstress
seamy
seaplane
seaport
sequake
sear
search
search party
search warrant
searching
searchlight
seascape
seashore
seasick
seasickness
seaside
season
seasonable
seasonal
seasoning
seat
seat belt
second-degree burn
second-guess
second-rate
secondary
secondary cell
secondary color
secondary emission
secondary school
secondary sex characteristic
secondary stress
secondary syphilis
secondhand
secondly
secrecy
secret
secret agent
secret partner
secret police
secret service
secret society
secretarial
secretariat
secretary
secretary bird
secretary of state
secretary-general
secrere
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secretion
secretive
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sect
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sectarian
sectarianism
sectarianize
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section mark
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secular
secularism
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select
selectee
selection
selective
selective service
selectivity
selectman
selector
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selenious
selenious acid
selenite
selenium
selenodont
selenography
self
self-
self-abasement
self-abnegation
self-absorbed
self-absorption
self-abuse
self-acting
self-addressed
self-aggrandizement
self-analysis
self-annihilation
self-appointed
self-assertion
self-assurance
self-assured
self-centered
self-command
self-conceit
self-confessed
self-confidence
self-congratulation
self-conscious
self-consequence
self-consistent
self-contained
self-content
self-contradiction
self-control
self-deceit
self-deception
self-defense
self-delusion
self-denial
self-deprecating
self-determination
self-devotion
self-discipline
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self-effacement
self-effacing
self-employed
self-esteem
self-evident
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self-excited
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self-existent
self-explanatory
self-expression
self-fertilization
self-forgetful
self-fulfillment
self-governed
self-government
self-gratification
self-help
self-hypnosis
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self-immolation
self-important
self-improvement
self-induced
self-inductance
self-induction
self-indulgent
self-insurance
self-interest
self-justifying
self-knowledge
self-liquidating
self-loading
self-love
self-made
self-mastery
self-mortification
self-moving
self-operating
self-opinionated
self-pity
self-pollination
self-possessed
self-possession
self-preservation
self-pronouncing
self-propelled
self-propulsion
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self-regulated
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self-reliance
self-reliant
self-renunciation
self-reproach
self-respect
self-restraint
self-revealing
self-righteous
self-rising
self-sacrifice
self-satisfaction
self-satisfied
self-sealing
self-seeker
self-seeking
self-service
self-sown
self-starter
self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
self-winding
selfheal
selfhood
selfish
selfless
selfness
selfsame
sell
sell off
semiotic
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semiporcelain
semipostal
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semiskilled
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semitrailer
semitropical
semivitreous
semivowel
semiweekly
semiyearly
semolina
semper fidelis
semper paratus
sempiternal
sempstress
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senarmontite
senary
senate
senator
senatorial
senatus consultum
send
send down
send-off
sendal
sender
senega
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seneschal
senhor
senhorita
senile
senility
senior
senior citizen
senior high school
seniority
senna
sennet
separates
separation
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separat
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sepia
sepoy
seppuku
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septet
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septicemia
septicemic plague
septicidal
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septillion
septimal
septime
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septuplet
septuplicate
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sepulchre
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sequential
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serotine
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serous membrane
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serpentine
serpigo
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serried
serriform
serrulate
serrulation
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serum albumin
serum globulin
serum hepatitis
serval
servant
serve
server
service
service book
service ceiling
service medal
service station
service stripe
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serviceberry
serviceman
servient tenement
serviette
servile
servility
serving
servitor
servitude
servo
servo system
servomechanical
servomechanism
settle in
settle with
settlement
settler
settling
settlings
setula
setup
seven
seven deadly sins
seven seas
seven-up
seven-year itch
sevenfold
seventeen
seventeen-year locust
seventeenth
seventh
seventh chord
seventh heaven
seventieth
seventy
sever
severable
several
severally
severalty
severance
severance pay
severe
severity
sew
sew up
sewage
sewan
sewellel
sewer
sewerage
sewing
sewing machine
sewn
sex
sex act
sex appeal
sex chromosome
sex hormone
sex-
sex-limited
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sexagenary
sexagesimal
sexcentenary
sexdecillion
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sexivalent
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sextan
sextant
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sexton
sextuple
sextuple time
sextuplet
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sexual intercourse
sexual reproduction
sexual selection
sexuality
sexy
sf
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sfumato
sgd.
sgraffito
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shabby-genteel
shack
shackle
shad
shadberry
shadbush
shadchan
shaddock
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shade tree
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shadoof
shadow
shadow play
shadowgraph
shadowy
shaduf
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shaft
shafting
shag
shagbark
shaggy
shaggy-dog story
shagreen
shah
shake
shake down
shake off
shake up
shake-up
shakedown
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shaking palsy
shako
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shale
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shall
shalloon
shallop
shallot
shallow
shalom aleichem
shalt
sham
shaman
shamanism
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shambles
shame
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shameful
shameless
shammer
shammy
shampoo
shamrock
shamus
shan't
shandydan
shandy
shanghai
shank
shanny
shantung
shanty
shape
shape up
shaped
shapeless
shapely
shard
share
sharecrop
sharecropper
shareholder
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sharp-eared
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sharp-eyed
sharp-freeze
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sharp-set
sharp-sighted
sharp-witted
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sharper
sharpie
sharpshooter
shashlik
shastra
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shatterproof
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shaw
shawl
shawl collar
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sheet bend
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sheet lightning
sheet metal
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sheikdom
sheikh
shekel
shelduck
shelf
shelf ice
shelf life
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shell bean
shell game
shell jacket
shell out
shell shock
shellac
shellacking
shellback
shellbark
shelled
shellfire
shellfish
shellproof
shelter
shelter deck
shelter tent
shelty
shelve
shelves
shelving
shend
shepherd
shepherd dog
shepherd's pie
shepherd's-purse
sherbet
sherd
sherif
sheriff
sherry
sheugh
shew
shibboleth
shied
shield
shield bug
shield fern
shier
shiest
shift
shift key
shiftless
shifty
shigella
shikari
shiksa
shill
shillelagh
shilling
shilling mark
shilly-shally
shimmer
shimmery
shimmy
shin
shinbone
shindig
shine
shiner
shingle
shingles
shingly
shinleaf
shinny
shiny
ship
ship biscuit
ship chandler
ship money
ship of the line
ship of war
ship's boat
ship's boy
ship's husband
ship's papers
ship-rigged
shipboard
shipentine
shipload
shoddy
shoe
shoe leather
shoebill
shoebill
shoeblack
shoelace
shoemaker
shoer
shoeshine
shoestring
shoefar
shogun
shogunate
shone
shoo
shoo-in
shook
shool
shoon
shoot
shoot down
shoot out
shoot up
shooter
shooting box
shooting brake
shooting gallery
shooting iron
shooting script
shooting star
shooting stick
shooting war
shop
shop assistant
shop steward
shophar
shopkeeper
shoplifter
shopper
shopping
shopping center
shopwindow
shopworn
shoran
shore
shore bird
shore leave
shore patrol
shoreless
shoreline
shoreward
shoring
shorn
short
short account
short circuit
short covering
short division
short hundredweight
short interest
short list
short shrift
short story
short subject
short ton
short-change
short-circuit
short-cut
short-lived
short-sighted
short-tempered
short-term
short-winded
shortage
shortbread
shortcake
shortcoming
shortcut
shorten
shortening
shortfall
shorthand
shorthanded
shorthorn
shortie
shortly
shorts
shortsighted
shortstop
shortwave
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shot glass
shot hole
shot put
shot tower
shot-putter
shut up
shut-in
shutdown
shutout
shutter
shuttering
shuttle
shuttlecock
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shyster
si
sialagogue
sialoid
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sib
sibilant
sibilate
sibling
sibship
sibyl
sic
sic passim
siccative
sick
sick headache
sick leave
sick list
sicken
sickener
sickening
sickle
sickle feather
sicklebill
sickly
sickness
sickroom
siddur
side
side arms
side chain
side dish
side drum
side effect
side horse
side meat
side step
side street
siftings
sig.
sigh
sight
sight bill
sight draft
sight-read
sight-seeing
sighted
sightless
sightly
sigil
siglos
sigma
sigmatism
sigmoid
sigmoid flexure
sign
sign away
sign in
sign language
sign manual
sign of the cross
sign on
sign up
signal
signal box
signal corps
signal-to-noise ratio
signalize
signally
signalman
signalment
signatory
signature
signature tune
signboard
signet
signet ring
significance
significancy
significant
signification
significative
significs
signify
signor
signora
sine curve
sine die
sine prole
sine qua non
sine wave
sinecure
sinew
sinewy
sinfonia
sinfonietta
sinful
sing
sing out
sing.
singe
singer
singing bird
single
single bond
single combat
single entry
single file
single quotes
single rhyme
single tax
single-action
single-breasted
single-cross
single-foot
single-handed
single-handedly
single-hearted
single-lens reflex
single-minded
single-phase
singleness
singles
singlestick
singlet
singleton
singletree
singly
singsong
singular
singularity
singularize
singultus
sindh
sinister
sinistrad
sinistral
sinistrality
sinistrocular
sinistrodextral
sinistrorse
sinistrous
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sink in
sinkage
sinker
sinkhole
sinking
sinking fund
sinless
sinner
sinter
sinuate
sinuation
sinuosity
sinuous
sinus
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sinusoidal projection
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siphon bottle
siphonophore
siphonostele
sipper
sippet
sir
sir-reverence
sirdar
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siren
sirenic
siriasis
sirloin
sirocco
sirrah
sirree
sirup
sis
sisal
siskin
sissified
sissy
sister
sister-in-law
sisterhood
sisterly
sit
sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
sitar
site
sitology
sitter
sitting
sitting duck
sitting room
situate
situated
situation
situation comedy
situla
situs
sitz bath
sitzmark
six
six-eight time
six-footer
six-gun
six-pack
sixfold
sixpence
sixpenny
sixteen
sixteenmo
sixteenth
sixteenth note
sixth
sixth chord
sixth sense
sixtieth
sixty
sixty-four
skipper
skippet
skirl
skirling
skirmish
skirr
skirret
skirt
skirting
skit
skite
skitter
skittish
skittle
skive
skiver
skivvy
skulduggery
skulk
skull
skull and crossbones
skullcap
skunk
skunk cabbage
sky
sky blue
sky pilot
sky wave
sky-high
skycap
skydive
skyjack
skylark
skylight
skyline
skyrocket
skysail
skyscape
skyscraper
skyscraper
skyward
skyway
skywriting
slab
slabber
slack
slack suit
slack water
slack-jawed
slacken
slacker
slacks
slug
slain
slake
slaked lime
slalom
slam
slam-bang
slander
slang
slangy
slant
slant rhyme
slantwise
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slap-bang
slap-up
slapdash
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slapjack
slapstick
slash
slash pocket
slashing
slat
slate
slater
slather
slating
slattern
slatternly
slaty
slaughter
slaughterhouse
slave
slave ant
slave driver
slave ship
slave-making ant
slaveholder
slaver
slavery
slavey
slavish
slavocracy
slaw
slay
sld.
sleave
sleazy
sled
sledge
sledgehammer
sleek
sleekit
sleep
sleep around
sleep with
sleeper
sleeping
sleeping bag
sleeping beauty
sleeping car
sleeping draught
sleeping partner
sleeping pill
sleeping sickness
sleepless
sleepwalk
sleepy
sleepyhead
sleet
sleety
sleeve
sleigh
sleight
sleight of hand
slender
slenderize
sleuth
sleuthhound
slew
slice
slice bar
slicer
slick
slickenside
slicker
slide
slide fastener
slide rule
slide trombone
slide valve
slide-action
slider
sliding
sliding scale
slier
sliest
slight
slighting
slightly
slily
slim
slime
slime mold
slimsy
slimy
sling
sling psychrometer
slinger ring
slingshot
slink
slinky
slip
slip ring
slip stitch
slip up
slip-on
slipcase
slipcover
slipknot
slipnoose
slipover
slippage
slipper
slipperwort
slippery
slippery elm
slippy
slipsheet
slipshod
slipslop
slipstream
slipway
slit
slit trench
slither
sliver
slivovitz
slob
slob ice
slobber
slobery
sloe
sloe gin
slog
slogan
sloganeer
sloop
sloop of war
slop
slope
sloppy
slopwork
slosh
sloshy
slot
slot machine
sloth
sloth bear
slothful
slotter
slouch
slouch hat
slough
sloven
slovenly
slow
slow march
slow match
slow motion
slow time
slow-moving
slow-witted
slowdown
slowpoke
slowworm
slub
sludge
sludgy
slue
stuff
slug
slugabed
sluggard
sluggish
sluice
slum
slumber
slumber party
slumberland
slumberous
slumgullion
slumlord
slump
slung
slung shot
slunk
slur
slurp
slurry
slush
slush fund
slushy
slut
sly
slype
smack
smack-dab
smacker
smacking
small
small arms
small beer
small calorie
small capital
small change
small circle
small fry
small hours
small intestine
small pica
small potatoes
small slam
small stores
small stuff
small talk
small-minded
small-scale
small-time
smallage
smalleclothes
smallish
smallmouth bass
smallpox
smallsword
smalt
smalite
smalto
smaragd
smaragdine
smaragdite
smarm
smarmy
smart
smart aleck
smart money
smart set
smarten
smash
smash-and-grab
smash-up
smashed
smasher
smashing
smatter
smattering
smaze
smear
smear word
smearcase
smectic
smegma
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smelling salts
smelly
smelt
smelter
smew
smidgen
smilacaceous
smilax
smile
smirch
smirk
smite
smith
smithereens
smithery
smithsonite
smithy
smitten
smock
smock frock
smock mill
smocking
smog
smoke
smoke bomb
smoke out
smoke screen
smoke tree
smoke-dry
smokechaser
smokejumper
smokeless
smokeless powder
smokeproof
smoker
smokestack
smoking
smoking car
smoking jacket
smoking room
smoko
smoky
smoky quartz
smolder
smolt
smoodle
smooth
smooth breathing
smooth muscle
smooth over
smooth plane
smooth-shaven
smooth-spoken
smooth-tongued
smoothbore
smoothen
smoothie
smoothing iron
smorgasbord
smote
smother
smothered mate
smoulder
smriti
smudge
smug
smuggle
sneakers
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sneaky
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sneer
sneeze
sneeze at
snick
snicker
snide
sniff
sniff at
sniff out
sniffle
sniffy
snifter
snigger
sniggle
snip
snipe
sniper
sniperscope
snippet
snippy
snips
snitch
snivel
snob
snobbery
snobbish
snood
snook
snooker
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snooperscope
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snootty
snooze
snore
snorkel
snort
snorter
snot
snotty
snout
snout beetle
snow
snow blindness
so-called
so-so
soak
soakage
soap
soap bubble
soap powder
soap bark
soapberry
soapbox
soapstone
soapsuds
soapwort
soapy
soar
soaring
soave
sob
sob sister
sob story
sober
sober-minded
sobersided
sobriety
sobriquet
socage
soccer
sociability
sociable
social
social anthropology
social class
social climber
social contract
social democracy
social disease
social insurance
social organization
social psychology
social science
social security
social service
social welfare
social work
social worker
social-minded
socialism
socialist
sodium peroxide
sodium phosphate
sodium propionate
sodium silicate
sodium sulfate
sodium thiosulfate
sodium-vapor lamp
sodomite
sodomy
soever
sofa
sofa bed
sofar
soft
soft chancre
soft clam
soft coal
soft drink
soft focus
soft goods
soft landing
soft palate
soft paste
soft pedal
soft rot
soft sell
soft shoulder
soft soap
soft spot
soft touch
soft wheat
soft-boiled
soft-cover
soft-finned
soft-pedal
soft-shell clam
soft-shell crab
soft-shelled turtle
soft-shoe
soft-spoken
softa
softball
soften
soften up
softener
softhearted
software
solecism
solely
solemn
solemnity
solemnize
solenoid
solfatara
solfeggio
solférino
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solicitor
solicitor general
solicitous
solicitude
solid
solid angle
solid fuel
solid geometry
solid-state
solid-state physics
solidago
solidarity
solidary
solidify
solidus
solifidian
solifluction
soliloquize
soliloquy
solipsism
solitaire
solitary
solitary confinement
solitude
solleret
solmization
solo
solo whist
soloist
solstice
solubility
solubilize
soluble
soluble glass
solus
solute
solution
solvable
solve
solvent
solvent
solvolysis
soma
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somatic cell
somatic
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somatoplasm
somatotype
sombra
sombrero
sombrous
some
somebody
someday
somehow
someone
someplace
somersault
somerset
something
sometime
sometimes
someway
somewhat
somewhere
somewise
somite
sommelier
somnambulate
somnambulation
somnambulism
somnificient
somniferous
somniloquy
somnolent
son
son of a bitch
son-in-law
sonant
sonar
sonata
sonata form
sonatina
sonde
sone
song
song and dance
song cycle
song form
song sparrow
song thrush
songbird
songful
songster
songstress
songwriter
sonic
sonic barrier
sonic boom
sonic depth finder
sonic mine
sonics
soniferous
sonnet
sonnet sequence
sonneteer
sonny
sonobuoy
sonometer
sonorant
sonority
sonorous
soon
sooner
soot
sooth
soothe
soothfast
soothsay
soothsayer
sooty
sop
sophism
sophist
sophister
sophistic
sophisticate
sophisticated
sophistication
sophistry
sophomore
sophrosyne
sopor
soporific
sopping
soppy
soprano
soprano clef
sora
sorb
sorbitol
sorbose
sorcerer
sorcery
sordid
sordino
sore
sore throat
soredium
sorehead
sorely
sorghum
sorgo
sori
soricine
sorites
sorn
sororate
sororicide
sorority
sorosis
sorption
sorrel
sorrel tree
sorrow
sorry
sort
sort out
sortie
sortilege
sortition
sorus
sostenuto
sostenuto pedal
sot
soteriology
sotted
sottish
sotto voce
sou
sou'wester
souari nut
soubise
soubrette
soubriquet
souffle
sough
sought
sought-after
soul
soul mate
soul-searching
soulful
soulless
sound
sound barrier
sound effect
sound film
sound hole
sound man
sound out
sound ranging
sound shift
sound truck
sound wave
soundboard
sounder
sounding
sounding board
sounding lead
sounding line
sounding machine
soundless
soundproof
soup
soup kitchen
soup plate
soup-and-fish
soup spoon
soupy
sour
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
source
source book
sourdine
sourdough
sourpuss
soursop
sourwood
sousaphone
souse
soutache
soutane
souter
souterrain
south
south by east
south by west
south-southeast
south-southwest
southbound
southeast
southeast by east
southeast by south
southeaster
southeasterly
southeastward
southeastwardly
southeastwards
souther
southerly
southern
southern lights
southernly
southernmost
southing
southland
southpaw
southward
southwards
southwest
southwest by south
southwest by west
southwester
southwesterly
southwestward
southwestwardly
southwestwards
souvenir
sovereign
sovereignty
soviet
sovran
sow
sow bug
sow thistle
sowens
sox
soy
soy sauce
soya bean
soybean
soybean oil
sp.
sp. ht.
spa
space
space capsule
space flight
space heater
space lattice
space medicine
space probe
space station
space suit
space writer
space-time
spaceband
spacecraft
spaced out
spaceless
spaceman
spaceport
spaceship
spacesuit
spacial
spacing
spacious
spade
spadefish
spadework
spadiceous
spadix
spae
spaetzle
spaghetti
spagyric
spahi
spake
spall
spallation
span
span loading
span-new
spancel
spandex
spandrel
spang
spangle
spaniel
spank
spanker
spanking
spanner
spar
spar buoy
spar deck
spare
sparerib
sparge
sparid
sparing
spark
spark chamber
spark coil
spark gap
spark plug
spark transmitter
sparker
sparkling plug
sparkle
sparkler
sparkling wine
sparks
sparling
sparoid
sparrow
sparrow hawk
sparrowgrass
sparry
sparse
sparteine
spasm
spasmodic
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spat
spate
spathe
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spathose
spatial
spatiotemporal
spatter
spatterdash
spatula
spavin
spavined
spawn
spay
speak
speak for
speak out
speak to
speak up
speakeasy
speaker
speaking
speaking trumpet
speaking tube
spear
spear grass
spear gun
spear side
spearhead
spearman
spearmint
spearwort
spec
spec.
special
special case
special committee
special court-martial
special delivery
special handling
special jury
special partner
special pleading
special privilege
special theory of relativity
specialism
specialist
specialistic
speciality
specialize
speech
speech community
speech island
speech organ
speechless
speechmaker
speechmaking
speed
speed demon
speed limit
speed up
speedball
speedboat
speedometer
speedway
speedwell
speedy
speiss
spelaean
speleology
spell
spell out
spellbind
spellbinder
spellbound
spelldown
speller
spelling
spelling bee
spelling book
spelling pronunciation
spelling reform
spelt
spelter
spelunker
spence
spencer
spend
spendable
spender
spending money
spendthrift
spent
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sperm
sperm oil
sperm whale
spermaceti
sphery
sphincter
sphingosine
sphinx
sphinx moth
sphynx
sphygmic
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sphygmoid
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spiceberry
spicebush
spick-and-span
spiculate
spicule
spiculum
spicy
spider
spider crab
spider monkey
spider phaeton
spiderwort
spidery
spiegeleisen
spiel
spieler
spier
spiffing
spiffy
spigot
spike
spike heel
spike lavender
spikelet
spikenard
spiky
spile
spill
spill over
spillage
spillway
spilt
spin
spin out
spin-dry
spin-off
spinach
spinal
spinal canal
spinal column
spinal cord
spindle
spindle tree
spindle legs
spidling
spindly
spindrift
spine
spinel
spinel ruby
spineless
spinescent
spinet
spiniferous
spinifex
spinmaker
spinner
spinneret
spinney
spinning
spinning jenny
spinning wheel
spinode
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spinous
spinster
spinthariscope
spinule
spiny
spiny anteater
spiny lobster
spiracle
spiraea
spiral
spiral galaxy
spiral staircase
spirant
spire
spirelet
spireme
spirillum
spirit
spirit level
spirit rapping
spirit writing
spirited
spiritism
spiritless
spiritoso
spirits of turpentine
spirits of wine
spiritual
spiritualism
spiritualist
spirituality
spiritualize
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spirituel
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spiritus asper
spirketing
spiro-
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spirochete
spirograph
spirogyra
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spirometer
spirt
spirula
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spit and polish
spit curl
spital
spitball
spite
spiteful
spitfire
spitter
spittle
spittle insect
spittoon
spitz
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splanchnic
splanchnology
splash
splashboard
spoliate
spoliation
spondaic
spondee
spondylitis
sponge
sponge bag
sponge bath
sponge cake
sponge cloth
sponge
sponger
spongin
sponging house
spongioblast
spongy
sponson
sponsor
spontaneity
spontaneous
spontaneous combustion
spontaneous generation
spontoon
spoofery
spook
spooky
spool
spoon
spoon-feed
spoonbill
spoonrift
spoonerism
spoonful
spoony
spoor
sporadic
sporangium
spore
sporocarp
sporocyst
sporocyte
sporogenesis
sporogonium
sporogony
sporophore
sporophyll
sporophyte
sporozoite
sporran
sport
sport shirt
sporting
sporting chance
sporting house
sportive
sports
sports car
sports jacket
sportscast
sportsman
sportsmanship
sportswear
sportswoman
sporty
sporulate
sporule
spot
spot announcement
spot check
spot-weld
spotless
spotlight
spotted
spotted crake
spotted fever
spotter
spotty
spousal
spouse
spout
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spraddle
sprag
sprain
sprang
sprat
sprawl
spray
spray gun
spread
spume
spumescent
spun
spun glass
spun rayon
spun yarn
spunk
spunky
spur
spur gear
spur wheel
spurge
spurious
spurn
spurrier
spurry
spurt
spurtle
sputnik
sputter
sputum
spy
spy out
spyglass
sq.
sqq.
squab
squabbie
squad
squad car
squadron
squalene
squalid
squall
squall line
squally
squalor
squama
squamation
squamosal
squamous
squamulose
squander
square
square away
square bracket
square dance
square deal
square foot
square inch
square kilometer
square knot
square leg
square matrix
square measure
square meter
square mile
square number
square off
square piano
square root
square sail
square shooter
square-rigged
square-rigger
squarely
squirrel
squash
squash bug
squash racquets
squashy
squat
squatness
squatter
squatting
squatter sovereignty
squawk
squawk
squeak
squeaky
squeal
squeamish
squeegy
squeeze
squelch
squeteague
squib
squid
squiffy
squiggle
squelgee
squill
squinch
squint
squint-eyed
squinty
squire
stalling angle
stallion
stalwart
stamen
stamin
stamina
staminody
stammel
stammer
stamp
stamp mill
stamp out
stamped
stamping ground
stance
stanch
stanchion
stand
stand by
stand down
stand for
stand oil
stand on
stand out
stand over
stand pat
stand up
stand-in
stand-up
standard
standard cost
standard deviation
standard gauge
standard of living
standard time
standard-bearer
standardize
standby
standee
standfast
standing
standing army
standing broad jump
standing committee
standing lug
standing order
standing rigging
standing wave
standoff
standoffish
standpipe
standpoint
standstill
stane
stang
stanhope
stank
stannary
stannic
stannite
stannum
stanza
stapes
staphylo-
staphylococcus
staphyloplasty
staphylorrhaphy
staple
stapler
star
star anise
star cloud
star drill
star grass
star sapphire
star shell
star-crossed
star-nosed mole
star-of-Bethlehem
star-shaped
star-spangled
star-studded
starboard
starch
starchy
stardom
stare
starfish
starflower
stark
stark-naked
starlet
starlight
starlike
starling
starred
station break
station house
station wagon
stationary
stationary engine
stationary wave
stationer
stationery
stationmaster
statism
statist
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statistical mechanics
statistician
statistics
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statocyst
statolatry
statolith
stator
statuary
statue
statued
statuesque
statuette
stature
status
status quo
status symbol
statutable
statute
statute book
statute law
statute mile
statute of limitations
statutory
statutory rape
statvolt
staunch
staurolite
stave
stave off
staves
stay
stay-at-home
staying power
stays
staysail
steel blue
steel engraving
steel guitar
steel mill
steel wool
steelhead
steelmaker
steels
steelwork
steelworker
steelworks
steelyard
steenbok
steep
steepen
steeple
steeplebush
steeplechase
steeplejack
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steerage
steerageway
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steering gear
steering wheel
steersman
steeve
stegodon
stegosaur
stein
steenbok
stela
stele
stellar
stellarator
stellate
stelliform
stellular
stem
stem turn
stemma
stemson
stemware
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stench bomb
stencil
steno-
stenograph
stenographer
stenography
stenopetalous
stenophasous
stenophyllous
stenosis
stenotype
stenotypy
stentor
stentorian
step
step down
step in
step rocket
step up
step-step up
stepbrother
stepchild
stepdame
stepdaughter
stepfather
stephanotis
stepladder
stepmother
stepparent
steppe
stepper
stepsister
stepsister
stepson
ster.
steradian
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stercoricolous
sterculiaceous
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stereoisomerism
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sterigma
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sterile
sterilization
sterilize
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sterling silver
stern
stern sheets
stern-wheeler
sternforemost
sternmost
sternpost
sternson
sternum
sternutation
sternutatory
sternway
steroid
sterol
stertor
stertorous
stet
stethoscope
stevedore
stevedore's knot
stew
steward
stewardess
stewed
stewpan
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stge.
sthenic
stibine
stibnite
stich
stichometry
stichomythia
stick
stick at
stick insect
stick out
stick to
stick together
stick-in-the-mud
sticker
sticking plaster
stickle
stickleback
stickler
stickpin
stickseed
sticktight
stickup
stickweed
sticky
sticky wicket
stickybeak
stiff
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stiffen
stifle
stifling
stigma
stigmasterol
stigmatic
stigmatism
stigmatize
stilbestrol
stilbite
stile
stileto
still
still hunt
still life
still water
still-hunt
stillage
stillbirth
stillborn
stilliform
stillness
stilly
stilt
stilted
stimulant
stimulate
stimulative
stimulus
sting
stingaree
stinger
stinging hair
stinging nettle
stingo
stingy
stink
stink ball
stink bomb
stinker
stinkhorn
stinking
stinking smut
stinko
stinkpot
stinkstone
stinkweed
stinkwood
stint
stipe
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stipend
stipendiary
stipitate
stipple
stipulate
stipulation
stipule
stir
stir up
stirk
stirpiculture
stirps
stirring
stirrup
stirrup cup
stirrup pump
stitch
stitching
stithy
stiver
stoa
stoat
stob
stochastic
stock
stock car
stock certificate
stock clerk
stock company
stock dividend
stock dove
stock exchange
stock farm
stock horse
stock in trade
stock market
stock option
stock raising
stock saddle
stock-still
stockade
stockbreeder
stockbroker
stockholder
stockinet
stocking
stocking cap
stockish
stockist
stockjobber
stockman
stockpile
stockroom
stocks
stocktaking
stocky
stockyard
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stoichiometry
stoicism
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stokehold
stokehole
stoker
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stolen
stolid
stolon
stoma
stomach
stomach pump
stomach worm
stomachache
stomacher
stomachic
stomatal
stomastic
stomatitis
stomato-
stomatology
stomodaeum
stone
stone curlew
stone fruit
stone parsley
stone proof
stone's throw
stone-blind
stone-broke
stone-dead
stone-deaf
stonechat
stonecrop
stonecutter
stoned
stonefish
stonefly
stonemason
stonewall
stoneware
stonework
stonewort
stony
stony coral
stony-broke
stony-hearted
stood
stooge
stook
stool
stool pigeon
stoop
stop
stop bath
stop order
stop payment
stop work
stop-off
stopcock
stope
stopgap
stoplight
stopover
stoppage
stopped
stopped diapason
stopper
stopping
stopple
stopwatch
storage
storage battery
storax
store
store-bought
storehouse
storekeeper
storeroom
stores
storey
storied
storiette
stork
storm
storm center
storm cloud
storm cone
storm door
storm petrel
storm troops
storm warning
storm window
stormproof
stormy
stormy petrel
story
story line
storybook
storyteller
storytelling
stoss
stotinka
stound
stoup
stour
stoush
stout
stouthearted
stove
stovepipe
stovepipe hat
stover
stow
stowage
stowaway
str.
strabismus
straddle
strafe
straggle
straight
straight and narrow
straight angle
straight chain
straight chair
straight face
straight joint
straight man
straight razor
straight ticket
straight-laced
straight-out
straightaway
straightedge
straighten
straighten out
straighten up
straightforward
straightjacket
straightway
strain
strain hardening
strained
strainer
strait
straw wine
strawberry
strawberry blonde
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strawberry mark
strawberry tomato
strawberry tree
strawboard
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stream
stream of consciousness
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streamliner
streamway
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street Arab
street certificate
street piano
streetcar
streetlight
streetwalker
strength
strengthen
strenuous
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streptococcus
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streptomycin
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stress
stressful
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stretcher
stretcher-bearer
stretchy
stretto
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sub rosa
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subbasement
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subfloor
subfusc
subgenus
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subgroup
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subheading
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subinfeudation
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subject matter
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subjection
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subjectivism
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subjoinder
subjugate
subjunction
subjunctive
subkingdom
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sublimity
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sublittoral
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submariner
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submersible
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subphylum
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subpoena
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subrogate
subrogation
subroutine
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subsequent
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sugar beet
sugar bowl
sugar candy
sugar cane
sugar daddy
sugar loaf
sugar maple
sugar pine
sugar spoon
sugar-coat
sugared
sugarplum
sugary
suggest
suggestibility
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sulphonamide
sulphonate
sulphone
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sulphurate
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sultan
sultana
sultanate
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sum
sum and substance
sum total
sum up
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summand
summarize
summary
summary court-martial
summation
summer
summer school
summer solstice
summer squash
summerhouse
summerly
summersault
summertime
summertree
summerwood
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summons
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sumption
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sumptuary law
sumptuous
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sun bath
sun dance
sun deck
sun lamp
sun-dried
sun-god
sunbaked
sunbathe
sunbeam
sunbonnet
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sunny-side up
sunproof
sunrise
sunrise watch
sunroom
sunset
sunshade
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sunstroke
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sunup
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supercharger
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superclass
supercolumnar
superconductivity
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supererogate
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superfecundation
superfetation
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superfuse
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superheterodyne
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superhighway
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superincumbent
superinduce
superintend
superintendency
superintendent
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superior court
superior planet
superiority
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superlative
superload
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supermarket
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supernatant
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supernova
supernumerary
superorder
superordinate
superorganic
superpatriot
superphosphate
superphysical
superpose
superposition
superpower
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surefire
surely
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surface mail
surface noise
surface plate
surface structure
surface tension
surface-to-air
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telephone directory
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terephthalic acid
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term paper
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terminator
terminology
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terminus ad quem
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tervalent
terza rima
terzetto
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tetany
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thermal conductivity
thermal efficiency
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thickness
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thiouracil
thiourea
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third class
third degree
third dimension
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third man
third mate
third party
third person
third rail
third reading
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third-rate
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thoroughbred
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thoroughgoing
thoroughpaced
thoroughwort
thorp
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thread mark
threadbare
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thready
threap
threat
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three R’s
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three-decker
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three-gaited
three-legged race
three-master
three-mile limit
three-part time
three-phase
three-piece
three-ply
three-point landing
three-quarter
three-quarter nelson
three-quarter time
three-ring circus
three-square
three-wheeler
threefold
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threepenny bit
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through street
through-composed
throughout
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throw about
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thrower
throwing stick
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thrum
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thrust bearing
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thruway
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thumb index
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thumbstall
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thundershower
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time and a half
time and motion study
time ball
time bill
time bomb
time clock
time constant
time deposit
time discount
time draft
time exposure
time immemorial
time loan
time lock
time money
time of day
time sharing
time sheet
time signal
time signature
time study
time zone
time-consuming
time-honored
time-lag
time-lapse photography
time-out
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to-do
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tombstone
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tomfool
tomfoolery
tommyrot
tomorrow
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tone down
tone language
tone poem
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tongue-and-groove joint
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tonic spasm
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tonight
tonnage
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tonometer
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tool
tool steel
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toolmaker
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tooth and nail
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tooth shell
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toothed
toothed whale
toothless
toothlike
toothpaste
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toothsome
toothwort
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tool
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tootsy
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top banana
top boot
top dog
top dressing
top hat
top off
top out
top-drawer
top-dress
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top-level
top-notch
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toper
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topic sentence
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toponymy
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topsoil
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torbernite
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torch song
torchbearer
torchier
torchon lace
torchwood
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torrentor
torn
tornado
tornado lantern
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torpedo
torpedo boat
torpedo tube
torpedo-boat destroyer
torpedoman
torpid
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torque
torque converter
torque wrench
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toucan
touch
touch and go
touch football
touch off
touch system
touch-and-go
touch-me-not
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touchdown
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touchhole
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touchstone
touchwood
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tough-minded	oughen
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toupee
tour
tour de force
touraco
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touring car
tourism	tourist	touristy
tourmaline
tournament
tournedos
tourney	tourniquet	tous-les-mois	tousel	tout	tout de suite
tout ensemble	tout le monde	touter	touzle
tow
tow car
tow truck
tow-haired
trace
trace element
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tracer
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tracery
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tracheostomy
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trachyte
trachytic
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track down
track meet
track shoe
track-and-field
tracking station
trackless
trackless trolley
trackman
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tractate
tractile
traction
traction engine
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trade acceptance
trade book
trade discount
trade name
trade on
trade route
trade school
trade secret
trade union
trade unionist
trade wind
trade-in
trade-last
trademark
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trajectory
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trammel
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tramp
tramp steamer
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tree farm
tree fern
tree frog
tree heath
tree kangaroo
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tree of knowledge of good and evil
tree of life
tree shrew
tree sparrow
tree surgery
tree swallow
tree toad	
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trial run
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tumbledown	tumbler	tumbler gear	tumbleweed	tumbling
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turbit
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turbofan
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turgescent	urgid
turgite	urgor
turkey
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turmoil
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tusker	ussah	ussis	ussle	ussock
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tweak
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tweedy
tweeny
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tweezet
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twelfth
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twelve-mile limit
twelve-tone
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twelvemo
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twenty
twenty-four
twenty-fourmo
twenty-one
twenty-two	werp
twibill
twice
twice-told
twiddle	wig	wiggy	wilight	wilight sleep	wilight zone
twill	win	win bed	win bill	win-lens reflex	win-screw	winberry
twine
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ultraconservative
ultrafilter
ultrahigh frequency
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ultramicroscope
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ultranationalism
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ultravirus
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umbrella plant
umbrella tent
umbrella tree
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unfurl
ungainly
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unification
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uniform
uniformed
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uniformity
uniformize
unify
unjugate
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uninterrupted
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union
union jack
union shop
union suit
unionism
unionist
unionize
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unipod
unipolar
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unisepaate
unisexual
unison
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unit cell
unit character
unit cost
unit factor
unit price
unit trust
unitary
unitary matrix
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unitive
unity
univ.
univalence
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univalve
universal
universal class
universal joint
universal motor
universal suffrage
universalism
universalist
universality
universalize
universally
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university
university extension
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unkennel
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unkindly
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unknot
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unworthy
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unwritten law
unyielding
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unzip
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up-anchor
up-and-coming
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up-bow
up-country
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upbringing
upbuild
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Go support for Protocol Buffers - Google's data interchange format

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go-runhes is a fork of go-runc

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runc

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Boost.Geometry (aka GGL, Generic Geometry Library)

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============================================================================

Boost.Geometry (aka GGL, Generic Geometry Library)

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============================================================================/
All the value based traits in this library conform to MPL's requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `boost::mpl::true_`, `false_type` inherits from `boost::mpl::false_`, and `integral_constant<T, v>` inherits from `boost::mpl::integral_c<T, v>` (provided `T` is not `bool`).
Maybe this should pass?

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5of6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogueff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004
10:09:19 +0200)
Gottfried Ganaage (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmx.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Frel (frel -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjinnes ( Larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, lllee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm - at - sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrvera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;

typedef integral_constant<T,val> type;
};

```cpp
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;

typedef integral_constant<T,val> type;
};
```

--- end ---

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//
////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;

typedef integral_constant<T,val> type;
};
```
template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

typedef bool_<true>      true_;
typedef bool_<false>     false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}; 

template <class T, class U>
class is_convertible 
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C,
    , typename T1
    , typename T2

struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
};
template<\ typ\::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<br>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<br>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} // namespace ipcdetail {
} // namespace interprocess {
} // namespace boost {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#endif
Exceptions:
1) Major work of any author -> might change order, change date
2) Exclusive work of one author including design -> might take sole copyright
Examples:
- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
3) Examples -> might take sole copyright
4) Tests -> might take sole copyright
5) Docs -> might take sole copyright
6) Utilities e.g. converters -> might take sole copyright

The copyright note for other (source) files as .py, Jamfiles, etc is similar
and comments are changed accordingly.
Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
     mpl::identity<T>
 #if defined(__MWERKS__)
   , aux::print_base
-#endif
+#endif
+*endif
+*endif
{
 #if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 };
 #elif defined(__MWERKS__)
   void f(int);
-#else
-    enum {
-        n =
-# if defined(__EDG_VERSION__)           aux::dependent_unsigned<T>::value > -1
-# else
-        sizeof(T) > -1
-# endif
-          sizeof(T) > -1
-# endif
-    };}
-#endif
+*elif defined(__EDG_VERSION__)
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+*elif defined(BOOST_GCC)
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+*else
enum { n = sizeof(T) > -1 };

#if defined(BOOST_MSVC)
#
///////
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
////
#

#endif

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;

} // namespace container_detail
} // namespace container
} // namespace boost

} // namespace BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
typedef false_ false_type;

typedef char yes_type;

struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_e {
    typedef T type;
};

template <class T>
struct enable_if_e<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_e<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_e<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_e : public enable_if_e<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();

    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; }

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<

typedef T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;   }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $" xmlns:xi="http://www.w3.org/2001/XInclude">
    <title>Copyright Test</title>
    <articleinfo>
    
    <copyright>
        <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    
    <copyright>
        <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    
    <copyright>
        <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
    </articleinfo>
    </article>
    [article Invalid copyright years]
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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]

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//
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// http://www.boost.org/LICENSE_1_0.txt)
//
//

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};
}
template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
  bool C
 , typename T1
 , typename T2
>
struct if_<
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename C
 , typename T1
 , typename T2
>
struct if_<
{
  typedef typename if_<0 != C::value, T1, T2>::type type;
};

template<
  bool C
 , typename F1
 , typename F2
>
struct eval_if_<
 : if_<C,F1,F2>::type
{};

template<
  typename C
 , typename T1
 , typename T2
>
struct eval_if_
 : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{  static const bool value = true;  };

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>  
{  static const bool value = true;  };

#endif

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{ static const bool value = true; }; 

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; }; 

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{ static const bool value = true; }; 

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; }; 

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; }; 

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; }; 

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
};
template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

// In template typing context:

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

// For const T:

template<typename T>
struct remove_const<const T>
```cpp
{  typedef T type;  }

template<typename T>
struct remove_cv
{  typedef T type;  }

template<typename T>
struct remove_cv<const T>
{  typedef T type;  }

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  }

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  }

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    }

    struct empty_helper_t2
    {  int i[256];  };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
}

template<std::size_t S>
```
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`], `__false_type` inherits from [`boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`).

[endsect]
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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]
/*
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
  : root(r), file(f) {}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href="" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:


std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os << """<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
""<html>
""<head>
""<title>Boost Licence Dependency Information</title>
""<body>
""<H1>Boost Licence Dependency Information</H1>
""<H2>Contents</H2>
""<pre><a href="#input">Input Information</a>
""
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
";

while(i != j)
{
    // title:
    os << '""<A href="#" make_link_target(licenses.first[i->first].license_name)""' << licenses.first[i->first].license_name << "\n";
    ++i;
}

os << '<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
";

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" "<a href="#copyright">Copyright Holder Information</a>
";
}

os << '<a href="#depend">File Dependency Information</a>
"</pre>";

// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
";

if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^\[[:blank:]*#\[[:blank:]*define\[[:blank:]*BOOST_VERSION\[[:blank:]*\+\d+\]+\])+");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
        << "</p>\n";
}

// output each license:
//
// i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href="" << make_link_target(licenses.first[i->first].license_name) << "">(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
    //
    // and now the details:
    //
    i = m_license_data.begin();
j = m_license_data.end();
    int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
    while(i != j)
    {
// title:
os <<
"<H3><A name="\"">" << make_link_target(licenses.first[i->first].license_name)
"</A>" << licenses.first[i->first].license_name << "</H3>\n";

// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n</BLOCKQUOTE><P>";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
++x;
}
os << "</P>";/<BLOCKQUOTE>\n";

// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
</P>\n</BLOCKQUOTE><P>";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
++m;
}
os << "</P>";/<BLOCKQUOTE>\n";
} else
{
os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
os << "<h2><a name="\"">Files With No Recognisable Licence</a></h2>\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P>";<BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:<p>
</BLOCKQUOTE><p>
};
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><p>
    "<< "The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verfication before they can be committed to CVS:<p>
    
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
              ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
              ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
            "<tt><br>\n\n <tt><tr><td>\n <tt><pre>
 <i>i->second.first \n <pre><tt>
 <i>i->second.second \n <pre><tt>
 \n <tt><tr><td><pre>");
            ++i;
            ++file_num;
        }
    

Files that could be converted to the Boost Software License, but have not yet been:

```
  i2 = m_can_migrate_to_bsl.begin();
  j2 = m_can_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>";
    ++i2;
  }
```

Files that can NOT be converted to the Boost Software License because we need the permission of more authors:

```
  i2 = m_cannot_migrate_to_bsl.begin();
  j2 = m_cannot_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>";
    ++i2;
  }
```

Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

```
  std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
            std::ostream_iterator<std::string>(os, "<br>"));
```

// output a table of copyright information:

```
```
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " </td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}
}

os << "</table>

//
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, std::set<fs::path, path_less>::const_iterator> dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    // if in summary mode, just figure out the "bad" files and print those only:
    std::set<fs::path, path_less> bad_paths;
    if(m_bsl_summary_mode)
    {
        bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
        bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
        bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
        bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        while(i != ie)
        {
            bad_paths.insert(i->first);
            ++i;
        }
        fi = bad_paths.begin();
        efi = bad_paths.end();
        os << "<P>For brevity, only files not under the BSL are shown</P>
        os << "</td></tr>
    }
}
while(fi != efi)
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
while(true)
{
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
    os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
    os << split_path(fs::path(), dep->second);
    else
    os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
        os << "<I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

1.1442 dmidecode 3.12.2-3.el7
1.1442.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1132217661_1613127119.43/0/shrinkwrap-spi-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/spi/MemoryMapArchive.java
* /opt/cola/permits/1132217661_1613127119.43/0/shrinkwrap-spi-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/spi/ArchiveFormatAssociable.java
* /opt/cola/permits/1132217661_1613127119.43/0/shrinkwrap-spi-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/spi/Configurable.java

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* /opt/cola/permits/1132217661_1613127119.43/0/shrinkwrap-spi-1-1-2-redhat-1-sources-jar/META-INF/maven/org.jboss.shrinkwrap/shrinkwrap-spi/effective-pom.xml

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  jar/org/jboss/shrinkwrap/spi/Identifiable.java

1.1444 sil-abyssinica-fonts 1.200-6.el7
1.1444.1 Available under license :

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FONTLOG
Abyssinica SIL font family
===================================

This file provides detailed information on the Abyssinica SIL font.
This information should be distributed along with the Abyssinica SIL font and
any derivative works.

Basic Font Information
----------------------

Abyssinica SIL has a single face - regular.

The goal for this product was to provide a single Unicode-based font
that would contain a comprehensive inventory of glyphs needed for almost any
Ethiopic-based writing system. In addition, there is provision for other
Latin characters and symbols. This font makes use of state-of-the-art font
technologies to support the need to position arbitrary combinations of
*Ethiopic* base glyphs and combining marks optimally. It also supports
almost 200 kerning pairs. This version of the font also supports 14 Stylistic
Sets (OpenType) or Features (Graphite) which make glyph alternates available
for a number of Ethiopian and punctuation characters. See
AbyssinicaSIL.FontFeatures.pdf for details on applications which support Stylistic Sets and how to access them.

One font from this typeface family is included in this release:

* Abyssinica SIL Regular

ChangeLog
--------
(This should list both major and minor changes, most recent first.)

13 December 2010 (Lorna Priest) Abyssinica SIL version 1.200
- Updated for Unicode 6.0 (U+AB00..U+AB2F)
- Added Stylistic Sets and Graphite Features
- does not include AAT support

1 June 2006 (Jonathan Kew)
- AAT source added

25 May 2006 (SIL NRSI team) Abyssinica SIL version 1.0
- First version released under the SIL Open Font License

Information for Contributors
----------------------------

The release of Abyssinica SIL version 1.0 under the OFL license provides a means for people to contribute to the project. For information on what you're allowed to change or modify, consult the OFL and OFL-FAQ. The OFL-FAQ also gives a very general rationale regarding why you would want to contribute to the project.

Anyone can make their own modified version of Abyssinica SIL (using a different name), but SIL International will continue to maintain and develop the canonical version of the Abyssinica SIL font. As the package maintainer, we warmly welcome contributions. Here are some things to keep in mind:

Format: We are open to contributions in various formats, but if you want to maximise the chances of us including your work, please make it available to us (via email or a URL) as either a FontLab database (preferred) or a PostScript Type 1 (or OT-CFF) font.

Source files: We're including the FontLab database used in developing the font. The font, however, was not solely built from this FontLab database, so a simple "Generate Font" will not give you an identical result. The database is provided not as canonical source but as an aid to anyone who might find it useful to have access to it. For those
who may find them useful, we are also providing the Graphite GDL file
(ETKernComb.gdl), VOLT project files (Abyssinica_SIL.vtp, AboveMarks.vtg,
Kern.vtl, Mark.vtl) and an AAT perl script (abyssinica-aat.pl - this is run with
the .ttf and .xml files as input, and writes the actual table source, then runs one
of Apple's font tools to compile the tables and add them to the .ttf. (So it can
only be run on a Mac, with the Apple tools installed.)).

Copyright attribution: If you submit something for inclusion in the main
Abyssinica SIL fonts, we will ask you to affirm that it is your original work,
and ask you to assign the copyright of your work to SIL International. This
is to ensure that future releases can be made under improved versions of the
OFL without needing to track you down for further permission. This follows
the same principle used by the FSF. Keep in mind that we are a
not-for-profit organization committed to free/libre and open source
software, and that any contributions incorporated in the fonts will always
be available under the OFL or a similar license.

Quality: Because we want to be able to guarantee a high level of quality for
the primary Abyssinica SIL font, we will review submissions carefully. Please
don't be discouraged if we do not include a submission for this reason, or
ask you to make specific revisions.

Types of contributions: If you wish to make a contribution - a set of
additional glyphs, scripts, code, etc. - please contact us before you do any
work to see if it is a contribution we currently need. Every addition adds
to the complexity of the project and needs to be carefully planned. This
also avoids two people working on the same type of addition at the same time.

When submissions will be included: We do not have a current timetable for
when an updated font will be released.

Acknowledgements
------------------
(Here is where contributors can be acknowledged. If you make modifications
be sure to add your name (N), email (E), web-address (W) and description
(D). This list is sorted by last name in alphabetical order.)

N: Walt Agee, Victor Gaultney, Lorna Priest / Daniel Yacob, Kjell Magne Yri
E: fonts@sil.org
W: http://scripts.sil.org/
D: SIL designers and font engineers / non-SIL script experts

The Abyssinica SIL project is maintained by SIL International.

For more information please visit the Abyssinica SIL page on SIL International's
Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL
We cannot afford to offer free technical support. The font has, however, been through some testing on various platforms to be sure it works in most situations. In particular, it has been tested and shown to work on Windows XP, Windows Vista and Windows 7.
If you do find a problem, please do report it to <sil_fonts AT sil DOT org>. We can't guarantee any direct response, but will try to fix reported bugs in future versions. Make sure you read through the Abyssinica SIL FAQ (http://scripts.sil.org/AbyssinicaSIL_Support).

Many problems can be solved, or at least explained, through an understanding of the encoding and use of the fonts. Here are some basic hints:

Encoding:
The fonts are encoded according to Unicode, so your application must support Unicode text in order to access letters other than the standard alphabet. Most Windows applications provide basic Unicode support. You will, however, need some way of entering Unicode text into your document.

Keyboarding:
Abyssinica SIL can be used with any Unicode Ethiopic keyboarding program. However, we have included a Keyman keyboard which you will need to download separately (SIL Ethiopic Keyman Kbd.kmp). You will need to install the Keyman program (www.tavultesoft.com) prior to installing the Keyman keyboard. Please read the documentation (readme.html) which comes with the keyboard to learn the keyboard sequences.

This keyboard is also provided for use with KMFL. Please read the documentation (readme.html) which comes with the keyboard to learn the keyboard sequences.

Another method of entering some symbols is provided by a few applications such as Adobe InDesign. They can display a glyph palette that shows all the glyphs (symbols) in a font and allow you to enter them by clicking on the glyph you want.

Rendering:
This font is designed to work with any of three advanced font technologies, Graphite or OpenType. To take advantage of the advanced typographic capabilities of this font, you must be using applications that provide an adequate level of support for Graphite or OpenType. See "Applications that provide an adequate level of support for SIL Unicode Roman fonts" (http://scripts.sil.org/Complex_AdLvSup).

INSTALLATION AND CONFIGURATION
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If you are not sure how to install the fonts, please see: 
http://scripts.sil.org/DecompressUtil for instructions on font installations on various operating systems.
CONTACT
=========
For more information please visit the Abyssinica SIL page on SIL International's Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL

Or send an email to <sil_fonts AT sil DOT org>

Found in path(s):

No license file was found, but licenses were detected in source scan.

This Font Software is Copyright (c) 2000-2010, SIL International (http://scripts.sil.org/) with Reserved Font Names "Abyssinica" and "SIL".

This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is copied below, and is also available with a FAQ at:
http://scripts.sil.org/OFL

-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
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THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

No license file was found, but licenses were detected in source scan.

License: OFL

OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.1-update2 - 23 August 2010
(See http://scripts.sil.org/OFL for updates)

1 USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL
1.1 Can I use the fonts for a book or other print publication?
Yes. You can mention the font and author in the book's colophon if you wish, but that is not required.
1.2 Can the fonts be included with Free/Libre and Open Source Software collections such as GNU/Linux and BSD distributions?
Yes! Fonts licensed under the OFL can be freely included alongside other software under FLOSS (Free/Libre and Open Source Software) licenses. Since fonts are typically aggregated with, not merged into, existing software, there is little need to be concerned about incompatibility with existing software licenses. You may also repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distribution CD/DVDs and online repositories. (Also see section 5.9 about rebuilding from source.)

1.3 I want to distribute the fonts with my program. Does this mean my program also has to be Free/Libre and Open Source Software?
No. Only the portions based on the Font Software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling with software under restricted licensing as well.

1.4 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Original Version and a Modified Version of the fonts. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, games and entertainment software, mobile device applications, etc.

1.5 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.6 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential direct income to distribute their fonts under the OFL. Please honour and respect their contribution!

1.7 What about sharing OFL fonts with friends on a CD, DVD or USB stick?
You are very welcome to share open fonts with friends, family and colleagues through removable media. Just remember to include the full font package, including any copyright notices and licensing information as available in OFL.txt. In the case where you sell the font, it has to come bundled with software.

1.8 Can I host the fonts on a web site for others to use?
Yes, as long as you make the full font package available. In most cases it may be best to point users to the main site that distributes the Original Version so they always get the most recent stable and complete version. See also discussion of webfonts in Section 2.

1.9 Can I host the fonts on a server for use over our internal network?
Yes. If the fonts are transferred from the server to the client computer by means that allow them to be used even if the computer is no longer attached to the network, the full package (copyright notices, licensing information, etc.) should be included.

1.10 Does the full OFL license text always need to accompany the font?
The only situation in which an OFL font can be distributed without the text of the OFL (either in a separate file or in font metadata), is when a font is embedded in a document or bundled within a program. In the case of metadata included within a font, it is legally sufficient to include only a link to the text of the OFL on http://scripts.sil.org/OFL, but we strongly recommend against this. Most modern font formats include metadata fields that will accept the full OFL text, and full inclusion increases the likelihood that users will understand and properly apply the license.
1.11 What do you mean by 'embedding'? How does that differ from other means of distribution?
By 'embedding' we mean inclusion of the font in a document or file in a way that makes extraction (and redistribution) difficult or clearly discouraged. In many cases the names of embedded fonts might also not be obvious to those reading the document, the font data format might be altered, and only a subset of the font - only the glyphs required for the text - might be included. Any other means of delivering a font to another person is considered 'distribution', and needs to be accompanied by any copyright notices and licensing information available in OFL.txt.

1.12 So can I embed OFL fonts in my document?
Yes, either in full or a subset. The restrictions regarding font modification and redistribution do not apply, as the font is not intended for use outside the document.

1.13 Does embedding alter the license of the document itself?
No. Referencing or embedding an OFL font in any document does not change the license of the document itself. The requirement for fonts to remain under the OFL does not apply to any document created using the fonts and their derivatives. Similarly, creating any kind of graphic using a font under OFL does not make the resulting artwork subject to the OFL.

1.14 If OFL fonts are extracted from a document in which they are embedded (such as a PDF file), what can be done with them? Is this a risk to author(s)?
The few utilities that can extract fonts embedded in a PDF will typically output limited amounts of outlines - not a complete font. To create a working font from this method is much more difficult and time consuming than finding the source of the original OFL font. So there is little chance that an OFL font would be extracted and redistributed inappropriately through this method. Even so, copyright laws address any misrepresentation of authorship. All Font Software released under the OFL and marked as such by the author(s) is intended to remain under this license regardless of the distribution method, and cannot be redistributed under any other license. We strongly discourage any font extraction - we recommend directly using the font sources instead - but if you extract font outlines from a document, please be considerate: use your common sense and respect the work of the author(s) and the licensing model.

1.15 What about distributing fonts with a document? Within a compressed folder structure? Is it distribution, bundling or embedding?
Certain document formats may allow the inclusion of an unmodified font within their file structure which consists of a compressed folder containing the various resources forming the document (such as pictures and thumbnails). Including fonts within such a structure is understood as being different from embedding but rather similar to bundling (or mere aggregation) which the license explicitly allows. In this case the font is conveyed unchanged whereas embedding a font usually transforms it from the original format. The OFL does not allow anyone to extract the font from such a structure to then redistribute it under another license. The explicit permission to redistribute and embed does not cancel the requirement for the Font Software to remain under the license chosen by its author(s).

1.16 What about ebooks shipping with open fonts?
The requirements differ depending on whether the fonts are linked, embedded or distributed (bundled or aggregated). Some ebook formats use web technologies to do font linking via @font-face, others are designed for font embedding, some use fonts distributed with the document or reading software, and a few rely solely on the fonts already present on the target system. The license requirements depend on the type of inclusion as discussed in 1.15.

1.17 Can Font Software released under the OFL be subject to URL-based access restrictions methods or DRM...
Yes, but these issues are out-of-scope for the OFL. The license itself neither encourages their use nor prohibits them since such mechanisms are not implemented in the components of the Font Software but through external software. Such restrictions are put in place for many different purposes corresponding to various usage scenarios. One common example is to limit potentially dangerous cross-site scripting attacks. However, in the spirit of libre/open fonts and unrestricted writing systems, we strongly encourage open sharing and reuse of OFL fonts, and the establishment of an environment where such restrictions are unnecessary. Note that whether you wish to use such mechanisms or you prefer not to, you must still abide by the rules set forth by the OFL when using fonts released by their authors under this license. Derivative fonts must be licensed under the OFL, even if they are part of a service for which you charge fees and/or for which access to source code is restricted. You may not sell the fonts on their own - they must be part of a larger software package, bundle or subscription plan. For example, even if the OFL font is distributed in a software package or via an online service using a DRM mechanism, the user would still have the right to extract that font, use, study, modify and redistribute it under the OFL.

1.18 I've come across a font released under the OFL. How can I easily get more information about the Original Version? How can I know where it stands compared to the Original Version or other Modified Versions? Consult the copyright statement(s) in the license for ways to contact the original authors. Consult the FONTLOG for information on how the font differs from the Original Version, and get in touch with the various contributors via the information in the acknowledgement section. Please consider using the Original Versions of the fonts whenever possible.

1.19 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the author(s) should not be used in a way that makes it sound like the original author(s) endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the author(s) in a listing of software features, or to promote a Modified Version on a web site by saying "designed by ...". However, it would be appropriate to acknowledge the author(s) if your software package has a list of people who deserve thanks. We realize that this can seem to be a grey area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the author(s) it is allowed, but if it primarily benefits other parties, or could reflect poorly on the author(s), then it is not.

2 USING OFL FONTS FOR WEBPAGES AND ONLINE WEBFONT SERVICES

2.1 Can I make webpages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended. Your three best options:
- referring directly in your stylesheet to open fonts which may be available on the user's system
- providing links to download the full package of the font - either from your own website or from elsewhere - so users can install it themselves
- using @font-face to distribute the font directly to browsers. This is recommended and explicitly allowed by the licensing model because it is distribution. The font file itself is distributed with other components of the webpage. It is not embedded in the webpage but referenced through a web address which will cause the browser to retrieve and use the corresponding font to render the webpage (see 1.11 and 1.15 for details related to embedding fonts into documents). As you take advantage of the @font-face cross-platform standard, be aware that webfonts are often tuned for a web environment and not intended for installation and use outside a browser. The reasons in favour of using webfonts are to allow design of dynamic text elements instead of static graphics, to make it easier for content to be localized and translated, indexed and searched, and all this with cross-platform open standards without depending on restricted extensions or plugins. You should check the CSS cascade (the order in which fonts are being
called or delivered to your users) when testing.

2.2 Can I make and use WOFF (Web Open Font Format) versions of OFL fonts?
Yes, but you need to be careful. A change in font format normally is considered modification, and Reserved Font Names (RFNs) cannot be used. Because of the design of the WOFF format, however, it is possible to create a WOFF version that is not considered modification, and so would not require a name change. You are allowed to create, use and distribute a WOFF version of an OFL font without changing the font name, but only if:

- the original font data remains unchanged except for WOFF compression, and
- WOFF-specific metadata is either omitted altogether or present and includes, unaltered, the contents of all equivalent metadata in the original font.

If the original font data or metadata is changed, or the WOFF-specific metadata is incomplete, the font must be considered a Modified Version, the OFL restrictions would apply and the name of the font must be changed: any RFNs cannot be used and copyright notices and licensing information must be included and cannot be deleted or modified. You must come up with a unique name - we recommend one corresponding to your domain or your particular web application. Be aware that only the original author(s) can use RFNs. This is to prevent collisions between a derivative tuned to your audience and the original upstream version and so to reduce confusion.

Please note that most WOFF conversion tools and online services do not meet the two requirements listed above, and so their output must be considered a Modified Version. So be very careful and check to be sure that the tool or service you're using is compressing unchanged data and completely and accurately reflecting the original font metadata.

2.3 What about other webfont formats such as EOT/EOTLite/CWT/etc.?
In most cases these formats alter the original font data more than WOFF, and do not completely support appropriate metadata, so their use must be considered modification and RFNs may not be used.

2.4 Can I make OFL fonts available through webfont online services?
Yes, you are welcome to include OFL fonts in online webfont services as long as you properly meet all the conditions of the license. The origin and open status of the font should be clear among the other fonts you are hosting. Authorship, copyright notices and license information must be sufficiently visible to your users or subscribers so they know where the font comes from and the rights granted by the author(s). Make sure the font file contains the needed copyright notice(s) and licensing information in its metadata. Please double-check the accuracy of every field to prevent contradictory information. Other font formats, including EOT/EOTLite/CWT and superior alternatives like WOFF, already provide fields for this information. Remember that if you modify the font within your library or convert it to another format for any reason the OFL restrictions apply and you need to change the names accordingly. Please respect the author's wishes as expressed in the OFL and do not misrepresent original designers and their work. Don't lump quality open fonts together with dubious freeware or public domain fonts. Consider how you can best work with the original designers and foundries, support their efforts and generate goodwill that will benefit your service. (See 1.17 for details related to URL-based access restrictions methods or DRM mechanisms).

2.5 Can I make and publish CMS themes or templates that use OFL fonts? Can I include the fonts themselves in the themes or templates? Can I sell the whole package?
Yes, you are very welcome to integrate open fonts into themes and templates for your preferred CMS and make them more widely available. Be aware that you can only sell the fonts and your CMS add-on as part of a software bundle. (See 1.4 for details and examples about selling bundles).
2.6 Some webfont formats and services provide ways of "optimising" the font for a particular website or web application; is that allowed?
Yes, it is permitted, but remember that these optimised versions are Modified Versions and so must follow OFL requirements like appropriate renaming. Also you need to bear in mind the other important parameters beyond compression, speed and responsiveness: you need to consider the audience of your particular website or web application, as choosing some optimisation parameters may turn out to be less than ideal for them. Subsetting by removing certain glyphs or features may seriously limit functionality of the font in various languages used by your users. It may also introduce degradation of quality in the rendering or specific bugs on the various platforms compared to the original font. In other words, remember that one person's optimised font may be another person's missing feature. Various advanced typographic features are also available through CSS and may provide the desired effects without the need to modify the font.

3 MODIFYING OFL-LICENSED FONTS

3.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you are not allowed to remove the copyright statement(s) from the font, but you could put additional information into it that covers your contribution.

3.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

3.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefited from the contributions of others.

3.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way beyond what the OFL permits and requires. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefited from the contributions of others.

3.6 Do I have to make any derivative fonts (including extended source files, build scripts, documentation, etc.) publicly available?
No, but please consider sharing your improvements with others. You may find that you receive in return more than what you gave.

3.7 If a trademark is claimed in the OFL font, does that trademark need to remain in modified fonts?
Yes, any trademark notices must remain in any derivative fonts to respect trademark laws, but you may add any additional trademarks you claim, officially registered or not. For example if an OFL font called "Foo" contains a notice that "Foo is a trademark of Acme", then if you rename the font to "Bar" when creating a Modified Version, the new trademark notice could say "Foo is a trademark of Acme Inc. - Bar is a trademark of Roadrunner Technologies Ltd.". Trademarks work alongside the OFL and are not subject to the terms of the licensing agreement. Please refer to the appropriate trademark laws.

4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL

4.1 Can I use the SIL OFL for my own fonts?
Yes! We heartily encourage everyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom along with enough artistic integrity protection for the work of the authors as well as clear rules for other contributors and those who redistribute the fonts. The licensing model is used successfully by various organisations, both for-profit and not-for-profit, to release fonts of varying levels of scope and complexity.

4.2 What do I have to do to apply the OFL to my font?
If you want to release your fonts under the OFL, we recommend you do the following:

4.2.1 Put your copyright and Reserved Font Names information at the beginning of the main OFL.txt file in place of the dedicated placeholders. Include this file in your release package.

4.2.2 Put your copyright and the OFL text with Reserved Font Names into your font files (the copyright and license fields). A link to the OFL text on the OFL web site is an acceptable (but not recommended) alternative. Also add this information to any other components (build scripts, glyph databases, documentation, test files, etc). Depending on the format of your fonts and sources, you can use template human-readable headers or machine-readable metadata.

4.2.3 Write an initial FONTLOG.txt for your font and include it in the release package.

4.2.4 Include the relevant practical documentation on the license by including the OFL-FAQ.txt in your package.

4.3 Will you make my font OFL for me?
We won't do the work for you. We can, however, try to answer your questions, unfortunately we do not have the resources to review and check your font packages for correct use of the OFL.

4.4 Will you distribute my OFL font for me?
No, although if the font is of sufficient quality and general interest we may include a link to it on our partial list of OFL fonts on the OFL web site. You may wish to consider other open font catalogs or hosting services, such as the Unifont Font Guide (http://unifont.org/fontguide), The League of Movable Type (http://thelanguageofmovablename.com/), Kernest (http://kernest.com/) or the Open Font Library (http://opentfontlibrary.org/), which despite the name has no direct relationship to the OFL or SIL. We do not endorse any particular catalog or hosting service - it is your responsibility to determine if the service is right for you.
4.5 Why should I use the OFL for my fonts?
- to meet needs for fonts that can be modified to support minority languages
- to provide a legal and clear way for people to respect your work but still use it (and reduce piracy)
- to involve others in your font project
- to enable your fonts to be expanded with new weights and improved writing system/language support
- to allow more technical font developers to add features to your design (such as OpenType and Graphite support)
- to renew the life of an old font lying on your hard drive with no business model
- to allow your font to be included in Libre Software operating systems like Ubuntu
- to give your font world status and wide, unrestricted distribution
- to educate students about quality typeface and font design
- to expand your test base and get more useful feedback
- to extend your reach to new markets when users see your metadata and go to your website
- to get your font more easily into one of the webfont online services
- to attract attention for your commercial fonts
- to make money through webfont services
- to make money by bundling fonts with applications
- to make money adjusting and extending existing open fonts
- to get a better chance that foundations/NGOs/charities/companies who commission fonts will pick you
- to be part of a sharing design and development community
- to give back and contribute to a growing body of font sources

5 CHOOSING RESERVED FONT NAMES

5.1 What are Reserved Font Names?
These are font names, or portions of font names, that the author has chosen to reserve for use only with the Original Version of the font, or for Modified Version(s) created by the original author.

5.2 Why can't I use the Reserved Font Names in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Names ensure that the only fonts that have the original names are the unmodified Original Versions. This allows designers to maintain artistic integrity while allowing collaboration to happen. It eliminates potential confusion and name conflicts. When choosing a name, be creative and avoid names that reuse almost all the same letters in the same order or sound like the original. It will help everyone if Original Versions and Modified Versions can easily be distinguished from one another and from other derivatives. Any substitution and matching mechanism is outside the scope of the license.

5.3 What do you mean by "primary name as presented to the user"? Are you referring to the font menu name?
Yes, this applies to the font menu name and other mechanisms that specify a font in a document. It would be fine, however, to keep a text reference to the original fonts in the description field, in your modified source file or in documentation provided alongside your derivative as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder(s) allow(s) it through a separate agreement). Users who install derivatives (Modified Versions) on their systems should not see any of the original Reserved Font Names in their font menus, for example. Again, this is to ensure that users are not confused and do not mistake one font for another and so expect features only another
derivative or the Original Version can actually offer.

5.4 Am I not allowed to use any part of the Reserved Font Names?
You may not use individual words from the Reserved Font Names, but you would be allowed to use parts of words, as long as you do not use any word from the Reserved Font Names entirely. We do not recommend using parts of words because of potential confusion, but it is allowed. For example, if "Foobar" was a Reserved Font Name, you would be allowed to use "Foo" or "bar", although we would not recommend it. Such an unfortunate choice would confuse the users of your fonts as well as make it harder for other designers to contribute.

5.5 So what should I, as an author, identify as Reserved Font Names?
Original authors are encouraged to name their fonts using clear, distinct names, and only declare the unique parts of the name as Reserved Font Names. For example, the author of a font called "Foobar Sans" would declare "Foobar" as a Reserved Font Name, but not "Sans", as that is a common typographical term, and may be a useful word to use in a derivative font name. Reserved Font Names should also be single words. A font called "Flowing River" should have Reserved Font Names "Flowing" and "River", not "Flowing River". You also need to be very careful about reserving font names which are already linked to trademarks (whether registered or not) which you do not own.

5.6 Do I, as an author, have to identify any Reserved Font Names?
No, but we strongly encourage you to do so. This is to avoid confusion between your work and Modified Versions.

5.7 Are any names (such as the main font name) reserved by default?
No. That is a change to the license as of version 1.1. If you want any names to be Reserved Font Names, they must be specified after the copyright statement(s).

5.8 Is there any situation in which I can use Reserved Font Names for a Modified Version?
The Copyright Holder(s) can give certain trusted parties the right to use any of the Reserved Font Names through separate written agreements. For example, even if "Foobar" is a RFN, you could write up an agreement to give company "XYZ" the right to distribute a modified version with a name that includes "Foobar". This allows for freedom without confusion.

5.9 Do font rebuilds require a name change? Do I have to change the name of the font when my packaging workflow includes a full rebuild from source?
Yes, all rebuilds which change the font data and the smart code are Modified Versions and the requirements of the OFL apply: you need to respect what the Author(s) have chosen in terms of Reserved Font Names. However if a package (or installer) is simply a wrapper or a compressed structure around the final font - leaving them intact on the inside - then no name change is required. Please get in touch with the author(s) and copyright holder(s) to inquire about the presence of font sources beyond the final font file(s) and the recommended build path. That build path may very well be non-trivial and hard to reproduce accurately by the maintainer. If a full font build path is made available by the upstream author(s) please be aware that any regressions and changes you may introduce when doing a rebuild for packaging purposes is your responsibility as a package maintainer since you are effectively creating a separate branch. You should make it very clear to your users that your rebuilt version is not the canonical one from upstream.

5.10 Can I add other Reserved Font Names when making a derivative font?
Yes. List your additional Reserved Font Names after your additional copyright statement, as indicated with example placeholders at the top of the OFL.txt file. Be sure you do not remove any exiting RFNs but only add your own.
6 ABOUT THE FONTLOG

6.1 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge authors and other contributors. Please use it!

6.2 Is the FONTLOG required?
It is not a requirement of the license, but we strongly recommend you have one.

6.3 Am I required to update the FONTLOG when making Modified Versions?
No, but users, designers and other developers might get very frustrated with you if you don't. People need to know how derivative fonts differ from the original, and how to take advantage of the changes, or build on them. There are utilities that can help create and maintain a FONTLOG, such as the FONTLOG support in FontForge.

6.4 What should the FONTLOG look like?
It is typically a separate text file (FONTLOG.txt), but can take other formats. It commonly includes these four sections:

- brief header describing the FONTLOG itself and name of the font family
- Basic Font Information - description of the font family, purpose and breadth
- ChangeLog - chronological listing of changes
- Acknowledgements - list of authors and contributors with contact information

It could also include other sections, such as: where to find documentation, how to make contributions, information on contributing organizations, source code details, and a short design guide. See Appendix A for an example FONTLOG.

7 MAKING CONTRIBUTIONS TO OFL PROJECTS

7.1 Can I contribute work to OFL projects?
In many cases, yes. It is common for OFL fonts to be developed by a team of people who welcome contributions from the wider community. Contact the original authors for specific information on how to participate in their projects.

7.2 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back in response to what you've received. Your contributions and improvements to the fonts and other components could be a tremendous help and would encourage others to contribute as well and ‘give back’. You will then benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that clearly when you contribute.

7.3 I’ve made some very nice improvements to the font. Will you consider adopting them and putting them into future Original Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely
need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes - the use of smart source revision control systems like subversion, svk, mercurial, git or bzr is a good idea. Please follow the recommendations given by the author(s) in terms of preferred source formats and configuration parameters for sending contributions. If this is not indicated in a FONTLOG or other documentation of the font, consider asking them directly. Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them) or improved hinting. Keep in mind that some kinds of changes (esp. hinting) may be technically difficult to integrate.

7.4 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Original Version.

8 ABOUT THE LICENSE ITSELF

8.1 I see that this is version 1.1 of the license. Will there be later changes?
Version 1.1 is the first minor revision of the OFL. We are confident that version 1.1 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder(s) can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

8.2 Does this license restrict the rights of the Copyright Holder(s)?
No. The Copyright Holder(s) still retain(s) all the rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder(s) may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder(s) can do this.

8.3 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

8.4 I really like the terms of the OFL, but want to change it a little. Am I allowed to take ideas and actual wording from the OFL and put them into my own custom license for distributing my fonts?
We strongly recommend against creating your very own unique open licensing model. Using a modified or derivative license will likely cut you off - along with the font(s) under that license - from the community of designers using the OFL, potentially expose you and your users to legal liabilities, and possibly put your work and rights at risk. The OFL went through a community and legal review process that took years of effort, and that review is only applicable to an unmodified OFL. The text of the OFL has been written by SIL (with review and consultation from the community) and is copyright (c) 2005-2010 SIL International. You may re-use the ideas and wording (in part, not in whole) in another non-proprietary license provided that you call your license by another unambiguous name, that you do not use the preamble, that you do not mention SIL, and that you clearly present your license as different from the OFL so as not to cause confusion by being too similar to the original. If you feel the OFL does not meet your needs for an open license, please contact us.

8.5 Can I translate the license and the FAQ into other languages?
SIL certainly recognises the need for people who are not familiar with English to be able to understand the OFL and its use. Making the license very clear and readable has been a key goal for the OFL, but we know that people
understand their own language best.

If you are an experienced translator, you are very welcome to translate the OFL and OFL-FAQ so that designers and users in your language community can understand the license better. But only the original English version of the license has legal value and has been approved by the community. Translations do not count as legal substitutes and should only serve as a way to explain the original license. SIL - as the author and steward of the license for the community at large - does not approve any translation of the OFL as legally valid because even small translation ambiguities could be abused and create problems.

SIL gives permission to publish unofficial translations into other languages provided that they comply with the following guidelines:

- Put the following disclaimer in both English and the target language stating clearly that the translation is unofficial:

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- Keep your unofficial translation current and update it at our request if needed, for example if there is any ambiguity which could lead to confusion.

If you start such a unofficial translation effort of the OFL and OFL-FAQ please let us know.

9 ABOUT SIL INTERNATIONAL

9.1 Who is SIL International and what do they do?
SIL serves language communities worldwide, building their capacity for sustainable language development, by means of research, translation, training and materials development. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL’s members and volunteers share a Christian commitment.

9.2 What does this have to do with font licensing?
The ability to read, write, type and publish in one’s own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack), so SIL developed the SIL Open Font License with the help of the Free/Libre and Open Source Software community.

9.3 How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (and contact information) is at: http://scripts.sil.org/OFL
APPENDIX A - FONTLOG EXAMPLE

Here is an example of the recommended format for a FONTLOG, although other formats are allowed.

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FONTLOG for the GlobalFontFamily fonts

This file provides detailed information on the GlobalFontFamily Font Software. This information should be distributed along with the GlobalFontFamily fonts and any derivative works.

Basic Font Information

GlobalFontFamily is a Unicode typeface family that supports all languages that use the Latin script and its variants, and could be expanded to support other scripts.

NewWorldFontFamily is based on the GlobalFontFamily and also supports Greek, Hebrew, Cyrillic and Armenian.

More specifically, this release supports the following Unicode ranges...

This release contains...

Documentation can be found at...

To contribute to the project...

ChangeLog

1 August 2008 (Tom Parker) GlobalFontFamily version 1.2.1
- Tweaked the smart font code (Branch merged with trunk version)
- Provided improved build and debugging environment for smart behaviours

7 February 2007 (Pat Johnson) NewWorldFontFamily Version 1.3
- Added Greek and Cyrillic glyphs

7 March 2006 (Fred Foobar) NewWorldFontFamily Version 1.2
- Tweaked contextual behaviours

1 Feb 2005 (Jane Doe) NewWorldFontFamily Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "NewWorldFontFamily"

1 Jan 2005 (Joe Smith) GlobalFontFamily Version 1.0
- Initial release
Acknowledgements

If you make modifications be sure to add your name (N), email (E), web-address (if you have one) (W) and description (D). This list is in alphabetical order.

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - original Roman glyphs

Fontstudio.org is an not-for-profit design group whose purpose is...
Foobar.org is a distributed community of developers...
Company.com is a small business who likes to support community designers...
University.edu is a renowned educational institution with a strong design department...

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Found in path(s):

1.1445 xorg-x11-drv-v4l 0.2.0-49.el7

1.1445.1 Available under license :

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All licensing questions regarding this software should be directed at the Xorg mailing list:

http://lists.freedesktop.org/mailman/listinfo/xorg

1.1446 open-iscsi 2.1.2
1.1446.1 Available under license:

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.1470 mini-upnp 2.1.2

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/StrongInternPool.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/IndexReader.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1077226901_1601368887.38/0/jandex-1-2-4-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
1.1474 log4j-jboss-logmanager 1.0.1.Final

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**<p>* Creates a new WebUserDataPermission with the specified name and actions. */<p>*<**

* The name contains a URLPatternSpec that identifies the web resources to which the permissions applies. The syntax

* of a URLPatternSpec is as follows:

*<pre>URLPatternList ::= URLPattern | URLPatternList colon URLPattern</pre>*

* URLPatternSpec ::= null | URLPattern | URLPattern colon URLPatternList

*/

* A null URLPatternSpec is translated to the default URLPattern, "/*", by the permission constructor. The empty string is an exact URLPattern, and may occur anywhere in a URLPatternSpec that an exact URLPattern may occur. The first URLPattern in a URLPatternSpec may be any of the pattern types, exact, path-prefix, extension, or default as defined in the Java Servlet Specification). When a URLPatternSpec includes a URLPatternList, the patterns of the URLPatternList identify the resources to which the permission does NOT apply and depend on the pattern type and value of the first pattern as follows:

*<ul>*<li>No pattern may exist in the URLPatternList that matches the first pattern.</li>*

*<li>If the first pattern is a path-prefix pattern, only exact patterns matched by the first pattern and path-prefix patterns matched by, but different from, the first pattern may occur in the URLPatternList.</li>*

*<li>If the first pattern is an extension pattern, only exact patterns that are matched by the first pattern and path-prefix patterns may occur in the URLPatternList.</li>*

*<li>If the first pattern is the default pattern, "/*", any pattern except the default pattern may occur in the URLPatternList.</li>*

*<li>If the first pattern is an exact pattern a URLPatternList must not be present in the URLPatternSpec.</li>*

*/

*/
The actions parameter contains a comma separated list of HTTP methods that may be followed by a transportType separated from the HTTP method by a colon.

ExtensionMethod ::= any token as defined by RFC 2616 (that is, 1*[any CHAR except CTLs or separators])

HTTPMethod ::= "Get" | "POST" | "PUT" | "DELETE" | "HEAD" | "OPTIONS" | "TRACE" | ExtensionMethod

HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod

HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList

HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList | HTTPMethodList

transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"

actions ::= null | HTTPMethodSpec |

HTTPMethodSpec colon transportType

If duplicates occur in the HTTPMethodSpec they must be eliminated by the permission constructor.

An empty string HTTPMethodSpec is a shorthand for a List containing all the possible HTTP methods.

An actions string without a transportType is a shorthand for a actions string with the value "NONE" as its TransportType.

A granted permission representing a transportType of "NONE", indicates that the associated resources may be accessed using any connection type.

@param name
  - the URLPatternSpec that identifies the application specific web resources to which the permission
All URLPatterns in the URLPatternSpec are relative to the context path of the deployed web application module, and the same URLPattern must not occur more than once in a URLPatternSpec. A null URLPatternSpec is translated to the default URLPattern, “/”, by the permission constructor. All colons occurring within the URLPattern elements of the URLPatternSpec must be represented in escaped encoding as defined in RFC 2396.

@throws java.lang.RuntimeException

 */

/**
* <p>
* Returns a canonical String representation of the actions of this WebUserDataPermission. The canonical form of
* the actions of a WebUserDataPermission is described by the following syntax description.
* 
* @param actions
*   - identifies the HTTP methods and transport type to which the permission pertains. If the value passed
*   through this parameter is null or the empty string, then the permission is constructed with actions
*   corresponding to all the possible HTTP methods and transportType "NONE".
* */

* ExtensionMethod ::= any token as defined by RFC 2616
* (that is, 1*[any CHAR except CTLs or separators])
* HTTPMethod ::= "GET" | "POST" | "PUT" | "DELETE" | "HEAD" |
* "OPTIONS" | "TRACE" | ExtensionMethod
* HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod
* HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList
* HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
* HTTPMethodList
* transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"
* actions ::= null | HTTPMethodList |
* HTTPMethodSpec colon transportType
* </pre>
* 
* </p>
* 
* <p>
* If the permission's HTTP methods include the entire HTTP method set and the permission's transport type is
* "INTEGRAL" or "CONFIDENTIAL", the HTTP methods shall be represented in the canonical form by an
* empty string
* HTTPMethodSpec. If the permission's HTTP methods include the entire HTTP method set and the permission's transport
* type is not "INTEGRAL" or "CONFIDENTIAL", the canonical actions value shall be the null value.
* </p>
* 
* <p>
* If the permission's methods do not include the entire HTTP method set, duplicates must be eliminated and the
* remaining elements must be sorted into ascending lexical order. The resulting HTTPMethodList must be
* included in
* the canonical form, and if the permission's transport type is not "INTEGRAL" or "CONFIDENTIAL", the
canonical
* actions value must be exactly the resulting HTTPMethodList.
* */

Found in path(s):
* /opt/cola/permits/1123626722_1610730002.44/0/jboss-jacc-api-1-4-spec-1-0-2-final-sources-1-
  jar/javax/security/jacc/WebUserDataPermission.java

1.1476 bouncy-castle 1.64
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Joshua Hight

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Bihari Babu

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Jens Neuhalfen and perillamint.

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lecker@064buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

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Organisations

1. Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!


3. <a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.

4. TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muelihaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.

5. TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>

6. Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a>

7. <a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.

8. Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.

9. Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.
People

- Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation
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- Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).
- Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.
- Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classloader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).
- Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.
- Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.
- Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.
- Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.
- Uwe Guenther &lt;uwe&#064;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
- Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.
- Waclaw Sierek &lt;waclaw.sierek&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.
- Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.
- Stefan K&ouml;ouml;psell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see &lt;a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a&gt;.
- Carmen Bastiaans &lt;cbastiaa&#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.
- Tomas Gustavsson &lt;tommsg&#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
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PKCS12/keytool interoperability.

- Megan Woods &lt;meganwoods@sekurafie.com&gt; - initial implementation of ECIES.
- Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.
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- Michael Mansell &lt;mailto:me@michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.
- Eike Recker &lt;mailto:eike.recker@4064.gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.
- Chris Southern &lt;mailto:csouthern@4064.baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.
- Sidney Markowitz &lt;mailto:sidney@4064.sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
- Chris Kerr &lt;mailto:ckerr@4064.filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages.
- Martin Petraschek &lt;mailto:e9526225@4064.student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.
- Jess Garms &lt;mailto:jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.
- Mike Bean &lt;mailto:mbean@lucentradius.com&gt; - contributing the initial PKCS7 implementation.
- Shankar Srinivasan &lt;mailto:ssr002@4064.yahoo.com&gt; - S/Mime interoperability testing and debugging.
- Stef Houben &lt;mailto:ilstef@4064.skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.
- Klaudiusz Ciosk &lt;mailto:kciosk@4064.max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.
- Thomas Houtekier &lt;mailto:Thomas.Houtekier@4064.tectrade.net&gt; - S/Mime testing and debugging.
- Kazuo Furuya &lt;mailto:kfuruya@infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny &lt;mailto:jdnovotny@4064.lbl.gov&gt; - initial work on the openSSL PEM processing.
- Joel Hockey &lt;mailto:joel.hockey@q sipayments.com&gt; - initial work on the openSSL PEM processing.
- John Steenbruggen &lt;mailto:JohnS@4064.geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske &lt;mailto:justin@4064.chapweske.com&gt; - ordering patch for Tiger message digest.
- John Seroch &lt;mailto:jserock@4064.hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehnert &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;l_lo@iacono#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach#064;certtivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Marcus Povey &lt;mmpovey#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clausl&szlig;j &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolos Bielza &lt;nicolas.bielza#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
<li>Jarek Gawor &lt;gawor@#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
<li>Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;rn von Kattchee &lt;J.Kattchee@#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Mateo Artuso &lt;matartuso@#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;es@#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>J&ouml;rn Schwarze &lt;JSchwarze@#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;bkl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael H&auml;usler &lt;hausler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva@#064;lex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak@#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen@#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong@#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes@#064;4izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiuro@#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang &lt;kaiseryang@#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec@#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
Justin Kolb &lt;jkolb&#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser&#064064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;m_dvorak&#064064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Ralf Hauser &lt;ralfhauser&#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Olivier Refalo &lt;Olivier_Refalo&#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola&#064cryptotech.com.pl&gt; - patch to DERSignedObject. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein&#064064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;ian&#064064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;s34gull&#064064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew&#064064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl&#064064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers&#064esat.kuleuven.ac.be&gt; - help with Ripemd320 implementation.

Peter Sylvester &lt;Peter.Sylvester&#064064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmm#&lt;064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fsstaes#&lt;064netconsult.be&gt; - improvements to DEBitString, DERSignedObject and initial implmentation of DERSignedObject, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer#&lt;064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez#&lt;064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright#&lt;064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim#&lt;064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler#&lt;064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhota &lt;psai#&lt;064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph#&lt;064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz#&lt;064sgedemnenkark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen#&lt;064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun#&lt;064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem#&lt;064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva#&lt;064wedoconsulting.com&gt; - patch to fix overead issue in
BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jengelbach@#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGPSignatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@#064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;c.Breitenstrom@#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti@#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nsgendoni@#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skytti &amp;uml; &lt;ville.skytta@#064iki.fi&gt; - patch to CRLEntityPoint for CRLEntity field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;miles.whiteley@#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos@#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@#064javicodewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;bahtin@#064sir-wum.de&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3140, EC GOST-3140, GOST OBF mode (GOBF) and GOST-3411.</li>
<li>Franck Leroy &lt;franck.leroy@#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov &lt;tyrex@#064rekssoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;d.eisner@#064seeberger.de&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump.
Andrew Paterson &lt;andrew.paterson@burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;pvauvas@064gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@064mux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Łukasz Kowalczyk &lt; lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;tuvi@cung@064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;lbugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;David.Josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators, RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin Häubl &lt;berling@arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rojaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies &lt;juliusdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g&#064#064ttnert.de&gt; - GnuPG compatibility changes for PBFileProcessor.

Olga K&amp;amp;uuml;aehler &lt;olga.kaehler&#064;#064hjp-consulting.com&gt; - initial implementation of TeleTruST EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo&#064;#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;amp;uuml;acute Mar&amp;amp;iacute; &lt;#064numaa&#064;#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js#064#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike&#064;#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;#064stjohns&#064;comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller&#064;&#064;#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark&#064;#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff#064ukr.net&gt; - mask fix to single byte read in TlsInputstream.

Julien Pasquier &lt;#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;#064knopp&amp;#064#064mtg.net&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdu&#064;#0644rgp.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow&#064;#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;#064yacobi&amp;#064#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi#064gmail.com&amp;#064t&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn#064jrnm.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.

Gabriele Contini &lt;gcontinent#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude&amp;#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck&amp;#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;#064lemaynd&amp;#064#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale&amp;#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.set TrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larra&amp;tilde;aga &lt;#064larra&amp;#064s21sec.com&gt; - fix to default partial packet generation in
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; port for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Stefan Meyer &lt;stefan.meyer@ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Stefan Meyer &lt;stefan.meyer@ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
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<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Wayne Grant &lt;wayne.grant@gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info@frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittbener &lt;jan@dittbener.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;bob.mcgowan@btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;matheis@seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alf.malf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikociski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hp-consulting.com&gt; fine tuning of code for DHPARAMs validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKingRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynecit.is&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;brbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064ntgtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@064WPECGLtlYbV1i8Rl6Y7Vzt2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay &lt;pilf_b@yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bc4carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1

SecretKeyFactory.

Samuel Lidkeacuten Borell &lt;samuel#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skene, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputSteam implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSD BCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d#064gmail.com&gt; initial cut of DVCS classes.

Daniele Ricci &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;andrei.athome#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;Roberto.Tyley#064orionhealth.com&gt; further work on completing gradle build.
Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin@64google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student@64gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter@64iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@64gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@64cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts@064risecure.com&gt; Updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb@64yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco@064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaeff &lt;https://github.com/martinschaeff&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;tosias.wich@064cese.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke@064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz@064galoli.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;j.kapitza@schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan@064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;axel-vdb@riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek@ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;peto@064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot &lt;thomas.belot+BC@64gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schürmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;MSKnete@64web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for
Tobias Wagner &lt;tobias.wagner@n-design.de&gt; Fix SecureRandom handling in BcaSymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro@#64google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen+bouncycastle@#64xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublic-KeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@bouncycastle.lxtreme.nl&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@#64opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;nfinik95@#64gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, Blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lukasz.deputat@#64gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjactory to handle stream packets at start of iterated data.

Andr&eaucute; Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77@#64gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegel &lt;naegele@#64gierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSApublicKey.

Alexandr Krivoshta &lt;wipe@#64ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storozhs@#64gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@#64samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@#64mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for...
McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storois72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser@#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszzz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminter &lt;https://github.com/jminter&gt; &amp; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;scott@#064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Srawn &lt;https://github.com/isomarcte&gt; &amp; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&amp;gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal(</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;https://github.com/fgrieu&gt; identification and suggested fixes for possible timing vulnerability in
OAEPEncoding and RSACoreEngine.


Andreas Gadermaier &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;https://github.com/mtgag&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;https://github.com/tonywasher&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Galis95 &lt;https://github.com/Galis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Touilme &lt;https://github.com/atouilme&gt; Initial implementation of EthereumISEEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;r, TrueSec &lt;https://github.com/truesec&gt; Additional improvements to constant time comparisons.

Ren&eacute; Korthaus &lt;https://github.com/korthaus&gt; Initial implementation of EthereumISEEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;r, TrueSec &lt;https://github.com/truesec&gt; Additional improvements to constant time comparisons.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/GaylorBosson&gt; Initial implementation of Blake2xs.

gaelialaire &lt;https://github.com/gaelialaire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/nickhitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

danielheldt &lt;https://github.com/danielheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekw &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; Addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospe &lt;https://github.com/TobiasOspe&gt; Identification of 1.63 regression in ASN.1 parsing.
1.1477.1 Available under license:

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Found license 'GNU Lesser General Public License' in "* This copyrighted material is made available to anyone wishing to use, * modify, copy, or redistribute it subject to the terms and conditions * of the GNU Lesser General Public License, v. 2.1. * This program is distributed in the hope that it will be useful, but WITHOUT A * WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A * PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. * You should have received a copy of the GNU Lesser General Public License, * MA 02110-1301, USA.* Hewlett-Packard Company Confidential' Found license 'GNU Lesser General Public License' in "* by the @authors tag. All rights reserved. * This copyrighted material is made available to anyone wishing to use, * modify, copy, or redistribute it subject to the terms and conditions * of the GNU Lesser General Public License, v. 2.1. * This program is distributed in the hope that it will be useful, but WITHOUT A * WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A * PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. * You should have received a copy of the GNU Lesser General Public License, * MA 02110-1301, USA.'

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1.1479 wpa-supplicant 2.6-12.el7

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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under certain conditions; type `show c' for details.
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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<?xml version="1.0" encoding="UTF-8"?>
<interface>
<!-- interface-requires gtk+ 3.6 -->
<!-- interface-requires AnacondaWidgets 1.0 -->
<object class="GtkTextBuffer" id="eulaBuffer">
  <property name="text">The license will go here</property>
</object>
<object class="AnacondaSpokeWindow" id="eulaWindow">
  <property name="can_focus">False</property>
  <property name="hexpand">True</property>
  <property name="vexpand">True</property>
  <property name="window_name" translatable="yes">LICENSE INFORMATION</property>
  <signal name="button-clicked" handler="on_back_clicked" swapped="no"/>
  <child internal-child="main_box">
    <object class="GtkBox" id="AnacondaSpokeWindow-main_box1">
      <property name="can_focus">False</property>
      <property name="orientation">vertical</property>
      <property name="spacing">6</property>
      <child internal-child="nav_box">
        <object class="GtkEventBox" id="AnacondaSpokeWindow-nav_box1">
          <property name="app_paintable">True</property>
          <property name="can_focus">False</property>
          <property name="margin_left">6</property>
          <property name="margin_right">6</property>
          <child internal-child="nav_area">
            <object class="GtkGrid" id="AnacondaSpokeWindow-nav_area1">
              <property name="can_focus">False</property>
              <property name="margin_left">6</property>
              <property name="margin_right">6</property>
          </child>
        </object>
      </child>
    </object>
  </child>
</object>
1.1487 lvm2 1.02.158-2.el7_7.2

1.1487.1 Available under license:

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Version 2.1, February 1999

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jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/LocalConnector.java
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jar/org/eclipse/jetty/server/AbstractNetworkConnector.java
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jar/org/eclipse/jetty/server/LowResourceMonitor.java
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jar/org/eclipse/jetty/server/RequestLog.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/CookieCutter.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/NetworkTrafficServerConnector.java
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jar/org/eclipse/jetty/server/SessionManager.java
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jar/org/eclipse/jetty/server/handler/HandlerCollection.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/HomeBaseWarning.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/handler/InetAccessHandler.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/session/SessionHandler.java
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1-
jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
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jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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jar/org/eclipse/jetty/server/session/jmx/package-info.java
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
jar/org/eclipse/jetty/server/ClassLoaderDump.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
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* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
jar/org/eclipse/jetty/server/handler/AsyncDelayHandler.java
* /opt/cola/permits/1002303148_1606975621.22/0/jetty-server-9-2-19-v20160908-sources-1
jar/org/eclipse/jetty/server/session/SessionFilter.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/XPathExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/ext/UpperFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/Step.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/NodeTypeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/NotFunction.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultCommentNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultFilterExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultInitializedExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultNotEqualsExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultXPathExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/util/ArrayUtil.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/util/Iterator.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/variable/Context.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/variable/Context.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/variable/Function.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/variable/Function.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources.jar/org/jaxen/expr/DefaultPredicate.java

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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/FollowingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/DescendantAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/Navigator.java

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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/saxpath/base/TokenTypes.java

1.1491 binutils 2.23.52

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.
Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Encoding: 169 169 102
GlifName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
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335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 510 508 541 494 c 1
526 452 l 1
499 462 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
530 674 618 630 673 576 c 0
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          )
url='http://pypi.python.org/pypi/decorator',
license="BSD License",
package_dir = {"": 'src'},
py_modules = ['decorator'],
keywords="decorators generic utility",
platforms=['All'],
classifiers=['Development Status :: 5 - Production/Stable',
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    'Natural Language :: English',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 3',
    'Topic :: Software Development :: Libraries',
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use_2to3=True,
zip_safe=False)

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Decorator module
=================

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that
Python 3 requires the easy_install version of the distribute_project.

If you prefer to install the full distribution from source, including
the documentation, download the tarball, unpack it and run

$ python setup.py install
in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
-------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_

- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
The project is hosted on GoogleCode as a Mercurial repository. You
can look at the source here:

http://code.google.com/p/michelles/source/browse/#hg%2Fdecorator

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

Installation
-------------

If you are lazy, just perform

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.. _`HTML version (Python 2)`: http://micheles.googlecode.com/hg/decorator/documentation.html
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Repository
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Keywords: decorators generic utility
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauichmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- visions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christiaan Engstrom (christiaan.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (spionage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un50fn902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogueff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaug (Gottfried.Ganssauge -at- HAUF.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- uni-bw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twenty.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufll.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufll.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, lle - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempf (krempf -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
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1.1513 anaconda-user-help 7.5.3-1.el7

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* /opt/cola/permits/1148332585_1619430642.71/0/anaconda-user-help-7.5.3-1.el7-1.src.rpm-cosi-expand-archive-qbEv0zlf/anaconda-user-help-7.5.3.tar.gz-cosi-expand-archive-8bFnQ1i7/anaconda-user-help-7.5.3/en-US/Kickstart2.xml
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### 1.1514 Isscsi 0.27-6.el7

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1.1524 shiro-config-ogdl 1.7.1

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

Akemi Matsuno-Yagi
Alain Reguera Delgado
Alan Bartlett
Andreas Thienemann
Anssi Johansson
Athmane Madjoudj
Bonnie King
Brian Stinson
Carl Trieloff
Christoph Galuschka
Fabian Arrotin
Jakub Filak
James Moger
Jeff Sheltren
Jim Perrin
Johnny Hughes Jr
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/IncidentEdgeSet.java

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 */
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* `<p>` We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/PekingIterator.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableEntry.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMapFauxinverseShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/package-info.java

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*/
*/
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LittleEndianByteArray.java

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/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ComputationException.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableList.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ComparisonChain.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/TypeVisitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/VerifyException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Verify.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberExceptionContext.java

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jar/com/google/common/util/concurrent/MoreExecutors.java
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* /*
* /*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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* */

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jar/com/google/common/base/SmallCharMatcher.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ObjectArrays.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingListMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingGraph.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingValueGraph.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Graphs.java

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * 
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}</b>.
 */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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  jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/UnsignedLongs.java
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  jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/PrimitiveSink.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/AbstractMapBasedMultiset.java
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  jar/com/google/common/graph/Traverser.java
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jar/com/google/common/collect/MapMakerInternalMap.java
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Class, field, and method level annotations for describing thread-safety policies.

Three class-level annotations describe the intended thread-safety promises of a class: `@Immutable`, `@ThreadSafe`, and `@NotThreadSafe`. `@Immutable` means that the class is immutable, and implies `@ThreadSafe`. `@NotThreadSafe` is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use `@NotThreadSafe`. These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether
thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `<code>@Immutable</code>` actually is immutable.

<h2>Field and method annotations</h2>

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `<code>@GuardedBy(lock)</code>` annotation documents that a field or method should be accessed only with a specific lock held.

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=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
  local $Data::Dumper::Purity = 1;
  eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$dd = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
...
print $dd->Dump;
...
$dd->Purity(1)->Terse(1)->Deepcopy(1);
eval $dd->Dump;

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR$I<n> (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR$I<n> will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR$I<n> will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will
describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*> to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item I$OBJ->Dump  I<or>  I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item I$OBJ->Seen(I<HASHREF>)
Queries or adds to the internal table of already encountered references. You must use \texttt{C<Reset>} to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in \texttt{C<new>}. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

\begin{verbatim}
=item I<$OBJ>->Values(I<ARRAYREF>)
\end{verbatim}

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

\begin{verbatim}
=item I<$OBJ>->Names(I<ARRAYREF>)
\end{verbatim}

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.

\begin{verbatim}
=item I<$OBJ>->Reset
\end{verbatim}

Clears the internal table of "seen" references and returns the object itself.

=back

=head2 Functions

=over 4

=verbatim

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named \texttt{C<$VAR>I<n> in the output, where \texttt{I<n> is a numeric suffix. Will return a list of strings in a list context.}}

=back
Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<localized> in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=item *

$Data::Dumper::Indent  I<or>  I<$OBJ>-Indent(I<[NEWVAL]>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Purity  I<or>  I<$OBJ>-Purity(I<[NEWVAL]>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad  I<or>  I<$OBJ>-Pad(I<[NEWVAL]>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.
=item *

$Data::Dumper::Varname I<or> I<$OBJ>-&gt;Varname(I&lt;[NEWVAL]&gt;)

Contains the prefix to use for tagging variable names in the output. The
default is "VAR".

=item *

$Data::Dumper::Useqq I<or> I<$OBJ>-&gt;Useqq(I&lt;[NEWVAL]&gt;)

When set, enables the use of double quotes for representing string values.
Whitespace other than space will be represented as C&lt;\n\t\r&gt;, "unsafe"
characters will be backslashed, and unprintable characters will be output as
quoted octal integers. Since setting this variable imposes a performance
penalty, the default is 0. C&lt;Dump()&gt; will run slower if this flag is set,
since the fast XS implementation doesn't support it yet.

=item *

$Data::Dumper::Terse I<or> I<$OBJ>-&gt;Terse(I&lt;[NEWVAL]&gt;)

When set, Data::Dumper will emit single, non-self-referential values as
atoms/terms rather than statements. This means that the C&lt;VAR&gt; I&lt;n&gt; names
will be avoided where possible, but be advised that such output may not
always be parseable by C&lt;eval&gt;.

=item *

$Data::Dumper::Freezer I<or> I<$OBJ>-&gt;Freezer(I&lt;[NEWVAL]&gt;)

Can be set to a method name, or to an empty string to disable the feature.
Data::Dumper will invoke that method via the object before attempting to
stringify it. This method can alter the contents of the object (if, for
instance, it contains data allocated from C), and even rebless it in a
different package. The client is responsible for making sure the specified
method can be called via the object, and that the object ends up containing
only perl data types after the method has been called. Defaults to an empty
string.

If an object does not support the method specified (determined using
UNIVERSAL::can()) then the call will be skipped. If the method dies a
warning will be generated.

=item *

$Data::Dumper::Toaster I<or> I<$OBJ>-&gt;Toaster(I&lt;[NEWVAL]&gt;)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax \texttt{C<bless(DATA, CLASS)-E\&gt;METHOD()}>. Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *

\$Data::Dumper::Deepcopy \texttt{I<or> \$I<OBJ>-Deepcopy(I<[NEWVAL]>)}

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.

=item *

\$Data::Dumper::Quotekeys \texttt{I<or> \$I<OBJ>-Quotekeys(I<[NEWVAL]>)}

Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

\$Data::Dumper::Bless \texttt{I<or> \$I<OBJ>-Bless(I<[NEWVAL]>)}

Can be set to a string that specifies an alternative to the \texttt{C<bless>} builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is \texttt{C<bless>}.

=item *

\$Data::Dumper::Pair \texttt{I<or> \$I<OBJ>-Pair(I<[NEWVAL]>)}

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: \texttt{C<$Data::Dumper::Pair = ': '>} . Implementing \texttt{C<bless>} in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin. Default is: \texttt{C< =E\&gt;>}. 

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when \texttt{C<Data::Dumper::Purity>} is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

Can be set to a boolean value which controls whether the pure Perl implementation of \texttt{C<Data::Dumper>} is used. The \texttt{C<Data::Dumper>} module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case \texttt{C<Data::Dumper>} will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, \texttt{C<B::Deparse>} will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.
Caution: use this option only if you know that your coderefs will be properly reconstructed by C<B::Deparse>.

=item *

$Data::Dumper::Sparseseen 1<or> $I<OBJ>-\rightarrow Sparseseen(1<[NEWVAL]>)

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the C<Seen()> call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the C<Sparseseen> option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;

sub new {bless ['a' => 1, 'b' => sub { return "foo" }], $_.[0]};
package Fuz; # a weird REF-REF-SCALAR object
sub new {bless \$_ = \'fu\'z\', \$_[0];}

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \$foo,
    {1 => 'a', 023 => 'b', 0x45 => 'c'},
    \"p\q\r\", $foo, $fuz];

#####
# simple usage
#####

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar); # pretty print (no array indices)

$Data::Dumper::Terse = 1; # don't output names where feasible
$Data::Dumper::Indent = 0; # turn off all pretty print
print Dumper($boo), \"n\";

$Data::Dumper::Indent = 1; # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3; # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1; # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : "; # specify hash key/value separator
print Dumper($boo);

#####
# recursive structures
#####

@c = ('c');
$e = \@c;
$b = { ];
$sa = [1, $b, $c];
$b->{a} = $sa;
$b->{b} = $sa->[1];
$b->{c} = $sa->[2];
print Data::Dumper->Dump([$sa,$b,$c], [qw(a b c)]);
$Data::Dumper::Purity = 1;   # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]);  # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);  # print as %b

$Data::Dumper::Deepcopy = 1;   # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;   # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

# deep structures
#
$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };  
$d = [ $c ];
$e = { 'd' => $d };  
$f = { 'e' => $e };  
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;   # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);

# object-oriented usage
#
$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen( { '*c' => $c } );   # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);   # empty the seen cache
print join "----
", $d->Dump;

# persistence
#
package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
my $s = shift;
print STDERR "preparing to sleep\n";
$s->{state} = 'asleep';
return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
    my $s = shift;
    print STDERR "waking up\n";
    $s->{state} = 'awake';
    return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########

sub foo { print "foo speaking\n" }
*other = &foo;
$bar = [ &other ];
$d = Data::Dumper->new([&other,$bar],['*other','bar']);
$d->Seen({ '*foo' => &foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { (ord, "$\_\$\_\$\_") } 'T.' 'Q' };  
my $bar = { %$foo };  
my $baz = { reverse %$foo };  
print Dumper [ $foo, $bar, $baz ];


Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 32820
sub my_filter {
    my ($hash) = @_;  
    # return an array ref containing the hash keys to dump
    # in the order that you want them to be dumped
    return [  
        # Sort the keys of %$foo in reverse numeric order
        $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :  
        # Only dump the odd number keys of %$bar
        $hash eq $bar ? (grep {$_ % 2} keys %$hash) :  
        # Sort keys in default order for all other hashes
        (sort keys %$hash)
    ];
}

=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an array or hash. Prepend it with a C<\> to pass its reference instead. This will be remedied in time, now that Perl has subroutine prototypes. For now, you need to use the extended usage form, and prepend the name with a C<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is encountered in the structure being processed (and if you haven't set the C<Deparse> flag), an anonymous subroutine that contains the string "DUMMY" will be inserted in its place, and a warning will be printed if C<Purity> is set. You can C<eval> the result, but bear in mind that the anonymous sub that gets created is just a placeholder. Someday, perl will have a switch to cache-on-demand the string representation of a compiled piece of code, I hope. If you have prior knowledge of all the code refs that your data structures are likely to have, you can use the C<Seen> method to pre-seed the internal reference table and make the dumped output point to them, instead. See L</EXAMPLES> above.

The C<Useqq> and C<Deparse> flags makes Dump() run slower, since the XSUB implementation does not support them.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different ordering of hash keys. The change was done for greater security, see L<perlsec/"Algorithmic Complexity Attacks">. This means that
different runs of Perl will have different Data::Dumper outputs if the data contains hashes. If you need to have identical Data::Dumper outputs from different runs of Perl, use the environment variable PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores the old (platform-specific) ordering: an even prettier solution might be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

Gurusamy Sarathy  gsar@activestate.com

Copyright (c) 1996-98 Gurusamy Sarathy. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 VERSION

Version 2.145  (March 15 2013)

=head1 SEE ALSO

perl(1)

=cut

Found in path(s):

No license file was found, but licenses were detected in source scan.

/

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.012004.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

_SKIP

=pod
NAME

ppport.h - Perl/Pollution/Portability version 3.20

SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help              show short help

--version           show version

--patch=file        write one patch file with changes
--copy=suffix       write changed copies with suffix
--diff=program     use diff program and options

--compat-version=version  provide compatibility with Perl version
--cplusplus         accept C++ comments

--quiet          don't output anything except fatal errors
--nodiag          don't show diagnostics
--nohints         don't show hints
--nochanges       don't suggest changes
--nofilter        don't filter input files

--strip           strip all script and doc functionality from
                   ppport.h

--list-provided    list provided API
--list-unsupported list unsupported API
--api-info=name    show Perl API portability information

COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

OPTIONS

--help

Display a brief usage summary.

--version

Display the version of F<ppport.h>.
=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability.
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
texts. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.  
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.  
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION
In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.  These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL
Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
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<td>NEED_grok_number_GLOBAL</td>
</tr>
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<td>grok_numeric_radix()</td>
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<td>NEED_grok_numeric_radix_GLOBAL</td>
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<td>NEED_newCONSTSUB_GLOBAL</td>
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<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
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<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
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<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
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<td>NEED_sv_catpvf_mg_GLOBAL</td>
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<tr>
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<td>sv_setpvn_mg()</td>
<td>NEED_sv_setpvn_mg</td>
<td>NEED_sv_setpvn_mg_GLOBAL</td>
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<tr>
<td>sv_setpvn_mg_nocontext()</td>
<td>NEED_sv_setpvn_mg_nocontext</td>
<td>NEED_sv_setpvn_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvnf()</td>
<td>NEED_vnewSVpvnf</td>
<td>NEED_vnewSVpvnf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.
The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use
perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[(\w.]+)/;

my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '\[ \t\]';  # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*.*\*/';
my $cce = '.*?/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
}
Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
)) or usage();

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: "$opt{'compat-version'}"
";
    }
    die "Only Perl 5 is supported" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^]*)$/
    ? ( $1 =>
        ( $2                  ? ( base     => $2 ) : ()),
        ( $3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    )
    : die "invalid spec: $_" } qw(
AvFILL|p|5.004050||p
AvFILL||
BhkDISABLE||5.014000|
BhkENABLE||5.014000|
BhkENTRY_set||5.014000|
BhkENTRY||
)
Nullsv
OP_CLASS|5.013007
OP_DESC|5.007003
OP_NAME|5.007003
ORIGMARK|
PAD_BASE_SV|
PAD_CLONE_VARS|
PAD_COMPNAME_FLAGS|
PAD_COMPNAME_GEN_set|
PAD_COMPNAME_GEN|
PAD_COMPNAME_OURSTASH|
PAD_COMPNAME_PV|
PAD_COMPNAME_TYPE|
PAD_DUP|
PAD_RESTORE_LOCAL|
PAD_SAVE_LOCAL|
PAD_SAVE_SETNULLPAD|
PAD_SETSV|
PAD_SET_CUR_NOSAVE|
PAD_SET_CUR|
PAD_SV|
PAD_SV|
PERLIO_FUNCS_CAST|5.009003|p
PERLIO_FUNCS_DECL|5.009003|p
PERL_ABS|5.008001|p
PERL_BCDVERSION|5.014000|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001|p
PERL_HASH|5.004000|p
PERL_INT_MAX|5.004000|p
PERL_INT_MIN|5.004000|p
PERL_LONG_MAX|5.004000|p
PERL_LONG_MIN|5.004000|p
PERL_MAGIC_arylen|5.007002|p
PERL_MAGIC_backref|5.007002|p
PERL_MAGIC_bm|5.007002|p
PERL_MAGIC_collxfrm|5.007002|p
PERL_MAGIC_dbfile|5.007002|p
PERL_MAGIC_dbline|5.007002|p
PERL_MAGIC_defelem|5.007002|p
PERL_MAGIC_envelem|5.007002|p
PERL_MAGIC_env|5.007002|p
PERL_MAGIC_ext|5.007002|p
PERL_MAGIC_fm|5.007002|p
PERL_MAGIC_glob|5.014000|p
PERL_MAGIC_isaelem|5.007002|p
PERL_MAGIC_isa|5.007002|p
PERL_MAGIC_mutex|5.014000|p
PERL_MAGIC_nkeys|5.007002|p
PERL_SYS_INIT3 5.006000
PERL_SYS_INIT 5.006000
PERL_SYS_TERM 5.014000
PERL_UCHAR_MAX 5.004000
PERL_UCHAR_MIN 5.004000
PERL_UINT_MAX 5.004000
PERL_UINT_MIN 5.004000
PERL ULONG_MAX 5.004000
PERL ULONG_MIN 5.004000
PERL UNUSED_ARG 5.009003
PERL UNUSED_CONTEXT 5.009004
PERL UNUSED_DECL 5.007002
PERL UNUSED_VAR 5.007002
PERL_UQUAD_MAX 5.004000
PERL_UQUAD_MIN 5.004000
PERL_USE_GCC_BRACE_GROUPS 5.009004
PERL_USHORT_MAX 5.004000
PERL_USHORT_MIN 5.004000
PERL_VERSION 5.006000
PL_DBsignal 5.005000
PL_DBsingle 5.005000
PL_DBsub 5.005000
PL_DBtrace 5.005000
PL_Sv 5.005000
PL_bufend 5.014000
PL_bufptr 5.014000
PL_compiling 5.004050
PL_copline 5.014000
PL_curcop 5.004050
PL_curstash 5.004050
PL_debstash 5.004050
PL_defgv 5.004050
PL_diehook 5.004050
PL_dirty 5.004050
PL_dowarn 5.004050
PL_errof 5.004050
PL_error_count 5.014000
PL_expect 5.014000
PL_hexdigit 5.005000
PL_hints 5.005000
PL_in_my_stash 5.014000
PL_in_my 5.014000
PL_keyword_plugin 5.011002
PL_last_in_gv 5.011002
PL_laststatval 5.005000
PL_lex_state 5.014000
PL_lex stuff 5.014000
PL_line 5.014000
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>SvNIOKp</td>
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<td>SvNOK_off</td>
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<td>SvNOK_only</td>
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<td>SvNOK_on</td>
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<td>SvNOKp</td>
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</tr>
<tr>
<td>SvPOK_off</td>
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}

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else {
    $function->[1] = $_;}
}

$function = [S1, ""] if m{/^DPPP__(my_(\w+))/};

$replace   = $1 if m{^[^s*srcce\s+Replace:\s+(\d+)+\s+srcce\s*\$];
$replace{$2} = $1 if $replace and m{^[^s*#s*define\s+(\w+)\s+\(\(\^\s*\(\^\)\s*)\)?\s+\(\w+\)];
$replace{$2} = $1 if m{^[^s*srcce\s+Replace\(\w+\) with \(\w+\)+\s+srcce\s*\$];
$replace{$1} = $2 if m{^[^s*srcce\s+\(\w+\)+\s+depends\s+on\s+\(\w+\)+\s+srcce\s*\$];

if (m{^[^s*srcce\s+\(\w+\)+\s+depends\s+\(\w+\)+\s+srcce\s*\$]) {
    my @deps = map { s/\s+///g; $_ } split /,/, $3;
    my $d;
    for $d (map { s/\s+///g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^[^s*defined\(\$NEED_\(\w+\)+\s+GLOBAL\)\?\$];

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}\\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n
";
        my $info = 0;
        if ($API{$_}{base} || $API{$_}{todo}) {
            my $base = format_version($API{$_}{base} || $API{$_}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$_}{provided}) {
            my $todo = $API{$_}{todo} ? format_version($API{$_}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f in $need{$_} if exists $need{$_};
            print "\nShints{$_}" if exists Shints{$_};
            print "\nWARNING:\n$warnings{$_}" if exists $warnings{$_};
        }
    }
$info++;  
}  
print "No portability information available.\n" unless $info;  
$count++;  
}  
$count or print "Found no API matching \"$opt{'api-info'}\".\n";  
print \"un\";  
extit 0;  
}  

if (exists $opt{'list-provided'}) {  
my $f;  
for $f (sort { lc $a cmp lc $b } keys %API) {  
next unless $API{$f}{provided};  
my @flags;  
push @flags, 'explicit' if exists $need{$f};  
push @flags, 'depend' if exists $depends{$f};  
push @flags, 'hint'  if exists $hints{$f};  
push @flags, 'warning' if exists $warnings{$f};  
my $flags = @flags ? '['.join(', ', @flags).']' : '';  
print "$f$flags\n";  
}  
exit 0;  
}  

my @files;  
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );  
my $srcext = join '|', map { quotemeta $_ } @srcext;  

if (@ARGV) {  
my %seen;  
for (@ARGV) {  
if (-e) {  
if (-f) {  
push @files, $_ unless $seen{$_}++;  
}  
else { warn "'$_' is not a file.\n" }  
}  
else {  
my @new = grep { -f } glob $_      
or warn "'$_' does not exist.\n";  
push @files, grep { !$seen{$_}++ } @new;  
}  
}  
else {  
eval {  
require File::Find;  
}  
}  
}  
else {  
eval {  
require File::Find;  
}  
}
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*

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```perl
$func = 'my $func;

for ($func (keys %API) {
  my $match = $func;
  $match = "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses}{$_} = 1 unless exists $file{uses}{$_};
        }
      }
    }
    $file{needs}{$_} = 'static' if exists $need{$_};
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /\b$func\b/) {
      $file{uses_todo}{$func}++;
    }
  }
  } else {
    %API{$func} = ();
  }
}
while ($c =~ /^\b\*define\{ NEED_(\w+)?(_GLOBAL)? \}/i) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
}
```

else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}

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else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{/bPerl_$func\(s*\)\((S*aTHX_\?)?s*\)}{$func$1(}g);
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join('', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
             format_version($API{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ""
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}
for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
        }
        $pp .= "#define NEED_${func}$suffix\n";
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "";
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include "$ppport"\n";
        $pp .= qq(#include "$ppport"\n)
    }
}
if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*/$1$pp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*Q$ppport(E)/$pp/m)
        || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.\w+?)/$1$pp/m)
        || ($c =~ s/$pp/);}
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \$ppport");
        $file{changes} += ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : "";
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "";
my $warn = $warnings ? " ($warnings warning$s)" : "";
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
            }
        }
    } else {
        local *F;
        if (open F, ">$newfile") {
            info("Writing copy of '$filename' with changes to '$newfile'");
        }
    }
}
print F $c;
close F;
}
else {
    error("Cannot open '$newfile' for writing: $!" Ce
    }
}
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
} else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
    eval "use @_;"; return @$ eq "
}

sub mydiff {

local *F = shift;
my($file, $str) = @_; 
my $diff;

if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
}

if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
    }

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ } 
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
while (<F>) {
    s/Q$\text{tmp}\Q/\text{file.patched}/;  
    $diff .= $_.;
}
close F;
unlink $\text{tmp};
return $\text{diff};
}

unlink $\text{tmp};
}
else {
    error("Cannot open "$\text{tmp}" for writing: $!'");
}
return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $\text{depends}[$func];
    $seen = %${$seen||{}};
    return () if $seen->{$func}++; 
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version {
    my $\text{ver} = shift;
    if ($\text{ver} =~ /^\d+\.(\d+).\d+}$/) {
        return ($1, $2, $3);
    }
    elsif ($\text{ver} !~ /^\d+.\d+$/) {
        die "cannot parse version "$\text{ver}"un";
    }

    $\text{ver} =~ s/_//g;
    $\text{ver} =~ s/$/000000/;

    my($\text{r},$\text{v},$\text{s}) = $\text{ver} =~ /\d+/.\d+$/;

    $\text{v} = int $\text{v};
    $\text{s} = int $\text{s};

    if ($\text{r} < 5 || ($\text{r} == 5 && $\text{v} < 6)) {
if ($s % 10) {
    die "cannot parse version '$ver'\n";
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;
    }

    return $ver;
}

return sprintf "%.%d%.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
}
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip

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Found in path(s):

No license file was found, but licenses were detected in source scan.

---

abstract: unknown
author:
- unknown
build_requires:
Test::More: 0.98
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Data-Dumper
no_index:
directory:
- t
- inc
requires: {}
resources:
bugtracker: http://rt.perl.org/perlbug/
repository: 'git://perl5.git.perl.org/perl.git perl-git'
x_MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
version: 2.145

Found in path(s):

1.1566 cups 1.6.3-40.el7

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1 Infinite Loop
Cupertino, CA 95014 USA

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Preamble

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) Give prominent notice with the combined library of the fact
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That's all there is to it!

1.1567 gnome-python 2.28.1-14.el7

1.1567.1 Available under license:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.1568 xnio-api 3.0.7.GA-redhat-1

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1.1569 ironjacamar-spec-api 1.0.15.Final

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1.1570 xorg-server 1.20.9

1.1570.1 Available under license:

No license file was found, but licenses were detected in source scan.

commit 94f036d412f4f426abe950b57b9ee99b78068c39
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 25 13:31:13 2019 -0500

xserver 1.20.4

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9850d20c2aa2d8380f2e9c4521ef3c46a6c8fb00
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Feb 22 10:22:49 2019 +0100

gitlab-ci: Run make distcheck in autotools build & test job

We don't set the PIGLIT_DIR and XTS_DIR environment variables for make distcheck for now, otherwise it complains about files left behind by piglit.

(cherry picked from commit 432fad04e7aad1f10d732a51665eebe934246c6)

commit fcac9b10e90c8a06c60f563f5ad8da1d4e49b7fc
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Feb 22 10:21:27 2019 +0100
glx,xquartz: Fix make distcheck

Guard BUILT_SOURCES and CLEANFILES by XWIN_GLX_WINDOWS/XQUARTZ.

(cherry picked from commit f9b9e9d5ead5cf29f0f0e0b7ac5229af830f6e7)

commit 01a03a476a5f963846fd7702217be17ac1ecd6c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Feb 22 11:16:36 2019 +0100

present/wnmd: Allow flipping if the window pixmap matches the toplevel's
Instead of testing window->redirectDraw.

With Xwayland, the toplevel window is always redirected, so this would
unnecessarily preclude flipping there in some cases, e.g. with wlr
based Wayland composites or with fullscreen X11 windows in weston.

Fixes issue #631.
(Cherry picked from commit a093a88531599832811a1ba5cb85101af91a545e)

commit e5984241ab8d7ca75eb3e5e893d63adb017ed0f5
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Feb 22 11:56:23 2019 +0100

gitlab-ci: Add autotools build & test job
(Cherry picked from commit 2f12c8017508f23195db92503435fc3ef183da4b)

commit de6d87b61959cd3997feed3efe25fb2a36e543fb
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Feb 22 11:56:01 2019 +0100

gitlab-ci: Use ccache

Meson picks it up automatically.

Based on:

* https://gitlab.freedesktop.org/mesa/mesa/merge_requests/240
* https://gould.cx/ted/blog/2017/06/10/ccache-for-Gitlab-CI/
* https://stackoverflow.com/questions/53659419/ccache-no-hits-in-gitlab-ci

v2 based on the corresponding Mesa change:
* Quote CCACHE_(BASE)DIR environment variables.
* Clear ccache stats in before_script.
* Move cache stanza to the build-and-test job, the cache isn't used in
  the docker-image job.
Reviewed-by: Adam Jackson <ajax@redhat.com> # v1
(Cherry picked from commit b577df77451d34e28cfe3bda5031a43caeba90a)

commit 37ad8dd978e8d35233e489e771f7def3e9c3b7a
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Feb 22 11:55:31 2019 +0100

gitlab-ci: Add ccache to docker image, and leave in autotools

We're going to make use of these in build & test jobs.
(Cherry picked from commit 537f06e21ee2c4c88ee062c26555338257e043ef)

commit 61eccbce930efeb1a124cc8edf70e6f65c927e
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Feb 22 11:54:57 2019 +0100

gitlab-ci: Don't rely on $CI_PROJECT_NAME

The name of a forked repository can be changed later, in which case this
would fail to refer to the main repository.

Pointed out by Eric Engestrom in
(Cherry picked from commit fed384962edd175b1a2ce6edd8d2ef9b0fd74f0)

commit e10cfd8fcc395360ce9acd93bfd7503da8e35381
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Feb 22 11:54:41 2019 +0100

gitlab-ci: Only run docker-image stage if relevant source files change

Otherwise there's normally no need to run it. It will also run when a
new branch is created, which ensures that the docker image always exists
(e.g. in a newly forked repository).

Inspired by https://gitlab.freedesktop.org/mesa/mesa/merge_requests/143
(Cherry picked from commit 8694395fcfd407190db74f31064960e4847473777)

commit 7246730edfb4f9079eb0ef1c41c43c47854a7432
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Feb 22 11:53:55 2019 +0100

gitlab-ci: Set LC_ALL=C.UTF-8

Although piglit could now handle non-ASCII characters in the
environment, meson was still failing without this (even though it's
using Python 3).
test: Use .../piglit instead of .../piglit-*.py

The latter use Python 2 and break with any non-ASCII characters in the environment, the former uses Python 3 and works fine in that case.

This removes the dependency on an externally generated docker image, and should make it easier to update the docker image or make other changes related to it.

This is based on Debian testing, because I'm most familiar with Debian. But it should be easy to base it on another distro.

v2:
* Use kaniko instead of docker-in-docker for image generation, so it can also work in unprivileged runners.
* Drop piglit.conf & tetexec.cfg overrides, just make sure the files in the image work.

Drop Travis Linux build in favour of GitLab CI

Preparation for the next change, which would break the Travis Linux build.
commit 4925f38dc0559a8cbe01ec947edeb5eeb78a4df6
Author: Michel Daenzer <michel@daenzer.net>
Date:  Fri Feb 22 11:51:57 2019 +0100

Make artifacts of piglit results if job fails

Can be useful for figuring out what caused the failure.
(Cherry picked from commit a7472da94136ef977b8d6af956a15767736236ea)

commit b6ef90d83b4fd9230ca334116c61fd52f1d68209
Author: Michel Daenzer <michel@daenzer.net>
Date:  Fri Feb 22 11:51:35 2019 +0100

travis: Use a single meson invocation

The prefix setting didn't take for some reason.
(Cherry picked from commit c1bb392b1df4023e9dec489facfa221a53499ddc)

commit 7753fd998e280783daee1994d019155735dee5
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Feb 22 11:50:05 2019 +0100

gitlab: Skip the docker-in-docker step

No idea which cult's cargo I was looking at there. Cuts about a minute off the build time.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(Cherry picked from commit a41ccaa0857146e986f11360d4f2aeb3913af9a6)

commit 524104e15c7169114e4fa3dd832990c58ee563a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Fri Feb 8 13:29:14 2019 +1000

Xi: lock the input thread for any pointer barrier list manipulation

The input thread checks the barriers for pointer positioning, swapping the list out from underneath is considered impolite.

Reported-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
(cherry picked from commit 678d664aa2e929368b6d6f2b83bbf5540c4fa292d)

commit ae9dda1e2620f402b434f10df581b0fd0495ee8
Author: Peter Harris <pharris@opentext.com>
Date:  Wed Jan 30 14:51:07 2019 -0500
os: Fix GetTimeInMicros resolution

GetTimeInMillis is called first, which sets clockid to CLOCK_MONOTONIC_COARSE, which is typically much lower resolution than the callers of GetTimeInMicros want.

Prior to a779fa224be0c4d2763e5567e55ae93b33c2, GetTimeInMillis and GetTimeInMicros did not share a clockid.

Restore the clockid split to fix the granularity of GetTimeInMicros.

Signed-off-by: Peter Harris <pharris@opentext.com>
(cherry picked from commit 937a5b78a2ff0f9ece708a23c1bdad)

commit 013c28a122a61beaf3a4ee7cc92b7ca2e92de7ab
Author: A. Wilcox <AWilcox@Wilcox-Tech.com>
Date: Sat Jan 26 15:37:56 2019 -0600

DRI2: Add another Coffeelake PCI ID

A user of Adélie Linux reported that modesetting wasn't working properly on their Intel i7-9700K-integrated UHD 630 GPU. Xorg.0.log showed:

[ 131.902] (EE) modeset(0): [DRI2] No driver mapping found for PCI device 0x8086 / 0x3e98
[ 131.902] (EE) modeset(0): Failed to initialize the DRI2 extension.

Indeed, that PCI ID is missing from i965_pci_ids. Adding it fixed the issue and allowed the system to work with i965_dri under modesetting.

(cherry picked from commit d3a26bb6f618507e1ca052be99a880075b77db77)

commit a51d7a730cfd82ab44ea5510eafdb9d7043c706
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 16 12:58:25 2018 -0400

vnd: Fix a silly memory leak

'disp' was already allocated by LookupVendorPrivDispatch above, clobbering it will do no good.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 709c6562975c3bea10dd0571527a4aaec79a6bf6f)

commit 544d0e961ca96043ed3e5a718a768444c4a4c4d
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 16 14:20:17 2019 -0500
mi: When enabling extensions, match names case-insensitively

Both because extension names are inconsistently capitalized on the wire, and because the table we’re walking spells it COMPOSITE not Composite. The latter is certainly also a bug, but there’s no reason for us to be that strict.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit bf991a5f989c5e6e726a3731f468b7b7d65d9f4a)

commit 2215e8c7c06f46f9995c8a7817c7ede9774a551
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jan 14 12:42:00 2019 -0500

dri3: Fix XACE access mode for open and get_supported_modifiers

Neither opening a screen nor querying its modifiers confers the right to attach the buffer for any particular pixmap. GetAttr seems more correct.

Fixes: xorg/xserver#550
(cherry picked from commit 086c2e3de55bbf0cbc1d9717dc2db70a7f5e69e3)

commit 59e0b5f041ee92d0a5130382005ad8f053d8ca
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Dec 5 18:31:27 2018 +0100

xfree86/modes: Don't clobber gamma LUT of compatibility output's CRTC

If the driver calls xf86HandleColormaps, CMapChangeGamma updates the HW gamma LUT of all CRTCs via xf86RandR12LoadPalette. However, xf86RandR12ChangeGamma was then clobbering the gamma LUT of the RandR 1.2 compatibility output's CRTC with the gamma curves computed from the screen's global gamma values.

Fix this by bailing if xf86RandR12LoadPalette is installed.

Fixes: 02ff0a5d7e32 "xf86RandR12: Fix XF86VidModeSetGamma triggering a BadImplementation error"
(cherry picked from commit 30044b2253c2dd51e1aedb2f897159c657ca8f0d)

commit 712d0e86aaee96ffe1ad6a708b9134889e47d1c6
Author: Maya Rashish <maya@NetBSD.org>
Date:   Thu Jan 10 14:55:17 2019 +0200

xfree86: Try nouveau on NetBSD as well.

(cherry picked from commit e3fb178617a579c98877a3b9ae14c4dfe4d55db8)
Fix typo in error message

(cherry picked from commit bf2a7bb4f fbfd199882fe4bd183561469833a9e6b)

commit c091ea5e38b5c41eaf3b10ec43dc043401e8251c5
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Jan 10 18:39:33 2019 +0200

os: Report errors opening authorization file (#469)

Fixes: xorg/xserver#469

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
(cherry picked from commit 7fb6338c68e158053295eb448faa5c559aa9990c)

commit 7b0f6102df3b18a048b791fe2304679b1eb2c9e7
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Dec 19 10:06:23 2018 +0100

glamor: Check that storage format is compatible with RENDER format

Fixes x2r10g10b10 related rendercheck failures.

Reviewed-by: Eric Anholt <eric@anholt.net>
(cherry picked from commit 7e6faa5b3c05e0b7149ee840403885b040b5827)

commit 356cf07b8a8fe6faedf701ace259f8f077a234dd5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Nov 28 10:05:49 2018 +1000

test: fix failing tests

Broken since 69d8ea4a49793a94f821d1a328856901a1c02a5a because our fake screen didn't have a root window and writing the XKB rules prop would happily segfault. Fix this by setting up the required bits.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Michel Dänzer michel.daenzer@amd.com
(cherry picked from commit fde27b9b4814b18ac6ec587bd3cfe9ab04b0c72)

commit c44ee2e2436e6f4e488b586ad02e4fd00f587ebb49
Author: Ilia Mirkin <imirkin@alum.mit.edu>
Date:   Mon Dec 10 23:34:11 2018 -0500
modesetting: fix conn_id termination and potential overrun by 1 byte

Noticed when porting this logic to xf86-video-nouveau, and valgrind complained about conditional jump based on uninitialized data.

Signed-off-by: Ilia Mirkin <imirkin@alum.mit.edu>
Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.com>
(cherry picked from commit 48b1af2718ab81c66f565438553415c05f1faa5c)

commit 10609630e753b4755666be27b186af4b2e290fde6
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 29 14:48:11 2018 -0500

automake: Distribute meson's configure header templates

Fixes: xorg/xserver#17
(cherry picked from commit 82ed89e0f8b18d8214430580dc80e8d3e37bef33)

commit f5a77233b983eb06eb727d25148bb68d1bc410022
Author: Lionel Landwerlin <lionel.g.landwerlin@intel.com>
Date:   Fri Nov 9 12:34:59 2018 +0000

present: fix compile warning with debug traces

Signed-off-by: Lionel Landwerlin <lionel.g.landwerlin@intel.com>
(cherry picked from commit a425ee6dce3b0cfd18b591907e8302a91b648c6)

commit 4e12cba65682e97b056d8a8207189d4cf9c31862
Author: Lyude Paul <lyude@redhat.com>
Date:   Tue Nov 13 20:14:10 2018 -0500

modesetting: Actually disable CRTC's in legacy mode

Believe it or not, somehow we’ve never done this in legacy mode! We currently simply change the DPMS property on the CRTC’s output’s respective DRM connector, but this means that we’re just setting the CRTC as inactive-not disabled. From the perspective of the kernel, this means that any shared resources used by the CRTC are still in use.

This can cause problems for drivers that are not yet fully atomic, despite using the atomic helpers internally. For instance: if CRTC-1 and CRTC-2 are still enabled and use shared resources within the kernel (an MST topology, for example), and then userspace tries to go enable CRTC-3 on the same topology this might suddenly fail if CRTC-3 needs the shared resources CRTC-1 and CRTC-2 are using. While I don't know of any situations in the mainline kernel that actually trigger this, future plans for reworking the atomic check of MST drivers are absolutely going to make this into a real issue (they already are in my WIP.
branches for the kernel).

So: actually do the right thing here and disable CRTC when they're not going to be used anymore, even in legacy mode.

Signed-off-by: Lyude Paul <lyude@redhat.com>
(cherry picked from commit 7a44e8d4007b9c3ca55a5cc3f5e98601565311c7)

commit 652918e736bce577e221184415dcf61c05ac7bfb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 25 12:56:29 2018 -0800

Update configure.ac bug URL for gitlab migration

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
(cherry picked from commit 17a22ad948009badbc79bbcd9a067004c98f5744)

commit 40b22a0571d422473a7a324daa65f6a768181644
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 18 15:49:27 2018 -0800

Update README for gitlab migration

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
(cherry picked from commit 5d097c2a20fce44c9db9d5302d46bc7fa16edefc)

commit a352f97545723054b0a74862a56dc53b1be93fb
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Tue Jan 8 12:48:53 2019 +0100

xwayland: handle case without any crtc

Xwayland creates and destroys the CRTC along with the Wayland outputs, so there is possibly a case where the number of CRTC drops to 0.

However, `xwl_present_get_crtc()` always return `crtcs[0]` which is invalid when `numCrtcs` is 0.

That leads to crash if a client queries the Present capabilities when there is no CRTC, the backtrace looks like:

```
#0  raise() from libc.so
#1  abort() from libc.so
#2  OsAbort() at utils.c:1350
#3  AbortServer() at log.c:879
#4  FatalError() at log.c:1017
#5  OsSigHandler() at osinit.c:156
#6  OsSigHandler() at osinit.c:110
```
To avoid returning an invalid pointer (`crtcs[0]`) in that case, simply check for `numCrtcs` being 0 and return `NULL` in that case.

Thanks to Michel Dänzer <michel.daenzer@amd.com> for pointing this as a possible cause of the crash.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Bugzilla: https://bugzilla.redhat.com/1609181
(cherry picked from commit e8295c50209f2963fa2823e8de7e8363a38cd2d1)

commit 210cd529064348de7d4f9a9050b0cf68f8fd326c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Nov 15 17:16:59 2018 +0100

xwayland: Don't take buffer release queue into account for frame timer

The buffer release queue has two kinds of entries:

* Pending async flips.
* Completed flips waiting for their buffer to be released by the Wayland compositor.

xwl_present_timer_callback neither completes async flips nor releases buffers, so the timer isn't needed for the buffer release queue.

(cherry picked from commit e6cd1c9bdefe83e7d99b703a68d26eebb451f889)

commit 7c28b0e34ecbe9842193733dfd86097ce06921406
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Nov 9 17:18:53 2018 +0100

xwayland: Don't need xwl_window anymore in xwl_present_queue_vblank

Fixes issue #12. Presumably the problem was that Present operations on unmapped windows were executed immediately instead of only when reaching the target MSC.

(cherry picked from commit f541615342ce6bfbo6d4e68deb3a924a87e8ba9)

commit 46135957095ec954e21107d1001452e9533ef2ee
Author: Michel Dänzer <michel.daenzer@amd.com>
xwayland: Add xwl_present_unrealize_window

When a window is unrealized, a pending frame callback may never be called, which could result in repeatedly freezing until the frame timer fires after a second.

Fixes these symptoms when switching from fullscreen to windowed mode in sauerbraten.

(cherry picked from commit 8e9538573cb9a342897eb3fb4b0c1e4ed917bd0e)

commit 98f41563e6599eb762e6a3ec12f99ba6b5388039
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Nov 1 18:44:24 2018 +0100

xwayland: Replace xwl_window::present_window with ::present_flipped

There's no need to keep track of the window which last performed a Present flip. This fixes crashes due to the assertion in xwl_present_flips_stop failing. Fixes issue #10.

The damage generated by a flip only needs to be ignored once, then xwl_window::present_flipped can be cleared. This may fix freezing in the (hypothetical) scenario where Present flips are performed on a window, followed by other drawing requests using the window as the destination, but nothing triggering xwl_present_flips_stop. The damage from the latter drawing requests would continue being ignored.

(cherry picked from commit 6b016d58d23d16eaae9908a92ed90547d1926317)

commit f393801dbbe89bce716a8ceeb2b5c8440b9021ce
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Oct 18 17:42:01 2018 +0200

xwayland: Complete ”synchronous” Present flips from xwl_present_msc_bump

Completing them from xwl_present_sync_callback had at least two issues:

* It was before the MSC was incremented in xwl_present_frame_callback, so the MSC value in the completion event could be lower than the target specified by the client. This could cause hangs with the Mesa Vulkan drivers.
* It allowed clients to run at a frame-rate higher than the Wayland compositor's frame-rate, wasting energy on generating frames which were never displayed. This isn't expected to happen unless the client specified PresentOptionAsync (in which case flips are still completed
from xwl_present_sync_callback, allowing higher frame-rates).

v2:
* Make xwl_present_has_events return true when there's a pending "synchronous" flip, so those complete after at most ~1 second even if the Wayland server doesn't send a frame event.

Bugzilla: https://bugs.freedesktop.org/106713
(cherry picked from commit ace551d8a2603e37b18237a52f62d627c75d9e2a)

commit e646e3054a3e1dbe8ff3906a546897246bcc78f0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Oct 18 17:36:24 2018 +0200

xwayland: Rename xwl_present_events_notify to xwl_present_msc_bump
And consolidate more code from xwl_present_timer_callback and
xwl_present_frame_callback in it.

(cherry picked from commit 2bfc46d4147dc0bec4edbb80431a0f4cc1d3b030)

commit 47aed554b7c12c0c7f496c86a435ddd81ae9bf
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Oct 24 11:23:05 2018 +0200

xwayland: Use xwl_present_reset_timer in xwl_present_timer_callback
And consolidate more code from xwl_present_timer_callback and
xwl_present_frame_callback in it.

Apart from simplifying the code, this should also prevent a condition
(which might only be possible with the following fix) reported in
https://gitlab.freedesktop.org/wayland/weston/issues/115#note_52467:

1. xwl_present_timer_callback indirectly calls xwl_present_reset_timer
   -> xwl_present_free_timer
2. xwl_present_timer_callback then returns a non-0 value, so DoTimer
   calls TimerSet with the old xwl_present_window->frame_timer pointer
   which was freed in step 1 => use after free

Calling xwl_present_reset_timer explicitly passes NULL to TimerSet if
step 1 freed xwl_present_window->frame_timer, and it will allocate a new
one.

(cherry picked from commit 5e8b9a3a563047e3998d45e761f7a50e4b0f6cb3)

commit cf8e064ec0bed45b8cda9ae390c7af78d8ede50f
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Fri Oct 19 16:04:32 2018 +0200

xwayland: do not crash if `gbm_bo_create()` fails
The function `xwl_glamor_gbm_create_pixmap()` first creates a buffer objects and then creates the xwl_pixmap from it.

However, `xwl_glamor_gbm_create_pixmap_for_bo()` is not called if the buffer object creation fails, and `xwl_glamor_gbm_create_pixmap()` simply returns `glamor_create_pixmap()`.

The problem with this is that if `xwl_glamor_gbm_create_pixmap_for_bo()` is not called then neither is `xwl_pixmap_set_private()` and further calls to `xwl_pixmap_get()` will return NULL and cause a NULL pointer dereference if the return value is not checked:

```
#0  xwl_glamor_gbm_get_wl_buffer_for_pixmap ()
   at hw/xwayland/xwayland-glamor-gbm.c:248
#1  xwl_window_post_damage () at hw/xwayland/xwayland.c:697
#2  xwl_display_post_damage () at hw/xwayland/xwayland.c:759
#3  block_handler () at hw/xwayland/xwayland.c:890
#4  BlockHandler () at dix/dixutils.c:388
#5  WaitForSomething () at os/WaitFor.c:201
#6  Dispatch () at dix/dispatch.c:421
#7  dix_main () at dix/main.c:276
#8  __libc_start_main () at ../csu/libc-start.c:308
#9  _start ()

(gdb) print xwl_pixmap
$1 = (struct xwl_pixmap *) 0x0
```

Make sure we check for `xwl_pixmap_get()` returned value where relevant and fail gracefully if this is the case.

See also: https://gitlab.gnome.org/GNOME/mutter/issues/340

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Marco Trevisan <mail@3v1n0.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit 036794bebce72a3fa2f95996d2e537ff568ef0ff1)

commit f89518e17f7d507734af212785e0b3e47954f603
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Oct 22 11:48:25 2018 +0200

present/wnmd: Fix use after free on CRTC removal

Xwayland will add and remove CRTCs as Wayland outputs are added or removed.

If there is a pending flip when this occurs, the
`xwl_present_sync_callback()` will be triggered after the Xwayland output's RRCtrcPtr has been destroyed, hence causing a crash in Xwayland while trying to use freed memory:

```
#1 abort ()
#2 OsAbort () at utils.c:1350
#3 AbortServer () at log.c:877
#4 FatalError () at log.c:1015
#5 OsSigHandler () at osinit.c:156
#6 <signal handler called>
#7 dixGetPrivate () at ../include/privates.h:122
#8 dixLookupPrivate () at ../include/privates.h:166
#9 present_screen_priv () at present_priv.c:198
#10 present_wnmd_flip () at present_wnmd.c:358
#11 present_wnmd_execute () at present_wnmd.c:466
#12 present_wnmd_re_execute () at present_wnmd.c:80
#13 xwl_present_sync_callback () at xwayland-present.c:287
#14 ffi_call_unix64 () from /lib64/libffi.so.6
#15 ffi_call () from /lib64/libffi.so.6
#16 wl_closure_invoke () at src/connection.c:1006
#17 dispatch_event () at src/wayland-client.c:1427
#18 dispatch_queue () at src/wayland-client.c:1573
#19 wl_display_dispatch_queue_pending () at src/wayland-client.c:1815
#20 wl_display_dispatch_pending () at src/wayland-client.c:1878
#21 xwl_read_events () at xwayland.c:814
#22 ospoll_wait () at ospoll.c:651
#23 WaitForSomething () at WaitFor.c:208
#24 Dispatch () at ../include/list.h:220
#25 dix_main () at main.c:276
```

To avoid the issue, get the `ScreenPtr` from the window instead of the CRTC that might have been just freed, `xwl_present_flip()` has no use for the CRTC anyway.

Bugzilla: https://bugs.freedesktop.org/108249
Suggested-by: Michel Daenzer <michel.daenzer@amd.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Daenzer <michel.daenzer@amd.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit b768b7d6cecc41b8b320c468ec41aab5a8b49b27b)

commit 64f5e6ec2d297f90e9b9785a1cb7285d609a1877
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Oct 19 18:27:37 2018 +0200

xwayland: Plug leaks in xwl_present_sync_callback

xwl_present_window->sync_callback was leaked.
The event memory was leaked if the corresponding buffer had already been released.

(cherry picked from commit cb0de153bf0c486da7e968ab0f258c9c0e9ed34a)

commit 971d418113740cae2d7d393850bad4926d1a7e86
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 25 09:03:18 2018 -0400

xserver 1.20.3

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit da15c7413916f754708c62c2089265528cd661e2
Author: Matthieu Herrb <matthieu@herrb.eu>
Date:   Tue Oct 23 21:29:09 2018 +0200

LogFilePrep: add a comment to the unsafe format string.

CVE-2018-14665 also made it possible to exploit this to access memory. With -logfile forbidden when running with elevated privileges this is no longer an issue.

Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 248d164eae27f1f310266d78e52f13f64362f81e)

commit 8a59e3b7dbb30532a7c3769c555e00d7c4301170
Author: Matthieu Herrb <matthieu@herrb.eu>
Date:   Tue Oct 23 21:29:08 2018 +0200

Disable -logfile and -modulepath when running with elevated privileges

Could cause privilege elevation and/or arbitrary files overwrite, when the X server is running with elevated privileges (ie when Xorg is installed with the setuid bit set and started by a non-root user).

CVE-2018-14665

Issue reported by Narendra Shinde and Red Hat.

Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 50c0cf885a6e91c0ea71fb49fa8f1b7c866e330e)
commit cfc3dec09e1a56bb050ba31bde0bbf499596063a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 16 09:42:51 2018 +1000

xfree86: fix readlink call

Misplaced parenthesis caused us to compare the sizeof, not the readlink return value.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit bd5fe7593fd0df236f3b2be1f062166ddba7d67c)

commit 2a0c6c15c35cd262e7cdb86dec43cb1aeb714e8e
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 15 11:17:35 2018 -0400

gxserver 1.20.2

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f5dc787fc9bb102e4eea477d1817e35370084ea2
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 10 14:09:11 2018 -0400

fbdevhw: Refuse to touch PCI devices on the fallback probe path

Fixes: https://gitlab.freedesktop.org/xorg/driver/xf86-video-fbdev/issues/9
Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit fc78bcca21e767697de6ad4d8e03b6728856f613)

commit 4795c069a503144ea31f01de0c039f32d9880292
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 5 14:50:20 2018 -0400

glamor/egl: Avoid crashing on broken configurations

0a9415cf apparently can tickle bugs in the GL stack where glGetString returns NULL, presumably because the eglMakeCurrent() didn't manage to actually install a dispatch table and you're hitting a stub function.
That's clearly not our bug, but if it happens we should at least not crash. Notice this case and fail gently.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit af151895f3cb1755a7a5631f2398a3d3b219cbef)

commit 1e3c5d614ee33d9eac1d2cf6366feeb8341fc0f4
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 14 11:33:43 2018 -0400
glamor_egl: Don't initialize on llvmpipe

Mesa started supporting GL_OES_EGL_image on llvmpipe in 17.3, after this commit:

    commit bbdeddd5fd0b797e1e281f058338b3da4d98029d
    Author: Gurchetan Singh <gurchetansingh@chromium.org>
    Date:   Tue Aug 1 14:49:33 2017 -0700

    st/dri: add drisw image extension

That's pretty cool, but it means glamor now thinks it can initialize on llvmpipe. This is almost certainly not what anyone wants, as glamor on llvmpipe is pretty much uniformly slower than fb.

This fixes both Xorg and Xwayland to refuse glamor in such a setup. Xephyr is left alone, both because glamor is not the default there and because Xephyr+glamor+llvmpipe is one of the easier ways to get xts to exercise glamor.

The (very small) downside of this change is that you lose DRI3 support. This wouldn't have helped you very much (since an lp glamor blit is slower than a pixman blit), but it would eliminate the PutImage overhead for llvmpipe's glXSwapBuffers. A future change should add DRI3 support for the fb-only case.

    Reviewed-by: Eric Anholt <eric@anholt.net>
    Signed-off-by: Adam Jackson <ajax@redhat.com>
    (cherry picked from commit 0a9415cf793b3fbed1f28e61f8047d51de04f1528)

commit b58aa8ed9b0a052d615d34b103aa54ce357df12e
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Mon Feb 26 19:41:18 2018 +0300

os/xdmcp: Don't create a new socket in XdmcpReset()

xdmcpSocket survives during the reset, there is no need to create a new one.

This commit restores logic that was broken by 49c0f2413d32fdfe36e45861fcb32aeeb633094 in Xorg 1.19.

    Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
    (cherry picked from commit 32677ce03d793a1f2a8871112eb3d19b3cb762f)

commit b1215fb075b0166d5742c72041f58d512273bb50
Author: Pierre Ossman <ossman@cendio.se>
Switch automatic composite update to WorkQueue

It is currently (ab)using the screen BlockHandler callback to do this. But this can cause problems with other extension as their block handlers might have executed before Composite's. And the operations Composite does might result in them wanting to change timeouts.

Practically this caused problems for TigerVNC's VNC extension which failed to send out updates for Composite's screen updates.

(cherry picked from commit 1bd5d0a53c5ff4169e5a6704c1c4b276f998b938)

commit a41b6ef2244f1a0003dada0962a9d785e74d7981
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 1 11:42:37 2018 -0400

modesetting: Don't free(dst) in drmmode_prop_info_copy

The destination is always either on the stack or in the middle of some struct.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 43a0f9a5dbb469f4f403a8530f33be67618933b8)

commit 9403335910f4e6b862af5c5ef835074be2c52eddb
Author: Cedric Roux <sed@free.fr>
Date:   Wed Sep 12 19:14:18 2018 +0200

miext/damage: take care of the coordinate mode in damagePolyPoint

The mode (CoordModeOrigin or CoordModePrevious) was not taken into account when computing the box. The result was a bad drawing of points in some situations (on my hardware/software configuration, calling XDrawString followed by XDrawPoints in the mode CoordModePrevious).

Signed-off-by: Cedric Roux <sed@free.fr>
Signed-off-by: Eric Anholt <eric@anholt.net>
(cherry picked from commit bc36594e0e8bf8fa5a673bced8c8168f70994a1df)

commit c26a47b4f2e170e283ca1683d5b6ca2d04823e80
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Sep 20 16:32:29 2018 +0200

xwayland: Use `double` for `xwl_tablet_tool`
So we do not lose subpixel precision in Xwayland.

Suggested-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Closes: https://gitlab.freedesktop.org/libinput/libinput/issues/138
(cherry picked from commit 734b2d6907f730571a2805cbe53fe7056190f19e)

commit fb01b238c610e19554577d29878d75b2c34c9a0c6
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Aug 29 15:42:20 2018 -0400

xfree86: Fix Option "MaxClients" validation

The old code would not in fact validate the option value, though it
might complaint about it in the log. It also didn't let you set some
legal values that the -maxclients command line option would.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 7d689f049c3cc16b8e0eb0103a384a2ce84ea33)

commit cc4051ad6a3712c4407fbb608c8d23f2b66952d6
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Sep 12 11:39:32 2018 +1000

devices: break after finding and removing device from lists

Coverity complains about a use after free in here after the
freeing, I can't follow the linked list so well, but whot
says the device can only be on one list once, so break should
fix it.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit ba0f5d854f4db52974ab5cd09191303b01b075ff)

commit 64a7aac257d3bb000759d373864548662d8810545
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Sep 12 11:12:51 2018 +1000

mibltblt: free prgnSrcClip on error path.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit c4591ea17110b5c318a5ef4b0f17a4eea306ea71)

commit fcbdb7c8b0d7bcc6a85e0be20d3bab7643a486b
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 11:09:40 2018 +1000

xkb: fix what looks to be a copy-paste error with first vs firstMM

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit 758393951233d1b2520cf4cef3d33ec4288a3880a)

commit 83ef02839ce8982c2e841bc400abbbbeb620481d
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 11:05:45 2018 +1000

posix_tty: free leak of xf86SetStrOption return value.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit cad3a1a82da3c8421b5ce98af27a779a38b5c709)

commit 66d36010a324480ac656e702e53fbc1f6f60d5c
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 10:56:40 2018 +1000

modesetting: get pEnt after error checks

This saves us having to make sure we clean it up.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit b6c29a881eb49300fddfd0187cb10891f5257d3b)

commit 795c58a1f6bb3debe9066d981b178d9cf14fdad03
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 10:52:25 2018 +1000

glamor: fix leak of fs_getcolor_source.

This is created using XNFstrdup, so it needs to be freed.

Pointed out by coverity.
Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit f0a5c0d1f3daeed3cd701215f4f5f77eacaf783c2)

commit bb384d0b110a99f2d935ed73d6589af46f818823
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 10:50:21 2018 +1000
fboverlay: move bpp checks above malloc

Avoids having to free the malloced object.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit c7fa6a0a0d4ad28ee21b8dd9ad4fbe33f462bc71)

commit 26a83f9833054f5cf7c7d73b0f5aa080d400c26b
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 10:33:04 2018 +1000

xi: free modifiers_failed on error path. (v2)

Pointed out by coverity.

v2: set modifies_failed to NULL at start (whot)

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit 51ae6126dcf3e234d0f678f02934bc9515abb8ae)

commit bdeab7863eb7abe2d9d05eed259542695935559c
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 12 10:30:13 2018 +1000

shm: move shmsize verify before allocating the drawable.

Otherwise if the VERIFY_SHMSIZE macro fails we leak the drawables we allocated earlier.

Noticed by coverity scan.

Signed-off-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit 3439929c510501929c6ef1d90477c33bf8838632)

commit 8e646ca9850c071994354b503b5d2b62f99ef2a8
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 29 16:07:59 2018 -0400

modesetting: Document Option "DoubleShadow" in the man page

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit c4f3e42fe316c90a73908a838ce64abb28fe0a2)

commit fdb80a327cfe213a206bc76d3cb43cbb33855547
Author: Adam Jackson <ajax@redhat.com>
modesetting: Lie less in the man page

We don't support 8bpp, and we do have acceleration.

Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 0dc2c419e11cf28b8fa1e607d4cf2d15f2eb2306)

commit cffac815b957fd1296d61cc5c20ba3709a77ee4e
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Sep 5 10:49:27 2018 +0200

xwayland: Remove xwl_present_window from privates on cleanup

Xwayland's `xwl_destroy_window()` invokes `xwl_present_cleanup()` before the common `DestroyWindow()`.

But then `DestroyWindow()` calls `present_destroy_window()` which will possibly end up in `xwl_present_abort_vblank()` which will try to access data that was previously freed by `xwl_present_cleanup()`:

Invalid read of size 8
at 0x434184: xwl_present_abort_vblank (xwayland-present.c:378)
 by 0x53785B: present_wnmd_abort_vblank (present_wnmd.c:651)
 by 0x53695A: present_free_window_vblank (present_screen.c:87)
 by 0x53695A: present_destroy_window (present_screen.c:152)
 by 0x42A90D: xwl_destroy_window (xwayland.c:647)
 by 0x584298: compDestroyWindow (compwindow.c:613)
 by 0x53CEE3: damageDestroyWindow (damage.c:1570)
 by 0x4F1BB8: DbeDestroyWindow (dbe.c:1326)
 by 0x46F7F6: FreeWindowResources (window.c:1031)
 by 0x472847: DeleteWindow (window.c:1099)
 by 0x46B54C: doFreeResource (resource.c:880)
 by 0x46C706: FreeClientResources (resource.c:1146)
 by 0x446ADE: CloseDownClient (dispatch.c:3473)
Address 0x182abde0 is 80 bytes inside a block of size 112 free'd at 0x4C2FDAC: free (vg_replace_malloc.c:530)
 by 0x42A937: xwl_destroy_window (xwayland.c:647)
 by 0x584298: compDestroyWindow (compwindow.c:613)
 by 0x53CEE3: damageDestroyWindow (damage.c:1570)
 by 0x4F1BB8: DbeDestroyWindow (dbe.c:1326)
 by 0x46F7F6: FreeWindowResources (window.c:1031)
 by 0x472847: DeleteWindow (window.c:1099)
 by 0x46B54C: doFreeResource (resource.c:880)
 by 0x46C706: FreeClientResources (resource.c:1146)
 by 0x446ADE: CloseDownClient (dispatch.c:3473)
 by 0x446DA5: ProcKillClient (dispatch.c:3279)
This is because `xwl_present_cleanup()` frees the memory but does not remove it from the window's privates, and `xwl_present_abort_vblank()` will still find it and hence try to access that freed memory...

Remove `xwl_present_window` from window's privates on cleanup so that no other function can find and reuse that data once it's freed.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1616269
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
(cherry picked from commit 3f31f56929e8001970e3821ed8b10c6075df8e6)

commit 8dd7173eeba08f1ecfb414915625c609ad4b3297
Author: Lionel Landwerlin <lionel.g.landwerlin@intel.com>
Date:   Tue Aug 28 21:30:05 2018 +0100

xwayland: fix access to invalid pointer

xwl_output->randr_crtc is used in the update_screen_size() function:

==5331== Invalid read of size 4
==5331== at 0x15263D: update_screen_size (xwayland-output.c:190)
==5331== by 0x152C48: xwl_output_remove (xwayland-output.c:413)
==5331== by 0x6570FCDB: ffi_call_unixx64 (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331== by 0x6570F93E: ffi_call (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331== by 0x4DD79D8: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331== by 0x4DD79D8: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331== by 0x4DDB8A3: wl_display_dispatch_queue_pending (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331== by 0x4D8C8CA: xwl_read_events (xwayland.c:814)
==5331== by 0x2AC00D0: ospoll_wait (ospoll.c:651)
==5331== by 0x2A5322: WaitForSomething (WaitFor.c:208)
==5331== by 0x27574B: Dispatch (dispatch.c:421)
==5331== by 0x279945: dix_main (main.c:276)
==5331== Address 0x1aacb5f4 is 36 bytes inside a block of size 154 free'd
==5331== at 0x48369EB: free (vg_replace_malloc.c:530)
==5331== by 0x1F8AE8: RROutputDestroyResource (routput.c:421)
==5331== by 0x29A2AC: doFreeResource (resource.c:880)
==5331== by 0x29AE5B: FreeResource (resource.c:910)
==5331==  by 0x152BE0: xwl_output_remove (xwayland-output.c:408)
==5331==  by 0x6570FCD: ffi_call_unix64 (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==  by 0x657093E: ffi_call (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==  by 0x4DDB183: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x4DD79D8: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x4DD8EA3: wl_display_dispatch_queue_pending (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x14BCCA: xwl_read_events (xwayland.c:814)
==5331==  by 0x2AC0D0: ospoll_wait (ospoll.c:651)
==5331==  Block was alloc'd at
==5331==    at 0x48357BF: malloc (vg_replace_malloc.c:299)
==5331==  by 0x152A75: xwl_output_create (xwayland-output.c:361)
==5331==  by 0x14BE59: registry_global (xwayland.c:764)
==5331==  by 0x6570FCD: ffi_call_unix64 (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==  by 0x657093E: ffi_call (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==  by 0x4DDB183: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x4DD79D8: ??? (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x4DD8EA3: wl_display_dispatch_queue_pending (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==  by 0x14BCCA: xwl_read_events (xwayland.c:814)
==5331==  by 0x2AC0D0: ospoll_wait (ospoll.c:651)
==5331==  by 0x2A5322: WaitForSomething (WaitFor.c:208)

Signed-off-by: Lionel Landwerlin <lionel.g.landwerlin@intel.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
(cherry picked from commit 53ce2ba0a19af9c549f47a4cc678afecebeb6087e)

commit 1191b23f942cace785234f5d7fac972251c8f1db
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Sep 5 15:20:17 2018 +0200

    glx: check for indirect context in CreateContextAttribsARB()

    Commit 99f0365b "Add a command line argument for disabling indirect GLX"
    added a test to check if indirect context are enabled in
    `DoCreateContext()` but `__glXDisp_CreateContextAttribsARB()` doesn't
    use `DoCreateContext()` and doesn't check if indirect context is
    enabled.

    As a result, clients can still manage to create indirect contexts using
    `glXCreateContextAttribsARB()` even if indirect contexts are disabled,
    which can possibly crash Xservers such as Xwayland or Xephyr when the
    context is destroyed.

    To avoid the issue, check for `enableIndirectGLX` in
    `__glXDisp_CreateContextAttribsARB()` as well.

---
present: fix freed pointer access

When a vblank has been marked as aborted, it's going to be free in the flip_notify function when stopped. We can't notify it after it's stopped because the pointer is invalid.

Valgrind backtrace:

==5331== Invalid read of size 8
==5331==   at 0x212B4D: present_vblank_notify (present_vblank.c:34)
==5331==   by 0x21439B: present_wmnm_flip_notify (present_wmnm.c:194)
==5331==   by 0x21439B: present_wmnm_event_notify (present_wmnm.c:228)
==5331==   by 0x156216: xwl_present_sync_callback (xwayland-present.c:282)
==5331==   by 0x6570FCD: ffi_call_unix64 (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==   by 0x657093E: ffi_call (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==   by 0x4DD8883: wlv_diapatch_queue_pending (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==   by 0x4DD888A: xwl_read_events (xwayland.c:814)
==5331==   by 0x2AC0D0: ospoll_wait (ospoll.c:651)
==5331==   by 0x2A5322: WaitForSomething (WaitFor.c:208)
==5331==   by 0x27574B: Dispatch (dispatch.c:421)
==5331==   by 0x156216: xwl_present_sync_callback (xwayland-present.c:282)
==5331==   by 0x6570FCD: ffi_call_unix64 (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==   by 0x657093E: ffi_call (in /usr/lib/x86_64-linux-gnu/libffi.so.6.0.4)
==5331==   by 0x4DD8883: wlv_diapatch_queue_pending (in /usr/lib/x86_64-linux-gnu/libwayland-client.so.0.3.0)
==5331==   by 0x4DD888A: xwl_read_events (xwayland.c:814)
==5331==   by 0x2AC0D0: ospoll_wait (ospoll.c:651)
==5331==   by 0x2A5322: WaitForSomething (WaitFor.c:208)
Block was alloc'd at

to 0x48377D5: calloc (vg_replace_malloc.c:711)

by 0x212D9F: present_vblank_create (present_vblank.c:69)

by 0x214014: present_wnmdPixmap (present_wnmd.c:610)

by 0x21576C: proc_present_pixmap (present_request.c:150)

by 0x27599D: Dispatch (dispatch.c:479)

by 0x279945: dix_main (main.c:276)

by 0x633AB16: (below main) (libc-start.c:310)

v2: Still notify aborted flips (Roman)

Signed-off-by: Lionel Landwerlin <lionel.g.landwerlin@intel.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=107314
Reviewed-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Roman Gilg <subdiff@gmail.com>
(cherry picked from commit ce271535adb6974e0a43bb64c8ed7a5dcaff67a2)

commit 48300a7775b4f3200de200e8c5502d99bd99104
Author: Scott Anderson <scott@anderso.nz>
Date:   Mon Aug 6 18:09:26 2018 +1200

xwayland: use wayland axis_discrete event

This prevents multiple scroll events happening for wayland compositors
which send axis values other than 10. For example, libinput will
typically return 15 for each scroll wheel step, and if a wayland
compositor sends those to xwayland without normalising them, 2 scroll
wheel steps will end up as 3 xorg scroll events. By listening for the
discrete_axis event, this will now correctly send only 2 xorg scroll
events.

The wayland protocol guarantees that there will always be an axis event
following an axis_discrete event. However, it does not guarantee that
other events (including other axis_discrete+axis pairs) will not happen
in between them. So we must keep a list of outstanding axis_discrete
events.

Signed-off-by: Scott Anderson <scott@anderso.nz>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit cd285922cdec966825e47220b1182a57abc1ff90)

commit cd19a752f8bbc6caae7bf2457c53c850121fe9b7
Author: Jim Qu <Jim.Qu@amd.com>
Date:   Mon Aug 27 13:37:38 2018 +0800

modesetting: code refactor for PRIME sync
The X will be crashed on the system with other DDX driver, such as amdgpu.

show the log like:

```plaintext
randr: falling back to unsynchronized pixmap sharing
(EE)
(EE) Backtrace:
(EE) 0: /usr/lib/xorg/Xorg (xorg_backtrace+0x4e)
(EE) 1: /usr/lib/xorg/Xorg (0x55cb0151a000+0x1b5ce9)
(EE) 2: /lib/x86_64-linux-gnu/libpthread.so.0 (0x7f1587a1d000+0x11390)
(EE)
(EE) Segmentation fault at address 0x0
(EE)
```

The issue is that modesetting as the master, and amdgpu as the slave. Thus, when the master attempts to access pSlavePixPriv in ms_dirty_update(), problems result due to the fact that it's accessing AMD's 'ppriv' using the modesetting structure definition.

Apart from fixing crash issue, the patch fix other issue in master interface in which driver should refer to master pixmap.

Signed-off-by: Jim Qu <Jim.Qu@amd.com>
Reviewed-by: Alex Goins <agoins@nvidia.com>
(cherry picked from commit f79e5368512b72bb463925983d265b070261b7aa)

commit 5396a4aa084853805a73a2cfbbce156c47573916
Author: Alex Goins <agoins@nvidia.com>
Date:   Tue Aug 14 15:05:46 2018 -0500

randr: rrCheckPixmapBounding should only increase screen size

The purpose of rrCheckPixmapBounding() is to make sure that the fb is large enough to accommodate the region scanned out by a GPU screen. Currently, however, it will actually shrink the fb if it's larger than it needs to be.

This is a problem when combining PRIME output slaving with arbitrary transforms with xrandr.

Although arbitrary transforms are not supposed to constrain the size of the fb (https://lists.freedesktop.org/archives/xorg-devel/2018-January/055563.html), xrandr will use RRSetScreenSize to resize the desktop to accommodate scaling transforms, e.g. scaling a 1920x1080 display to 3840x2160 will result in a desktop size of 3840x2160.

In the case of PRIME, rrCheckPixmapBounding() will be called after
RRSetScreenSize() and it will resize the fb back down to what it would be without the scaling transform, e.g. 1920x1080. This represents divergence in behavior between PRIME and non-PRIME outputs.

I had originally made rrCheckPixmapBounding() account for arbitrary transforms, but realized that the fb being large enough to accommodate arbitrary transforms is not a hard requirement enforced in the server. Instead, this change simply makes it so that rrCheckPixmapBounding() will only resize the fb to be larger than it already is, preventing it from stepping on prior requests to increase the size of the fb.

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
(cherry picked from commit a90f33721eba7f2dbde4a7278f1a213d696c85e9)

commit 051a0efc5c28fb4be1199d73d59e0e4d329b1144
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 8 15:22:41 2018 +1000

dix: check_modmap_change() returns Success, not true

Not sure what if anything calls XSetDeviceModifierMapping() but this would've failed all the time. check_modmap_change() returns Success but we were treating it like a boolean. Fix this.

Reported-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit 4fe02b8da3ca58500f7e6e017e388907cf4a8b73)

commit 1508ea68065b7976dbf56039f9b20dcaf0394431
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 7 12:26:05 2018 -0400

xserver 1.20.1

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 101d15c7634b26eaf3c5f2ed7cafde102ce208
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 26 09:20:00 2018 -0700

During reset/shutdown, clean up leases in DIX instead of each driver

Instead of having every video driver loop over any pending leases to free them during CloseScreen, do this up in the DIX layer by terminating leases when a leased CRTC or Output is destroyed and
(just to make sure), also terminating leases in RRCloseScreen. The latter should "never" get invoked as any lease should be associated with a resource which was destroyed.

This is required as by the time the driver's CloseScreen function is invoked, we've already freed all of the DIX randr structures and no longer have any way to reference the leases.

Signed-off-by: Keith Packard <keithp@keithp.com>
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=106960
Cc: Thomas Hellstrom <thellstrom@vmware.com>
(cherry picked from commit 1ef7aed3e2bb2af32330f19b1e7560000512ddfe)

commit 9347326d28fffc7534cad0b084539e936aacfd45
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 18 13:22:43 2018 +1000

Xext: dynamically allocate the PanoramiXDepths[j].vids array

Control flow is:
PanoramiXMaybeAddDepth() allocates an array size 240 (pDepth->numVisuals)
PanoramiXMaybeAddVisual() finds up to 270 matches (pScreen->numVisuals)
and writes those into the previously allocated array.

This caused invalid reads/writes followed by eventually a double-free abort.

Reproduced with xorg-integration-tests server test
XineramaTest.ScreenCrossing/* (and a bunch of others).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit 93cafb0828d2e24bd14616df1aa9883fb843dd6c)

commit cbf1ca2dba7bc3561cf1a8023e5e18706adbdba6
Author: emersion <contact@emersion.fr>
Date: Fri Jul 13 15:51:26 2018 -0400

xwayland: rotate logical size for RRMode

The logical size is the size of the output in the global compositor space. The mode width/height should be scaled as in the logical size, but shouldn't be transformed. Thus we need to rotate back the logical size to be able to use it as the mode width/height.

This fixes issues with pointer input on transformed outputs.

Signed-Off-By: Simon Ser <contact@emersion.fr>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
xwayland: Enable DRI3 for glamor

`glamor_fds_from_pixmap()` will bail out early if DRI3 is not enabled, unfortunately Xwayland's glamor code would not set it as enabled which would lead to blank pixmaps when using texture from pixmap.

Make sure to mark DRI3 as enabled from `glamor_egl_screen_init()` in Xwayland.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=107287
Fixes: c8c276c956 ("glamor: Implement PixmapFromBuffers and BuffersFromPixmap")
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit c256e31a9e9a20da259f31ee70d1c8e1870993f1
Author: Takashi Iwai <tiwai@suse.de>
Date: Thu Jul 19 14:38:19 2018 +0200

modesetting: Fix cirrus 24bpp breakage

The recent rewrite of modesetting driver broke the 24bpp support.
As typically found on cirrus KMS, it leads to a blank screen, spewing the error like:
    failed to add fb -22
    (EE) modeset(0): failed to set mode: Invalid argument

The culript is that the wrong bpp value of the front buffer is passed to `drmModeAddFB()`. Fix it by replacing with the back buffer bpp, `drmmode->kbpp`.

Signed-off-by: Takashi Iwai <tiwai@suse.de>
Tested-by: Stefan Dirsch <sndirsch@suse.de>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2da00bde4498cf4ee422e5a2cb2c53cbb73df937
Author: Matt Turner <mattst88@gmail.com>
Date: Tue May 22 21:10:55 2018 -0700

xfree86: Inline xf86{Read,Write}Mmio{8,16,32} on alpha
In commit 9db2af6f757e (xfree86: Remove xf86{Map,Unmap}VidMem) we somehow stopped exporting xf86{Read,Write}Mmio{8,16,32}. Since the function pointer indirection was intended to support dense vs sparse and sparse support is now gone, we can just make the functions static inline in compiler.h and avoid all of this.

Bugzilla: https://bugs.gentoo.org/548906
Tested-by: Christopher May-Townsend <chris@maytownsend.co.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>
(cherry picked from commit 166ac294ae21a6cfcc0e7a4c9525eef49c2f0c)

commit b9e9eda08bd9198a6d089acd5d50677cd8713b33
Author: Stefan Agner <stefan@agner.ch>
Date:   Thu Dec 22 15:41:06 2016 +0100

modesetting: Fix 16 bit depth/bpp mode

When setting DefaultDepth to 16 in the Screen section, the current code requests a 32 bpp framebuffer, however the X-Server seems to assumes 16 bpp.

Fixes commit 21217d02168d ("modesetting: Implement 32->24 bpp conversion in shadow update")

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Stefan Agner <stefan@agner.ch>
(cherry picked from commit 1c7f34e99ff9750979a03ae20c6be1f2b42c284c)

commit 5c0662d44852363fe258c045250710ed881e56b7
Author: Lyude Paul <lyude@redhat.com>
Date:   Fri Jun 22 12:49:47 2018 -0400

meson: ensure the libc has RPC functions when secure-rpc is enabled

Currently our meson.build just makes the assumption that the libc is going to provide RPC functions. This doesn't actually seem to be the case on Fedora, which causes compilation to fail unexpectedly:

../../../Projects/xserver/os/rpcauth.c:47:10: fatal error: rpc/rpc.h: No such file or directory
#include <rpc/rpc.h>
^~~~~~~~~~~
compilation terminated.

So, in the event that we can't use libtirpc ensure that we actually check whether or not the libc provides rpc/rpc.h. If it doesn't, raise an error.
xf86-video-modesetting: Lease planes as well if using atomic

If we're using atomic modesetting, then we're also using universal planes, and so the lease we create needs to include the plane.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
(cherry picked from commit d83efc47b7a524b4f8d4a993c27a3e402a98fa7c)

xf86-video-modesetting: Don't enable UNIVERSAL_PLANES separately

We don't want universal_planes unless we're using atomic APIs for modesetting, and the kernel already enables universal_planes automatically when atomic is enabled.

If we enable universal_planes when we're not using atomic, then we won't have selected a plane for each crtc, and this will break lease creation which requires planes for each output when universal_planes is enabled.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
(cherry picked from commit 4a11f66e4690f9e94dc61cb264f5ef78dbdb255a)

xfree86: Wrap RRCrtcIsLeased and RROutputIsLeased to check for DIX structures

Before DIX structures are allocated for crtcs and outputs, we don't want to call DIX randr code with NULL pointers. This can happen if the driver sets video modes early in server initialization, which Nouveau does in zaphod mode.

Cc: thellstrom@vmware.com
xfree86: Reset randr_crtc and randr_output early in xf86CrtcCloseScreen

The DIX crtc and output structures are freed when their resources are destroyed, which happens before CloseScreen is called. As a result, we know these pointers are invalid and referencing them during any of the remaining CloseScreen sequence will be bad.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Cc: thellstrom@vmware.com
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=106960
(cherry picked from commit c55a44a9a86aaece17c1a2e73c77e3e665c4888e)

meson: use absolute paths in manpage substitutions

paths returned by get_option('foodir') are potentially relative to prefix

Noticed when comparing manpages generated by a meson build with those generated by an autotools build

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit 49283e238a0ba6051034ae635e5970891f17f9df)

modesetting: Allow a DRM fd to be passed on command line with -masterfd [v2]

This lets an application open a suitable DRM device and pass the file descriptor to the mode setting driver through an X server command line option, '-masterfd'.

There's a companion application, xlease, which creates a DRM master by leasing an output from another X server. That is available at

```
git clone git://people.freedesktop.org/~keithp/xlease
```
v2:
Always print usage, but note that it can't be used if setuid/gid

Suggested-by: Lyude Paul <lyude@redhat.com>

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
(cherry picked from commit 38ff29ec8ead0a293f50ac52146199babe4205ca)

commit d60ce5b01f5988abc9957473d7175872c8845b08
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sat Jun 16 13:00:01 2018 +0200

meson: Add configuration of listening on tcp, unix and local

bugzilla: https://bugs.kde.org/show_bug.cgi?id=395419
bugzilla: https://bugs.archlinux.org/task/59025

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
(Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit 2f39b2a07805194fdd7def30d941666963d6e670)

commit 79795bf9df395001c8d659ac8d28090ea9cefc8d
Author: Lyude Paul <lyude@redhat.com>
Date:   Wed Jun 27 20:29:42 2018 -0400

modesetting: Fix uninitialized memory usage in drmmode_crtc_get_fb_id()

This really sucked to find out :(

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Karol Herbst <kherbst@redhat.com>
(cherry picked from commit c41d4ff48f72aa964afdf131b59e1538295d062dc)

commit 820ce7cb8bb07018de89e13aa50ae6090f2d84eb
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Wed Jun 20 19:23:48 2018 +0200

glamor: Work around GEM usage v2
KMS drivers are not required to support GEM. In particular, vmwgfx doesn't support flink and handles and names are identical.
Getting a bo name should really be part of a lower level API, if needed, but in the mean time work around this by setting the name identical to the handle if GEM isn't supported.

This fixes modesetting driver dri2 on vmwgfx.

Reviewed-by: Deepak Rawat <drawat@vmware.com>
Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
(cherry picked from commit 9f02855e7a1b7a3c1e2ee7bfbc73e87c29126920)

commit ba6a9283817254dca90fd8f9ee695504e7c20908
Author: Lyude Paul <lyude@redhat.com>
Date: Wed Jun 20 19:12:32 2018 -0400

randr: Scream when creating a shared pixmap fails

This seems like a problem worth screaming about.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit dc90b1c3c328f1d0b022a234b69ef32bda7ccb01)

commit 91ec6245d6269a88a3f3ecd10fa7a7b326b0a6f16
Author: Lyude Paul <lyude@redhat.com>
Date: Wed Jun 20 19:12:31 2018 -0400

glamor: Unbreak glamor_fd_from_pixmap()

When support for allocating GBM BOs with modifiers was added, glamor_fd_from_pixmap() was changed so that it would return an error if it got a bo with modifiers set from glamor_fds_from_pixmap(). The problem is that on systems that support BOs with modifiers, glamor_fds_from_pixmap() will always return BOs with modifiers.

This means that glamor_fd_from_pixmap() was broken entirely, which broke a number of other things including glamor_shareable_fd_from_pixmap(), which meant that modesetting using multiple GPUs with the modesetting DDX was also broken. Easy reproducer:

- Find a laptop with DRI prime that has outputs connected to the dedicated GPU and integrated GPU
- Try to enable one display on each using the modesetting DDX
- Fail

Since there isn't a way to ask for no modifiers from glamor_fds_from_pixmap, we create a shared _glamor_fds_from_pixmap()
function used by both glamor_fds_from_pixmap() and
    glamor_fd_from_pixmap() that calls down to the appropriate
glamor_egl_fd* from pixmap() function.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Fixes: c8c276c956 ("glamor: Implement PixmapFromBuffers and BuffersFromPixmap")
(cherry picked from commit 186a21c4bac744ffe645c8d1a6d62a2d41c6d33d8)

commit 821f38fa56087fcb11d2d2483366307fc88bf365
Author: Lyude Paul <lyude@redhat.com>
Date: Thu Jun 7 20:30:34 2018 -0400

    modesetting: Also disable CRTC in drmmode_output_disable()

So, this did actually work on older kernels at one point in time,
however it seems that this working was a result of some of the Linux
kernel's atomic modesetting helpers not preserving the CRTC's enabled
state in the right spots. This was fixed in:

    846c7dfc1193 ("drm/atomic: Try to preserve the crtc enabled state in drm_atomic_remove_fb, v2")

As a result, atomic commits which simply disassociate a DRM connector
with it's CRTC while leaving the CRTC in an enabled state aren't enough
to disable the CRTC, and result in the atomic commit failing. This
currently can cause issues with MST hotplugging where X will end up
failing to disable the MST outputs after they've left the system. A
simple reproducer:

- Start up Xorg
- Connect an MST hub with displays connected to it
- Remove the hub
- Now there should be CRTCs stuck on the orphaned MST connectors, and X
  won't be able to reclaim them.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
(cherry picked from commit c12f1bd4b76088ea66e3bec9ab9721a52b20c3f2)

commit 2f4d0d84266b82d8838b8b9b7972f45d660e2d1
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Fri Jun 15 08:57:12 2018 +0200

    modesetting: use drmmode_bo_import() for rotate_fb

drmmode_shadow_allocate() still uses drmModeAddFB() which may fail if
the format is not as expected, preventing from using a rotated output.

Change it to use the new function drmMode_bo_import() which takes care of calling the drmModeAddFB2() API.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=106715
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Tomas Pelka <tpelka@redhat.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
(cherry picked from commit a85e94a50c94b07574e8701a3ff3c1243f4257f4)

commit 394ed02f8761c7599fa08628a4d28d34337028f6
Author: John Lumby <johnlumby@hotmail.com>
Date:   Tue Jun 26 17:14:34 2018 -0700

Change the DPMS initialization to be conditional on not set from config

Any DPMS timeout values set in ServerFlags section of the xorg.conf are being overwritten by DPMS extension initialization. Therefore change the DPMS initialization of timeout values to be conditional on not set from config.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=106963
Signed-off-by: John Lumby <johnlumby@hotmail.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit f5aace7a27d6d61068dca6f105d50)

commit 8c2f0f8cbdb04f3d2eb65e3ea98f809545f8e87
Author: Damien Leone <dleone@nvidia.com>
Date:   Mon Jun 18 16:24:28 2018 -0700

os: Recompute whether any clients are ready after check_timers()

If a driver calls AttendClient() from within a timer callback we need to re-compute the local 'are_ready' to prevent the attended client from waiting until WaitForSomething() times out.

This is a fix similar to commit 9ed5b263.

Signed-off-by: Damien Leone <dleone@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit f33cbe4264387ed14a586ba080885b4d21e4aa48b)

commit 180ab06d4564579cf05cb44c2533ac914b68be77
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Jun 11 09:21:08 2018 +0200
xwayland: mandatory EGL backend API

The API init_wl_registry() and has_wl_interfaces() are marked as being optional, but both GBM And EGLStream backends implement them so there is point in keeping those optional.

Suggested-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
(cherry picked from commit 92daeb31fa3235dc791e0444b072ec4bbc6e35ab)

commit c641d10ef04475f2898cc40536bd5a03371f2761
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Jun 11 09:13:30 2018 +0200

xwayland: simplify xwl_glamor_pixmap_get_wl_buffer()

When retrieving the Wayland buffer from a pixmap, if the buffer already exists, the GBM backend will return that existing buffer.

However, as seen with the Present issues, if the call had previously passed a wrong size, that buffer will remain at the wrong size for as long as the buffer exists, which is error prone.

Considering that the width/height passed to get_wl_buffer() is always the actual pixmap drawable size, and considering that the EGLStream backend makes no use of the size either, there is really no point in passing the width/height around.

Simplify the xwl_glamor_pixmap_get_wl_buffer() and EGL backends API by removing the pixmap size, and use the drawable size instead.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
(cherry picked from commit 792359057bd54548555674d2d309c0e6e64)

commit 79ebd7f689492314067fc863510ad44683b67e64
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:38:45 2018 +0200

xwayland: EGL_IMG_context_priority required by EGLStream

xwl_glamor_eeglstream_init_egl() uses "EGL_IMG_context_priority" extension, make sure it's actually available before using it.

Suggested-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit bdadaa25f5c1f62230d8e76b4ebfcef414ed9c90)
xwayland: check for EGLStream backend explicitly

Now that we have separate backends for EGLStream and GBM, we can explicitly check for the EGLStream backend to disable present support in that case.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit 5d843f6947538dabde258584a5795e0b25ea8779)

xwayland: refactor EGL backends for wayland registry

To be able to check for availability of the Wayland interfaces required to run a given EGL backend (either GBM or EGLStream for now), we need to have each backend structures and vfuncs in place before we enter the Wayland registry dance.

That basically means that we should init all backends at first, connect to the Wayland compositor and query the available interfaces and then decide which backend is available and should be used (or none if either the Wayland interfaces or the EGL extensions are not available).

For this purpose, hold an egl_backend struct for each backend we are to consider prior to connect to the Wayland display so that, when we get to query the Wayland interfaces, everything is in place for each backend to handle the various Wayland interfaces.

Eventually, when we need to chose which EGL backend to use for glamor, the available Wayland interfaces and EGL extensions available are all known to Xwayland.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit d7185a84b60ed03aa84eb522dcff365218e7211)

xwayland: move EGL backend init to glamor
Move EGL backends initialization to its own function in xwayland-glamor.c

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit 48f037a27c45b571e9750ac8129777ac0a33ab12b)

commit 8ffee3a6bd8901b4c487890087b8bd2ccb4a30a5c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:38:41 2018 +0200

xwayland: Add Wayland interfaces check

Introduces a new egl_backend function to let the EGL backend check for the presence of the required Wayland interfaces.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit f2fcb4877e976d078b0eb4755177170467341484)

commit aad1525180c0352ab9ea22c35405226b3afa69cc
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:38:40 2018 +0200

xwayland: move egl_backend to its own struct

EGL backend availability requires both EGL extensions and Wayland interfaces to be present, so we will need to consider multiple backends during initialization.

As a preliminary work, move the egl_backend to its own struct so that we can have more than one backend at any given time.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit b74b0f18b8d3032317e38453ee63ae9efd33a098)

commit 831f7194b7006da14424da219661373e7d49114a
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:38:39 2018 +0200

xwayland: skip drm authentication with render node

If using a render node, we can skip DRM authentication.

Suggested-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
xwayland: GBM should fail w/out "GL_OES_EGL_image"

Surely, we should fail to init GBM backend if "GL_OES_EGL_image" is missing.

This seems to have been lost with commit 1545e2dba ("xwayland: Decouple GBM from glamor").

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

xwayland: swap "name" and "id" in init_wl_registry()

Both xwl_glamor_init_wl_registry() and the Wayland global registry handler use the interface id/name in that order, using name/id in the egl_backend vfunc makes things confusing and error prone.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

xwayland: move glamor specific routines

Functions such as:

xwl_glamor_egl_supports_device_probing()
xwl_glamor_egl_get_devices()
xwl_glamor_egl_device_has_egl_extensions()

Are of no use outside of EGLStream support, move them to the relevant source file.
Similarly, the other glamor functions such as:

```c
xwl_glamor_init()
```
```
xwl_screen_set_drm_interface()
```
```
xwl_screen_set_dmabuf_interface()
```
```
xwl_glamor pixmap_get wl buffer()
```
```
xwl_glamor init wl registry()
```
```
xwl_glamor post damage()
```
```
xwl_glamor allow commits()
```
```
xwl_glamor egl make current()
```

Are useless without glamor support enabled, move those within a
a "#ifdef XWL_HAS_GLAMOR" in xwayland.h

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit f6b2109c1b49484af772df518314ec8e8432febe)

commit dea40be93577df80cf25e9b39c2aaea030b9e9e
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:37:58 2018 +0200

xwayland: make xwl_output_get_xdg_output() static

Make xwl_output_get_xdg_output() private, it doesn't need to be
available elsewhere.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit d31a7be15e259275599a9f67e0d921471ae64913)

commit 04a19291c93aaa4feeaf7a87663eaf1ef7c1f4b8
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:37:57 2018 +0200

xwayland: do not disable glamor if EGLStream failed

EGLStream requires glamor, but the opposite is not true. So if someone
passes ",-eglstream" with a GPU which does not support EGLStream, we
could maybe still try GBM and be lucky.

That allows Wayland compositors to pass ",-eglstream" regardless of the
actual hardware, if they want to enable EGLStream on GPU which support
it.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
xwayland: process Wayland events after adding screen

When we're done adding a new screen, we need to process any pending Wayland events again.

Hence we don't end up processing xdg_output events unexpectedly when glamor is disabled. Be that because "-shm" was passed or "-eglstream" has failed.

Failing to do that could lead to a crash at startup:

```plaintext
Xwayland: dixGetPrivateAddr: Assertion `key->initialized' failed. (EE)
(EE) Backtrace:
(EE) 0: Xwayland (OsSigHandler)
(EE) 1: libpthread.so.0 (funlockfile)
(EE) 2: libc.so.6 (gsignal)
(EE) 3: libc.so.6 (abort)
(EE) 4: libc.so.6 (?+0x0)
(EE) 5: libc.so.6 (__assert_fail)
(EE) 6: Xwayland (dixGetPrivateAddr)
(EE) 7: Xwayland (_fbGetWindowPixmap)
(EE) 8: Xwayland (getDrawableDamageRef)
(EE) 9: Xwayland (damageRegionProcessPending)
(EE) 10: Xwayland (damagePolyFillRect)
(EE) 11: Xwayland (miPaintWindow)
(EE) 12: Xwayland (miWindowExposures)
(EE) 13: Xwayland (miHandleValidateExposures)
(EE) 14: Xwayland (SetRootClip)
(EE) 15: Xwayland (update_screen_size)
(EE) 16: Xwayland (apply_output_change)
(EE) 17: libffi.so.6 (ffi_call_unix64)
(EE) 18: libffi.so.6 (ffi_call)
(EE) 19: libwayland-client.so.0 (wl_log_set_handler_client)
(EE) 20: libwayland-client.so.0 (_init)
(EE) 21: libwayland-client.so.0 (wl_display_dispatch_queue_pending)
(EE) 22: libwayland-client.so.0 (wl_display_roundtrip_queue)
(EE) 23: Xwayland (InitInput)
(EE) 24: Xwayland (dix_main)
(EE) 25: libc.so.6 (__libc_start_main)
```
Fatal server error:
Caught signal 6 (Aborted). Server aborting
Aborted (core dumped)

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit 44560af02823239e1b5b236e8cb365b5bdf24b6a)

commit 2d31a40db5ab3dc93863dc5ed9d9865490508575
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:37:55 2018 +0200

xwayland: "EGL_EXT_device_base" required for EGLStream

eglQueryDevicesEXT() would abort if the required extensions are not available, meaning that enabling "-eglstream" on a non-EGLStream capable hardware would lead to an abort().

Check that "EGL_EXT_device_base" extension is available and bail out early if not, so we don't abort() later in eglQueryDevicesEXT().

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit dbde3fec32641ae23389cffa12a04d3608936795)

commit 65d46b2dfd638f6f6c6e52f3494c64716fc6687e
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jun 5 19:37:54 2018 +0200

xwayland: allow "-eglstream" option

The command line option "-eglstream" used to enable EGLStream support for NVidia GPU was made available only when Xwayland was built with EGLStream support enabled.

Wayland compositors who spawn Xwayland have no easy way to tell whether or not Xwayland was built with EGLStream support enabled, and adding "-eglstream" command line option to Xwayland when it wasn't built with EGLStream support would prevent Xwayland from starting ("Unrecognized option" error).

Make sure we support the command line option "-eglstream" regardless of
EGLStream support in Xwayland. Obviously, if Xwayland was built without
EGLStream support, this has no effect.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Review-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
(cherry picked from commit 06c31e78e360363238cf20e7afde4990a2c304)

commit 38835d1d8f613c3553149fc05e61a8bb9b0aef48
Author: Vladimir Panteleev <git@thecybershadow.net>
Date:   Wed Jun 20 13:37:45 2018 +0000

glx/vndcmcs: Fix vendor hash table key size

The keySize parameter of the hashing/comparison functions was
incorrectly specified to be sizeof(void*), even though the keys of
this hashtable are CARD32.

Fixes address sanitizer failure on 64-bit builds.

Reviewed-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 707d0f912b916e7546c4f7e7a5f7023a53e74615)

commit d7220428daee26accecb6ae9771e255c801c83572
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Tue Jun 5 13:05:39 2018 +0300

Xext/shm: Refuse to work for remote clients

Avoid access to System V shared memory segment on the X server side
for clients forwarded via SSH. Also prevent them from hanging while
waiting for the reply from the ShmCreateSegment request.

v2: Allow ShmQueryVersion request even for remote clients

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=11080
Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit ec7e2b54ca43ab2a077082967bc3ead3e227e)

commit 9e417072bcde15f32dbf083327b6fe0202bb4cf4
Author: Micha Górny <gentoo@mgorny.alt.pl>
Date:   Mon Jun 11 17:17:31 2018 -0400

xfree86: Makefile shouldn't rely on superuser being named 'root'

Change the 'chown' statement in Makefile.am to use the numeric UID
of superuser instead of relying on the name 'root'.
xwayland: use pixmap size on present flip

If the pixmap size does not match the present box size, flickering occurs.

This can happen when the client changes its size (e.g. switching to fullscreen), and since the buffer is kept as long as the pixmap is valid, once the buffer is created, it remains at the wrong (old) size and causes continuous flickering.

Use the actual pixmap's drawable size instead of the present box to create the buffer so that it's sized appropriately.

present/wnmd: Preserve window pixmap's screen_x/y on flip

The incorrect values could result in the new pixmap's contents getting corrupted down the line.

v2:
* Guard screen_x/y lines by #ifdef COMPOSITE

Bugzilla: https://bugs.freedesktop.org/106841
Fixes: 029608dd8020 "present: Add window flip mode"
Reviewed-by: Keith Packard <keithp@keithp.com> # v1
xwayland: fix typo in non-modifier fallback path

Pointed out on irc by q66.
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

xi: add forgotten byte-swaps for Valuator fields

This has caused nonsensical values in xinput output.

Signed-off-by: Roman Kapl <code@rkapl.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xi: fix byte-swapping of button labels

The byte-swapping code forgot that the xXIButtonInfo is followed by a button mask, not directly by the button labels. This resulted in client crashes in cross-endian setups, for example in `xinput list --long`, since the client got an invalid atom.

A new function was introduced to get the right positions for the label and mask data.

Signed-off-by: Roman Kapl <code@rkapl.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 55171d738a0c2dd8a37ba2e880ea4658fd8001a2
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 29 10:39:22 2018 +1000

commit 64bf28572946da1db84f6e61b02b5e6432f13d10
Author: Roman Kapl <code@rkapl.cz>
Date:   Thu Jun 7 03:31:42 2018 +0200

Xi: add forgotten byte-swaps for Valuator fields

This has caused nonsensical values in xinput output.

Signed-off-by: Roman Kapl <code@rkapl.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 273115a01285ff2ce4837687f9bf9d745a519a3
Author: Roman Kapl <code@rkapl.cz>
Date:   Thu Jun 7 03:31:41 2018 +0200

Xi: fix byte-swapping of button labels

The byte-swapping code forgot that the xXIButtonInfo is followed by a button mask, not directly by the button labels. This resulted in client crashes in cross-endian setups, for example in `xinput list --long`, since the client got an invalid atom.

A new function was introduced to get the right positions for the label and mask data.

Signed-off-by: Roman Kapl <code@rkapl.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
exa: Use PictureMatchFormat for source-only picture format description

Their pFormat member is NULL, which resulted in a crash in miRenderColorToPixel.

 Fixes: 8171d4c2d67b "render: Store and use all 16bpc of precision for solid pixels (v2.1)"
Reviewed-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 3ebe6ab850675e1091df2125e2d9b147436e6c)

commit 33f20c38fc15e6664635ad22a581d7860e4b185d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed May 23 11:18:02 2018 +0200

glamor: Propagate glamor_fds_from_pixmap error in glamor_fd_from pixmap

 glamor_fds_from_pixmap returns 0 on error, but we were treating that as success, continuing with uninitialized stride and fd values.

Also bail if the offset isn't 0, same as in dri3_fd_from pixmap.

v2:
* Reduce to a simple one-liner fix (Emil Velikov)

 Fixes: c8c276c9569b "glamor: Implement PixmapFromBuffers and BuffersFromPixmap"
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
(cherry picked from commit 4d5950ce14676f970d9def97380929a93948b98f2)

commit 544caffae1b0dc786383b117c036284feb579a66
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed May 23 11:38:13 2018 +0200

glamor: Always return 0 from glamor_fds_from_pixmap on error

 This matches what glamor_egl_fds_from_pixmap and dri3_fds_from_pixmap do and what proc_dri3_buffers_from_pixmap expects.

 Fixes: c8c276c9569b "glamor: Implement PixmapFromBuffers and BuffersFromPixmap"
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
(cherry picked from commit 3da999a0390407d512bf784e4fafa01482bfff9ea)

commit a9a17581ce73a49f0a8d3b9dbb2db083fa44cb69
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri May 18 11:23:01 2018 +0200
modesetting: Pass O_CLOEXEC when opening a DRM device

We don't want DRM file descriptors to leak to child processes.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
(cherry picked from commit 315c63c41d833700c505e4f21ffac4e59e1e3b2c)

commit c3a06e330b7e55e1daaefbb5c16a075c8023bb0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri May 18 11:23:00 2018 +0200

gxfree86: Fix O_CLOEXEC usage in lnx_platform

It was passing O_CLOEXEC as permission bits instead of as a flag.

Reviewed-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit ab53e2859facecc0486344679dc01ea31f8427e9)

commit 662273397c537d031e1aee7c607c925ec66b2d10
Author: Lukas F. Hartmann <lukas@mntmn.com>
Date:   Tue May 15 21:51:56 2018 +0200

glamor_init: clamp GLSL to 120 if platform doesn't have instanced arrays

Hi,

I upgraded Xwayland and the assorted libraries from git masters today, and noticed that glamor wouldn't work anymore on i.MX6/etnaviv. The error was:

No provider of glVertexAttribDivisor found. Requires one of:
  Desktop OpenGL 3.3
  OpenGL ES 3.0
  GL extension "GL_ANGLE_instanced_arrays"
  GL extension "GL_ARB_instanced_arrays"
  GL extension "GL_EXT_instanced_arrays"
  GL extension "GL_NV_instanced_arrays"

The problem is that etnaviv offers GLSL 140 on GL 2.1 and glamor rendering assumes that glVertexAttribDivisor() is always available on GLSL>=130, which is not the case here. Forcing GLSL 120 makes glamor work fine again on this platform. After chatting with ajax in #xorg-devel, the following solution was proposed.

This is my first time of submitting a patch, so please excuse me and
advise if I'm doing it wrong ;)

Cheers
Lukas (mntmn)
Reviewed-by: Eric Anholt <eric@anholt.net>

(cherry picked from commit 7437b6dbdee050f8ebbb3a79b9077d051c91880c3)

commit 590374bd9213091b51679887d473d1a3067699b5
Author: Bas Nieuwenhuizen <bas@basnieuwenhuizen.nl>
Date:   Sun May 13 15:31:37 2018 +0200

DRI2: Sync radeonsi_pci_ids.h from Mesa

Fixes DRI2 client driver name mapping for newer AMD GPUs with the
modesetting driver, allowing the DRI2 extension to initialize.

Fixes using GL with the modesetting driver for me.

Seems we were way behind on this one, time to look into something
more scalable?

Signed-off-by: Bas Nieuwenhuizen <bas@basnieuwenhuizen.nl>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
(cherry picked from commit 3ab32a537840c6e6d6228b4ba62f98b5f52248a)

commit 5407be2c516fa23c505e7ba254367b5739399960
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Sun May 13 19:36:05 2018 +0100

meson: don't put literal 'PACKAGE_STRING' and 'XORG_MAN_PAGE' in man pages

Instead, substitute the same values as autotools does

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
(cherry picked from commit 27ef10bfa1a02da7338a82e2312d20803e5876)

commit acd881e271419a2fc08cfc34ed9845346cee9e84
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Sun May 13 19:36:04 2018 +0100

meson: don't install xorg wrapper manpages if suid-wrapper isn't being used

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
(cherry picked from commit 47321bb455b1226c04711241496e62667eea34ea)
meson: install xwinclip and Xwinrc man pages

Omitted from a1e8dc05

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
(cherry picked from commit 08a3583b5b2f812cc7f039aebd74ff9b1cb0dbcd)

commit 82f8fc5ffcc0065537896c43ae60d67d9a164c75
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 10 12:24:11 2018 -0400

xserver 1.20

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b6bf6b8b8416ec4b717eb78703fb63789c68e509a
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed May 2 12:54:26 2018 -0700

meson: Fix module_dir configuration (v2)

meson.build has code to set the module_dir variable to
${libdir}/xorg/modules if the module_dir option string is empty.
However, this has several problems:

1. The variable is only used for an unused @moduledir@ substitution in
   the man page. The rule for xorg-server.pc uses option('module_dir')
   directly instead.
2. The 'module_dir' option has a default value of 'xorg/modules' so the
   above rule doesn't do anything by default.
3. The xorg-server.pc rule uses ${exec_prefix}/option('module_dir'), so
   the effect of #2 is that the default moduledir is different between
   autoconf and meson. E.g. if ${prefix} is /X, then you get

   autoconf: moduledir=/X/lib/xorg/modules
   meson:    moduledir=/X/xorg/modules

Fix this by using the module_dir variable when generating xorg-server.pc, and by
using join_paths() to assign module_dir unconditionally.

v2: Keep the 'xorg/modules' default path, but use join_paths() unconditionally (Thierry Reding)

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9d628ee5facf6318368d5b8ca181e083adcffe8c
Author: Roman Gilg <subdiff@gmail.com>
Date: Wed May 2 21:32:48 2018 +0200

modesetting: set gbm as dependency in meson build

Modifiers support needs gbm as a dependency. Without setting the dependency included headers are not found reliably and the build might fail if the headers are not placed in the default system include paths.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0445705a8bbf76a5532997823ea8110daff26c6d
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 7 17:21:20 2018 -0400

man: Fix automake seddery

Because this is an automakefile, things inside @@ get expanded, which means your sed ends up saying s/var/log/var/log| and your manual pages still have @logdir@ in them. Fix this by hiding the @s inside a trivial character range, which keeps the pattern preserved all the way into the Makefile.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 9f21872ad8591c1f6f8ea1e466f212c3582d3c33
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 7 17:21:19 2018 -0400

glx: Be sure to set an error for ghost contexts

Otherwise the caller is going to return garbage memory for the error value.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b9f415cbad47412bf218cf7375d0c2856a27d1b
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 7 17:21:18 2018 -0400

present: Fix swapping of PresentCompleteNotify events

The code would fall through to the PresentIdleNotify case, and nothing
good would come of it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit cc6777d85f3509b0f9dfc9210d0a0415a2a388d
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 7 17:21:17 2018 -0400

xwayland: Don't create a "fake" crtc for Present

We probably don't want a fake crtc to be visible to clients, and we definitely don't want to generate events every time we create such a fake (which would happen as a side effect from RRCrtcCreate hitting RRTellChanged). As it happens we're not actually using that crtc for anything because xwayland doesn't store any state on the crtc object, so it suffices to use the real crtc for the screen.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Tested-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Roman Gilg <subdiff@gmail.com>

commit b23a0e4ded62500f2c248f23962ff5ac718467e6
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:20 2018 -0700

xwayland: Fix a 32-bit build warning.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ef95331603ff31d3643360c399b3865db5b0b97d
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:19 2018 -0700

dri3: Switch fds_fromPixmap to stdint types.

Again, this was causing 32-bit build warnings due to mixing CARD* and stdint.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4c754b01fafc4b042d9918c05a71157f6fa6392a
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:18 2018 -0700

dri3: Switch get_modifiers to using stdint.
We were mixing stdint and CARD* types, causing compiler warnings on 32-bit. Just switch over to stdint, which is what we'd like the server to be using long term, anyway.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5e86484a183f051d7a8a67ea13c23a3d6e69e76b
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:17 2018 -0700

dri3: Switch get_drawable_modifiers to using stdint.

We were mixing stdint and CARD* types, causing compiler warnings on 32-bit. Just switch over to stdint, which is what we'd like the server to be using long term, anyway.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4ec02b573ef2424965d7ce2d33d150ddb92ec544
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:16 2018 -0700

randr: Fix a compiler warning on 32-bit.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e1ccd0fa0e1081edf8a2c69ce68e3f67a4aeeba
Author: Eric Anholt <eric@anholt.net>
Date: Mon May 7 16:46:15 2018 -0700

dix: Fix a warning about GetTimeInMillis return value in XFont2.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cf838f5ca81e0e967902b74fb1971be6fac5c601
Author: Roman Gilg <subdiff@gmail.com>
Date: Fri May 4 03:07:31 2018 +0200

xwayland: persistent window struct on present

Instead of reusing xwl_window introduce a persistent window struct for every window, that asks for Present flips.

This struct saves all relevant data and is only freed on window destroy.
modesetting: Fix and improve ms_kernel_msc_to_crtc_msc()

The old 32-Bit wraparound handling didn't actually work, due to some integer casting bug, and the mapping was ill equipped to deal with input from the new true 64-bit GetCrtcSequence/QueueCrtcSequence api's introduced in Linux 4.15.

For 32-Bit truncated input from pageflip events and old vblank events and old drmWaitVblank ioctl, implement new wraparound handling, which also allows to deal with wraparound in the other direction, e.g., if a 32-Bit truncated sequence value is passed in, whose true 64-Bit in-kernel hw value is within \(2^{30}\) counts of the previous processed value, but whose 32-bit truncated sequence value happens to lie just above or below a \(2^{32}\) boundary, iow. one of the two values 'sequence' vs. 'msc_prev' lies above a \(2^{32}\) border, the other one below it.

The method is directly translated from Mesa's proven implementation of the INTEL_swap_events extension, where a true underlying 64-Bit wide swapbuffers count (SBC) needs to get reconstructed from a 32-Bit LSB truncated SBC transported over the X11 protocol wire. Same conditions apply, ie. successive true 64-Bit SBC values are close to each other, but don't always get received in strictly monotonically increasing order. See Mesa commit cc5ddd584d17abd42e83805969485740d9 ("glx: Handle out-of-sequence swap completion events correctly. (v2)") for explanation.

Additionally add a separate path for true 64-bit msc input originating from Linux 4.15+ drmCrtcGetSequence/QueueSequence ioctl's and corresponding 64-bit vblank events. True 64-bit msc's don't need remapping and must be passed through.

As a reliability bonus, they are also used here to update the tracking values msc_prev and ms_high with perfect 64-Bit ground truth as baseline for mapping msc from pageflip completion events, because pageflip events are always 32-bit wide, even when the new kernel api's are used. Because each pageflip(-event) is always preceeded close in time (and vblank count) by a drmCrtcQueueSequence queued event or drmCrtcGetSequence query as part of DRI2 or DRI3+Present swap scheduling, we can be certain that each pageflip event will get its truncated 32-bit msc remapped reliably to the true 64-bit msc of flip completion whenever the sequence
api is available, i.e. on Linux 4.15 or later.

Note: In principle at least the 32-bit mapping path could also be
backported to earlier server branches, as this seems to be broken for at
least server 1.16 to 1.19.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Cc: Keith Packard <keithp@keithp.com>
Cc: Michel Dänzer <michel.daenzer@amd.com>

commit 73f0ed2d928afc692ed057eb3d7627328a6e5b12
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Fri May 4 14:14:10 2018 +0200

modesetting: Remove ms_crtc_msc_to_kernel_msc().

The function is ported from intel-ddx uxa backend around 2013, where its
stated purpose was to apply a vblank_offset to msc values to correct for
problems with those kernel provided msc values. Some (somewhat magic and
puzzling to myself) heuristic tried to guess if provided values were
unreasonable and tried to adapt the corrective vblank_offset to account
for that.

Except: It wasn't applied to kernel provided msc values, but the values
delivered by clients via DRI2 or Present, so valid client targetmsc
values, e.g., requesting a vblank event > 1000 vblanks in the future,
triggered the offset correction in arbitrarily wrong ways, leading to
wrong msc values being returned and thereby vblank events queued to the
kernel for the wrong time. This causes glXSwapBuffersMscOML and
glXWaitForMscOML to swap / return immediately whenever a swap/wait in >
1000 vblanks is requested.

The original code was also written to only deal with 32 bit mscs, but
server 1.20 modesetting ddx can now use new Linux 4.15+ kernel vblank
api to process true 64 bit msc's, which may confuse the heuristic even
more due to 32 bit integer truncation/wrapping.

This code caused various problems in the intel-ddx in the past since
year 2013, and was removed there in 2015 by Chris Wilson in commit
42be2e2ef9646be5c4586868cf332b4c79bb4618:

" uxa: Remove the filtering of bogus Present MSC values

If the intention was to filter the return values from the kernel, the
filtering would have been applied to the kernel values and not to the
incoming values from Present. This filtering introduces crazy integer
promotion and truncation bugs all because Present feeds garbage into its
vblank requests.

Indeed, I found a Mesa bug yesterday which can cause Mesa's PresentPixmap request to spuriously feed garbage targetMSC's into the driver under some conditions. However, while other video drivers seem to cope relatively well with that, modesetting ddx causes KDE-5's plasmashell to lock up badly quite frequently, and my suspicion is that the code removed in this commit is one major source of the extra fragility.

Also my own tests fail for any swap scheduled more than 1000 vblanks into the future, which is not uncommon for some scientific applications.

Inow. modesetting's swap scheduling seems to be more robust without this functionafaics.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Cc: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Keith Packard <keithp@keithp.com>
Tested-by: Mike Lothian <mike@fireburn.co.uk>

commit f5ded22e14e2e15390eff8e01ce32de496ae0e86
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Fri May 4 10:48:17 2018 -0700

meson: Set XCONFIGFILE to 'xorg.conf' instead of '/etc/xorg.conf'

The autoconf build hard-codes XCONFIGFILE to just 'xorg.conf':

XF86CONFIGFILE="xorg.conf"
AC_DEFINE_DIR(XCONFIGFILE, XF86CONFIGFILE, [Name of configuration file])

Later, the X server passes that into DoSubstitution() which expands the path:

DoSubstitution(template="/etc/X11/%X", ..., XConfigFile="xorg.conf")

This returns "/etc/X11/xorg.conf".

The Meson build, on the other hand, sets XCONFIGFILE to join_paths(get_option('sysconfdir'), 'xorg.conf'). If sysconfdir is /etc, this results in '/etc/xorg.conf', resulting in DoSubstitution returning '/etc/X11/etc/xorg.conf'.

Fix this by just hard-coding XCONFIGFILE to 'xorg.conf'.
meson: Define DEFAULT_LIBRARY_PATH as join_paths(get_option('prefix'), get_option('libdir'))

'libdir' defaults to 'lib', so running X -showDefaultLibPath just prints 'lib' instead of '/usr/lib' or '/usr/local/lib'. Use joint_paths() to get the correct full path.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Thierry Reding <treding@nvidia.com>

commit 1a3e4a2f6722048c5c7c4c1a9d6748e68a895a3e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri May 4 15:09:22 2018 -0700

dri2: Sync i965_pci_ids.h from mesa

Copied from Mesa with no modifications.

Gives us Cofeelake platform names updates and sync on Kaby Lake, Ice Lake PCI IDs.

Acked-by: Kenneth Graunke <kenneth@whitecape.org>
Signed-off-by: Anuj Phogat <anuj.phogat@gmail.com>

commit 1dcd784a677c58e77c368a676fd9dbd3159db94f
Author: Anuj Phogat <anuj.phogat@gmail.com>
Date:   Thu May 3 11:29:11 2018 -0700

meson: Fix build with three-component version numbers

Otherwise:

include/meson.build:5:0: ERROR: Index 3 out of bounds of array of size 3.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4191b59bd5458ea3a8b0d5272bdcd250fee1e129
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 2 15:09:52 2018 -0400

gitlab-ci: Add for gitlab.freedesktop.org
Looks quite a bit like the travis path, doesn't it? Still, nice to not rely on an external service if we don't have to.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 22285a6f1c5fa6ba22f4214c4ccc09e27d1925f6
Author: Roman Gilg <subdiff@gmail.com>
Date: Fri Apr 20 17:10:06 2018 +0200

present: fix msc offset calculation in window mode

Instead of getting the current msc value from the window, which might be different to old one directly take the last saved msc value saved in the window_priv struct.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d7297b00444b0e2cd936fbb08206a575ab8c29d
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Mon Apr 30 15:19:53 2018 -0700

randr: Account for panning and transforms when constraining the cursor

commit 56c90e29f04727c903bd0f084d23bf44eb1af0a11 [1.10.99.901]
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 15 14:29:14 2010 -0500

randr: Add RRConstrainCursorHarder

introduced a regression as it ignored the effect of panning and transforms upon the crtc bounds. The result was that the cursor would be constrained to the visible area even though the panning arena was much bigger, or the cursor was constrained to a region that did not even match the visible area when the output was transformed or reflected.

This supercedes the hack introduced by
commit 1bf81af4a6be1113bce3b940ab264d5ce9e0f0c5d [1.12.99.904]
Author: Rui Matos <tiagomatos@gmail.com>
Date: Mon Jul 30 14:32:12 2012 -0400

xf86RandR12: Don't call ConstrainCursorHarder() if panning is enabled which disabled the cursor constraints if a panning mode was active, but did not fix the regression with arbitrary output transforms.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=39949
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit a843c61456b2046fb1780415f17162b503243af7
Author: Roman Gilg <subdiff@gmail.com>
Date:   Fri Apr 20 17:07:42 2018 +0200

xwayland: restrict present cleanup to presenting and top parent window

Clean up only if the request points to the presenting window or its top
parent window.

Since in this case all events are removed unconditionally, always stop
the timer.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Roman Gilg <subdiff@gmail.com>

commit 975d3a509667579b81d88616b91491472059354d
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 30 14:10:26 2018 -0400

xwayland: Avoid using epoxy_has_egl()

There's no real point - if we don't have EGL then the extension check is
also going to fail - and the entrypoint is new in 1.5.0, which we don't
need to require yet.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d6f2272f44ce1a7a96ae04fdbe8708514c60771
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 30 14:07:44 2018 -0400

meson: Bump version number here too

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6cace4990abc2386b6ea68536b321994d264c295
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Thu Apr 26 11:04:15 2018 -0400

modesetting: Fix GBM objects leak when checking for flip

GBM objects were never destroyed after looking for format and
modifier compatibility when deciding whether flipping or copying
a presented pixmap.
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=106106
Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>

commit e00ada9fbbddf4570fe38c3ceeb922af7afcd1a
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Apr 30 09:06:09 2018 +0200

glamor: Don't fail in glamor_get_formats if not dmabuf_capable.

If dmabuf_capable is false, because the server "dmabuf_capable"
debug flag isn't set, treat it as successful query with zero
returned formats, instead of failure.

This allows the servers cache_formats_and_modifiers() function
to cache the fact that formats are not supported during the
current server generation, instead of pointless retesting at
every invocation.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 55db3c9cfc1bc92a53b75b99e8fa49a32d7efe63
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Apr 30 09:06:08 2018 +0200
dri3: Robustly clamp to 1.0 if not all screens support 1.2

Checking for dri3_screen_info_rec.version >= 2 is insufficient,
as some shipping drivers, e.g., intel-ddx, nouveau-ddx, set the
version to DRI3_SCREEN_INFO_VERSION, i.e. to whatever version the
installed servers headers define. On server 1.20 that would
be version 2, but the drivers still don't support the v1.2
hooks. Make sure all hooks are defined before reporting v1.2.

Also make clamping of reported version to minimum of client
or server robust against possible future clients with possible
majorVersion >= 2.0.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Cc: Daniel Stone <daniels@collabora.com>

commit fbc5c5cd532962d2df96a04e5c8cc0d21b47b08a
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Apr 30 09:06:07 2018 +0200
dri3: Fix error handling in dri3_buffer_from_pixmap request.
The old info->fd_from_pixmap() driver hook, which is preferentially used in dri3_fd_from_pixmap(), can return error codes other than -1, e.g., -EINVAL (-22) on nouveau-ddx.

Not handling the error causes a broken/corrupted X-Connection resulting from a failed request.

This fixes failure of sddm-greeter to start up under nouveau-ddx with DRi3 enabled and DRi3 protocol version properly clamped to 1.0 by the server (see followup patch).

Fixes: 75bba3aedcb0 ("dri3: Use single-FD screen call for single-FD request")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Cc: Daniel Stone <daniels@collabora.com>

commit 19d006ee3db4b4635ef9ef5c92562f3ffedd305
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Apr 24 16:08:26 2018 -0400
dri3: Clamp to 1.0 if not all screens support 1.2

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 352a5ac87fd344936b759a5766eb74271e7d295d
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Apr 24 10:17:26 2018 +0200
dri3: Fix DRi3.2 support for drivers other than modesetting-ddx.

Both xf86-video-intel and xf86-video-nouveau cause OpenGL clients to fail when used with DRi3 on server 1.20 with Mesa 18.1.

Reason is that the servers DRi3 version is now unconditionally reported as DRi3 1.2 to 1.2 capable clients. This causes clients using Mesa 18.1 to use the new DRi 3.2 requests DRi3GetSupportedModifiers, DRi3PixmapFromBuffers, etc. Drivers other than modesetting-ddx do not support the needed hooks like info->pixmap_from_fds or info->get_formats, info->get_modifiers. Unfortunately we can't simply report the servers DRi3 version as 1.0 in this case, as the reported version can not be specific to a X-Screen, and different screens may have drivers with different capabilities.

Fortunately we can't simply report the servers DRi3 version as 1.0 in this case, as the reported version can not be specific to a X-Screen, and different screens may have drivers with different capabilities.

Luckily the server has fallbacks to ->pixmap_from_fd, ->fd_from_pixmap, and simply reporting an empty set of supported modifiers for the DRi3GetSupportedModifiers request if the ddx doesn't support DRI 3.2.
Clients like Mesa 18.1’s dri3 loader respond to the empty set of reported modifiers by falling back to a dri driver selected buffer format (image->createImageWithModifiers responds to a NULL modifier_list by acting like ->createImage()). This works, but Mesa 18.1 will still try to use the DRI3PixmapFromBuffers request to create the corresponding pixmap, just passing in a modifier that corresponds to whatever tiling the dri driver selected by default. To prevent this request - and thereby the client - from failing with a BadImplementation error, remove the check for modifier == DRM_MOD_FORMAT_INVALID in the pixmap_from_fd fallback path of dri3_pixmap_from_fds() and trust that if we hit the fallback path then the client will have passed a buffer with some driver specific default tiling that can be handled by pixmap_from_fd.

Another approach would be for Mesa’s dri3 loader to keep track how a buffer was created (with explicit modifiers or not), and then call DRI3PixmapFromBuffers or DRI3PixmapFromBuffer, but then any future DRI3 client implementation would need to be fixed, so the server side is probably the better place for this.

Tested on Intel Ivybridge and NVidia Pascal.

Fixes: 6e7c40f62db6 ("dri3: Add multi-planar/modifier buffer requests")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Cc: Daniel Stone <daniels@collabora.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Mike Lothian <mike@fireburn.co.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c6ab21022ce876f9c1409db4bb1967134f9f6db8e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Apr 24 17:03:07 2018 -0400

xserver 1.20 RC5

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c593d843f6305dd8bc5fa7762273d319a223abc4
Author: Daniel Stone <daniels@collabora.com>
Date:   Tue Apr 24 21:27:47 2018 +0100

dri3: Don't call vfuncs on old DRI3 screens

Only call the get_supported_modifiers vfunc if the DRI3 screen struct is sufficiently new.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit 54ac09717cd8c49259f53a4a227d903ebe8e0a32
Author: Lyude Paul <lyude@redhat.com>
Date:   Fri Apr 20 14:38:05 2018 -0400

xwayland: Add glamor egl_backend for EGLStreams

This adds initial support for displaying Xwayland applications through
the use of EGLStreams and nvidia's custom wayland protocol by adding
another egl_backend driver. This also adds some additional egl_backend
hooks that are required to make things work properly.

EGLStreams work a lot differently then the traditional way of handling
buffers with wayland. Unfortunately, there are also a LOT of various
pitfalls baked into it's design that need to be explained.

This has a very large and unfortunate implication: direct rendering is,
for the time being at least, impossible to do through EGLStreams. The
main reason being that the EGLStream spec mandates that we lose the
entire color buffer contents with each eglSwapBuffers(), which goes
against X's requirement of not losing data with pixmaps. no way to use
an allocated EGLSurface as the storage for glamor rendering like we do
with GBM, we have to rely on blitting each pixmap to it's respective
EGLSurface producer each frame. In order to pull this off, we add two
different additional egl_backend hooks that GBM opts out of
implementing:

- egl_backend.allow_commits for holding off displaying any EGLStream
  backed pixmaps until the point where it's stream is completely
  initialized and ready for use
- egl_backend.post_damage for blitting the content of the EGLStream
  surface producer before Xwayland actually damages and commits the
  wl_surface to the screen.

The other big pitfall here is that using nvidia's wayland-eglstreams
helper library is also not possible for the most part. All of it's API
for creating and destroying streams rely on being able to perform a
roundtrip in order to bring each stream to completion since the wayland
compositor must perform it's job of connecting a consumer to each
EGLStream. Because Xwayland has to potentially handle both responding to
the wayland compositor and it's own X clients, the situation of the
wayland compositor being one of our X clients must be considered. If we
perform a roundtrip with the Wayland compositor, it's possible that the
wayland compositor might currently be connected to us as an X client and
thus hang while both Xwayland and the wayland compositor await responses
from eachother. To avoid this, we work directly with the wayland
protocol and use wl_display_sync() events along with release() events to
set up and destroy EGLStreams asynchronously alongside handling X
clients.
Additionally, since setting up EGLStreams is not an atomic operation we have to take into consideration the fact that an EGLStream can potentially be created in response to a window resize, then immediately deleted due to another pending window resize in the same X client’s pending requests before Xwayland hits the part of it's event loop where we read from the wayland compositor. To make this even more painful, we also have to take into consideration that since EGLStreams are not atomic that it's possible we could delete wayland resources for an EGLStream before the compositor even finishes using them and thus run into errors. So, we use quite a bit of tracking logic to keep EGLStream objects alive until we know the compositor isn't using them (even if this means the stream outlives the pixmap it backed).

While the default backend for glamor remains GBM, this patch exists for users who have had to deal with the reprecussion of their GPU manufacturers ignoring the advice of upstream and the standardization of GBM across most major GPU manufacturers. It is not intended to be a final solution to the GBM debate, but merely a bandaid so our users don't have to suffer from the consequences of companies avoiding working upstream. New drivers are strongly encouraged not to use this as a backend, and use GBM like everyone else. We even spit this out as an error from Xwayland when using the eglstream backend.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Acked-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Just a small autogenerated header that will soon contain more then just one macro.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

This takes all of the gbm related code in wayland-glamor.c and moves it
into it's own EGL backend for Xwayland, xwayland-glamar-gbm.c.
Additionally, we add the egl_backend struct into xwl_screen in order to
provide hooks for alternative EGL backends such as nvidia's EGLStreams.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d2d664df974ac5a55d5819f0379fcdac05d22fa3
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 23 17:21:09 2018 -0400

vfb: Fix man page in re depth

32 is not a valid depth, and the default is now 24 not 8.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 79a7137557d33d4e92713ae8cabe838e44fe488
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 23 16:19:15 2018 -0400

glx: Require depth > 12 for GLX visuals

fb is happy to do TrueColor to 8bpp drawables, but mesa is not. Depth 12
is the biggest pseudocolor anyone ever really did, and 15 is the least
truecolor.

Without this Xvfb at depth 8 would "have" GLX, but no vendors
would actually back any of the screens. libGL will attempt to call
GLXQueryServerString to figure out the GLX version, and vnd will throw
an error because there's no vendor to dispatch that to, and then clients

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 818885e6198cf2883155cb3d2e22e8c7bc4239fb
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 23 16:19:14 2018 -0400

vnd: Disable GLX if no vendors successfully initialized

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fc25bceb515e5c18eeceabf5933c3e05cdac1a5a
Author: Adam Jackson <ajax@redhat.com>
GLX registers an extension before we know if there are any screens that can actually do it. It's inconvenient to shrink the extension list, so instead allow the extension to simply zero out its base opcode to indicate that it needed to panic and disable itself.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 73a1cb9c92e9362c1ae3d69fed743e21916d687
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 23 16:19:12 2018 -0400

dix: Factor out extension availability check

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9d5af632fde0373babfa32e66a59cfeb26ed7e5d
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 23 15:21:14 2018 -0400

animcur: Fix crash when removing a master device

Reproducer:

$ Xvfb -ac -noreset :1 &
$ DISPLAY=:1 xinput create-master touch1
$ DISPLAY=:1 xinput remove-master "touch1 pointer"

Bugzilla: https://bugs.freedesktop.org/105761
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8275903956d7876519fa55fb805669de301bf243
Author: Thomas Klausner <wiz@NetBSD.org>
Date:   Mon Apr 23 14:56:17 2018 -0400

sdksyms: Cope with __pid_t and __uint32_t

Kludge sdksyms.c generator to not fail on GetClientPid.
It returns pid_t which on NetBSD is #define pid_t __pid_t
This slightly alters the GCC preprocessor output which this fragile code could not deal with when using GCC 5+

Signed-off-by: Adam Jackson <ajax@redhat.com>
modesetting: Only use modifiers on kms drivers which do support them.

Use the DRM_CAP_ADDFB2_MODIFIERS query to make sure the kms driver supports modifiers in the addfb2 ioctl, and fall back to addfb ioctl without modifiers if modifiers are unsupported.

E.g., as of Linux 4.17, nouveau-kms so far does not support modifiers and gets angry if drmModeAddFB2WithModifiers() is called (-> failure to set a video mode -> blank screen), but Mesa's nvc0+ gallium driver causes gbm_bo_get_modifier() to return a valid modifier by translating the default tiling of bo's created via gbm_bo_create() into a modifier other than DRM_FORMAT_MOD_INVALID (see Mesa's nvc0_miptree_get_modifier()).

Testing for != DRM_FORMAT_MOD_INVALID is apparently not sufficient for safe use of drmModeAddFB2WithModifiers.

Bonus: Handle potential failure of populate_format_modifiers().

The required DRM_CAP is defined since libdrm v2.4.65, and we require v2.4.89+ for the server, so we can use it unconditionally.

Tested on intel-kms, radeon-kms, nouveau-kms. Fixes failure on NVidia Pascal.

Fixes: 2f807c2324b4 ("modesetting: Add support for multi-plane pixmaps when page-flipping")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Cc: Daniel Stone <daniels@collabora.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>

meson: Fix indenting in glx/meson.build

No functional changes, just fixing a tabs vs. space error I noticed

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 32992
meson: Ensure we always build Xext/hashtable.c for glx

Seems that while glxvnd relies on some of the hashtable functions in Xext, we only build hashtable support for Xext if we're also building the res extension. This leads to some errors if you try to build glx without res enabled:

glx/lib/libglxvnd.a(vndcmds.c.o): In function `LookupVendorPrivDispatch':
/home/lyudess/Projects/xserver/glx/vndcmds.c:65: undefined reference to `ht_find'
/home/lyudess/Projects/xserver/glx/vndcmds.c:67: undefined reference to `ht_add'

glx/lib/libglxvnd.a(vndcmds.c.o): In function `GlxDispatchInit':
/home/lyudess/Projects/xserver/glx/vndcmds.c:405: undefined reference to `ht_generic_compare'
/home/lyudess/Projects/xserver/glx/vndcmds.c:405: undefined reference to `ht_generic_hash'
/home/lyudess/Projects/xserver/glx/vndcmds.c:405: undefined reference to `ht_create'

glx/lib/libglxvnd.a(vndcmds.c.o): In function `GlxDispatchReset':
/home/lyudess/Projects/xserver/glx/vndcmds.c:468: undefined reference to `ht_destroy'
collect2: error: ld returned 1 exit status

So, make sure that hashtable.c gets built for both glx and res

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Lyude Paul <lyude@redhat.com>

commit 3b467f19e9c85f23e7593652e1482b11dc3ad4af
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Thu Apr 19 09:13:23 2018 +0200

xwayland: Clean up all frame callbacks

Regardless of the order we un-realize windows.

Suggested-by: Roman Gilg <subdiff@gmail.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Roman Gilg <subdiff@gmail.com>

commit 8b8f9007cc56fdcee5479876e88e06b78b6de35
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Apr 18 16:02:02 2018 +0200

xwayland: avoid using freed xwl_window on unrealize

xwl_unrealize_window() would use freed xwl_window which can lead to various memory corruption and crashes, as reported by valgrind:

Invalid read of size 8
at 0x42C802: xwl_present_cleanup (xwayland-present.c:84)
by 0x42BA67: xwl_unrealize_window (xwayland.c:601)
by 0x541E9: compUnrealizeWindow (compwindow.c:285)
by 0x57E1FA: UnrealizeTree (window.c:2816)
by 0x581189: UnmapWindow (window.c:2874)
by 0x54EB26: ProcUnmapWindow (dispatch.c:879)
by 0x554B7D: Dispatch (dispatch.c:479)
by 0x558BE5: dix_main (main.c:276)
by 0x7C4B1BA: (below main) (libc-start.c:308)
Address 0xf520f60 is 96 bytes inside a block of size 184 free'd
at 0x4C2EDAC: free (vg_replace_malloc.c:530)
by 0x42B9FB: xwl_unrealize_window (xwayland.c:624)
by 0x541E9: compUnrealizeWindow (compwindow.c:285)
by 0x57E1FA: UnrealizeTree (window.c:2816)
by 0x581189: UnmapWindow (window.c:2874)
by 0x54EB26: ProcUnmapWindow (dispatch.c:879)
by 0x554B7D: Dispatch (dispatch.c:479)
by 0x558BE5: dix_main (main.c:276)
by 0x7C4B1BA: (below main) (libc-start.c:308)
Block was alloc'd at
at 0x4C2FB06: calloc (vg_replace_malloc.c:711)
by 0x42B307: xwl_realize_window (xwayland.c:488)
by 0x541E59: compRealizeWindow (compwindow.c:268)
by 0x57DA40: RealizeTree (window.c:2617)
by 0x580B28: MapWindow (window.c:2694)
by 0x54EA2A: ProcMapWindow (dispatch.c:845)
by 0x554B7D: Dispatch (dispatch.c:479)
by 0x558BE5: dix_main (main.c:276)
by 0x7C4B1BA: (below main) (libc-start.c:308)

This is because UnrealizeTree() traverses the tree from top to bottom,
which invalidates the assumption that if the Window doesn't feature an
xwl_window on its own, it's the xwl_window of its first ancestor with
one.

This reverts commit 82df2ce3

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 12a6b189fb17894d2c3851b70a396bbf41f444c6
Author: David Woodhouse <dwmw2@infradead.org>
Date:   Tue Apr 17 22:22:21 2018 +0100

    glamor: fix glamor_xv_query_image_attributes() for odd-width images

    Images which are one pixel wider than a multiple of 8 are being handled
incorrectly. Other drivers round up the width to a multiple of two
before they start calculating. Do the same.

https://bugzilla.gnome.org/show_bug.cgi?id=795235

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: David Woodhouse <dwmw2@infradead.org>

commit ac7a4bf44c68c5f323375974b208d4530fb5b60f
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sun Apr 15 15:40:03 2018 +0100

os/WaitFor: Check timers on every iteration

Currently we only check timer expiry if there are no client fd (or
other input) waiting to be serviced. This makes it very easy to starve
the timers with long request queues, and so miss critical timestamps.

The timer subsystem is just another input waiting to be serviced, so
evaluate it on every loop like all the others, at the cost of calling
GetTimeInMillis() slightly more frequently. (A more invasive and likely
OS specific alternative would be to move the timer wheel to the local
equivalent of timerfd, and treat it as an input fd to the event loop
exactly equivalent to all the others, and so also serviced on every
pass. The trade-off being that the kernel timer wheel is likely more
efficiently integrated with epoll, but individual updates to each timer
would then require syscalls.)

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 78b6f940217c127f0f345b7710aa5994c6ded99c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 16 14:08:27 2018 -0400

modesetting: Fix inverted check in dri2 WaitMSC

ms_queue_vblank() returns false on failure.

Reported-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Frank Binns <frank.binns@imgtec.com>
Tested-by: Mike Lothian <mike@fireburn.co.uk>

commit 4e92c51ce4d6ab50c1507a23a01c6be0d1954d79
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Apr 16 08:14:47 2018 +0200

dri3: Fix dri3_buffers_from_pixmap request.
Sending pixmap depth and bpp was omitted, so the Mesa X11 + EGL + DRI3 side of things always failed to
dri3_create_image_khr_pixmap_from_buffers(), which led
to failure of X11 + EGL compositing under DRI3 under,
e.g., KDE Plasma 5.

Fixes: 6e7c40f62db6 ("dri3: Add multi-planar/modifier buffer requests")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Cc: Daniel Stone <daniels@collabora.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Mike Lothian <mike@fireburn.co.uk>

commit a98a95b798a0062783ae6fd2135ad488af5efcfd
Author: Matt Turner <mattst88@gmail.com>
Date:   Sun Apr 15 23:37:45 2018 -0700

    modesetting: Move GBM code inside #ifdef GLAMOR_HAS_GBM

Fixes a compilation error without Glamor.

Bugzilla: https://bugs.gentoo.org/653288
Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit c3ae963a7b19e05b8296aae8b6354587756d48fa
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Apr 16 09:39:09 2018 +0200

    xwayland: Fix build without glamor

Present support in Xwayland relies on glamor, make sure Xwayland can
be built without glamor by moving references to Present code inside
the conditional GLAMOR_HAS_GBM.

Reported-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Roman Gilg <subdiff@gmail.com>

commit bf147f67b2b7170fcc5cca07192f6b195dce85e5
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 12 17:24:08 2018 -0400

    xwayland: Don't crash on WarpPointer(dest_w = None)

Turns out that's legal, and xts exercises it, and we crash:
Thread 1 "Xwayland" received signal SIGSEGV, Segmentation fault.

dixGetPrivate (key=0x813660 <xwl_window_private_key>, privates=0x20) at ../../include/privates.h:122
122   return (char *) (*privates) + key->offset;
(gdb) bt
#0  dixGetPrivate (key=0x813660 <xwl_window_private_key>, privates=0x20) at ../../include/privates.h:122
#1  dixLookupPrivate (key=0x813660 <xwl_window_private_key>, privates=0x20) at
../../include/privates.h:166
#2  xwl_window_of_top (window=0x0) at xwayland.c:128
#3  xwl_cursor_warped_to (device=<optimized out>, screen=0x268b6e0, client=<optimized out>,
window=0x0, sprite=0x300bb30,
x=2400, y=1350) at xwayland.c:292
#4  0x000000000005622ec in ProcWarpPointer (client=0x32755d0) at events.c:3618

In this case, x/y are the screen-space coordinates where the pointer ends up, and we need to look up the (X) window there.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d7269b49c3408f93a6cb8e28ddc3dda88224620a
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Wed Apr 11 18:51:16 2018 +0100

configure.ac: make use of wayland-scanner.pc

Replace the current (incorrect) assumption that wayland-scanner is located in the wayland-client prefix. Make use of the wayland_scanner variable in wayland-scanner.pc

It was introduced back in 2013 and we already require newer wayland bits

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 0031bbad8400d3569964d18c0d8fc2e9e82d8a7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 11 15:39:33 2018 -0400

sdksyms: Skip empty symbols

Apparently on NetBSD we can hit failures like this:

sdksyms.c:1773:15: error: expected expression before ',' token
  (void *) &,
  /* ../../../dri3/dri3.h:110 */

I've been unable to reproduce that locally (even in a NetBSD vm), but an obvious workaround might be to just notice empty symbol names and
ignore them rather than emit invalid C code.

Tested-by: Thomas Klausner <wiz@netbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d61e516c847b9ff7e89e6be269050032070c1ad3
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Apr 10 15:45:02 2018 -0400

xserver 1.20 RC4

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a42992a4cca49cedd3930f5694c7a16e4f614b36
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Apr 2 16:41:24 2018 +0100

dri3: rework format/modifier caching

Cut down the unnecessary malloc/memcpy/free by utilising the explicit copy provided by the client.

But above all: do so, after ensuring we get valid data from the implementation.

Fixes: cef12efc15c ("glamor: Implement GetSupportedModifiers")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 71a069fd7fbeb815d386fc1b3c44cda732c7f7af0
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Apr 2 16:41:23 2018 +0100

glamor: zero num_formats from the start

The caller may ignore the return value (will be addressed with later commit) so simply zero the count from the get-go. We're pretty much do so, in all cases but one :-\`

Fixes: cef12efc15c ("glamor: Implement GetSupportedModifiers")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit ac48724639e0a6a9e421b3b4e545d8506fd6bf5d
The caller may ignore the return value (will be addressed with later commit) so simply zero the count from the get-go. We're pretty much do so, in all cases but one :-\}

Fixes: cef12efc15c ("glamor: Implement GetSupportedModifiers")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

Commit e2f45002fc3c53c6196935447b8fe77d0850175b
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Mon Apr 2 16:41:20 2018 +0100

dri3: check for ::get_drawable_modifiers failure

Currently if the function fails, we'll fall into two false assumptions:
- the the count is zero
- that the storage pointer is safe for free()

I've just fixed the former (in glamor + xwayland) and have no plans on adding yet another workaround for the latter.

Simply zero both variables. Regardless if the implementation is missing the callback or it foobars with output variables (normally a bad idea).

Bonus points - this fixes a bug where we feed garbage to free() further down ;-)
xwayland: zero num_modifiers from the start

The caller may ignore the return value (will be addressed with later
commit) so simply zero the count from the get-go. We're pretty much do
so, in all cases but one :-\`

Fixes: cef12efc15c (" glamor: Implement GetSupportedModifiers"")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit b36a14c0b0e7e38406622eb5f0666a8b8bc50f4
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Mon Apr 2 16:41:18 2018 +0100

dri3: simplify dri3_open() implementation

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 9a159f37e00ed47ec8cbff7c57d8787b8f5685f5
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Mon Apr 2 16:41:14 2018 +0100

dri3: annotate fds/strides/offsets arrays as const

It makes it perfectly clear that we should not be modifying them.
Should help highlight issues like the one fixed with previous commit.

Fixes: cef12efc15c (" glamor: Implement GetSupportedModifiers"")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
xwayland: don't close() fds we don't own

The glamor_pixmap_from_fds error path erroneously closes the fds. We don't own them, plus the caller closes them after the function in called.

Fixes: cef12efc15c ("glamor: Implement GetSupportedModifiers")
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Cc: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 66b632bb068672f507212b00bd313b5040bf1a39
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Mon Apr 2 16:41:12 2018 +0100

dri3: annotate the dri3_screen_info data as const

dri3_screen_info is the user provide dispatch. Something that we do not and should not change.

When using the _ptr typecast + const the compiler barfs at us (rightfully so), so use the _rec one.

[Silence a new const mismatch warning too - ajax]

Fixes: 56313829886 ("dri3: Add DRI3 extension")
Cc: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

dix: always send focus event on grab change

Focus events are useless when 'from' and 'to' are the same. But when this is the result of a (Un)GrabKeyboard request, we should always send them, including when the window manager had previously used XSetInputFocus to specify the focus on a window which happens to be now taking a grab.

This is notably needed for window manager using XI to always get keyboard
events even during grabs, so they can determine exactly when grabbing is active.

Signed-off-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 14be894b3f7976c133fc186e0e3c475606bab241
Author: Michal Srb <msrb@suse.com>
Date:   Tue Aug 1 10:29:03 2017 +0200

Xext: Fix memory leaks in hashtable.

Do not forget to delete key and value of every item and the hashtable itself.

commit 1326ee0bc5eb858c3c00847b3ba65134e4ca2e2d
Author: Michal Srb <msrb@suse.com>
Date:   Tue Feb 13 10:33:30 2018 +0100

glx: Do not call into Composite if it is disabled.

Otherwise X server crashes if GLX is enabled and Composite disabled. For example the compIsAlternateVisual function will try to lookup CompScreenPtr using the CompScreenPrivateKey, but that was never initialized if Composite is disabled.

Fixes: f84e59a4f4. ("glx: Duplicate relevant fbconfigs for compositing visuals")
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=104993
Signed-off-by: Michal Srb <msrb@suse.com>

commit b9764b8489cabd15b50c360cfbd799fdab0883fd
Author: Jon Turney <jon.turney@droncode.org.uk>
Date:   Tue Apr 3 16:54:00 2018 +0100

hw/xwin/glx: Allocate fbconfigs correctly

4b0a3cba fixed leaking of GLX fbconfigs, so now xwin needs to allocate them correctly (individually, rather than all at once), so they can be freed successfully.

Signed-off-by: Jon Turney <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e0a137ce5d653063604fa8d16c8498b8ac3ab3a7
Author: Kyle Brenneman <kbrenneman@nvidia.com>
Date:   Fri Apr 6 12:42:33 2018 -0600

GLX: Fix a use after free error with the GLVND vendor handle.
The GLVND layer will destroy all of the vendor handles at the end of each server generation, but the GLX module then tries to re-use the same (now-freed) handle in xorgGlxServerInit at the start of the next generation.

In xorgGlxCloseExtension, explicitly destroy the vendor handle and set it to NULL so that the next call to xorgGlxServerInit will recreate it.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 31c1489eeb8c5391cd978303989de167819f0041
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 6 12:28:56 2018 +1000

xfree86: drop KDSKBMUTE handling

This was never merged upstream. It was a Fedora kernel patch but dropped from Fedora in 2013 with kernel 3.12.

The reason for the KDSKBMUTE proposal has been fixed in systemd in Feb 2013, systemd 198.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 74aef564a7faea4410e92fa606216ab877b0d452
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 13:24:13 2018 -0400

xwayland: Silence a build warning if we can

[735/786] Generating 'hw/xwayland/Xwayland@exe/relative-pointer-unstable-v1-protocol.c'. Using "code" is deprecated - use private-code or public-code. See the help page for details.

Use private-code if wayland-scanner is new enough.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6f0903dde905f44272b85942323a467d82fef644
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 13:09:38 2018 -0400

dix: Hush an almost certainly bogus warning

./dix/getevents.c: In function 'transformAbsolute':
./dix/getevents.c:1195:28: warning: ‘oy’ may be used uninitialized in this function [-Wmaybe-uninitialized]
    struct pixman_f_vector p = {.v = {*x, *y, 1} };
This one is truly special. Even though both ox and oy are set and read along the same paths, only oy is marked for this warning! Initializing just oy = 0.0 fixes it entirely, but let's not make a weird thing weirder.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 57e872301f5e836be2efb8f952f9e9711650b447
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 13:07:09 2018 -0400

mi: Hush an almost certainly bogus warning

In file included from ../mi/miexpose.c:83:
../mi/miexpose.c: In function ‘miHandleExposures’:
../include/regionstr.h:174:22: warning: ‘expBox.y2’ may be used uninitialized in this function [-Wmaybe-uninitialized]
   (_pReg)->extents = *(_pBox);
   ~~~~~~~~~~~~~~~~~~^~~~~~~~~~
../mi/miexpose.c:139:12: note: ‘expBox.y2’ was declared here
   BoxRec expBox;
   ^~~~~~

etc. It’s initialized if (extents), and then only read if (extents), but gcc doesn’t seem to figure that out. Whatever, bzero it to be explicit.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 83913de25d35709b3ab7b0ab124b73924145d2dd
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 12:59:11 2018 -0400

xkb: Silence some compiler warnings

Of the form:

../xkb/XKBGAlloc.c: In function ‘SrvXkbAddGeomKeyAlias’:
   strncpy(alias->real, realStr, XkbKeyNameLength);
   ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
This is intentional; the code that reads from these fields never reads more than 4 bytes anyway. Rephrase things in terms of memcpy so that's clear. Obviously this is awful but in XKB awful is par.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit d13cd3862e9ccd35c91a06680d02f2fc8fd03420
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 12:48:26 2018 -0400

dmx: Silence a string truncation warning.

../hw/dmx/config/dmxparse.c: In function `dmxConfigCreateOption':
../hw/dmx/config/dmxparse.c:385:13: warning: `strncpy' output truncated before terminating nul copying as many bytes from a string as its length [-Wstringop-truncation]
  strncpy(option->string + offset, p->string, len);
                     ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
../hw/dmx/config/dmxparse.c:383:23: note: length computed here
    int len = strlen(p->string);
                     ^~~~~~~~~~~~~~

The thing it's warning about is intentional, the surrounding code does its own nul-termination. Make that obvious by using memcpy instead.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 176f26e96ab9958c84e98c88f31729d0240c420e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 12:45:51 2018 -0400

dmx: Clean up some argument parsing code

This threw:

../hw/dmx/input/dmxarg.c: In function `dmxArgParse':
../hw/dmx/input/dmxarg.c:128:5: warning: `strncpy' specified bound depends on the length of the source argument [-Wstringop-overflow=]
  strncpy(tmp, string, len);
                     ^~~~~~~~~~~~~~~~~~~
../hw/dmx/input/dmxarg.c:126:11: note: length computed here
    len = strlen(string) + 2;
                     ^~~~~~~~~~~~~~~

This code predates xstrtokenize, but that's no excuse.
Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit be99072a1a20af44d2457b8c86bd9041f61ef179
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 12:35:59 2018 -0400

dmx: Fix a read-from-uninitialized warning

..hw/dmx/dmixmap.c: In function ‘dmxBitmapToRegion’:
..include/regionstr.h:174:22: warning: ‘Box.x1’ may be used uninitialized in this function [-Wmaybe-uninitialized]
  (_pReg)->extents = *(_pBox);
  ~~~~~~~~~~~~~~~~~~^~~~~~~~~~
..hw/dmx/dmixmap.c:208:12: note: ‘Box.x1’ was declared here
  BoxRec Box;
  ~~~

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit c3b190fd3a3a8cd6f98c127220683dd20aed0f9b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 5 12:31:04 2018 -0400

dmx: Fix some snprintf warnings.

snprintf doesn't terminate the string if it truncates, so things like
this are lurking crashers:

..hw/dmx/dmxpath.c: In function ‘dmxPropertyIdentifier.part.0’:
..hw/dmx/dmxpath.c:94:36: warning: ‘%s’ directive output may be truncated writing up to 255 bytes into a region
of size 123 [-Wformat-truncation=]
  snprintf(buf, sizeof(buf), "%s:%s:%s", DMX_IDENT, hostname, display);
  ~~~~~~~
..hw/dmx/dmxpath.c:94:5: note: ‘snprintf’ output 7 or more bytes (assuming 262) into a destination of size 128
  snprintf(buf, sizeof(buf), "%s:%s:%s", DMX_IDENT, hostname, display);
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

..hw/dmx/dmxpath.c: In function ‘dmxPropertyWindow’:
..hw/dmx/dmxpath.c:372:36: warning: ‘%d’ directive output may be truncated writing between 1 and 11 bytes
into a region of size between 0 and 127 [-Wformat-truncation=]
  snprintf(buf, sizeof(buf), "%s,%d", id, dmxScreen->index);
  ~
..hw/dmx/dmxpath.c:372:5: note: ‘snprintf’ output between 3 and 140 bytes into a destination of size 128
  snprintf(buf, sizeof(buf), "%s,%d", id, dmxScreen->index);
  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

We could be more precise about termination, but meh.
Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 4c1453393feaed688571ed1ba16c21703119ced
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 5 12:21:53 2018 -0400

gtf: Warning fix

./hw/xfree86/utils/gtf/gtf.c: In function ‘print_fb_mode’:
./hw/xfree86/utils/gtf/gtf.c:241:50: warning: cast from function call of type ‘double’ to non-matching type ‘int’ [-Wbad-function-cast]
    printf("    timings %d %d %d %d %d %d %d\n", (int) rint(1000000.0 / m->pclk), /* pixclock in picoseconds */

    That's pretty nitpicky of you, gcc, but at least it's easy to fix.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 99f9b077c62e14ba955b9c1f7afa47f7799d317
Author: Daniel Stone <daniels@collabora.com>
Date: Thu Apr 5 16:47:39 2018 +0100

modesetting: Actually get framebuffer ID

We would fail to get the FB ID if it wasn't already imported, since we
were checking to see if the pointer was NULL (it never was) rather than
if the content of the pointer was 0.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reported-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit 8ff1cdb2bf72a37e75004f562737dd0af6daf14
Author: Daniel Stone <daniels@collabora.com>
Date: Thu Apr 5 15:00:38 2018 +0100

dri3: Set stride and size for old clients

For old clients using the fd_from_pixmap entrypoint, make sure we set
stride and size correctly.

Noticed by inspection.

Signed-off-by: Daniel Stone <daniels@collabora.com>
open-source used in field network director for virtual machine installation 4.7.1 33008

commit 78574a66b5b286e26839877640592980de089d64
Author: Daniel Stone <daniels@collabora.com>
Date:   Thu Apr 5 14:58:40 2018 +0100

    modesetting: Don't reuse iterator in nested loop

drmmode_crtc_set_mode has a loop nested inside another loop, where both
of them were using 'i' as the loop iterator. Rename it to avoid an
infinite loop.

    Signed-off-by: Daniel Stone <daniels@collabora.com>
    Reported-by: Michel Dänzer <michel.daenzer@amd.com>
    Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ce2a4313dd31084f7766af59b8477cabe029bf44
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Wed Apr 4 03:49:02 2018 +0200

    modesetting: Fix page flipping harder under DRI 3.2.

    Non-atomic kms drivers like radeon-kms (or nouveau-kms with
default setting of "atomic ioctl disabled") don't export
any formats, so num_formats == 0.

    Some atomic drivers (nouveau-kms with boot param nouveau.atomic=1,
or intel-kms on, e.g., Linux 4.13) expose num_formats == 0, or
don't expose any modifiers, so num_modifiers == 0.

    Let the drmmode_is_format_supported() check pass in these cases
to allow page flipping, as it works just fine.

    Tested on NV-96 for nouveau, HD-5770 for radeon, Intel Ivybridge
with Linux 4.13 and drm-next to fix page flipping.

    Fixes: 9d147305b404 ("modesetting: Check if buffer format is supported when flipping")
    Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
    Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 44e7098367b87c79470d6760753e42014be7ca01
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Apr 4 00:01:15 2018 -0400

    modesetting: Have consistent state when using atomic modesetting

    We need to make sure that the atomic commit are consistent
or else the kernel will reject it. For example, when moving
a CRTC from one output to another one, the first output CRTC_ID property needs to be reset. Also if the second output was using another CRTC beforehand, it needs to be disabled to avoid an inconsistent state.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit bc4d278132956ec3c43695f1bd34083ef5fe7f22
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date: Wed Apr 4 00:01:14 2018 -0400

modesetting: Use atomic modesetting to set DPMS mode

CRTCs and outputs needs to be enabled/disabled when the current DPMS mode is changed. We also try to do it in an atomic commit when possible.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 23c67987a337beb91292f8e318d566941453baa3
Author: Daniel Stone <daniels@collabora.com>
Date: Wed Apr 4 16:16:38 2018 +0100

glamor: Add fd_from_pixmap hook

Add a fd_from_pixmap (singular) hook to go with fds_from_pixmap, which will ensure that the pixmap is allocated without modifiers and is thus exportable to non-modifier-aware clients.

This makes it possible to run a compositing manager on an old GLX/EGL stack on top of an X server which allocates internal buffer storage using exotic modifiers from modifier-aware GBM/EGL/KMS.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reported-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9c407f0a1b40128fc65b19b6a499f1d4dae6f702
Author: Daniel Stone <daniels@collabora.com>
Date: Wed Apr 4 16:16:37 2018 +0100

glamor: Fall back to non-modifier allocations

If we try to allocate with particular modifiers but it fails, try to
Reallocate pixmap storage without modifiers if necessary

If we need a pixmap's storage to be exported to a context in which we aren't aware of modifiers, reallocate the buffer again without modifiers.

This makes it possible to run a compositing manager on an old GLX/EGL stack on top of an X server which allocates internal buffer storage using exotic modifiers from modifier-aware GBM/EGL/KMS.

Push make_exportable into callers

Rather than calling make_exportable from the get_bo entrypoint, make sure that someone has already explicitly requested the pixmap be exportable.

This is technically an ABI break in that it changes observable behaviour, but no driver other than modesetting has ever used get_bo.

Track if BO allocation used modifiers

Keep track of whether or not we fed modifiers into GBM when we allocated
a BO. We'll use this later inside Glamor, to reallocate buffer storage if we allocate buffer storage using modifiers, and a non-modifier-aware client requests an export of that pixmap.

This makes it possible to run a compositing manager on an old GLX/EGL stack on top of an X server which allocates internal buffer storage using exotic modifiers from modifier-aware GBM/EGL/KMS.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reported-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0e9504e10c4363e24a83f1a82e6a4b9f5fd8f846
Author: Daniel Stone <daniels@collabora.com>
Date:   Wed Apr 4 16:16:33 2018 +0100
drmmode: Track if BO allocation used modifiers

Keep track of whether or not we fed modifiers into GBM when we allocated a BO. We'll use this later inside Glamor, to reallocate buffer storage if we allocate buffer storage using modifiers, and a non-modifier-aware client requests an export of that pixmap.

This makes it possible to run a compositing manager on an old GLX/EGL stack on top of an X server which allocates internal buffer storage using exotic modifiers from modifier-aware GBM/EGL/KMS.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reported-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 75bba3aedcb04132a4fe2806680cd38a8f2bd206
Author: Daniel Stone <daniels@collabora.com>
Date:   Wed Apr 4 16:16:32 2018 +0100
dri3: Use single-FD screen call for single-FD request

When importing client buffers into Pixmaps, we can use the fds_to_pixmap hook for both single-FD and multi-FD client requests without any harm.

For the other direction of exporting Pixmap buffers to client FDs, create a new helper which calls the old pixmap_to_fd hook if available. This allows the implementation to ensure that the Pixmap storage is accessible to clients not aware of multiple planes or modifiers, e.g. by reallocating and copying.

This makes it possible to run a compositing manager on an old GLX/EGL stack on top of an X server which allocates internal buffer storage
using exotic modifiers from modifier-aware GBM/EGL/KMS.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reported-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 574069c2912893a9b9fd3d701eb3ad4784e31553
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Apr 2 15:04:08 2018 -0700

gxserver: Restore newline before "X Protocol Version" string

The newline before the protocol version got lost in commit 6cbefc3e0a33b380c147c533914437c7798d9b93. Prior to that commit, the release date printed a newline at the end:

X.Org X Server 1.19.6
Release Date: 2017-12-20
X Protocol Version 11, Revision 0
Build Operating System: Linux 4.14.12-1-ARCH x86_64

Now, that string gets run together with the version:

X.Org X Server 1.19.99.903 (1.20.0 RC 3)X Protocol Version 11, Revision 0
Build Operating System: Linux

Since the version string printing has a variety of #ifdefs in it, just add the newline to the begining of the protocol version string.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit df6cbf7a2b3b45be6910afb34459d30ca7783c16
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 2 15:44:50 2018 -0400

xserver 1.20 RC3

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f580116f3c89b3c086655ceb441f84e50115ea78
Author: Louis-Francis Ratté-Boulianne <lfrfb@collabora.com>
Date:   Thu Mar 29 01:07:26 2018 -0400

modesetting: Fix reported size when using atomic modesetting

The framebuffer can include multiple CRTC in multi-monitors
setup. So we shouldn’t use the buffer size but the CRTC size instead. Rotated displays are shadowed, so we don’t need to worry about it there.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit ce7d5087cfe1d2df756d93b7f567b3c0b0a7f6a8
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Thu Mar 29 01:07:25 2018 -0400

modesetting: Ignore alpha channel when importing BOs for modesetting

Fixes a regression caused by modifiers support. For some hw to continue working even if not supporting ARGB8888 and ARGB2101010 formats, we assume that all imported BOs are opaque.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 85b3fc18606e56d01734defb0e9fa04182f9fc1c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Mar 29 09:42:08 2018 +0200

modesetting: Use actual crtc position for pageflip

Otherwise the same content is shown on all outputs.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit a10f1c9e9e08b982029186028b144d9243a2ebdde3
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Apr 2 18:51:21 2018 +0100

docs: remove resource management references

The code referenced was removed back in 2009.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 32c07e6b83fdb5b0ed99fc6b1eaa18064f6c3527
Author: Emil Velikov <emil.velikov@collabora.com>
docs: purge some ISA references

The respective ISA functions were dropped back in 2008

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 80d4098411ad96b662e830db06e59a7ab7f5c9d3
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Mar 29 13:07:56 2018 +0200

meson: Add pixman-1 to required modules in xorg-server.pc

pixman headers will be included for builds of external modules against the xorg-server SDK. Make sure pixman is listed as a required module so that the correct CFLAGS will be added.

Note that the xorg-server.pc generated by the autotools-based build has many more modules listed, but this seems to be enough to build at least some of the external drivers against an X server built with Meson (I've tested with xf86-input-libinput, xf86-video-nouveau and xf86-video-ati).

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>

commit 88c7b8bf4bae080ecb879fe7e3f8be2bede6f0a6
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Mar 29 13:07:55 2018 +0200

meson: Distribute more SDK headers

Install missing headers to the SDK directory to allow external modules to properly build against the SDK. After this commit, the list of files installed in the SDK include directory is the same as the list of files installed by the autotools-based build.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>

commit f3b0a2ae21f12f3332bf598d3ba0fcbd2832f95
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Mar 29 13:07:54 2018 +0200

meson: Remove usage of pkg-config --variable=includedir

Querying a pkg-config variable using the --variable option produces the
value of the given variable as stored in the pkg-config file and should not be used to add directories to the include search path.

The reason for this is that it breaks cross-compilation, because header files are installed relative to the host sysroot. pkg-config supports a PKG_CONFIG_SYSROOT_DIR environment variable that points to this sysroot and will prepend that to the path of directories in -I or -L options in pkg-config’s Cflags, Libs or Libs.private keywords. However, because no context can be inferred from variable names, as opposed to the keywords with fixed meaning, the sysroot path will not be prepended to them. The build system is responsible for doing so if necessary since it is aware of the context in which the variable is used.

Adding the include directory returned by pkg-config to the include path leaks build system information into the cross-build and break with very confusing errors such as this:

```
In file included from include/misc.h:82:0,
  from dix/atom.c:55:
/usr/include/pthread.h:682:6: warning: '__regparm__' attribute directive ignored [-Wattributes]
  __cleanup_fct_attribute;
  ^~~~~~~~~~~~~~~~~~~~~~~
```

or this:

```
In file included from include/misc.h:139:0,
  from dix/atom.c:55:
/usr/include/stdlib.h:133:8: error: '_Float128' is not supported on this target
 extern _Float128 strtof128 (const char *__restrict __nptr,
  ^~~~~~~
```

Fix this by replacing the include directory with the appropriate xproto dependency required to add the correct include directory to the compile command for subdirectories that are missing the dependency. As detailed above, this gives pkg-config the opportunity to prepend the sysroot for all paths in -I compiler options.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>

commit 1c002bc43472063cf8599abb0d6d7367e30456e2
Author: Tobias Klausmann <tobias.johannes.klausmann@mni.thm.de>
Date:   Fri Mar 30 22:32:13 2018 +0200

modesetting/drmmode: add NULL pointer check in drmmode_output_dpms

drmmode_output_dpms is called especially with !output->crtc found in xf86DisableUnusedFunctions so we have to guard for it, else the server
segfaults:

0 0x00007fd81c702f4b in drm_mode_output_dpsms (output=0x55e15243c210, mode=3) at drm_mode_output.c:2243
1 0x000055e1500be6873 in xfs6DisableUnusedFunctions (pScrn=0x55e152133f00) at xfs6Crtc.c:3021
2 0x000055e1500be940 in xfs6RandR12CrtcSet (pScreen=<optimized out>, randr_crtc=0x55e1524b2b90, randr_mode=0x0, x=0, y=0, rotation=<optimized out>, num_randr_outputs=0, randr_outputs=0x0) at xfs6RandR12.c:1244
3 0x000055e1500fa1c2 in RRCrtcSet (crtc=<optimized out>, mode=0x0, x=0, y=0, rotation=rotation@entry=1, numOutputs=numOutputs@entry=0, outputs=0x0) at rrcrtc.c:763
4 0x000055e1500fb9e9e in ProcRRSetCrtcConfig (client=0x55e152bfae50) at rrcrtc.c:1390
5 0x000055e150044008 in Dispatch () at dispatch.c:478
6 0x000055e1500e0f8 in dix_main (argc=13, argv=0x7ffc68561038, envp=<optimized out>) at main.c:276
7 0x00007fd81c7a06a87 in __libc_start_main () at /lib64/libc.so.6
8 0x000055e150031d0a in _start () at ../sysdeps/x86_64/start.S:120

Fixes: ba0c75177 ("modesetting: Fix up some XXX from removing GLAMOR_HAS_DRM_*")
Signed-off-by: Tobias Klausmann <tobias.johannes.klausmann@mni.thm.de>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 258081759fa70202a2e6134e1ee4fe25ca54bedb
Author: Tobias Klausmann <tobias.johannes.klausmann@mni.thm.de>
Date:   Fri Mar 30 22:31:46 2018 +0200

glamor: sanitize handling of "Debug" Option for "dmabuf_capable"

With the appearance of the this new Option the X Server would crash if the option is not set.

Default dmabuf_capable to off/FALSE for now - a user without knowledge about this option does not want to enable it until its save.

Fixes: d11d5bb80 ("glamor: Hide new DRI behind Option "Debug" "dmabuf_capable")
Signed-off-by: Tobias Klausmann <tobias.johannes.klausmann@mni.thm.de>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit debf75bd0b0ddfec82dad9580eafa7d19479b55df
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 28 15:47:33 2018 -0400

xserver 1.20 RC2

Signed-off-by: Adam Jackson <ajax@redhat.com>
autotools: Derive xkb configuration from xkbcomp.pc

... if available, falling back to the current heuristics otherwise. This
finally_ gets me to being able to run util/modular/release.sh without
overriding $prefix.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d11d5bb80d21f2aa54dddf2f26a50aa6ef31d2fa
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 28 12:46:01 2018 -0400

glamor: Hide new DRI behind Option "Debug" "dmabuf_capable"

... for xfree86, at least for now. Things appear to work for Xwayland
but not yet for modesetting. Hopefully we can fix that before 1.20 but
in the meantime this makes testing both paths easier than a rebuild.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit df13ea7da9174d2e1c732985d9b7a9a35a6916bc
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 28 12:46:00 2018 -0400

xfree86: Add Option "Debug" to ServerFlags

This provides a generic way to control obscure runtime behavior knobs
without making interface promises.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c95361465ee98dd97a99778d8a31be88fe9e4c4f
Author: Antoine Martin <antoine@nagafix.co.uk>
Date:   Wed Mar 28 15:16:02 2018 -0400

os: Fix -logfile when used with -displayfd

Trivial way to reproduce the bug:

$ Xorg -logfile /tmp/mylog -config /etc/xpra/xorg.conf -displayfd 2

The server then moans:

Failed to rename log file "/tmp/mylog" to "/tmp/mylog": No such file or directory
And the log file is created but immediately renamed to "/tmp/mylog.old".
This is caused by the changes to the log file handling introduced by
this commit:

https://cgit.freedesktop.org/xorg/xserver/commit/?id=edcb6426f20c3be5dd5f50b76a686754aef2f64e

To fix this, only rename the logfile if the log filename contains the
magic substitution string "%s".

Signed-off-by: Antoine Martin <antoine@nagafix.co.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit b355e55f500c18d55d0ac241e5f7e826ed62f555
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Mar 28 12:17:48 2018 +0200

automake: Fix 'make dist'

Automake would skip a few meson files that would prevent to build with
meson a dist file previously generated by automake.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Thierry Reding <treding@nvidia.com>

commit 16639ab77d14cecb7d03fd2d5c796c2fb1714c18
Author: Kyle Brenneman <kbrenneman@nvidia.com>
Date:   Fri Mar 2 17:58:07 2018 -0700

Don't delete GLX's extensionInitCallback list during a reset.

When a callback list is initialized using CreateCallbackList via AddCallback,
the list gets added to the listsToCleanup array, and as a result the list gets
deleted at the end of the server generation.

But, vendor libraries add themselves to that callback list only once, not once
per generation, so if you delete the list, then no vendor will register itself
on the next generation, and GLX breaks.

Instead, use a static CallbackListRec for the extensionInitCallback list. That
way, it doesn't get added to listsToCleanup, and doesn't get deleted during a
reset.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7004a7c3c983b4453756b92341bf22790b1eb98d
Author: Daniel Stone <daniels@collabora.com>
Date:   Fri Mar 23 13:50:23 2018 +0000
modesetting/drmmode: Remove unused flink call

We don't use flink in the GetFB import path anymore, as we do an FD-based import instead.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit be087778a0eae3093ffdbba3ff7c9f3863d8e1d4
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:57 2018 +0100

xwayland: Activate Present flips in rootless mode with Glamor

Link the newly introduced support for Present flips. For now flips can only be used in rootless mode together with Glamor.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 07750ff3c084c6549a5612d1f935a9a3ab3df67c
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:55 2018 +0100

xwayland: Implement queuing present vblanks

Queue present events to msc values. Fake msc events with a refresh rate of about 60fps when flips are not possible. When flips are executed rely on frame callbacks with a slow updating timer as fallback.

This is important for applications, that want to limit their framerate.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 86df366973de1c10da5fbd5c57d1ff12b681c321f
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:54 2018 +0100

xwayland: Add fallback timer for msc counting

When the compositor is not sending frame callbacks while we still wait on buffer release events fake a continuous msc counter with a timer.

Having this timer is a prerequisite for queuing events.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
xwayland: Preliminary support for Present's new window flip mode

Introduce support for Present's window flip mode. The support is not yet complete, but works reasonable well for the most important use case, that is fullscreen applications.

We take a Present flip and if the xwl_window->window has the same dimensions as the presenting window, the flip is represented by a wl_buffer and attached to the main wl_surface of the xwl_window.

After commit we are listening for the sync callback in order to tell Present, that the pixmap flip is not longer pending, for the frame callback in order to update the msc counter and for the buffer release callback in order to tell Present that the pixmap is idle again.

The following functionality is missing from this patch:
* (slowed down) flips in case the compositor is not sending frame callbacks,
* queuing events to MSC times,
* per window flips for child windows with smaller size than the xwl_window.

To make use of this functionality Xwayland must run rootless and with Glamor/GBM.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xwayland: Add arguments to glamor_pixmap_get_wl_buffer

Add arguments to give the caller more information and control over the creation of a wl_buffer with GBM, in particular let the caller determine the size of the buffer.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
present: Add exported init function of window flip mode

Allow drivers now to initialize window flip mode.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a337949f99bc473ea0ae0af64736ea33d5b39399
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:50 2018 +0100

present: Add cleanups for window flip mode

Make sure that vblanks and windows get cleaned up correctly
in window flip mode.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 66a5c0bcb222ad8b9b57b10490c3041e1b3f05e
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:49 2018 +0100

present: In window flip mode report damage on flip to driver

Calculate damage before trying to flip and report it to the driver.
This allows drivers to optimize their rendering.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 029608dd80204ae96423ef79ec46c1a18b3ddd5ff
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:48 2018 +0100

present: Add window flip mode

In contrast to screen flip mode this mode:
* supports flips per windows (these windows currently need to have the same
  size as their parent windows with the same pixmap),
* sends pixmap idle signals to the client only after the driver has given
  an additional event notify.

This patch only introduces the new mode as a stub. It additionally needs a
driver hook, such that it can get initialized and appropriate cleanup
functions.
Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8d370fcdcaed210d9f4af1c1650aa8b161c7fbb44
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:47 2018 +0100

present: Add driver facing window flip mode hooks

To enable special functionality of window flips introduce for window flips
a separate set of driver facing function hooks.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7b071b4e440313254398f06eb59b1596a6d3e8fe
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:46 2018 +0100

present: Adapt flip mode API hooks for window flip mode

Flipping pixmaps per window needs additional arguments in the
flip mode API. Add these as preparation for window flip mode.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 92b91b8cf34a38de39281044d8441b6cabe87a85
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:45 2018 +0100

present: Add flip_idler vblank property

Introduce vblank property for flip modes, that demand explicit
allowance by the driver for vblanks to become idle.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 84e47f3fe68f05f7b0b762e96ac4d95fa8000ca
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:44 2018 +0100

present: Add present_window_priv properties for window flip mode

For window flip mode data about flips needs to be stored per window.
Add properties to 'present_window_priv' and initialize them on creation.
present: Refactor present_screen_init

To initialize easily different flip modes, refactor 'present_screen_init'.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3aaaac0be573fb09a206966075d81ebe0510ca23
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:43 2018 +0100

present: Add more hooks to internal flip mode API

Add hooks to query caps, get crtc, abort vblanks and destroy a flip.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6d813bbd5ea0fc38a8114c08368a7954eeb2ef37
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:42 2018 +0100

present: Move timings adjustment in common part of flip mode API

To reduce future code duplication refactor timings adjustment out as a separate function.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 84112a1d0b221c00d7d3c23fd5b97687e6e3749a
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:40 2018 +0100

present: Add flip mode API hook for present_can_window_flip

Flip modes can now have different implementations of present_can_window_flip.
Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1db7cf0429eabf33f8e2b55a15db4d1f87e1fb95
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:39 2018 +0100

present: Add flip mode API hook for present_pixmap

Make present_pixmap a common function callable by any
flip mode.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 679ffbf5f39822ea508e50f1b7c92a2a9e79f7bb
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:38 2018 +0100

present: Refactor execute in separate file

To be shared by multiple flip modes, refactor execute functionality,
such that logical chunks can go in new separate file.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1e7d8902bfe7cfe79c41b14fc6b50bcb4f7c800
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:37 2018 +0100

present: Add flip mode API hooks for several functions

Add 'queue_vblank', 'flush' and 're_execute' hooks, that
are supposed to be shared with other flip modes.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5365ece70a75a05df3d6351767d19c3edcf0305d
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:36 2018 +0100

present: Move vblank functionality in separate file

With the new internal flip mode API move vblank creation
and so on into a separate file, such that it can be shared
between flip modes.
Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c5c50c6db1e71e9765967502777b1a618704c04aa
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:35 2018 +0100

present: Preliminary internal flip mode API

Add some basic function hooks to our future present-internal flip mode API, that will allow us to share functionality in between modes and move more code in separate files.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit dda7efec36b495e100e670e057d7ef5022ef3976
Author: Roman Gilg <subdiff@gmail.com>
Date:   Tue Mar 13 16:00:34 2018 +0100

present: Move screen flip functionality in separate file

As a preperation for future flip mode alternatives move most of the functionality from 'present.c' into a separate file.

Leave some functions needed by future other flip modes in 'present.c'.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4303deae78c4e2a60856be87bf87cd1643c268f5
Author: Thierry Reding <treding@nvidia.com>
Date:   Wed Mar 28 14:04:38 2018 +0200

meson: Properly extract ABI versions for xorg-server.pc

The newline in the middle of the awk expression confuses Meson and causes it to pass only the string before the newline to awk, which will subsequently fail because it encounters an unterminated string.

One fix would be to escape the newlines ('\n'), but that causes the newline to end up in the pkg-config file and separate the ABI version lines by blank lines.

Instead, simply drop the newlines to make the generated pkg-config file look more like the one generated as part of the autotools-based build.
meson: Fix generation of xorg-server.pc

Meson stores relative paths for includedir, libdir and friends. These have to be concatenated with the ${prefix} or ${exec_prefix} variables to create a working pkg-config file.

While at it, set a default value for the module_dir option so that it points to the same location as used in the autotools-based build.

meson: Fill in missing data for xorg-server.h

Provide more values for the definitions in xorg-server.h for Meson builds. The only missing defines left after this are _BSD_SOURCE, _POSIX_SOURCE and _XOPEN_SOURCE, but Meson seems to already define these via the command-line if necessary.

meson: Generate xorg-server.h

Some drivers (such as xf86-input-libinput) require the xorg-server.h to build. Generate it and install it so that it can be used by users.
dix: Remove unused definitions from dix-config.h.in

There is no code around that will ever define values for the WORKING_UNALIGNED_INT or XORG_RELEASE symbols, so they will always end up commented out and are therefore completely useless.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c62a8b60b9a07092ebeb9aeb67a0c39e583aabe
Author: Thierry Reding <treding@nvidia.com>
Date:   Wed Mar 28 14:04:33 2018 +0200

xorg: Remove unused definitions from xorg-server.h.in

There is no code around that will ever define values for the XLOADABLE, WORKING_UNALIGNED_INT or XORG_RELEASE symbols, so they will always end up commented out and are therefore completely useless.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 66402fcd8280b393d3992121c0bceff9c646c97ed
Author: Thierry Reding <treding@nvidia.com>
Date:   Wed Mar 28 14:04:32 2018 +0200

meson: Fix build if Xdmcp is missing

Xdmcp is an optional dependency, so make sure the build succeeds if it is missing.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0a7dabc86c1a7b8d91a5d22ad12bf03d859f43e
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 14:57:07 2018 -0400

meson: Add option to set default font path (v2)

The autotools build gets this from some macros in fontutil, but they're just wrappers around pkgconfig.

v2: Use same default as autotools (Keith Packard)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit a26195d5c1eba86ada8f43e775c4190683e0f874
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 27 12:58:15 2018 -0400

   Revert "suid touchup"

   Pushed the wrong thing, sigh.

   This reverts commit 73a0562615aa1adfb934b953e23b1e69b126db4f.

commit 73a0562615aa1adfb934b953e23b1e69b126db4f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 27 12:06:38 2018 -0400

   suid touchup

commit 64b3227374f7f161e610df735f376fccc5bb0fd58
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 27 10:47:05 2018 -0400

   autotools: Fix excessive \-escaping that broke the build

   Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d3e8af99de1139fac3307bcb0046500b3feff11
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:43:02 2018 -0400

   meson: Fix install path for 10-quirks.conf

   Signed-off-by: Adam Jackson <ajax@redhat.com>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit 84507507ea03db2f6197b94e160bbee9768c4bba
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:43:01 2018 -0400

   meson: Install xorg-server.m4

   Signed-off-by: Adam Jackson <ajax@redhat.com>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8c684f59d517db0812fbad5fc6bcd90c7c810493
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:43:00 2018 -0400

   meson: Generate xorg-server.pc
Otherwise external drivers can't build against us.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 9b67303a52f5380bc96862624778b101f6379527
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:42:59 2018 -0400

meson: Install the dmx utilities

And add the forgotten dmxrminput to the list.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f9ef293cf612e50830ff316d67066ea544905dc9
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:42:58 2018 -0400

meson: Build cvt and gtf

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a1e8de05163956de9ab73e567f86b91eb8790c0f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:42:57 2018 -0400

meson: Install man pages

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 1e0df64738d6924151adbdbd4b040df80178cfa6b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:42:55 2018 -0400

meson: Build Xorg suid wrapper

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ab063cf96779e521618ce022d4f669ff69e3d9cc8f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 26 18:42:54 2018 -0400
meson: Fix installing protocol.txt

One fix the constructed path, two actually install it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e3baacacda29afe524b3e4cab78ca057241c0551
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 26 18:42:53 2018 -0400

meson: Add libdrm to hw/xfree86/common's dependencies

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 2e497bf887aca832de0dd30d071c5288ab5e1e15
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 26 18:42:52 2018 -0400

man: s/\@/@/g

A cosmetic change for automake (though we have to replicate some of
xorg-macros.m4 in manpages.am now), but meson's configure_file() wants
@-delimited strings.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6cbefc3e0a33b380c147c533914437c7798d9b93
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 26 18:42:51 2018 -0400

autotools: Stop caring about XORG_DATE

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit ba0c75177239ced7037d74cf61590377f6d075bb
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Mar 22 14:47:21 2018 -0400

modesetting: Fix up some XXX from removing GLAMOR_HAS_DRM_*

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit 757e0ee1884f2a34a287d632462e3bc689ecb3d
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Mar 12 17:57:50 2018 +0100

modesetting: Fix page flipping under DRI 3.2.

The check for "no modifier specified" in drmmode_is_format_supported() should check for DRM_FORMAT_MOD_INVALID, not for zero, as zero actually means DRM_FORMAT_MOD_LINEAR.

This allows page-flipping again when appropriate, as tested under nouveau and ati drivers.

Fixes: 9d147305b404 ("modesetting: Check if buffer format is supported when flipping")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 136b45e0c0f5b96b5ce014681d77756dc47f0768
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 16 18:03:18 2018 -0400

travis: Drop Xcode 8.2

Travis has only so many OSX builders, presumably due to the EULA requiring that it be run on Apple-branded hardware. They're also really slow to provision, presumably because they're virtual machines and not containers. In any case it's not something I'm willing to be punished for.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 243a34e170c4a7cc5d38b78f7409704adf703e9b
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 16 18:28:19 2018 -0400

travis: Bump rawhide image

The image now has enough mojo to run xts, hooray!

Note there's a couple of ugly bits in here. The piglit config fragment and stock tetexec.cfg reflect missing features from the test suites (using an installed copy of xts, figuring out the xserver test matrix at runtime, etc.), I'll be happy to remove them once the tests are fixed.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 610055809f4030bd0e7312c6b0c561fde6e0183
Author: Eric Engstrom <eric.engstrom@imgtec.com>
Date:   Tue Mar 13 10:55:22 2018 +0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33032

exa: promise not to touch the data when swapping pointers

exa/exa.c:525:10: warning: initialization discards ‘const’ qualifier from pointer target type [-Wdiscarded-qualifiers]
    swap(pExaGC, pGC, funcs);
   ^

Signed-off-by: Eric Engestrom <eric.engestrom@imgtec.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit d36128a72acac4d54813c52c93efefad2dc9af41
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Mon Mar 12 15:12:10 2018 +0300

Xext/shm: Downgrade from error to debug log output about success

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 319af6f471912160ab3eb6395ef50f9950063d43
Author: Nicolai Hähnle <nicolai.haehnle@amd.com>
Date:   Tue Mar 13 17:46:37 2018 -0400

glx: honor LIBGL_DRIVERS_PATH when loading DRI drivers

Allow switching to another driver build without a full installation.

Glamor already takes LIBGL_DRIVERS_PATH into account, so this change makes sure that the same driver is used in both parts of the server.

Signed-off-by: Nicolai Hähnle <nicolai.haehnle@amd.com>
Reviewed-by: Ben Crocker <bcrocker@redhat.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>
Tested-by: Ben Crocker <bcrocker@redhat.com>

commit 75a869a4e7c06072380931b714ac83b1037d3bbe
Author: Nicolai Hähnle <nicolai.haehnle@amd.com>
Date:   Tue Mar 13 17:46:36 2018 -0400

xfree86: replace all uses of xf86PrivsElevated with PrivsElevated

[... but leave it defined and exported, since we're ABI-frozen - ajax]

Signed-off-by: Nicolai Hähnle <nicolai.haehnle@amd.com>
Reviewed-by: Ben Crocker <bcrocker@redhat.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>
Tested-by: Ben Crocker <bcrocker@redhat.com>
restore abi

commit 1b6910af12cfeffc293be2f4144986fe3b56a36b
Author: Nicolai Hähnle <nicolai.haehnle@amd.com>
Date:   Tue Mar 13 17:46:35 2018 -0400

    os: use PrivsElevated instead of a manual check

Signed-off-by: Nicolai Hähnle <nicolai.haehnle@amd.com>
Reviewed-by: Ben Crocker <bcrocker@redhat.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>
Tested-by: Ben Crocker <bcrocker@redhat.com>

commit 9ef602de46de2beae1d6231dc72a1a783a26122f
Author: Nicolai Hähnle <nicolai.haehnle@amd.com>
Date:   Tue Mar 13 17:46:34 2018 -0400

    os: move xf86PrivsElevated here

    Having different types of code all trying to check for elevated privileges
    is a bad idea. This implementation is the most thorough one.

Signed-off-by: Nicolai Hähnle <nicolai.haehnle@amd.com>
Reviewed-by: Ben Crocker <bcrocker@redhat.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>
Tested-by: Ben Crocker <bcrocker@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit 1519475a4382066707276d7463c7c6e52c382caa
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 14 15:29:15 2018 -0400

    appveyor: use meson

    i686 cygwin build time with autotools: 16:22
    i686 cygwin build time with meson: 6:56

    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2415ef5b228f5a235377decde95eb146c6642ea9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 20 14:00:33 2018 -0400

    meson: Add the x(org)proto headers to the include path

    Without this meson won't properly use headers installed into a
    non-default location.
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 21e8a4a1b993a9b1ab4da7510cd3d8a152be998b
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Wed Mar 7 18:45:33 2018 +0000

modesetting: remove fallback DRM_CAP_* defines

All the macros are available in the libdrm that we depend on.

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d2568c058745ea66353fe8f7296a6f37795905
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Wed Mar 7 18:45:32 2018 +0000

modesetting: remove always true DRM_IOCTL_CRTC_QUEUE_SEQUENCE guard

We already require libdrm 2.4.89 which provides the definition plus
guarding kernel UABI like that is generally a bad idea.

See previous commit for details why :-)  

Cc: Keith Packard <keithp@keithp.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f368428ab84c14f32f52e50b880d9353fbb87181
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Wed Mar 7 18:45:31 2018 +0000

modesetting: remove always true defined(DRM_CAP_PRIME) guards

The macro was available in libdrm for ages. Furthermore having a guard
like this is a very bad idea.

Building on an old server will result in a missing run-time functionality.
Since it's UABI one can use a local fallback, old kernels will return
EINVAL and the fallback path will kick in.

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 22b489d27365d2513bf1cab6da92254e3bdcf41
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Wed Mar 7 18:45:30 2018 +0000
Remove always true GLAMOR_HAS_DRM_* guards

With earlier commit the required version was bumped to 2.4.89, thus the guards always evaluate to true.

Fixes: e4e3447603b ("Add RandR leases with modesetting driver support [v6]")
Cc: Keith Packard <keithp@keithp.com>
Cc: Daniel Stone <daniels@collabora.com>
Cc: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e0748b10a8621066b404d713a76826907da777b9
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Wed Mar 7 18:45:29 2018 +0000

configure: remove libdrm version check

We already require said version.

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8718d46157b9317554aba3e01b9919a1c0c28026
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 14 16:43:09 2018 -0400

ci: Ignore builds for branches aimed at other CI services

Make appveyor ignore builds for /travis.*/ and vice versa. If you're only testing a Windows change, building for OSX and Linux too is a bit rude.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ae5c0dd199a5fbbdf7a2d6b8c1b28c410289106
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Tue Mar 13 18:38:49 2018 +0000

dri3: cap the version returned to the client

As per the protocol, the server should not return version greater than the one supported by the client.

Add a spec quote and tweak the numbers accordingly.
Fixes: 563138298868 ("dri3: Add DRI3 extension")
Cc: Daniel Stone <daniels@collabora.com>
Cc: Keith Packard <keithp@keithp.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6a5d51e0823b43280e3646b7a0c919a3b76146ea
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Mar 19 16:04:43 2018 +0000

    present: cap the version returned to the client

    As per the protocol, the server should not return version greater than
    the one supported by the client.

    Add a spec quote and tweak the numbers accordingly.

Fixes: 5c5c1b77982 ("present: Add Present extension")
Cc: Thierry Reding <treding@nvidia.com>
Cc: Daniel Stone <daniels@collabora.com>
Cc: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit abb9b58d1af9a0286162e52ef9db390d0c950fc1
Author: Thierry Reding <treding@nvidia.com>
Date:   Fri Mar 16 14:24:21 2018 +0100

    present: Advertise protocol version 1.2

    Everything is implemented to support protocol version 1.2. Make it
    official.

    Reviewed-by: Daniel Stone <daniels@collabora.com>
    Signed-off-by: Thierry Reding <treding@nvidia.com>
    Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit 7fc89251ef5e7363dfbf6d831ed448bbcd8519b8
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Mar 4 13:00:05 2018 -0800

    Revert "modesetting: Remove #ifdefs XF86_PDEV_SERVER_FD"

    This reverts commit 8c455db0ebb6e5313ca81428bb6dd75ef12aaa15.

    Since xf86platformBus.h is only included when XSERVER_PLATFORM_BUS is
    defined, and configure.ac only defines that on systems with udev, this
    commit breaks the build on non-udev systems like Solaris.
appveyor: Switch to xorgproto

Also build with -j2, the builder VM has two cores.

travis: Update OSX build

Install and use xorgproto, and build with optimization as clang has warnings that only work above -O0. Also expand the build matrix for both Xcode 8.3 and 9.2. Both images are OSX 10.12 at the moment so this is really just a way to test with clang 8 vs 9.

travis: Switch linux build from stretch to rawhide

Stretch's Mesa is too far behind, and building Mesa to build xserver is not the sort of problem we're trying to solve here. But our Travis scripts run inside a docker image, and that image can be whatever, so since I have to keep rawhide building anyway let's switch to that for now. The dockerfile can be found at:

https://github.com/nwnk/xserver-travis

The $DISTRO part of the change is foreshadowing for the day we readd a (probably sid-based) debian image; patches for other environments are welcome.

travis: Switch to xorgproto

Also build with -j2, the builder VM has two cores.

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Install and use xorgproto, and build with optimization as clang has warnings that only work above -O0. Also expand the build matrix for both Xcode 8.3 and 9.2. Both images are OSX 10.12 at the moment so this is really just a way to test with clang 8 vs 9.

travis: Switch linux build from stretch to rawhide

Stretch's Mesa is too far behind, and building Mesa to build xserver is not the sort of problem we're trying to solve here. But our Travis scripts run inside a docker image, and that image can be whatever, so since I have to keep rawhide building anyway let's switch to that for now. The dockerfile can be found at:

https://github.com/nwnk/xserver-travis

The $DISTRO part of the change is foreshadowing for the day we readd a (probably sid-based) debian image; patches for other environments are welcome.
randr: Initialize RROuptutRec::nonDesktop

Flagged by valgrind:

==13695== Conditional jump or move depends on uninitialised value(s)
==13695== at 0x22461C: RRNoticePropertyChange (rrproperty.c:150)
==13695== by 0x22261C: RRCaptureOutputProperty (rrproperty.c:263)
==13695== by 0x222FC4: RROutputCreateNonDesktop (rrootup.c:333)
==13695== by 0x22319C: RROutputCreate (rrootup.c:122)
==13695== by 0x1E1CE9: xf86RandR12CreateObjects12 (xf86RandR12.c:1734)
==13695== by 0x1E1CE9: xf86RandR12Init12 (xf86RandR12.c:2375)
==13695== by 0x1E1CE9: xf86RandR12Init (xf86RandR12.c:895)
==13695== by 0x1D469B: xf86CrtcScreenInit (xf86Crtc.c:778)
==13695== by 0xC095A54: RADEONScreenInit_KMS (radeon_kms.c:2436)
==13695== by 0x1E1CE9: AddGPUScreen (dispatch.c:3966)
==13695== by 0x1A3E46: InitOutput (xf86Init.c:763)
==13695== by 0x1654A7: dix_main (main.c:193)
==13695== by 0x17041A86: (below main) (libc-start.c:310)
==13695== Uninitialised value was created by a heap allocation
==13695== at 0x4C2CB8F: malloc (vg_replace_malloc.c:299)
==13695== by 0x223083: RROutputCreate (rrootup.c:83)
==13695== by 0x1E1CE9: xf86RandR12CreateObjects12 (xf86RandR12.c:1734)
==13695== by 0x1E1CE9: xf86RandR12Init12 (xf86RandR12.c:2375)
==13695== by 0x1E1CE9: xf86RandR12Init (xf86RandR12.c:895)
==13695== by 0x1D469B: xf86CrtcScreenInit (xf86Crtc.c:778)
==13695== by 0xC095A54: RADEONScreenInit_KMS (radeon_kms.c:2436)
==13695== by 0x1E1CE9: AddGPUScreen (dispatch.c:3966)
==13695== by 0x1A3E46: InitOutput (xf86Init.c:763)
==13695== by 0x1654A7: dix_main (main.c:193)
==13695== by 0x17041A86: (below main) (libc-start.c:310)

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 52048ce29f872192478fece3887b7b1c8aace7d
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 12 12:14:44 2018 -0700

Xext/saver: Swap ScreenSaverSuspend 'suspend' field. Handle old XCB clients.

This field was defined as a Bool in the protocol headers and BOOL in Xcb. Bool is not a valid type for protocol fields. It is defined as 'int' by Xdefs,h, which we expect to be 32-bits on all machines.

The protocol headers and xcb have patches posted to switch to CARD32,
which is at least well defined.

This change adds the necessary byte swapping to handle other-endian clients with this 32-bit field, and then changes the request processing to compare all 32-bits against zero so that it works with both new and old clients.

On MSB machines, Xlib will continue to work properly, but old XCB will not interoperate with the X server (either before or after this patch).

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Mihai Moldovan <ionic@ionic.de>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit beda6af3b3c33ada17f77637141f05631081894e93a
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date: Fri Mar 9 04:58:20 2018 +0100

glamor/xwayland: Add depth 30 format mapping for DRI 3.2 as well.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 07c369e05ac116901dacc20f4742622bdc2a784f
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Thu Mar 8 12:34:26 2018 +0000

meson: Require libdrm for dri1/2/3 when configured 'auto' as well as 'true'

If dri1/2/3 are configured for auto-detection, libdrm is required, as well as the corresponding proto. (Practically we will always have the corresponding protos now, as they are part of xorgproto).

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit f69cd2024ef25e7fd2d2d7012e33e16eeb79ff
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Mar 8 11:13:16 2018 -0500

os: Define [ReadFdFrom,WriteFdTo]Client unconditionally

Otherwise this is broken on cygwin:

rrlease.c: In function ‘ProcRRCreateLease’:
rrlease.c:305:9: error: implicit declaration of function ‘WriteFdToClient’ [-Werror=implicit-function-declaration]
if (WriteFdToClient(client, fd, TRUE) < 0) {
dri2: Sync i965_pci_ids.h from Mesa.

Copied from Mesa with no modifications.

Gives us Geminilake and Kaby Lake platform names updates and sync on Coffee Lake PCI IDs.

Cc: Timo Aaltonen <timo.aaltonen@canonical.com>
Signed-off-by: Rodrigo Vivi <rodrigo.vivi@intel.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 43576b901151a1f32209f476249a4de6980b654f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Mar 6 10:53:19 2018 +0100

glamor: Restore glamor_fd_from_pixmap and glamor_pixmap_from_fd

They're part of the 1.20 RC1 ABI, and actually used by external drivers. Also, requiring drivers which don't support the new functionality in DRI3 1.2 to switch to the new interfaces seems unreasonable.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 5d3fd3856b718cfbc87d17f1de698ced94923c78
Author: Samir Benmendil <me@rmz.io>
Date:   Sat Mar 3 01:41:12 2018 +0000

xb: XkbSetMap on the lastSlave needs to change the master

The layout needs to be set on the master too if the layout is changed on the device that was last used by the master.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=85256
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=91571

Signed-off-by: Samir Benmendil <me@rmz.io>
Acked-by: Daniel Stone <daniels@collabora.com>

commit ce8da936464cc78ec31de6e970e1353ffecf2547
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
dri3: Enable DRI3 version 1.2

Enable DRI3 v1.2 now that all functions have been implemented and that there is at least one backend implementing the driver hooks (modesetting/glamor).

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8d0d89715984e321315631dd6667e05813d26e03
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date: Wed Feb 28 01:19:45 2018 +0000

glamor: Use gbm_bo_create_with_modifiers for internal pixmap allocation

Using modifier might allow the driver to use a more optimal format (e.g. tiled/compressed). Let's try to use those if possible.

v2: Don't filter out multi-plane modifiers

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cef12efc15ca1444d6d8cd839116b318a4668692
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date: Wed Feb 28 01:19:44 2018 +0000

glamor: Implement GetSupportedModifiers

Implement function added in DRI3 v1.1.

A newest version of libepoxy (>= 1.4.4) is required as earlier versions use a problematic version of Khronos EXT_image_dma_buf_import_modifiers spec.

v4: Only send scanout-supported modifiers if flipping is possible
v5: Fix memory corruption in XWayland (uninitialized pointer)

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit c8c276c9569b3ca1e695682a5443f1b615c606bd
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:43 2018 +0000

glamor: Implement PixmapFromBuffers and BuffersFromPixmap

It relies on GBM >= 17.1.0 where we can import BO with multiple
planes and a format modifier (GBM_BO_IMPORT_FD_MODIFIER).

v2: Properly free fds in Xwayland

[Also add glamor_egl_ext.h to Makefile.am for distcheck's sake - ajax]

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9d147305b4048dcec7ea4eda3eeeaaa83f843f7788
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:42 2018 +0000

modesetting: Check if buffer format is supported when flipping

Add support for 'check_flip2' so that the present core can know
why it is impossible to flip in that scenario. The core can then
let know the client that the buffer format/modifier is suboptimal.

v2: No longer need to implement 'check_flip'

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e375f29662ad7589cc6d8d179846da9b8a897122
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:41 2018 +0000

modesetting: Create scanout buffers using supported modifiers

Use most optimal buffer format (e.g. tiled/compressed) available
for scanout.

v2: Don't use multi-plane modifier to create scanout buffer

v3: Add flag to retrieve modifiers set from enabled CRTC only
v4: Fix uses when GBM/EGL driver doesn’t support modifiers

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ca1c390cc7bf617c0147d69c874dadce28e903b
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:40 2018 +0000

text: modesetting. Get supported formats/modifiers for scanout

Retrieve IN_FORMATS property from the plane. It gives the allowed formats and modifiers for BO allocation.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9817c14f6a2ea5db44459659131c13f403716df1
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:39 2018 +0000

text: modesetting: Use atomic modesetting to configure output/CRTCs

To make sure we also use the same primary plane and to avoid mixing uses of two APIs, it is better to always use the atomic modesetting API when possible.

v2: Don't use mode_output->connector_id

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2f807c2324b46fbd9a557e7a4f177a392d5851b3
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:38 2018 +0000

modesetting: Add support for multi-plane pixmaps when page-flipping

This allows the uses of CCS compressed or tiled pixmaps as BOs when page-flipping.
modesetting: Use atomic modesetting API for pageflip if available

In order to flip between compressed and uncompressed buffers - something drmModePageFlip explicitly bans us from doing - we need to port use the atomic modesetting API. It's only 'fake' atomic though given we still commit for each CRT CRTC separately and
CRTC and connector properties are not set with the atomic API.

The helper functions to retrieve DRM properties have been borrowed from Weston.

present: Send PresentCompleteModeSuboptimalCopy appropriately

Add 'check_flip2' hook for driver to let know the core about why flipping is not possible ('reason').
If it is because of unsupported buffer format/modifier, a PresentCompleteNotify event is sent to the client with the PresentCompleteModeSuboptimalCopy mode.

v2: Check for PresentOptionSuboptimal and check driver version before using 'check_flip2'.

v3: Only require one of 'check_flip' or 'check_flip2' to be implemented by the driver.
Refactor reasons list to enum
commit 6e7c40f62db66f5b59b2cf59f1e6a26e4fd21bda
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Feb 28 01:19:35 2018 +0000

dri3: Add multi-planar/modifier buffer requests

Initial implementation for DRI3 v1.1. Only the DRI3 implementation is there, backends need to implement the proper hooks.

Version is still set to 1.0 so clients shouldn't use the new requests yet.

v2: Use depth/bpp instead of DRM formats in requests

v3: Remove DMA fence requests from v1.1
    Add screen/drawable modifier sets

v4: Free array returned by 'get_drawable_modifiers()'

v5: Fix FD leak

Signed-off-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0ff4074224ea370e021d79526c63ce9f1356730d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 2 17:05:04 2018 -0800

Require libdrm 2.4.89 or newer

Both autotools and meson build systems had complicated logic around what version of libdrm to require for various options. Remove that and just check for a new enough version to support all of the options which need libdrm.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 43f1d572592d26bb78decfd55e643bdfb011d3f
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Thu Mar 1 12:58:16 2018 +0100

meson: Make SHM extension optional

v2: check for header 'sys/shm.h'
meson: get rid of useless HAVE_SYSV_IPC

meson: Make ACPI support optional
v2: Define HAVE ACPI in dix-config.h

meson: Make APM support optional
v2: Define HAVE_APM in dix-config.h

randr: Fix a crash on initialization with GPU screens

RRSetChanged (immediately above) was immune to screens with no master, but RRTellChanged was not:

Thread 1 "X" received signal SIGSEGV, Segmentation fault.
RRTellChanged (pScreen=<optimized out>) at ../.../randr/randr.c:576
576 mastersp = rrGetScrPriv(master);
(gdb) bt
#0  RRTellChanged (pScreen=<optimized out>) at ../../randr/randr.c:576
#1  0x00005555556f1e9 in RRNoticePropertyChange (value=0x5555555bfef10, property=70, output=0x5555555bfef10) at ../../randr/rrproperty.c:153
#2  RRChangeOutputProperty (output=output=0x5555555bfef10, property=<optimized out>, type=type@entry=19, format=format@entry=32, mode=<optimized out>, mode@entry=0, len=len@entry=1, value=0x7fffffff77c, sendevent=1, pending=0)
at ../../randr/rrproperty.c:263
#3  0x0000555555566db5 in RROutputSetNonDesktop (output=output@entry=0x5555555bfef10, nonDesktop=nonDesktop@entry=0) at ../../randr/rroutput.c:333
...

Reported-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cf485c659d93c92b26c4390402575f061eb175f6
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 28 12:18:28 2018 -0500

xserver 1.20 RC 1

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit afccb266ec8b2ca014aec5b2a67bb1627f29fe9
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 28 12:26:26 2018 -0500

glx: Add vndserver.h to the SDK

Also unbreak 'make distcheck', sigh autotools.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 85ff1cedbd3286838e512fe7c70af149a8743b6fe
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Tue Feb 27 17:05:50 2018 +0000

protocol.txt: add GLX req. 35 - SetClientInfo2ARB

Noticed while skimming for the typo'd version ;-) 

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e4e3447603b5fd3a38a92c3f972396d1f81168ad
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 12 13:51:56 2018 -0800

Add RandR leases with modesetting driver support [v6]
This adds support for RandR CRTC/Output leases through the modesetting driver, creating a lease using new kernel infrastructure and returning that to a client through an fd which will have access to only those resources.

v2: Restore CRTC mode when leases terminate

When a lease terminates for a crtc we have saved data for, go ahead and restore the saved mode.

v3: Report RR_Rotate_0 rotations for leased crtcs.

Ignore leased CRTC's when selecting screen size.

Stop leasing encoders, the kernel doesn't do that anymore.

Turn off crtc->enabled while leased so that modesetting ignores them.

Check lease status before calling any driver mode functions

When starting a lease, mark leased CRTC's as disabled and hide their cursors. Also, check to see if there are other non-leased CRTC's which are driving leased Outputs and mark them as disabled as well. Sometimes an application will lease an idle crtc instead of the one already associated with the leased output.

When terminating a lease, reset any CRTC's which are driving outputs that are no longer leased so that they start working again.

This required splitting the DIX level lease termination code into two pieces, one to remove the lease from the system (RRLeaseTerminated) and a new function that frees the lease data structure (RRLeaseFree).

v4: Report RR_Rotate_0 rotation for leased crtcs.

v5: Terminate all leases on server reset.

Leases hang around after the associated client exits so that the client doesn't need to occupy an X server client slot and consume a file descriptor once it has gotten the output resources necessary.

Any leases still hanging around when the X server resets or
shuts down need to be cleaned up by calling the kernel to terminate the lease and freeing any DIX structures.

Note that we cannot simply use the existing drmmode_terminate_lease function on each lease as that wants to also reset the video mode, and during server shut down that

modesetting: Validate leases on VT enter

The kernel doesn't allow any master ioctls to run when another VT is active, including simple things like listing the active leases. To deal with that, we check the list of leases whenever the X server VT is activated.

xfree86: hide disabled cursors when resetting after lease termination

The lessee may well have played with cursors and left one active on our screen. Just tell the kernel to turn it off.

v6:     Add meson build infrastructure

[Also bumped libdrm requirement - ajax]

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 023d4aba8d45e9e3630b944ecfb650c081799b96
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 12 13:51:55 2018 -0800

xf86-video-modesetting: Create CONNECTOR_ID properties for outputs [v2]

This lets a DRM client map between X outputs and kernel connectors.

v2:

    Change CONNECTOR_ID to enum -- Adam Jackson <ajax@nwnk.net>

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@nwnk.net>

commit 39573605050f6253d14a4786bb79ce2b48537039
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 12 13:51:54 2018 -0800

randr: Support "non-desktop" property

Tracks changes to the non-desktop property so that when non-zero, outputs will always appear to be disconnected.
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@nwnk.net>

commit b91c787c4cd2d20685db69426c539938c556128a
Author: Keith Packard <keithp@keithp.com>
Date: Mon Feb 12 13:51:53 2018 -0800

xf86-video-modesetting: Record non-desktop kernel property at PreInit time

Save any value of the kernel non-desktop property in the xf86Output structure to avoid non-desktop outputs in the default configuration.

[Also bump randrproto requirement to a version that defines RRPROPERTY_NON_DESKTOP - ajax]

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@nwnk.net>

commit fabbaa8d6260da14fe5b7ca0f3f8748af16253a2
Author: Keith Packard <keithp@keithp.com>
Date: Mon Feb 12 13:51:52 2018 -0800

xfree86/modes: Check for non-desktop monitors during PreInit [v2]

At startup, we want to ignore non-desktop monitors unless we don’t find any desktop monitors. Because there are no DIX RandR resources allocated, let the driver store this information in a new field in the xf86Output structure and then use that value to help decide whether to include an output as part of the default configuration.

v2:
Suggested-by: Michel Dänzer <michel@daenzer.net>

Bump XF86_CRTC_VERSION from 7 to 8. This will let out-of-tree drivers know whether this field is available.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@nwnk.net>

commit 80d4f4b6c20288aa3e0c9908d5d845fc0088a662
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date: Tue Feb 27 03:05:32 2018 +0100

modesetting: Enable screen color depth 30 support.

glamor now supports depth 30, so allow use of it.
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>

commit 7bc86c7d2346eaddb3aafe1550ec55e63f2a3b3e5
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:31 2018 +0100

text:

modesetting: Adapt xf86HandleColorMaps() for > 24 color depth. (v2)

This retains old behavior for depths <= 24, but allows gamma table and colormap updates to work properly at depth 30.

This needs the xf86Randr12CrtcComputeGamma() fix for depth 30 from a previous commit to work. Otherwise the server will work, but gamma table updates will silently fail, iow. the server would always run with a default identity gamma lut.

v2: Simplify as proposed by Michel.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk> (v1)

commit b5f9fc5d50a999a00128c0cc3f6e7d1f66182c9d5
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:30 2018 +0100

text:

xfree86/modes: Adapt xf86Randr12CrtcComputeGamma() for depth 30. (v2)

At screen depths > 24 bit, the color palettes passed into xf86Randr12CrtcComputeGamma() can have a larger number of slots than the crtc's hardware lut. E.g., at depth 30, 1024 palette slots vs. 256 hw lut slots. This palette size > crtc gamma size case is not handled yet and leads to silent failure, so gamma table updates do not happen.

Add a new subsampling path for this case.

This makes lut updates work again, as tested with the xgamma utility (uses XF86VidMode extension) and some RandR based gamma ramp animation.

v2: Better resampling when subsampling the palette, as proposed by Ville. Now reaches the max index of the palette and deals with non-power-of-two sizes. Thanks.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk> (v1)
commit 125201408ddd51ca8ea961a7338a6ad299e5816c
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:29 2018 +0100

glamor: Bump version to 1.0.1 to signal depth 30 support.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>

commit 7a687da24c9d3c9e40ffa426631bf355322d470e
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:28 2018 +0100

glamor: Enable composite acceleration for rgb10 formats. (v2)

Specifically for xrgb2101010 format.

Tested on KDE Plasma-5 with XRender based composite acceleration backend. Much smoother and faster.

(v2) Dropped argb2101010, because of depth 32 confusion with argb8888, as pointed out by Eric. Thanks!
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>

commit c326ec717c8dbf4a3f0c64a031fbeb6030e73ff355
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:27 2018 +0100

glamor: Fix loose ends in color depth 30 support.

This makes it work properly with OpenGL based desktop compositing, as tested with EGL and GLX based compositing under OpenGL-2/3, and also artifact free with XRender based 2D compositing.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>

commit 9ab5d91c6c228e8f5b34e4b30c5104aed6e41958
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 03:05:26 2018 +0100

glamor: Make Xv extension initialize at depth 30.
Support x-screens of depth 30, so init doesn't fail.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Antoine Martin <antoine@nagafix.co.uk>

commit efe9e3e9ff96a06f50d94dc93ad2c19085fa3d09
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Tue Feb 27 06:51:59 2018 +0100

modesetting: Fix fallback for lack of new vblank kernel API.

Turns out that the kernel DRM ioctl handling returns EINVAL
instead of ENOTTY if one tries to call the new drmCrtcGetSequence()
or drmCrtcQueueSequence() ioctl's introduced in Linux 4.15 on an
older kernel where they are missing. This causes the fallback code
not to fall back to the old drmWaitVblank() ioctl and thereby
failure of vblank stuff.

E.g., on Linux 4.13, glxgears -info runs unthrottled at 10000 fps
instead of 60 fps. Also breakage of OML_sync_control extension.

Check for errno != EINVAL before setting has_queue_sequence = TRUE.

Additionally in case of supported drmCrtcQueueSequence(), set
has_queue_sequence = TRUE on success, or we might get at
least a temporary failure in ms_queue_vblank().

One slight ambiguity is that we can also get EINVAL if
drm_crtc_vblank_get() fails in the kernel, so if that
happened at first invocation of the new api, we'd fall
back to drmWaitVblank() and then fail there, instead of
failing in the new api, but the end result would be the
same.

Fixes: 44d5f2eb8a2f ("xf86-video-modesetting: Support new vblank kernel API [v2]")
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Cc: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8171d4c2d6d7b2990a278dc018ac32534c3afe606
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 23 16:08:10 2018 -0500

render: Store and use all 16bpc of precision for solid pixels (v2.1)

This plumbs the full width color for solid pictures through to fb, exa,
and glamor. External drivers and acceleration code may wish to make a
similar change for sufficiently new servers.

v2: Don't break ABI (Michel Dänzer)
v2.1: Use the (correct) full color in fb too (Michel Dänzer)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9227378064a878ce7a62852b877d674bcad89cd
Author: Jeffrey Smith <whydoubt@gmail.com>
Date:   Thu Feb 15 06:46:55 2018 -0600

modesetting: Do not close uninitialized dri2 screen

If a dri2 screen is not successfully initialized, attempting to close it results in a null dereference.

Maintain a flag indicating whether the dri2 screen was successfully initialized, and check it before attempting to close the dri2 screen.

https://bugzilla.redhat.com/show_bug.cgi?id=1485811
https://bugzilla.redhat.com/show_bug.cgi?id=1493805
https://bugzilla.redhat.com/show_bug.cgi?id=1534459
https://bugzilla.redhat.com/show_bug.cgi?id=1541745
https://bugs.freedesktop.org/show_bug.cgi?id=101282

Signed-off-by: Jeff Smith <whydoubt@gmail.com>

commit aa29298416a6323fad1681a019dbcd54867b66c4
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 26 15:26:35 2018 -0500

glamor: unifdef XORG_VERSION_CURRENT

This is always true now that glamor is in-tree.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 059879b3ed1b04014959426f953e1faf103d99ff
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 26 13:58:26 2018 -0500

xquartz: Fix linking with glxvnd

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 22a3ffe68c9c498e0b6b74ebcf1404becda8e2b1
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Feb 26 17:30:57 2018 +0100

glx: Don't pass NULL to glxGetClient

These guards were dropped by the commit below, but it turns out they're needed. Fixes crash on VT switch.

Fixes: d8ec33fe0542 ("glx: Use vnd layer for dispatch (v4)")
Bugzilla: https://bugs.freedesktop.org/105233
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 528c94c6501db936882cd06338e2250a0b884b36
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 20 11:03:46 2018 -0500

glx: Fix indirect no-config contexts

We would throw BadValue here for the GLX_SCREEN attribute. The upper dispatch layer already checks this, we can ignore it here.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a63ab81f6be7ad46b7e2d98a50aef4da5e664847
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 20 11:03:45 2018 -0500

glx: Enable GLX_ARB_create_context_no_error (v2)

This is mostly for the client library's convenience, if this extension is listed then it can know the attribute won't be rejected. Note that we don't honor this attribute for indirect contexts. That's fine, we don't want to introduce undefined behavior into a potentially privileged process.

v2: Remember to ignore the attribute (Eric Anholt)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 701f3a206d6f71c4754f457e95e2b954cf0b80c7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 23 16:08:11 2018 -0500

render: Simplify miCompositeRects

Make a solid-fill picture for this instead of a 1x1 pixmap. In principle the backend can accelerate this directly, and we also get to preserve
all the bits of the fill color.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9339fa87d03204b29d47eb8c9406f701517b3514
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Feb 22 16:53:22 2018 -0500

    render: Cosmetic cleanup to default format creation

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ddf752eafe951bb9723a9abf2579c4725a6fffc9de
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Feb 22 16:53:21 2018 -0500

    render: Remove some 24bpp handling

This can't happen anymore.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit efd84bff238f8e12bf652525990d36baada8785b
Author: Peter Harris <pharris@opentext.com>
Date:   Thu Feb 22 18:07:38 2018 -0500

    composite: Fix use-after-free in compReparentWindow

If an implicitly redirected window is unredirected by the reparent operation, cw will be a stale pointer.

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ac13d740bf14ba8799d4dfbee1f6f99a297d5bc7e
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Wed Feb 21 17:12:15 2018 +0000

    mi: Mention extension loading in verbose logs

Listing the extensions is useful, despite being annoying for normal usecases. Print it only when extra (lvl 3) verbose is requested.

v2: Move the logging to InitExtensions(), as requested by Adam.
Add the missing arguments to the function signature.

Fixes: e46820fb897 ("miinitext: introduce LoadExtensionList() to replace over LoadExtension()")

Set the major/minor version it's currently implemented, not the one provided by the GLXSERVER_VENDOR_ABI_MAJOR.MINOR_VERSION macros.

Those are identical for now, but can change in the future.

glx: NULL check the correct argument in dispatch_GLXVendorPriv

malloc can return NULL, unlike GetVendorDispatchFunc. The latter provides DispatchBadRequest.
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1310241e8d606687811c7394811fe337c3e4de11
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Mon Feb 19 15:18:07 2018 +0000

glx: keep glvnd_vendor a private [static] variable

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a054532668cbbb152d0d7acfce1e03e884bb491
Author: Jason Ekstrand <jason@jlekstrand.net>
Date: Tue Feb 20 09:41:39 2018 -0800

xwayland: Fix backwards need_rotate logic (v2)

When xdg_output support was added to Xwayland, need_rotate parameter was
added to output_get_new_size where true gave you the old pre-xdg_output
behavior and false gave the new behavior. Unfortunately, the two places
where this is called, need_rotate was set backwards. This caused input
get clamped to the wrong dimensions. Also, the logic for deciding
whether or not to flip was wrong because, if need_rotate was false, it
would always flip which is not what you want.

v2 (Daniel Stone):
- Fix output_get_new_size so that it doesn't flip the dimensions when
  need_rotate is false.

Signed-off-by: Jason Ekstrand <jason@jlekstrand.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit 343ee7d07565a75b90e6489e5c29f772dca79c43
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date: Tue Feb 20 18:07:18 2018 +0300

Xephyr: Avoid calling xcb_shm_detach() twice

This call was forgotten to be removed in
90996f5909aab4bc9aa4011a6a6d0555a7aa3adf in which
hostx_destroy_shm_segment() was introduced, which
itself does it.

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit 5ba0ba93e127a8c460b013e3e6851dd186377c27
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sun Feb 18 10:58:35 2018 +0100

meson: Make DGA extension optional

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>

commit e790bc621b8f55489e35b1de260c649d8d105d63
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sun Feb 18 10:58:34 2018 +0100

dga: #if XFreeXDGA  #ifdef XFreeXDGA

..include/events.h:32:14: error: #if with no expression

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>

commit ce4e20f80ff64a5a8b9f344e2507128f379e0715
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sun Feb 18 10:58:33 2018 +0100

meson: Make Xv and XvMC extensions optional

Just mimic autoconf file, XvMC can't be enabled without Xv

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>

commit 82d9e99bf99660537a11d9475369c43814cad664
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sun Feb 18 10:58:32 2018 +0100

meson: Xephyr Requires xcb-shm version 1.9.3 or newer

Sync with commit 8510f542e5474b719f7d7edba7ef0cc05af0271e

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>

commit 272fa1817091117d078a22252a03d3161dfc7b0f
Author: Jeffrey Smith <whydoubt@gmail.com>
Date:   Thu Feb 15 23:47:46 2018 -0600

os: avoid uninitialized offsets in backtrace

When xorg_backtrace calls unw_get_proc_name and an error occurs, offset
might not be set for the current frame.
Initialize offset for each frame so that the offset from another frame cannot be used inadvertently.

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6f9d29040cd9f4723a2e6c1e5d2ec8104efc0710
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Fri Feb 16 16:44:37 2018 +0000

hw/xwin: Update for glxvnd

- Link with libglxvnd in meson.build
- Call xorgGlxCreateVendor() like all other DDX

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 500cc4a029efce9b962ab8fbb10da9f87d83372e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Feb 14 17:21:43 2018 -0500

dmx: warning fix

/home/ajax/git/xserver/at/.../hw/dmx/input/dmxinputinit.c: In function 'dmxInputInit':
/home/ajax/git/xserver/at/.../hw/dmx/input/dmxinputinit.c:1019:9: warning: ISO C90 forbids mixed declarations
and code [-Wdeclaration-after-statement]
  int found;

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9bcdda9f619d01cdbe965cedb9f86a08ed6dc524
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Feb 14 17:20:16 2018 -0500

dri2: warning fix

/home/ajax/git/xserver/at/.../glx/glxdri2.c: In function 'create_driver_context':
/home/ajax/git/xserver/at/.../glx/glxdri2.c:444:5: warning: ISO C90 forbids mixed declarations and code [-Wdeclaration-after-statement]
  const __DRIconfig *driConfig = config ? config->driConfig : NULL;

I don't know why autotools has decided not to be C99 but at least it's trivial to fix.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 133bd4443be6b76a36afafdae0905b832e998165
Author: Adam Jackson <ajax@redhat.com>
glx: Large commands are context state, not client state

There's no reason a multithreaded client shouldn't be allowed to interleave other requests (for other contexts) with a RenderLarge. Move the check into __glXForceCurrent, and store the state in the context not the client.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5d87e4f71355272c8da38c83f493b826623301cc
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 10 13:05:47 2018 -0500

miinitext: Remove separate extension toggle list

This was only separate because GLX was loadable. The frontend is now linked statically, so we can use the static extension list directly.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 67c303fff303f94b62f03a76de97116c6ebcfda9
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 10 13:05:46 2018 -0500

miinitext: Load GLX on the mi path

Add a stub for Xnest so it continues to link, but otherwise we support GLX on every server so there's no need to make every DDX add it.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d8ec33fe0542141aed1d9016d2ecaf52da944b4b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 10 13:05:45 2018 -0500

glx: Use vnd layer for dispatch (v4)

The big change here is MakeCurrent and context tag tracking. We now delegate context tags entirely to the vnd layer, and simply store a pointer to the context state as the tag data. If a context is deleted while it's current, we allocate a fake ID for the context and move the context state there, so the tag data still points to a real context. As a result we can stop trying so hard to detach the client from contexts at disconnect time and just let resource destruction handle it.

Since vnd handles all the MakeCurrent protocol now, our request handlers...
for it can just be return BadImplementation. We also remove a bunch of LEGAL_NEW_RESOURCE, because now by the time we're called vnd has already allocated its tracking resource on that XID.

v2: Update to match v2 of the vnd import, and remove more redundant work like request length checks.

v3: Add/remove the XID map from the vendor private thunk, not the backend. (Kyle Brenneman)

v4: Fix deletion of ghost contexts (Kyle Brenneman)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8753218beae641e5ac2c2ba598cfb99a893cf4
Author: Kyle Brenneman <kbrenneman@nvidia.com>
Date: Wed Jan 10 13:05:44 2018 -0500

glx: Import glxvnd server module (v2)

This is based on an out-of-tree module written by Kyle:

https://github.com/kbrenneman/libglvnd/tree/server-libglx

I (ajax) did a bunch of cosmetic fixes, ported it off xfree86 API, added request length checks, and fixed a minor bug or two.

v2: Use separate functions to set/get a context tag's private data, and call the backend's MakeCurrent when a client disconnects to unbind the context. (Kyle Brenneman)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d1fdddeb76328ab84d9a181a5c72b90013f0f0a6
Author: Laurent Carlier <lordheavym@gmail.com>
Date: Tue Feb 13 22:33:51 2018 +0100

meson: Make Security extension optional

Just mimic autoconf file, Security extension needs X-ACE extension

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 43ef94068e07222846484bf58c0624b9b9649ac
Author: Laurent Carlier <lordheavym@gmail.com>
Date: Tue Feb 13 22:33:50 2018 +0100
meson: Make more extensions optional

Just mimic autoconf file for xf86bigfont, screensaver, xres, xace and xinerama extensions

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3203dd175bd71ef4d154578165d930eeec29afddb
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Tue Feb 13 22:33:49 2018 +0100

d DM31: Make DPMS extension optional

Just mimic autoconf file, DPMS is disabled with Xquartz

Signed-off-by: Laurent Carlier <lordheavym@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2c3e137b786dab4a8002a4934fbcf4ef0742f473
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 14 14:10:44 2018 -0500

dmx: #if PANORAMIX #ifdef PANORAMIX

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ceaf4277447407a7430b9bc3205462fbdbe0e39
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 12 15:35:05 2018 -0500

xfixes: Restore monitoring of animated cursors

This was broken by:

commit aa6651f83c698e8cc40de61aad36c73ca7a6adcf
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 8 16:23:12 2017 -0400

xfixes: Remove the CursorCurrent array

As of that change we look up the current cursor dynamically instead of trying to track every time it's set through ->DisplayCursor. That would work, except the 'bits' of an animated cursor is a transparent 1x1 pixel. So now, look up whether there's an animated cursor, and use its current frame if so.

Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 0b7a5700ad3d65e408a2fae00bdee867a8d2e1a8
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 12 15:35:04 2018 -0500

animcur: Change which CursorPtr we save in external state

Formerly spriteInfo->anim.pCursor would point to the animated cursor (or
NULL if not animated). That value would also be available in
spriteInfo->sprite->current, so instead lets use anim.pCursor to point
to the current animation element.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8510f542e5474b719f7d7edba7ef0cc05af0271e
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Wed Feb 7 14:08:50 2018 +0300

Xephyr: Require xcb-shm version 1.9.3 or newer

It's needed for FD-passing.

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2ff6eadad85fd702e3cc597c44ccf2210570004ea
Author: Roman Gilg <subdiff@gmail.com>
Date:   Fri Feb 9 23:40:42 2018 +0100

Correct xorg_list_is_empty return value description

The helper xorg_list_is_empty returns True when the list is empty and not when
it contains one or more elements.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bebcc8477c8070ade9dd4be7299c718baeab3d7a
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Mon Feb 5 11:20:41 2018 +0100

glx: Only assign 8 bpc fbconfigs for composite visuals.

Commit 91c42093b248 ("glx: Duplicate relevant fbconfigs for
compositing visuals") adds many new depth 32 fbconfigs as
composite visuals. On a X-Screen running at depth 24, this
also adds bgra 10-10-10-2 fbconigs, as they also have
config.rgbBits == 32, but these are not displayable on a depth 24 screen, leading to visually corrupted desktops under some compositors, e.g., fdo bug 104597 "Compton weird colors" when running compton with "compton --backend glx".

Be more conservative for now and only select fbconfigs with 8 bpc red, green, blue components for composite visuals.

Fixes: 91c42093b248 ("glx: Duplicate relevant fbconfigs for compositing visuals")
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=104597
Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 98edb9a35e2cdd61355656b82975d7f2b6a9f0e6
Author: Lyude Paul <lyude@redhat.com>
Date:   Tue Feb 6 12:41:47 2018 -0500

xwayland: Don't process cursor warping without an xwl_seat

Unfortunately, on my machine Xwayland immediately crashes when I try to start it. gdb backtrace:

```
#0  0x00007ffffff47f0e79 in wl_proxy_marshal () from target:/lib64/libwayland-client.so.0
#1  0x0000000000413172 in zwp_confined_pointer_v1_destroy (zwp_confined_pointer_v1=0x700000000000)
at /home/lyudess/Projects/xwayland/xwayland@exe/pointer-constraints-unstable-v1-client-protocol.h:612
#2  0x0000000000418bc0 in xwl_seat_destroy_confined_pointer (xwl_seat=0x8ba2a0)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland-input.c:2839
#3  0x0000000000418c09 in xwl_seat_unconfine_pointer (xwl_seat=0x8ba2a0)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland-input.c:2849
#4  0x0000000000410d97 in xwl_cursor_confined_to (device=0xa5a000, screen=0x8b9d80, window=0x9bdb70)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland.c:328
#5  0x00000000004a8571 in ConfineCursorToWindow (pDev=0xa5a000, pWin=0x9bdb70, generateEvents=1, confineToScreen=0) at /home/lyudess/Projects/xserver/dix/events.c:900
#6  0x0000000000494b7 in ScreenRestructured (pScreen=0x8b9d80)
at /home/lyudess/Projects/xserver/dix/events.c:1387
#7  0x0000000000502386 in RRScreenSizeNotify (pScreen=0x8b9d80)
at /home/lyudess/Projects/xserver/ randr/rrscreen.c:160
#8  0x00000000004a83c in update_screen_size (xwl_output=0x8e76760, width=3840, height=2160)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland-output.c:203
#9  0x00000000004a9f0 in apply_output_change (xwl_output=0x8e76760)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland-output.c:252
#10 0x000000000041aaeb in xdg_output_handle_done (data=0x8e7670, xdg_output=0x8e7580)
at /home/lyudess/Projects/xserver/hw/xwayland/xwayland-output.c:307
#11 0x00007fffffff50e9d1e in ffi_call_unix64 () at ../src/x86/unix64.S:76
#12 0x00007fffffff50e968f in ffi_call (cif=<optimized out>, fn=<optimized out>, rvalue=<optimized out>,
This appears to be the result of xwl_cursor_confined_to() and xwl_screen_get_default_seat(). While not against protocol, mutter ends up sending xdg_output before wl_seat. xwl_screen_get_default_seat() makes the naïve assumption that we always have a valid seat, we end up returning a pointer to the empty list itself instead of an actual seat and causing ourselves to segfault.

So, actually return NULL in xwl_screen_get_default_seat() if the seat list is empty, and skip any pointer confinement processing in xwl_cursor_confined_to() when we don't have a seat setup yet.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86: Only call PreInit handler if it exists for device
DoConfigure() attempts to call the PreInit handler on a device without checking that the handler exists.

Check that the PreInit handler exists for a device before attempting to call it.

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86: Allocate sufficient space for dev2screen array
When the dev2screen is sized to xf86NumDrivers in DoConfigure(),
subsequent code may attempt to write past the end of the array.

Size the dev2screen array to nDevToConfig instead.

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86: Do not use uninitialized pointer during probe

Commits b5df1bb and d75ffcd introduce code in xf86platformProbe() that references a member of xf86configptr. However, when using the "-configure" option, xf86configptr may not be initialized when xf86platformProbe() is called.

Avoid referencing a member of xf86configptr if uninitialized.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=100405
Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

shm, xwayland: prefer atomic close-on-exec without O_TMPFILE

Signed-off-by: Jan Beich <jbeich@FreeBSD.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

modesetting: Check for -1 before converting to unsigned int.

dri2.c:516:21: warning: comparison of unsigned expression < 0 is always false [-Wtautological-compare]
  if (front->name < 0)

Prevents a failure from being ignored.
xfree86: Silence always true condition warning.

xf86pciBus.c:1464:21: warning: comparison of constant 256 with expression of type 'uint8_t' (aka 'unsigned char') is always true [-Wtautological-constant-out-of-range-compare]
if (pVideo->bus < 256)

The code used to be in xf86FormatPciBusNumber and compared parameter which was int, but since b967bf2a it was inlined now it works with uint8_t.

commit b75835a4358065378142691bf4a20140981a410f
Author: Raimonds Cicans <ray@apollo.lv>
Date:   Mon Nov 6 15:26:33 2017 +0200

Xdmx: fix input driver initialization code paths

Problem: Xdmx exit with error "(Fatal Error) dmx: Unknown input argument: "
if local input driver is specified (example: -input local,usb-kbd,usb-mou).

Cause: code block for remote input drivers is placed in code path common for all drivers.

Fix: affected code block moved to remote input driver code path part.

Signed-off-by: Raimonds Cicans <ray@apollo.lv>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cbf09619f2355d14c103eff69aaf191cca614c06
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 6 12:56:05 2017 -0500

meson: Get more xkb configuration from xkbcomp.pc

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 93c16b0524711cd3cd8e32f151c53b5d6522e967
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Fri Feb 2 15:17:15 2018 +0300

Xephyr: Call forgotten XShmDetach if can't mmap SHM segment

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6b26a7bda9efa93440734ede0382a3e9a6761365
Author: Alex Goins <agoins@nvidia.com>
Date:   Mon Jan 8 18:44:25 2018 -0800

randr: Fix rotation check in ProcRRSetScreenSize()
ProcRRSetScreenSize() does bounds checking to ensure that none of the CRTC\textapos;s have a viewport that extends beyond the new screen size. In doing so, it accounts for if the CRTC is rotated 90 or 270 degrees, swapping width and height.

However, it does so by testing if crtc->rotation is equal to RR_Rotate_90 or RR_Rotate_270. crtc->rotation is a bit mask, and it includes reflection as well as rotation. If a CRTC is reflected as well as rotated, it will incorrectly fail this test, resulting in incorrect dimensions being used to verify the validity of the new screen size. In some cases, this can cause valid uses of ProcRRSetScreenSize() to fail with BadMatch.

This patch fixes the issue by testing that the bits RR_Rotate_90 or RR_Rotate_270 are set, rather than testing for equality.

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 90996f5909aab4be9aa4011a6a6d0555a7aa3adf
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Wed Jan 31 15:36:36 2018 +0300

Xephyr: Prefer using MIT-SHM FD-passing when possible

This makes the shared memory visible only for the Xephyr and the X server to which it is connected.

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8a220bd83c3e23de7e07d3976bfc1248c385558d4
Author: Alexander Volkov <a.volkov@rusbitech.ru>
Date:   Wed Jan 31 15:36:35 2018 +0300

Xephyr: Extract functions to create/delete shared memory segments

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 510e7d0d869dccc008b1e11e21961f2c1c3eb9cd3
Author: Jeff Smith <whydoubt@gmail.com>
Date:   Tue Dec 26 22:10:52 2017 -0600

os: Always return microseconds from GetTimeInMicros()

When a monotonic clock is not available, GetTimeInMicros() returns the time in nanoseconds. Instead, return the time in microseconds, as the name indicates.
rrmonitor: allocate using the correct type

Monitor outputs are of type RROutput, not RRCrtc.

(Which are both XID, so this makes no difference in practice, other than being technically correct.)

Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ff410c56bdf6dcdff5d252ef0ba3f4e6fe91774b
Author: Jeff Smith <whydoubt@gmail.com>
Date:  Fri Jan 26 06:25:22 2018 -0600

glamor: tidy up some gradient color formulas

- Avoid some needlessly complex equations for calculating the color at a point in a gradient field.
- Avoid calculating certain values multiple times.
- Use similar variable names across the two versions of the get_color function where practical.

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3bd17dff1ac5a4685a5da92a9982f621eefee658
Author: Jeff Smith <whydoubt@gmail.com>
Date:  Fri Jan 26 06:25:21 2018 -0600

glamor: remove unused variables in linear gradient shader

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5815c7b5951fd46d69e5c40144b64e516c7afdbf
Author: Jeff Smith <whydoubt@gmail.com>
Date:  Fri Jan 26 06:25:20 2018 -0600

glamor: fix no-reflect case for gradients
When compositing a no-reflect gradient, 'before' the gradient is empty, but 'after' the gradient is padded with the final color. Both sides are supposed to be empty.

This is fixed by moving the virtual stops to match the first and last client-supplied stops for no-reflect gradients, then causing everything 'before' the initial virtual stop and 'after' the final virtual stop to emit rgba(0,0,0,0). This does not impact gradients using the other reflect modes.

Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3e377c238f7257fd01e56a4a25dfd77e033673e4
Author: Jeff Smith <whydoubt@gmail.com>
Date: Fri Jan 26 06:25:19 2018 -0600

glamor: fix repeat-reflect case in linear gradient shader

If _pt_distance is negative, it causes the final distance to be negative in the repeat-reflect case. Moving the scaling by _pt_distance earlier avoids this problem, and simplifies some equations as a bonus.

Bugzilla: https://bugs.freedesktop.org/98508
Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9b7b8720ebc8028b14796a66d0a21b002682a83c
Author: Jeff Smith <whydoubt@gmail.com>
Date: Sat Jan 27 00:14:02 2018 -0600

edid: use value returned from pruning duplicate modes

xf86PruneDuplicateModes is passed a linked list of modes, and after pruning the duplicate nodes, the new head of the list is returned. If the first element is removed, the head of the list will change and the returned value needs to be assigned.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=103722
Thanks: John Lumby <johnlumby@hotmail.com>
Signed-off-by: Jeff Smith <whydoubt@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit dd00e5466a0e4ea313d1860824da4123692827ed
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 24 15:40:22 2018 -0500

xfree86: Remove broken RANDR disabling logic (v4)
The only way to get at xf86Info.disableRandR from configuration is Option "RANDR" "foo" in ServerFlags, which probably nobody is using seeing as it's not documented. The other way it could be set is if a screen supports RANDR 1.2, in which case we set it to avoid trying to use the RANDR 1.1 compat code. If the second screen is not 1.2-aware then this would mean we don't do RANDR setup on the second screen at all, which would almost certainly crash the first time you try to do RANDR operations on the second screen.

Fix that all by deletion, and just check whether the screen already has RANDR initialized before installing the stub support. If you want to disable RANDR, use the Extensions section of xorg.conf instead.

v2: Also remove a now entirely pointless log message, telling you to ignore a line we will no longer print.

v3: Explain the fallback path in InitOutput. (Keith Packard)

v4: Check whether the RANDR private key is initialized before trying to use it to look up the screen private.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9a416a478c1a29d1aa12c394acf21fb1b4a3aca9
Author: Hawking Zhang <Hawking.Zhang@amd.com>
Date:   Thu Jan 25 18:03:57 2018 +0100

glamor: Add 30bit RGB color format support

Signed-off-by: Hawking Zhang <Hawking.Zhang@amd.com>

[ Michel Dänzer: Adapt to glamor changes since 1.19 ]

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit fc8b7d05e74a6351df56ad8b17216aeb0dce016b
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Jan 25 13:43:09 2018 +0100

xwayland: place a manual redirect on windows

Place a manual redirect on windows on xwl_realize_window() and remove it on xwl_unrealize_window() to avoid the X11 window manager removing its redirect before Xwayland has unrealized the window (e.g. if the X11 window manager has terminated unexpectedly)
xwayland: remove dirty window unconditionally on unrealize

This is a rare occurrence of a crash in Xwayland for which I don't have the reproducing steps, just a core file.

The backtrace looks as follow:

```
#0  raise () from /usr/lib64/libc.so.6
#1  abort () from /usr/lib64/libc.so.6
#2  OsAbort () at utils.c:1361
#3  AbortServer () at log.c:877
#4  FatalError () at log.c:1015
#5  OsSigHandler () at osinit.c:154
#6  <signal handler called>
#7  xwl_glamor_pixmap_get_wl_buffer () at xwayland-glamor.c:162
#8  xwl_screen_post_damage () at xwayland.c:514
#9  block_handler () at xwayland.c:665
#10 BlockHandler () at dixutils.c:388
#11 WaitForSomething () at WaitFor.c:219
#12 Dispatch () at dispatch.c:422
#13 dix_main () at main.c:287
```

The crash is caused by dereferencing “xwl_pixmap->buffer” in xwl_glamor_pixmap_get_wl_buffer() because “xwl_pixmap” is NULL.

Reason for this is because the corresponding pixmap is from the root window and xwayland is rootless by default.

This can happen if the window was mapped, redirected, damaged and unredirected immediately, before the damage is processed by Xwayland.

Make sure to remove the dirty window from the damage list on unrealize to prevent this from happening.

Credit goes to Adam Jackson <ajax@nwnk.net> and Daniel Stone <daniel@fooishbar.org> for finding the root cause the issue.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
xwayland: Support for BTN_STYLUS3 kernel events

BTN_STYLUS3 has been introduced by the Linux 4.15 kernel to report the status of the third button present on Wacom's new "Pro Pen 3D" stylus. Treat this button like xf86-input-wacom and send a button 8 event ("navigate back") when received from Wayland.

Reviewed-by: Daniel Stone <daniels@collabora.com>
commit 29a5423abd4bd4bc6cb7bb800924a27b5d90951e408
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Tue Nov 7 11:09:44 2017 -0800

os/inputthread: Force unlock when stopping thread.

The inputthread is kept locked all the time while X server's VT is not active. If the X server is terminated while not active, it will be stuck forever in InputThreadFini waiting for the thread to join, but it wouldn't because it is locked.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=103782
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michal Srb <msrb@suse.com>
commit 71348e99a9e6a9554e483b93839168ca8f51f81
Author: Michal Srb <msrb@suse.com>
Date:   Mon Nov 27 09:59:01 2017 +0100

composite: Propagate damagedDescendants when reparented

If a window that is fully covered by an automatic-redirected descendant (even implicitly, e.g. via BackingStores) is reparented, the automatic updates could be broken if the new parent is not marked as having damaged descendants.

Fix this issue by propagating the damagedDescendants flag whenever a window is reparented.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Harris <pharris@opentext.com>
commit ac138f9b31b0fba00742edbc3326afe66e28099a
Author: Rinat Ibragimov <ibragimovrinat@mail.ru>
Date:   Tue Oct 24 01:43:43 2017 +0300

    modesetting: setup colormaps

    Signed-off-by: Rinat Ibragimov <ibragimovrinat@mail.ru>
    Reviewed-by: Michel Dänzer <michel.daenzer at amd.com>

commit 5cb330cd5d887b20351604ac080e8b71a4e28be7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 24 15:24:00 2018 -0500

    Revert "xfree86: Remove broken RANDR disabling logic (v3)"

    Tsk. This broke vesa for me, the rrGetScrPriv in InitOutput will crash
    if randr's screen private key hasn't been initialized yet. That seems
dumb, but let's not leave it broken.

    This reverts commit c08d7c1cdde6a844338ed4c3645b00bf25843a31.

commit c08d7c1cdde6a844338ed4c3645b00bf25843a31
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 23 12:10:52 2018 -0500

    xfree86: Remove broken RANDR disabling logic (v3)

    The only way to get at xf86Info.disableRandR from configuration is
    Option "RANDR" "foo" in ServerFlags, which probably nobody is using
    seeing as it's not documented. The other way it could be set is if a
    screen supports RANDR 1.2, in which case we set it to avoid trying to
    use the RANDR 1.1 compat code. If the second screen is not 1.2-aware
    then this would mean we don't do RANDR setup on the second screen at
    all, which would almost certainly crash the first time you try to do
    RANDR operations on the second screen.

    Fix that all by deletion, and just check whether the screen already has
    RANDR initialized before installing the stub support. If you want to
    disable RANDR, use the Extensions section of xorg.conf instead.

    v2: Also remove a now entirely pointless log message, telling you to
    ignore a line we will no longer print.

    v3: Explain the fallback path in InitOutput. (Keith Packard)

    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Keith Packard <keithp@keithp.com>
xwayland: Add optional xdg-output support

The xdg-output protocol aims at describing outputs in way which is
more in line with the concept of an output on desktop oriented systems.

For now it just features the position and logical size which describe
the output position and size in the global compositor space.

This is however much useful for Xwayland to advertise the output size
and position to X11 clients which need this to configure their surfaces
in the global compositor space as the compositor may apply a different
scale from what is advertised by the output scaling property (to achieve
fractional scaling, for example).

This was added in wayland-protocols 1.10.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

xf86XvMCScreenInit: Clear pScreenPriv->dixinfo when freeing pAdapt

Fixes double-free later in xf86XvMCCloseScreen, which would generally
cause fireworks.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

Revert "present: Only send PresentCompleteNotify events to the presenting client"

This reverts commit 5c00e693631475679c1c2504e03177652ec7de28.

It broke the Gallium nine state tracker, which makes PresentPixmap
requests on one display connection and processes the corresponding
events on another one.
The issue that motivated this change is prevented on the client side by
https://cgit.freedesktop.org/mesa/mesa/commit/?id=7b0e8264dd21ae05521d08d41fe0d4339401f6ef

Bugzilla: https://bugs.freedesktop.org/104678

commits:
- f704620e5db8305c54c6b6981657d801db6849b
  Author: Adam Jackson <ajax@redhat.com>
  Date: Wed Jan 10 13:05:43 2018 -0500
  - glx: Move provider setup interface to glx_extinit.h
    Keeps us from needing to add glx/ to the include path everywhere, since
    we can't add it to the dix include path because the header file names
    conflict with glxproxy.
    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

- e2b2f06aa03fe738301ebaa82f220d9cfed5ab1a
  Author: Adam Jackson <ajax@redhat.com>
  Date: Wed Jan 10 13:05:42 2018 -0500
  - mmiinitext: General cleanup (v2)
    This really just wants to be the list of disable booleans and
    initialization functions, and nothing else. Stop including the protocol
    headers from extinit.h, remove a stray mention of xgl, and move an
    XInput declaration to a better place.
    v2: A bunch of drivers assume they'll get the DPMS tokens implicitly,
    so add it to globals.h.
    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

- 4d5aab66c052795c7f0381a3dfc7293c9a41e441
  Author: Keith Packard <keithp@keithp.com>
  Date: Thu Dec 21 18:54:39 2017 -0800
  - xfree86: Disable cursor whenever turning off CRTC during modeset
    This makes sure the CRTC's cursor is hidden before we hand the CRTC
    over to some other application.
    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
    Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit 29f79bedf2e80241ba4b482db6ead08a5709a982
Author: Keith Packard <keithp@keithp.com>
Date: Thu Dec 21 18:54:37 2017 -0800

randr: Declare incoming property values const

RRChangeOutputProperty and RRConfigureOutputProperty should not modify their parameters, and callers may want to pass pointers to fixed data, so declare the value pointers as const in both cases.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a12485ed846b852ca14d17d1e58c8b0f2399e577
Author: Keith Packard <keithp@keithp.com>
Date: Thu Dec 21 18:54:34 2017 -0800

xf86-video-modesetting: Update property values at detect and uevent time

We were updating the link-status property when a uevent came in, but we also want to update the non-desktop property, and potentially others as well. We also want to check at detect time in case we don’t get a hotplug event.

This patch updates every property provided by the kernel, sending changes to DIX so it can track things as well.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 44d5f2eb8a2f92571698adec39ac569b71da5a1b
Author: Keith Packard <keithp@keithp.com>
Date: Thu Dec 21 18:54:33 2017 -0800

xf86-video-modesetting: Support new vblank kernel API [v2]

drmCrtcGetSequence returns the current vblank sequence and time.
drmCrtcQueueSequence queues an event for delivery at a specified vblank sequence.

Use these (when available) in preference to drmWaitVBlank.

v2: Remove FIRST_PIXEL_OUT_FLAG. This has been removed from the kernel API.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 627df2f836a3a1fc6afbd3f2335f888f5ca55f9d
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 22 15:43:05 2018 -0500

automake: Fix 'make distcheck'

Add some missing meson.builds to the distball, and update the meson
build test to work when the distcheck srdir != builddir. The test build
directory will be $(srdir)/_distcheck_build so srdir will need to be
writable; this shouldn't be too much to ask I hope.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2d29daf4e69385513a322002570ec2c41cfc838f
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Thu Jan 18 16:18:12 2018 +0000

meson.build: Fix hw/xwin build when dependencies are installed in a non-default location

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 514d2c243e01b114de304ea72226bbf8772b1b11
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Wed Jan 17 13:43:47 2018 +0000

meson: Use and prefer tirpc for Secure RPC authentication

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f72587ecce7e1dedfb20a999a0e60083c06a1b29
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date: Wed Dec 20 13:18:45 2017 +0200

xwayland: reduce over-damage

If an X11 app draws a little here, some there, and a tiny bit in the
opposite corner, using RegionExtents for the damage to be sent to the
Wayland compositor will cause massive over-damaging.

However, we cannot blindly send an arbitrary number of damage
rectangles, because there is a risk of overflowing the Wayland
connection. If that happens, it triggers an abort in libwayland-client.

Try to be more accurate with the damage by sending up to 256 rectangles
per window, and fall back to extents otherwise. The number is completely
arbitrary.
xfree86: add default modes for 16:9 and 16:10

Improve the user experience for users with wide screens by adding standard 16:9 and 16:10 modes to extramodes, as suggested previously (https://lists.x.org/archives/xorg-devel/2016-February/048866.html).
Tested successfully on my laptop. Feedback welcome.

See also https://bugs.freedesktop.org/show_bug.cgi?id=37858.

sync: Fix diffgreater comparison

xsync: Fix diffgreater comparison

While transitioning from CARD64 to int64, the GreaterThan call was mistakenly transformed into "=".
Part of this was fixed already in commit 8060196a3e80a3c0ad2c0abbe459416821cd366c

This patch fixes the remaining issue.

modesetting: Use seq instead of msc in ms_queue_vblank failure path

When the call to queue a vblank event fails, we need to clean up by removing the user-space queue entry. That is indexed by the local sequence number, not by the kernel vblank count. The call in this case was just passing the wrong value.
x86emu: Teach the debug code about varargs

With -Wformat-nonliteral and a debug build you'd get yelled at here:

./hw/xfree86/x86emu/x86emu/debug.h:188:9: warning: format not a string literal, argument types not checked [-Wformat-nonliteral]

To fix this, rewrite the printf code to actually use varargs and the appropriate format attribute. All callers of DECODE_PRINTF() pass a string with no % specifiers, so we pass that as the argument to printf("%s"). For DECODE_PRINTF2() we just pass the args through.

build: Remove <*dbm.h> checks

Formerly used by the rgb database code, which hasn't been a thing in over a decade.

meson: Enable SUN-DES-1 auth code
animcur: Handle allocation failure for the animation timer

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Aaron Plattner <aplattner@nvidia.com>

commit de60245e05c0d2528d4ff42557a044387e53315c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 9 10:54:05 2018 -0500

animcur: Fix transitions between animated cursors

We weren't cancelling the old timer when changing cursors, making things
go all crashy. Logically we could always cancel the timer first, but
then we'd have to call TimerSet to re-arm ourselves, and GetTimeInMillis
is potentially expensive.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Aaron Plattner <aplattner@nvidia.com>

commit a09fbe6c82efc674fc3790c7ffad7df70866a7df
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Dec 13 11:44:38 2017 -0500

glx: Stop printing messages about what GLX extensions we enable

glxinfo already exists, use it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit 4ed8d5c9463cbeef0693d98eb9faf7f9c2222c383
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 14 15:33:54 2017 -0500

ddc: Port some paranoia from drm_edid.c

Avoid adding a "standard" mode timing if we've already got a matching
detailed timing. To help with that, parse CEA blocks for detailed
timings before doing standard or established timings.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 652913cd9474946bcb29271602baecfd98f46ad0b
os: Fix a type error in the IPv6 XDMCP code

Building with strict-aliasing rightly chirps here:

../os/xdmcp.c: In function `XdmcpRegisterConnection':
../os/xdmcp.c:489:31: warning: dereferencing type-punned pointer will break strict-aliasing rules [-Wstrict-aliasing]
&((struct sockaddr_in6 *) &address)->sin6_addr.s6_addr[12];
^~~~~~~~~~~~

We have "const char *address", so &address here is a char ** (i.e., it points to the slot on the stack containing the pointer to the character array passed in as an argument). Casting that to a struct sockaddr_in6 * is wrong, because it means that area of the stack will be reinterpreted as a struct sockaddr_in6.

Instead, cast address, not &address.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit da4ffb2f6a0b5a039ae1362ae71e9b47441f90d2
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Dec 22 18:44:01 2017 +0000

meson: Correct the option for disabled int10 from 'disabled' to 'false'

Fix meson_option.txt to align with the check of the int10 option against 'disabled', not 'false' in hw/xfree/meson.build, to see if it shouldn't be built at all.

This keeps everything consistent that 'false' always turns things off.

Not noticed before as options weren't validated against choices until meson 0.43

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit c601c8faf54ff9e3bcbe653421828d71042deef7
Author: Helmut Grohne <helmut@subdivi.de>
Date:   Thu Dec 21 11:48:15 2017 +0100

build: guess availability of monotonic clock for cross compilation

When cross compiling, the value of MONOTONIC_CLOCK would be "cross
compiling", because AC_RUN_IFELSE doesn't work. However when enabling
wayland, a monotonic clock is required and configure aborts.

We change detection of CLOCK_MONOTONIC to degrade it gracefully from a
run check to a declaration check in case of cross compilation based on
the assumption that most systems will have a monotonic clock and those
that don't won't be able to run Xwayland anyway. The trade-off
essentially is either "always fail cross compilation" or "produce an
unusable Xwayland for unusual platform" and this commit switches to the
latter.

Signed-off-by: Helmut Grohne <helmut@subdivi.de>
Bug-Debian: https://bugs.debian.org/882531
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a30932328d9d6e0bf5d9ea1d75920e53b9beef3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 5 11:58:42 2018 +1000

config: fix NULL value detection for ID_INPUT being unset

Erroneous condition caused us to keep going with all devices that didn't have
ID_INPUT set.

Fixes: 5aad81445c8c3d6
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=104382
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dbfbe58b94ec07a45f6d170f96bfec55051724e
Author: Corentin Rossignon <corentin.rossignon@gmail.com>
Date:   Thu Jan 4 08:34:01 2018 +0100

glamor: Specify GLSL version for xv shader

SAMPLE is a GLSL keyword in newer OpenGL version.
This fix issue with gnome-shell and playing video using xv

Signed-off-by: Corentin Rossignon <corentin.rossignon@gmail.com>
Bugzilla: https://bugs.freedesktop.org/104405
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ab54bc295cd05281e55bd4d9c37216c0a929fc83
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 26 15:33:14 2017 -0400

animcur: Stop tracking the last display time in the SpriteInfoRec
animcur: Run the timer from the device, not the screen

This is very slightly more efficient since the callback now doesn't need to walk every input device, instead we know exactly which device's cursor is being updated. AnimCurTimerNotify() gets outdented nicely as a result. A more important side effect is that we can stop using the TimerAbsolute mode and just pass in the relative delay.

In AnimCurSetCursorPosition, we no longer need to rearm the timer with the new screen; it is enough to update the device's state. In AnimCurDisplayCursor we need to notice when we're switching from animated cursor to regular and cancel the existing timer.

animcur: Return the next interval directly from the timer callback

If the return value is non-zero here, DoTimer() will automatically rearm the timer for the new (relative) delay. 'soonest' is in absolute time, so subtract off 'now' and return that.

animcur: Use fixed-size screen private
Xorg.wrap: Ensure correct ordering of post-install hook

The install rule of Xorg.wrap is currently a dependency of the install-data target instead of the install-exec target. The build also uses install-exec-hook to change the ownership and set the SUID bit on the Xorg.wrap binary. The problem is that install-exec-hook is only ordered respective to the install-exec target, the rules of install-data may or may not have been executed.

If install-exec-hook runs before the Xorg.wrap binary is in place, a message similar to the following will be present in the build log:

chown: cannot access '/pkgdir/usr/lib/xorg-server/Xorg.wrap': No such file or directory

All that needs to be done is to change the name of the program variable to contain 'exec' for the install rule to depend on the install-exec target.

Excerpt from the Automake manual, chapter 12.2 The Two Parts of Install:
"Any variable using a user-defined directory prefix with 'exec' in the name (e.g., myexecbin_PROGRAMS) is installed by install-exec. All other user-defined prefixes are installed by install-data."

https://bugs.freedesktop.org/show_bug.cgi?id=104419

Signed-off-by: Lukáš Krejí <lskrejci@gmail.com>
Acked-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xwayland: avoid race condition on new keymap

When the Wayland compositor notifies of a new keymap, for the first X11 client using the keyboard, the last slave keyboard used might still not be set (i.e. "lastSlave" is still NULL).

As a result, the new keymap is not applied, and the first X11 window will have the wrong keymap set initially.
Apply the new keymap to the master keyboard as long as there's one.

Bugzilla: https://bugzilla.gnome.org/show_bug.cgi?id=791383
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c72049530503ebde493efcfd22156105557ea18d3
Author: Konstantin Kharlamov <Hi-Angel@yandex.ru>
Date: Sun Dec 17 23:23:02 2017 +0300

modesetting: simplify bailing on calloc fail

The "done" label restores crtc-> [x,y,rotation,mode], frees output_id.
Doing the calloc() before writing to those values frees us from
necessity to restore them if calloc fails, and allows to merge
"if (mode)" block.

Signed-off-by: Konstantin Kharlamov <Hi-Angel@yandex.ru>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c2954b16c8730c7ed8441fd8dba25900f3aed265
Author: Tapani Pälli <tapani.palli@intel.com>
Date: Tue Nov 28 09:23:29 2017 +0200

glx: do not pick sRGB config for 32-bit RGBA visual

This fixes blending issues seen with kwin and gnome-shell when
32bit visual has sRGB capability set.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Tapani Pälli <tapani.palli@intel.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=103699
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=103646
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=103655

commit cf7517675d988ec2d1ff967d6d162a17acbdad466
Author: Keith Packard <keithp@keithp.com>
Date: Wed Aug 2 21:34:52 2017 -0700

xfree86: Hold input_lock across SPRITE functions in VGA arbiter

Avoid scrambling the sprite functions wrapper.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=101995
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
meson: Add dependency on generated code fragments in hw/xwin/glx/

Somehow I'd managed to write this with this dependency missing, so this only works correctly when the generated files already exist and the correct automatic dependencies generated, but fails on a clean build.

Including generated files with a .c extension into the sources for a target causes meson to want to compile them (and it seems to be hard to say "make the directory containing this generated file available to include").

So, change the extension of included generated C fragments to .ic

Update the autotools build to align.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

os: Add epoll-like port implementation for Solaris

x11perf -noop with 200 xlogos connected is slightly faster with ports:

<table>
<thead>
<tr>
<th>before</th>
<th>after</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>18400000.0</td>
<td>19200000.0</td>
<td>(1.04) X protocol NoOperation</td>
</tr>
</tbody>
</table>

Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Harris <pharris@opentext.com>

os: Add epoll-like pollset implementation for AIX

AIX's poll only allows FD_SETSIZE entries in the fd list, which is insufficient for expanded MaxClients.

As a bonus, x11perf -noop with ~250 xlogos connected is slightly faster with pollset:
before          after         Operation
---------   ----------------   --------------------
5750000.0   5990000.0 (1.04)   X protocol NoOperation

Signed-off-by: Peter Harris <pharris@opentext.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit bed28300999a07514d741abe5c748adfd234e18a6
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 20 15:43:07 2017 -0500

kdrive: remove KdSignalWrapper etc.

This no longer does anything useful.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 4353d83f60766824a65f188716616ee8e17bb24
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 20 15:43:06 2017 -0500

xfree86: remove xf86CaughtSignal etc.

This no longer does anything useful.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 9c72887939f319e185d2726d9da4191b9d12efd
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 20 15:43:05 2017 -0500

os: Make OsSignalHandler ask for core dumps for signo != SIGQUIT

SIGQUIT is a normal termination request, but any other signal we handle here wants a core. This has the effect of making FatalError's call to AbortServer trigger the

\[
\text{if (CoreDump)} \\
\text{OsAbort();}
\]

path. This will allow us to remove some DDX code that has the same net effect.

Signed-off-by: Adam Jackson <ajax@redhat.com>
xfree86: Remove xf86InterceptSignals

The only consumer of this is the Linux vm86 backend for int10 (which you should not use), and there all it serves to do is make signals generated by the vm86 task non-fatal. In practice this error appears never to happen, and marching ahead with root privileges after arbitrary code has raised a signal seems like a poor plan.

Remove the usage in the vm86 code, making this error fatal.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

xfree86: Remove xf86InterceptSigIll

This was added in ~2004 for the sis driver, to detect whether it could use SSE for memcpy. Charmingly, the code to check whether that feature exists in the server is:

```c
#if XORG_VERSION_CURRENT >= XORG_VERSION_NUMERIC(6,8,99,13,0)
#define SISCHECKOSSSE    /* Automatic check OS for SSE; requires SigIll facility */
#endif
```

Which means it has never worked in any modular server release.

A less gross way to do this is to check for SSE support with getauxval() or /proc/cpuinfo or similar. Since no driver is using the existing intercept mechanism, drop it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
xwayland: Give up “cleanly" on Wayland socket errors

Xwayland is a pretty standard Wayland client, we want to be able to
capture core dumps on crashes.

Yet using "-core" causes any FatalError() to generate a core dump,
meaning that we would get a core file for all Wayland server crashes,
which would generate a lot of false positives.

Instead of using FatalError() on Wayland socket errors, give up cleanly
to avoid dumping core files when "-core" is used.

See also: https://bugzilla.gnome.org/show_bug.cgi?id=790502
         and: https://bugzilla.gnome.org/show_bug.cgi?id=789086

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 6883ae43eb72fe4e2651c1dca209563323fad2db
Author: Tomasz niatowski <kailoran@gmail.com>
Date:   Wed Dec 6 12:16:17 2017 +0100

  os: Fix strtok/free crash in ComputeLocalClient

  Don't reuse cmd for strtok output to ensure the proper pointer is
  freed afterwards.

  The code incorrectly assumed the pointer returned by strtok(cmd, ":")
  would always point to cmd. However, strtok(str, sep) != str if str
  begins with sep. This caused an invalid-free crash when running
  a program under X with a name beginning with a colon.

  Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=104123
  Signed-off-by: Tomasz niatowski <kailoran@gmail.com>
  Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit aa6651f83c698e8cc40de61aad36c73ca7a6adcf
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 8 16:23:12 2017 -0400

  xfrees: Remove the CursorCurrent array

  We're not wrapping all the ways a cursor can be destroyed, so this array
  ends up with stale data. Rather than try harder to wrap more code paths,
  just look up the cursor when we need it.

  Signed-off-by: Adam Jackson <ajax@redhat.com>
test: Fix build dependency for bigreq test

libxcb-xinput isn't a thing in whichever Ubuntu it is that Travis is using. The test is already optional, make it more so.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9f7a9be13d6449c00e86d3035374f4f543654b3f
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Dec 5 09:59:06 2017 +0100

dix: avoid deferencing NULL PtrCtrl

PtrCtrl really makes sense for relative pointing device only, absolute devices such as touch devices do not have any PtrCtrl set.

In some cases, if the client issues a XGetPointerControl() immediatly after a ChangeMasterDeviceClasses() copied the touch device to the VCP, a NULL pointer dereference will occur leading to a crash of Xwayland.

Check whether the PtrCtrl is not NULL in ProcGetPointerControl() and return the default control values otherwise, to avoid the NULL pointer dereference.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1519533
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 60f4646ae10f0b57790fcej46682bba531512b53e
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Mon Dec 4 16:55:13 2017 +0100

xwayland: Keep separate variables for pointer and tablet foci

The tablet/stylus interfaces reused xwl_seat->focus_window, which would leave a somewhat inconsistent state of that variable for wl_pointer purposes (basically, everything) if the pointer happened to lay on the same surface than the stylus while proximity_out happens.

We just want the stylus xwl_window to correctly determine we have stylus focus, and to correctly translate surface-local coordinates to root coordinates, this can be done using a different variable.
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Acked-by: Jason Gerecke <jason.gerecke@wacom.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>

commit 97ac59b1ed3624f7c04e54dd3e3dadfa46a8f170
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Sep 27 18:01:01 2017 +0200

xwayland: Fix non-argb cursor conversion

From the bug: "What happens if bits->width is less than 8? :)

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=103012
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit a4c1e290824d0e40191ad26019b705f61c11e113
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 14 15:15:03 2017 -0500

glx: Implement GLX_EXT_no_config_context (v2)

Only enabled for the DRI backends at the moment. In principle WGL/CGL
could support this - it's sort of implied by GL 3.0 support - but in
practice their implementations back GLX drawables with native drawables
(and not anonymous FBOs), so they would need either a corresponding
window system binding extension or significant implementation work.

v2: Require that the two screen numbers match, per v4 of spec.

Khronos: https://github.com/KhronosGroup/OpenGL-Registry/pull/102
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit f0fffa926a5771e0e604fe9a48178b0514ca5d41
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 14 15:15:02 2017 -0500

glx: Prepare __glXGetDrawable for no-config contexts

Any proper (GLX 1.3) drawable will already have a bound config, but if
we're doing the GLX 1.2 thing of making a Window current, we need to
infer the config from the window's Visual.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 5d667df6ea1634191a26f9a7c26bc883701d62b0
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Nov 14 15:15:01 2017 -0500

glx: Fix glXQueryContext for GLX_FBCONFIG_ID and GLX_RENDER_TYPE (v2)

Just never filled in, oops. Seems to have gone unnoticed because normally glXQueryContext simply returns the values filled in by the client library when the context was created. The only path by which you normally get to a glXQueryContext request is glXImportContext, and then only if the context is already indirect.

However, that's a statement about Mesa's libGL (and anything else that inherited that bit of the SGI SI more or less intact). Nothing prevents a mischievous client from issuing that request of a direct context, and if they did we'd be in trouble because we never bothered to preserve the associated fbconfig in the context state, so we'd crash looking up GLX_VISUAL_ID_EXT. So let's fix that too.

v2: Fixed missing preservation of the config in DRI2 (Eric Anholt)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 78b2ce1410dda758537d52398223ca9b75783bc
Author: Daniel Martin <consume.noise@gmail.com>
Date: Mon Nov 20 10:47:43 2017 +0100

modesetting: Remove #if 0 CMAP_LOAD_EVEN_IF_OFFSCREEN

CMAP_LOAD_EVEN_IF_OFFSCREEN has been encapsulated since the import of xf86-video-modesetting into the tree.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit d563443381142fb0c0b102422d7e7389bf3621331
Author: Daniel Martin <consume.noise@gmail.com>
Date: Mon Nov 20 10:47:42 2017 +0100

modesetting: Remove unused define DRV_ERROR

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit 6804875662363764683a86c1614e4cf3cc70a20a
Author: Daniel Martin <consume.noise@gmail.com>
modesetting: Reset output_id if drmModeGetConnector failed

If drmModeGetConnector() fails in drmmode_output_detect(), we have to reset the output_id to -1 too.

Yet another spot leading to a potential NULL dereference when handling the mode_output member as output_id was != -1. Though, this case should be very hard to hit.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit e20b1016de22e893d5468960988ddd5677c11d98
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Mon Nov 20 10:47:40 2017 +0100

modesetting: Fix log msg if pixmap creation failed

Add a missing new-line character and make the message more verbose than "Failed".

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit 02981fe1a844e101c81037df79fc147f217f3b9
Author: Daniel Martin <consume.noise@gmail.com>
Date: Mon Nov 20 10:47:39 2017 +0100

xfree86: Fix set but not used warnings in lnx_platform

Those warnings are generated, when building without systemd support:

    int major, minor, fd;
    ^~~~
../hw/xfree86/os-support/linux/lnx_platform.c:29:9: warning: variable ‘major’ set but not used [-Wunused-but-set-variable]
    int major, minor, fd;
    ^~~~

In this case the functions are macros, which don't use these arguments.

v2: Add comments, why the warnings appear. Suggested by Emil Velikov
os/xdmcp: Honour -once when session is dead

Terminate a dead session when -once was passed. Don't restart it.

present: Only send PresentCompleteNotify events to the presenting client

We were sending the events to all clients listening for them on the window. But clients can get confused by events from another client, and I can't imagine any case where receiving events from other clients would be required.

v2:
* Also restrict events sent to additional windows to the presenting client
* Don't shorten line lengths

randr: free crtc->outputs on destroy

randr: always realloc crtc and outputs

When the last crtc (resp. output) is destroyed, the rrScrPriv crtc

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(resp. outputs) fields do not get cleared, which can lead to a situation where the private's numCrtcs (resp. numOutputs) field is zero, but the associated memory is still allocated. Just checking if numCrtcs (resp. numOutputs) is zero is thus not a good criteria to determine whether to use a realloc or a malloc.

Since crtcs (resp. outputs) are NULL-initialized anyway, relying on numCrtcs (resp. numOutputs) is actually unnecessary, because reallocation of a NULL ptr is equivalent to a malloc anyway.

Therefore, just use realloc() unconditionally, and ensure that the fields are properly initialized.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>

commit fb5ee77b91a93e27801006be8ee34d27984e7fa6
Author: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Date: Thu Nov 9 10:21:19 2017 +0100

randr: rrGetScreenResources: initialize memory

Similarly to bb766ef11227bd8c71ac65845d1930edd0eda40d, ensure that the extra padding is set to 0.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>

commit 307c124d6bcefe26057767b2c0990dc9ac66b9e93
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Nov 14 15:59:35 2017 -0500

glx: Only flush indirect contexts in MakeCurrent (v2)

If the context is direct none of the GL commands were issued by this process, the server couldn't flush them even if it wanted to.

v2: Fix embarassingly obvious boolean inversion (Michel Dänzer)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 66e8eaa456a0f200c0649c56a2e34914daa88065
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Nov 2 16:10:50 2017 -0400

glamor: Drop the non-VAO rendering path
GLES spells this extension as GL_OES_vertex_array_object, but it is functionally equivalent to the GL_ARB version. Mesa has supported both since 9.0, let's go ahead and require it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit dbda03d5d15bec8fdff64bc8545875c39da81777
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 6 16:41:14 2017 -0500

glx: Drop references to <GL/internal/glcore.h>

This header is a truly ancient remnant of the SGI SI code, which used the same struct for visual/fbconfig state on both sides of the wire. We're not using this struct ourselves so let's stop depending on the header.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit eafcd009f1fe3e554219a428237ef1c71d1ba506
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 24 14:33:19 2017 -0400

xres: Return the atom naming the type, not its internal type number

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 68556d74b49e99d3490166c446079f7d5de26ca4
Author: Hector Martin <marcan@marcan.st>
Date:   Wed Nov 15 03:12:31 2017 +0900

edid: fix off-by-one error in CEA mode numbering

The CEA extension short video descriptors contain the VIC, which starts at 1, not 0.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hector Martin <marcan@marcan.st>

commit 9bd5a198dec5383d0d2a1e28f7aa4270132eca5db
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 11 15:37:07 2017 -0400

glamor: Remove unused glamor_create_screen_resources

Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 081675f7ffda0cce20b395874d6e5755fb6600a0
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jul 14 14:52:01 2017 -0400

glamor: Un-inline glamour_get_screen_private

text data bss dec hex filename
2134764  45210 128704 2308678 233a46 build/hw/kdrive/ephyr/Xephyr.before
2129972  45210 128704 2303886 23278e build/hw/kdrive/ephyr/Xephyr.after

Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit 6dff5e5d49a21bc749e44f0e8c390690ece750d
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 10 10:56:58 2017 -0400

xwayland: Stop printing the EGL version

It doesn't matter, none of this matters.

Acked-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit c57f63829f0077b5a3e5968f8405e087a4490485
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Sep 13 15:44:15 2017 -0400

DMX: Use noGLXExtension like other DDXes

Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit fc0e0eb18426da14601d5c0d0a50092c49a7aff8
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 6 16:07:41 2017 -0500

glx: Fix typos that break GLX_ARB_context_flush_control

The trailing \n are just wrong here, __glXEnableExtension wants a string without them.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
commit 2e7f790b5770589ae2f97ee363ecd33f362c24
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 6 15:25:34 2017 -0500

dix: Remove ffs.c

Your libc has ffs, I promise.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 4d15a2645f00995618d8687edf1fb0f4b2316ace
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 6 15:25:33 2017 -0500

os: Remove mffs()

This was always wide enough to work on an fd_mask ("mask" ffs presumably). We don't operate on fd_masks anymore, so this can go.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 4b0a3cba131eb453e2b3fc0337121969258a7be
Author: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Date:   Sat Nov 4 23:06:31 2017 +0100

    glx: free fbconfigs on destroy

    Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>
    Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>

commit bb766ef11227bd8c71ac65845d1930edd0eda40d
Author: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Date:   Sat Nov 4 23:06:29 2017 +0100

    randr: ProcRRGetOutputInfo: initialize memory

    Running Xephyr under valgrind reveals that we're sending some uninitialized memory over the wire (particularly, the leftover padding that comes from rounding extraLen to the next 32-bit multiple).

    Solve by calloc()ing the memory instead of malloc()ing (the alternative would be to memset just the padding, but I'm not sure it's more convenient.)

    Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
Xephyr: free driverPrivates on Fini

Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

xkb: initialize tsyms

This fixes some “Conditional jump depends on uninitialized value(s)” errors spotted by valgrind.

Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>
Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>

dix/window: fix typos

Reviewed-by: Adam Jackson <ajax@redhat.com>

glx: Duplicate relevant fbconfigs for compositing visuals

Previously, before GLX_OML_swap_method was fixed, both the X server and client ignored the swapMethod fbconfig value, which meant that, if the dri driver thought it exposed more than one swapMethod, it actually just exported a duplicated set of fbconfigs. When fixing GLX_OML_swap_method and restricting the choice for built-in visuals to a single swap method that meant we didn't have that many fbconfigs to choose from when pairing the compositing visual with an fbconfig, resulting in the fbconfig paired with the compositing visual becoming too restrictive for some applications, (at least for kwin). This problem would also happen if the dri driver only exposed a single swap method to begin with.

So, to make sure the compositing visual gets a good enough fbconfig, duplicate fbconfigs that are suitable for compositing visuals and make
sure these duplicated fbconfigs can be used only by compositing visuals. For duplicated fbconfigs not paired with a compositing visual, construct new compositing visuals, making compositing clients able to choose visuals / fbconfig more adapted to their needs.

This is in some sense equivalent to adding a new "TRUECOLOR_COMPOSITING" GLX visualtype.

Fixes: 4486d199bd3b ("glx: Fix visual fbconfig matching with respect to swap method")
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=102806
Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Tested-By: Nick Sarnie <commendsarnex@gmail.com>
Tested-by: Fredrik Höglund <fredrik@kde.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 30f4d440ebc3517fdcc1d3c6a422a8f8f3af1f23
Author: Eric Anholt <eric@anholt.net>
Date: Tue Oct 31 12:22:31 2017 -0700

xkb: Print the xkbcomp path being executed when we fail to compile.

I don't know how many times I've had a broken server due to a bad directory to xkbcomp, and only finding the whole path has shown me where I went wrong.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 14af8bee242fe40af0e91c61465d6720aaa60e97
Author: Eric Anholt <eric@anholt.net>
Date: Mon Oct 9 17:14:32 2017 -0700

test: Add a test for the overflow bug in bigreqs.

The failing struct comes from the python test written by Michal Srb <msrb@suse.com>.

v2: Use a drawable (root window) and gc, so that PolyLines hopefully actually tries processing things. However, the request seems to process successfully so the poll() just stalls out. However, this does let us distinguish between detecting the bigrequests error and not, at least.

v3: Clean up the description of what we expect the poll() call to do.

v4: Use XI2 instead of PolyLine to trigger a predictable error. We know the server replies with BadValue for a zero num_masks argument. So if we send a bigreq with a num_masks 0 and a length 0, we can just check whether we get killed (good) or a BadValue (bad). It doesn't test for specific memory overflows or crashes, but based on the assumption that we shouldn't look
at *any* BigReq of size 0, this seems to be sufficient.

Signed-off-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5aad81445c8c3d6b7b30d503cfe26027fa482870
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 26 15:21:59 2017 +1000

cfg/udev: consider ID_INPUT_FOO=0 as 'unset'

Historically we didn't need to care about this case but more devices are
having invalid types set and they cannot be unset with a hwdb entry (which
doesn't handle the empty string). Allow for "0" to mean "unset" because
anything else would be crazy anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d5379b350f63e42e604361c21ad9832b4c791b9
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Oct 27 16:11:56 2017 +0200

Use ARRAY_SIZE all over the tree

Roundhouse kick replacing the various (sizeof(foo)/sizeof(foo[0])) with
the ARRAY_SIZE macro from dix.h when possible. A semantic patch for
coccinelle has been used first. Additionally, a few macros have been
inlined as they had only one or two users.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 15a32ee5d1fffa171bb05af9a0e5b472e4af1488
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Oct 27 16:11:55 2017 +0200

test: signal-logging: Fix looping signed number tests

unsigned_tests[] was used to compute the amount of signed numbers to
test.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit 0bec65f2bf479c6a74ac70b5b5181d6834dded6
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Oct 27 16:11:54 2017 +0200
test: input: Fix used uninitialized warning in dix_event_to_core

input.c: In function 'dix_event_to_core':
./include/inputstr.h:61:55: warning: '*((void *)&ev+80)' is used uninitialized in this function [-Wuninitialized]
#define SetBit(ptr, bit)  (((BYTE *) (ptr))[(bit)>>3] |= (1 << ((bit) & 7)))

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit 04a305121fbc08ecc2ef345ee7155d6087a43fd1
Author: Daniel Martin <consume.noise@gmail.com>
Date: Fri Oct 27 16:11:53 2017 +0200

modesetting: Fix potential buffer overflow

If one misconfigures a ZaphodHeads value (more than 20 characters without a delimiter), we get an overflow of our buffer. Use xstrtokenize() instead of writing/fixing our own tokenizer.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit 2230e6c8af92b041821eee0ea6210eda82c74106
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 24 14:28:34 2017 -0400

glamor: Unconditionalize GLAMOR_TEXTURED_LARGE_PIXMAP

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1edac5c1ceb8b21af45b20397ff64177ad22466c
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 24 14:28:33 2017 -0400

glamor: Unconditionalize GLAMOR_PIXMAP_DYNAMIC_UPLOAD

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 13409b91b1936330dbf19bacefa4b48d0b6843b8
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 24 14:28:32 2017 -0400

 glamor: Unconditionalize GLAMOR_GRADIENT_SHADER

Effectively always true anyway.
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 266d9868ca1cf77b7d315d607b515f081a9f45c3
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Oct 19 20:02:30 2017 -0700

xf86-video-modesetting: Fix ms_queue_vblank(flags = MS_QUEUE_RELATIVE)
Change 677c32bc refactored all usages of drmWaitVBlank() into a helper function, ms_queue_vblank().

ms_queue_vblank() takes in an MS_QUEUE_RELATIVE flag to indicate that the sequence number is relative rather than absolute, but still treats the actual sequence number as absolute, passing it through ms_crtc_msc_to_kernel_msc() unconditionally before calling drmWaitVBlank().

ms_crtc_msc_to_kernel_msc() works by subtracting a vblank offset from the provided sequence number, which only makes sense for absolute sequence numbers. In the case of PRIME Sync, drmmode_SharedPixmapPresentOnVBlank() passes in 1, which results in a large negative vblank offset. After subtracting, we're left with a relative sequence number of 100,000+, i.e. wait for 100,000+ vblanks...

In the relative case we want to pass in the sequence number unmodified. Simply add a check to do this.

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 68d95e759f8b6e6ba66d52e69e66bc34cc174f8ca
Author: Alex Goins <agoins@nvidia.com>
Date:   Tue Oct 24 18:39:13 2017 -0700

ramdac: Check ScreenPriv != NULL in xf86ScreenSetCursor()

Similar to change cba5a10f, xf86ScreenSetCursor() would dereference ScreenPriv without NULL checking it. If Option "SWCursor" is specified, ScreenPriv == NULL.

Without this fix, it is observed that setting Option "SWCursor" “on” on the modesetting driver in a PRIME configuration will segfault the server.

It is important to return success rather than failure in the instance that ScreenPriv == NULL and pCurs == NullCursor, because otherwise xf86SetCursor() can fall into infinite recursion: xf86SetCursor(pCurs) calls xf86ScreenSetCursor(pCurs), and if FALSE, calls xf86SetCursor(NullCursor). If xf86ScreenSetCursor(NullCursor) returns FALSE, it calls xf86SetCursor(NullCursor) again and this repeats forever.
meson: Use [ true, false, auto ] for tristate values

For symmetry with the boolean options. I really do not want to care whether an option is a tristate if I'm trying to set it explicitly.

dix: Don't track the XKB client versions in the ClientRec

XKB stores some stuff in the ClientRec that, style-wise, should probably be in a client private. vMinor tracks the client's idea of the XKB minor version, but is never read, we can just nuke it. vMajor is only used for a bug-compat workaround for X11R6.0-vintage clients. We're only using though (1<<4) for xkbClientFlags in the protocol, so we can pack that field down to a u8 and store the bug-compat flag there.

dix: Don't vary the ClientRec ABI at build time

Just no.
meson: Don't use " in link_with, ever

String arguments as elements in the array passed to the link_with argument in meson's executable() functions are not valid and will end up causing the build file generation to file. This actually ended up exposing a bug in meson that caused it not to report where in the meson.build file it was failing:

https://github.com/mesonbuild/meson/pull/2527

The proper way to have a variable that can contain either an empty link target or an actual link target is:

some_target = []
if some_cond
    some_target = static_library(...)
endif

This way if some_cond is False, some_target gets set to [], gets passed to executable() in the link_with array, and then gets removed by array flattening.

This also unbreaks Xwayland builds with -Dglx=false, the thing that originally made me notice this.

travis: Fix OSX build

Turn off homebrew autoupdating before installing ccache, to avoid:

/usr/local/Homebrew/Library/Homebrew/brew.rb:12:in `<main>`: Homebrew must be run under Ruby 2.3! You're running 2.0.0. (RuntimeError)
commit f44935cdb7321af242ce9f242975f096807b97f7  
Author: Daniel Martin <consume.noise@gmail.com>  
Date:   Mon Oct 23 10:31:21 2017 +0200

   modesetting: Use helper to fetch drmModeProperty(Blob)s

   Replace the various loops to lookup drmModeProperty(Blob)s by
   introducing helper functions.

   Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit 6abdb54a11dac4e8854ff94ecdcb90a14321ab31  
Author: Daniel Martin <consume.noise@gmail.com>  
Date:   Mon Oct 23 10:31:20 2017 +0200

   modesetting: Fix leak of tile_blob in drmmode_output_destroy

   And drmModeFreePropertyBlob() can handle NULL pointers, no need to check
   edid_blob.

   Signed-off-by: Daniel Martin <consume.noise@gmail.com>

commit 8d7f7e24261e68459e6f0a865e243473f65fe7ad  
Author: Daniel Martin <consume.noise@gmail.com>  
Date:   Fri Oct 20 10:05:35 2017 +0200

   modesetting: Check crtc before searching link-status property

   No need to lookup the link-status property if we don't have a crtc.

   Signed-off-by: Daniel Martin <consume.noise@gmail.com>
   Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8c455db0ebb6e5313ca81428bb6dd75ef12aaa15  
Author: Daniel Martin <consume.noise@gmail.com>  
Date:   Fri Oct 20 10:05:34 2017 +0200

   modesetting: Remove #ifdefs XF86_PDEV_SERVER_FD

   XF86_PDEV_SERVER_FD is defined since:

commit 5fb641a29bfb4a33da964e1e9af523f3472015c6  
Author: Hans de Goede <hdegoede@redhat.com>  
Date:   Mon Jan 13 12:03:46 2014 +0100

   hotplug: Extend OdevAttributes for server-managed fd support
ifdef'ing for it is a leftover from the external xf86-video-modesetting.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 66d8cbf8ce9285a87771118e46daa44f9a73ad847
Author: Daniel Martin <consume.noise@gmail.com>
Date: Fri Oct 20 10:05:33 2017 +0200

dmodesetting: Fix warning of unused variable if not GLAMOR_HAS_GBM

../hw/xfree86/drivers/modesetting/driver.c: In function ‘redisplay_dirty’:
../hw/xfree86/drivers/modesetting/driver.c:586:20: warning: unused variable ‘ms’ [-Wunused-variable]
   modesettingPtr ms = modesettingPTR(xf86ScreenToScrn(screen));

Move the variable ms into #ifdef GLAMOR_HAS_GBM, where it is used.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6d7e1d1de06336e9b49a253810afda8ac4e9f7b2
Author: Lyude Paul <lyude@redhat.com>
Date: Fri Oct 13 15:44:32 2017 -0400

meson: Don't forget to define DEBUG!

Changes since v2:
- Don't enable by default for debugoptimized builds

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0debe011901b87f686e2a76ce5edc150b04bf9d1
Author: Lyude Paul <lyude@redhat.com>
Date: Fri Oct 13 15:44:31 2017 -0400

meson: Silence -Wformat-nonliteral for x86emu

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cbca18c5516084ee540255df52e116209f1c1cbe
Author: Lyude Paul <lyude@redhat.com>
Date: Fri Oct 13 15:44:30 2017 -0400

x86emu: Fix type conversion warnings on x86_64 with DEBUG

Warnings come from the fact that PRIx32 is not used for printing 32 bit
values instead of "%lx", and "%lx" evaluates to a 64 bit long on 64 bit systems while PRIx32 always evaluates to the right type for the respective arch.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 01470ce0a9628abe8af4fe7b960f0d1eced8cd46
Author: Lyude Paul <lyude@redhat.com>
Date:   Fri Oct 13 15:44:29 2017 -0400

fbdevhw: Fix inconsistent #if DEBUG usage

fbdevhw is the only file in X's source that actually uses #if DEBUG to check for debugging instead of #ifdef DEBUG. This is contrary to everything else that checks the DEBUG macro in the source, so let's make it consistent and in turn, make our meson files a little simpler.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c66d65a645332bbf055a1c49f092636139eb9285
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jul 26 16:54:40 2017 -0700

glamor: Use GL_MESA_tile_raster_order for overlapping blits.

Improves Raspberry Pi 3 x11perf -copywinwin500 from ~480/sec to ~700/sec.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 885636b7d42b3c7b151fc386d358184db004ce45
Author: Nikolay Martynov <mar.kolya@gmail.com>
Date:   Wed Sep 13 23:23:13 2017 -0400

XShmGetImage: fix censoring

It looks like offsets calculated during image censoring are wrong. This results in black (empty) images returns.

This fix is very similar to 6c6f09aac7f1d1367a042087b7681c7f1d1e0f that was applied to XGetImage

Visually this fixes chromium/firefox window sharing in multiscreen configurations - without this patch most of the windows on 'secodnary' screens are black.
This also should fix https://bugs.freedesktop.org/show_bug.cgi?id=101730.

Signed-off-by: Nikolay Martynov <mar.kolya@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a10b4fcdc016d7ac56e5bb35f7f844af41016efe
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Oct 10 14:28:33 2017 +0100

meson: Fix linkage of loadable modules for PE/COFF

For the loadable modules it makes sense to build for PE/COFF targets, link those loadable modules with the import library for the Xorg executable, so that symbols provided by the executable can be satisfied at link time (as required by PE/COFF).

Since this uses the syntax of using the returned build target object from an executable() with an implib: kwarg to link_with:, introduced in meson 0.42 and a syntax error with older meson, also update the minimum meson version which we require in project() to that.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit d43b1ca852562882fc6930afc36a982801e3be87
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Oct 10 14:28:32 2017 +0100

meson: Fix underlinkage of shadow loadable module

Future work: probably some other modules are underlinked?

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 10cba7d54668698741510374ee63dec7a3cc3647
Author: Lyude Paul <lyude@redhat.com>
Date:   Wed Oct 11 18:03:45 2017 -0400

meson: Add xkb_bin_dir option

Now that we can actually configure all of the directories xkb uses for finding things, we can (finally, but only with meson) finally make it so that with the correct meson configuration the Xserver will "just work" without any additional changes to the installation prefix after building.

For the people like me who have since scripted this part out of their build process and forgotten about it, building and installing the X
server into a non-standard prefix has always required the following (or something else that makes sure that X has a valid xkbcomp configuration) commands be run right after doing the installation:

```
# start in root of prefix you installed X to
mkdir -pv share/X11/xkb/rules
ln -s /usr/share/X11/xkb/rules/evdev share/X11/xkb/rules/
rm -f bin/xkbcomp
ln -s /usr/bin/xkbcomp bin/
```

The one last piece of getting rid of this post-install junk is making sure that we can control the directory that X uses for finding the xkbcomp binary from meson so we can point it at the system provided xkbcomp (/usr/bin/xkbcomp or similar). So, this patch adds a configuration option for controlling this called xkb_bin_dir.

Signed-off-by: Lyude Paul <lyude@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit b747da5e25be944337a9cd1415506fc06b70aa81
Author: Nathan Kidd <nkidd@opentext.com>
Date:  Fri Jan 9 10:15:46 2015 -0500

Unvalidated extra length in ProcEstablishConnection (CVE-2017-12176)

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 4ca68b878e851e2136c234f40a25008297d8d831
Author: Nathan Kidd <nkidd@opentext.com>
Date:  Fri Jan 9 10:09:14 2015 -0500

dbe: Unvalidated variable-length request in ProcDbeGetVisualInfo (CVE-2017-12177)

v2: Protect against integer overflow (Alan Coopersmith)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 859b08d523307ebebde7724fd1a0789c44813e821
Author: Nathan Kidd <nkidd@opentext.com>
Date:  Wed Dec 24 16:22:18 2014 -0500
Xi: fix wrong extra length check in ProcXIChangeHierarchy (CVE-2017-12178)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit d088e3c1286b548a58e62afdc70bb40981cdb9e8
Author: Nathan Kidd <nkidd@opentext.com>
Date:   Fri Jan 9 10:04:41 2015 -0500

Xi: integer overflow and unvalidated length in (S)ProcXIBarrierReleasePointer

[jcristau: originally this patch fixed the same issue as commit
211e05ac85 "Xi: Test exact size of XIBarrierReleasePointer", with the
addition of these checks]

This addresses CVE-2017-12179

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 1b1d4c04695dced2463404174b50b3581db857b
Author: Nathan Kidd <nkidd@opentext.com>
Date:   Sun Dec 21 01:10:03 2014 -0500

hw/xfree86: unvalidated lengths

This addresses:
CVE-2017-12180 in XFree86-VidModeExtension
CVE-2017-12181 in XFree86-DGA
CVE-2017-12182 in XFree86-DRI

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 55ca88b08c84af2b50fbc936cf334a5a93dd7db5
Author: Nathan Kidd <nkidd@opentext.com>
Date:   Fri Jan 9 11:43:05 2015 -0500

xfixes: unvalidated lengths (CVE-2017-12183)
v2: Use before swap (Jeremy Huddleston Sequoia)

v3: Fix wrong X FixesCopyRegion checks (Alan Coopersmith)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit cad5a1050b7184d828ae9c1dd151c3ab649d37e
Author: Nathan Kidd <nkidd@opentext.com>
Date:  Fri Jan 9 09:57:23 2015 -0500

Unvalidated lengths

v2: Add overflow check and remove unnecessary check (Julien Cristau)

This addresses:
CVE-2017-12184 in XINERAMA
CVE-2017-12185 in MIT-SCREEN-SAVER
CVE-2017-12186 in X-Resource
CVE-2017-12187 in RENDER

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Nathan Kidd <nkidd@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 9c23685009aa96f4b861dccc5d2e01dbee00c4dd9
Author: Michal Srb <msrb@suse.com>
Date:  Fri Jul 7 17:04:03 2017 +0200

os: Make sure big requests have sufficient length.

A client can send a big request where the 32B "length" field has value 0. When the big request header is removed and the length corrected, the value will underflow to 0xFFFFFFFF. Functions processing the request later will think that the client sent much more data and may touch memory beyond the receive buffer.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c2f2b25ab55c67f9f3ad07c02fa746eae7c61196
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date: Wed Sep 27 01:19:58 2017 -0400

present: Check the whole exec queue on event

Later events are sometimes added in front of the queue (e.g. if page flipping fails) so we need to check the whole queue on event.

Signed-off-by: Louis-Francis Ratté-Bouliaanne <lfrb@collabora.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 677c32bca98a96585b1f66b57e0755a157b772
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 29 08:48:33 2017 -0700

xf86-video-modesetting: Add ms_queue_vblank helper [v3]

This provides an API wrapper around the kernel interface for queueing a vblank event, simplifying all of the callers.

v2: Fix missing '|' in computing vbl.request.type

v3: Remove spurious bit of next patch (thanks, Michel Dänzer)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 94f11ca5cf011ef123bd222cabeaef6f424d76ac
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 27 10:08:32 2017 -0700

xkb: Handle xkb formatted string output safely (CVE-2017-13723)

Generating strings for XKB data used a single shared static buffer, which offered several opportunities for errors. Use a ring of resizable buffers instead, to avoid problems when strings end up longer than anticipated.

Reviewed-by: Michal Srb <msrb@suse.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit eaf1f72ed8994b708d94ec2de7b1a99f5c4a39b8
Author: Michal Srb <msrb@suse.com>
Date: Thu Jul 27 11:54:26 2017 +0200

xkb: Escape non-printable characters correctly.
XkbStringText escapes non-printable characters using octal numbers. Such escape sequence would be at most 5 characters long ("\0123"), so it reserves 5 bytes in the buffer. Due to char->unsigned int conversion, it would print much longer string for negative numbers.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit b95f25af141d33a65f6f821ea9c003f66a01e1f1
Author: Michal Srb <msrb@suse.com>
Date: Fri Jul 28 16:27:10 2017 +0200

Xext/shm: Validate shmseg resource id (CVE-2017-13721)

Otherwise it can belong to a non-existing client and abort X server with FatalError "client not in use", or overwrite existing segment of another existing client.

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit db465bae533f85e7f900deb96eefcc831c9d550b
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Sep 27 14:31:39 2017 -0400

meson: Port default warning flags from xorg-macros

Well, almost all of them. No -Wdeclaration-after-statement because that's legal in C99, and in the limited ways we use it, more readable.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 40e90ead044aa3fab79280d7a5ca5ad8e390029e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Sep 27 14:31:38 2017 -0400

meson: Check for HAVE_TYPEOF

Without this, exa's gc swap macros trigger gcc's -Wdiscarded-qualifiers.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 712b02ec72b98291b78e17dcb1073a13c4a1086e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Sep 27 14:31:37 2017 -0400

meson: Default to gnu99
We don't really require all of C99, but enough that it's not worth bothering with the distinction, especially if your toolchain is new enough that meson is a thing for you. We could do strict C99 if we really insisted on spelling it __typeof__, but who wants that? Nobody, that's who.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 041f25afa81dfc7e7ef350d5b955d2d5912846ec9
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 27 14:31:36 2017 -0400

test: const correctness fix

../test/sync/sync.c: In function ‘main’:
../test/sync/sync.c:288:40: warning: initialization discards ‘const’ qualifier from pointer target type [-Wdiscarded-qualifiers]
    xcb_query_extension_reply_t *ext = xcb_get_extension_data(c, &xcb_sync_id);
    ^~~~~~~~~~~~~~~~~~~~~~

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1d1ff1142a5a3904175f45d2f52bbdfb0249e57
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 27 14:31:35 2017 -0400
dmx: More const correctness

Fixes several dozen cases like:

../hw/dmx/examples/ev.c: In function ‘main’:
../hw/dmx/examples/ev.c:147:29: warning: assignment discards ‘const’ qualifier from pointer target type [-Wdiscarded-qualifiers]
    tmp = "X";
    ^

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit eb25facb37ef74eab83060b75f8205ce1538817f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 27 14:31:34 2017 -0400
dmx: Fix a silly redeclaration bug


../hw/dmx/dmx.c:66:12: warning: redundant redeclaration of ‘PanoramiXNumScreens’ [-Wredundant-decls]
extern int PanoramiXNumScreens;
^~~~~~~~~~~~~~~
In file included from ../hw/dmx/dmx.c:65:0:
../Xext/panoramiXsrv.h:11:22: note: previous declaration of ‘PanoramiXNumScreens’ was here
extern _X_EXPORT int PanoramiXNumScreens;
^~~~~~~~~~~~~~~

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 8060196a3e80a3c0ad2c0abbe459416821cd366c
Author: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Date:   Wed Sep 27 01:24:28 2017 -0400

sync: Fix delta value check

While transitionning from CARD64 to int64, the GreaterThan call
as mistakenly been transformed into ">=". That was at least
causing problems with Mutter.

Signed-off-by: Louis-Francis Ratté-Boulianne <lfrb@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 37f4e7651a2fd51efa613a08a1e705553be33e76
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 25 16:18:22 2017 -0700

modesetting: Skip no-longer-present connectors when resetting BAD links

Outputs may have NULL mode_output (connector) pointers if the
connector disappears while the server is running. Skip these when
resetting outputs with BAD link status.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 147b4602f9c47e8977d13b1cbb6566f86dba8647
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 25 15:06:44 2017 -0400

xfree86: Hush some warnings when Xv is disabled

Spotted by Appveyor:

xf86Crtc.c:3281:1: warning: ‘xf86_crtc_box_area’ defined but not used [-Wunused-function]
xf86_crtc_box_area(BoxPtr box)
^~~~~~~~~~~~~~~

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33118
xf86Crtc.c:3268:1: warning: ‘x86_crtc_box’ defined but not used [-Wunused-function]
   x86_crtc_box(xf86CrtcPtr crtc, BoxPtr crtc_box)
                             ^~~~~~~~~~

xf86Crtc.c:3256:1: warning: ‘x86_crtc_box_intersect’ defined but not used [-Wunused-function]
   x86_crtc_box_intersect(BoxPtr dest, BoxPtr a, BoxPtr b)
                             ^~~~~~~~~~~~~~~~~~~~~~

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0888b22fe4711a8b1a9a238134b3b8d1dc659734
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Sep 25 15:01:32 2017 -0400

test: Fix a thinko in simple-xinit

Spotted by clang courtesy of the shiny new OSX Travis target:

    simple-xinit.c:90:65: warning: sizeof on pointer operation will return size of 'char *' instead of 'char [10]' [-Wsizeof-array-decay]
           ret = read(displayfd, display_string, sizeof(display_string - 1));

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 84e3b96b531363e47f6789aacfca4aa60135e2e
Author: Nick Sarnie <commendsarnex@gmail.com>
Date: Sat Sep 23 17:35:48 2017 -0400

suid: Include sysmacros.h to fix build after glibc-2.25

[Added HAVE_SYS_SYSMACROS_H guard - ajax]

Signed-off-by: Nick Sarnie <commendsarnex@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0b00440678fa22c1c1ca4a292b67db3ab8676969
Author: Jon Turney <jon.turney@dronencode.org.uk>
Date: Fri Sep 22 15:25:05 2017 +0100

travis: Also build on OSX

Signed-off-by: Jon Turney <jon.turney@dronencode.org.uk>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit c30eca688781deb06b25a6a08297cb855aeb6ed2
Author: Jon Turney <jon.turney@dronencode.org.uk>
meson: Make it possible to build for 32-bit targets

Setting glx_align64 to " gives a null string in the arguments list passed to the compiler. This is taken as an input filename, leading to:

"cc: error: : No such file or directory"

Instead, assign an empty list to glx_align64, which gets flattened to nothing in the arguments list.

Signed-off-by: Jon Turney <jon.turney@dronencode.org.uk>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2c2e1b6f57753a82c7ca144a57950f9e2d76199e
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 30 14:58:24 2017 -0400

glx: Be a bit more paranoid in glx client cleanup

This would probably crash (via double-free) if you had multiple GPUs and an indirect context.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d770f9293296d2d3c4e49e94130ff68e0890f625
Author: Daniel Stone <daniels@collabora.com>
Date:   Wed Sep 20 07:22:13 2017 -0700

meson: Use dependency version_compare()

We can check the version on an existing dependency, rather than spinning up pkg-config again just to check the right version.

Signed-off-by: Daniel Stone <daniels@collabora.com>

commit 86a89dd6020f59964e0e924acbfae9d5a51e3148
Author: Daniel Stone <daniels@collabora.com>
Date:   Wed Sep 20 07:22:12 2017 -0700

Build: Use dri3proto/libdrm CFLAGS

Make sure we get the CFLAGS required for building DRI3 into the command line.

Signed-off-by: Daniel Stone <daniels@collabora.com>
sync: Clean up a bit of header formatting.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

sync: Convert from "CARD64" to int64_t.

The extension was using the name CARD64 to represent 64-bit values, with a #define from CARD64 to XSyncValue, a struct with a pair of 32-bit values representing a signed 64-bit value. This interfered with protocol headers using CARD64 to try to actually store a uint64_t. Now that stdint.h exists, let's just use that here, instead.

v2: Fix alarm delta changes.
v3: Do the potentially overflowing math as uint and convert to int afterward, out of C spec paranoia.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

test: Add basic SYNC tests.

I couldn't find any, and I was modifying the implementation, so I had to write some. I would like the test to end with a "make sure there weren't any stray unchecked errors", but I didn't figure out how to do that.

v2: Extend sync tests to cover alarm delta and waitvalue changes.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3336291fc68444ee65b48ba675ec947ec505fed57
Author: Eric Anholt <eric@anholt.net>
test: Return error from simple-xinit if the client crashes.

I want to be able to call client tests with simple-xinit, so assertion failures should be an error.

v2: Clean up identical returns.

Signed-off-by: Eric Anholt <eric@anholt.net>

commit a8eeb332ccf4d13b3fddc382397bd3ea45e76212
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Sep 18 17:34:29 2017 -0700

meson: Add Xvfb and Xephyr-glamor testing.

The Xvfb tests are passing and Xephyr-glamor is failing for me, but it fails identically on autotools. It's disabled on Travis for now because the >10 minutes of silence during testing times out the entire build.

v2: Fix the disable on travis.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a09743c9300f805d6527368dddf4f5dd4b366
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Sep 18 17:34:28 2017 -0700

meson: Move Xvfb build under an option.

Autotools also had it as an option.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit de3b61869140768335daed0e855a5ae4dbb75020
Author: Jon Turney <jon.turney@droncode.org.uk>
Date:  Fri Sep 15 14:36:52 2017 +0100

Add an .appveyor.yml for AppVeyor CI

This currently does an autotools build using Cygwin.

Signed-off-by: Jon Turney <jon.turney@droncode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Revert "dmx: fix linking"

Since commit 3ef16dfb9830bd6b41ae428f4f213ae0c35c1056, "dmx: fix linking", linking dmx is broken for me:

CCLD Xdmx.exe
../render/librender.a(glyph.o): In function `HashGlyph':
/wip/xserver/build.x86_64/..render/glyph.c:168: undefined reference to `x_sha1_init'
/wip/xserver/build.x86_64/..render/glyph.c:174: undefined reference to `x_sha1_update'
/wip/xserver/build.x86_64/..render/glyph.c:177: undefined reference to `x_sha1_update'
/wip/xserver/build.x86_64/..render/glyph.c:180: undefined reference to `x_sha1_final'
../render/librender.a(mipict.o): In function `miClipPictureReg':
/wip/xserver/build.x86_64/..render/mipict.c:233: undefined reference to `pixman_region_n_rects'
/wip/xserver/build.x86_64/..render/mipict.c:234: undefined reference to `pixman_region_n_rects'
/wip/xserver/build.x86_64/..render/mipict.c:235: undefined reference to `pixman_region_rectangles'
/wip/xserver/build.x86_64/..render/mipict.c:236: undefined reference to `pixman_region_rectangles'
/wip/xserver/build.x86_64/..render/mipict.c:248: undefined reference to `pixman_region_init'
/wip/xserver/build.x86_64/..render/mipict.c:251: undefined reference to `pixman_region_not_empty'
/wip/xserver/build.x86_64/..render/mipict.c:261: undefined reference to `pixman_region_not_empty'
../render/librender.a(mipict.o): In function `miComputeCompositeRegion':
/wip/xserver/build.x86_64/..render/mipict.c:340: undefined reference to `pixman_region_init'

The change this was fixing appears to be effectively reverted by 542d9f6807ac06b70f564ecab10af69fa21a1221, so just revert commit 3ef16dfb9830bd6b41ae428f4f213ae0c35c1056.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

modesetting: Blacklist EVDI devices from PRIME sync

UDL (usb) devices are blacklisted because of they weird behaviour when it comes to vblank events. As EVDI uses very similar model of handling vblanks it should be treated similarly.

When doing a page flip, EVDI does not wait for real vblank, but simulates it by adding constant delay. It also does not support DRM_IOCTL_WAIT_VBLANK.
In contrast to UDL, EVDI uses platform devices, thus instead of 'usb' in path they all have 'platform'.

It is possible to blacklist by 'platform', so without explicitly saying 'evdi', but it might be misleading when it comes to real reason for it.

Signed-off-by: Dawid Kurek <dawid.kurek@displaylink.com>

commit eac1a2e37b833c179b587107230805ea1fb3dfda
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Thu Aug 3 19:43:28 2017 +0100

dri2: sort DRI2InfoPtr::version checking in ascending order

Makes it easier to follow if 8 is between 7 and 9 ;-) 

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 82df2ce38c560915f8c6574052bd56215b649072
Author: Roman Gilg <subdiff@gmail.com>
Date: Tue Aug 22 15:38:26 2017 +0200

xwayland: Avoid repeatedly looping through window ancestor chain

Calling xwl_window_from_window means looping through the window ancestor chain whenever it is called on a child window or on an automatically redirected window.

Since these properties and the potential ancestor's xwl_window are constant between window realization and unrealization, we can omit the looping by always putting the respective xwl_window in the Window's private field on its realization. If the Window doesn't feature an xwl_window on its own, it's the xwl_window of its first ancestor with one.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit 1089d5d518a315963a8cda6c7d47a0ce09de0979
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Thu Mar 2 11:03:15 2017 +0100

xwayland: add envvar XWAYLAND_NO_GLAMOR

Not all compositors allow for customizing the Xwayland command line, gnome-shell/mutter for example have the command line and path to Xwayland binary hardcoded, which makes it harder for users to disable glamor acceleration in Xwayland (glamor being used by default).
Add an environment variable XWAYLAND_NO_GLAMOR to disable glamor support in Xwayland.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Eric Engstrom <eric.engstrom@imgtec.com>

commit 5abaa50b292798370a665ace5eec56fd830be226
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Sep 1 12:22:39 2017 -0700

meson: Move the BUILD_DATE/TIME setup to configure time.

By having it as a custom_target with build_always, every "ninja -C build" would rebuild Xorg for the new date/time, even if the rest of Xorg didn't change.

We could build the rest of Xorg into a static lib, and regenerate date/time when the static lib changes and link that into a final Xorg, but BUILD_DATE/TIME is such a dubious feature (compared to including a git sha, which is easy with meson) it doesn't seem worth the build time cost.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 05e7e8b587dd9d37e8beadc72ab993f028c47fa1
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Sep 1 12:22:58 2017 -0700

meson: Include BUILD_DATE in the meson xf86Build.h.

Due to a typo, I only had BUILD_TIME present.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2b080a14e87fc9e5f77fc3361297ac332aa04f02
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Sep 1 12:22:57 2017 -0700

meson: Respect SOURCE_DATE_EPOCH for reproducible builds.

This just copies over Chris Lamb's code from autotools.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
configure.ac: Make BUILD_{DATE, TIME} respect SOURCE_DATE_EPOCH if set

Whilst working on the Reproducible Builds effort [0], we noticed that
xorg-server could not be built reproducibly. One reason is because it
embeds a "current" build and date time.

This should be compatible with both GNU and BSD date(1).

[0] https://reproducible-builds.org/

v2: Fix change in Y-M-D format that broke the build.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

fb: Check whether the window is enabled directly

... instead of its root window. Xwayland's rootless mode empties the
root window border clip since its root window has no storage, but
redirected windows (the only kind it can show) will have a non-empty
border clip anyway, cf. the #ifdef COMPOSITE in miComputeClips. With
this change, non-glamor Xwayland's GetImage actually works.

Other acceleration layers may need to change to account for this, but
this appears to be safe for the existing open source drivers. Only the
xfree86 DDX has any problem with losing its framebuffer on VT switch,
and even then only for UMS drivers (which excludes glamor, uxa, and sna
from consideration). This leaves exa, which already contains code to
evict pixmaps to host memory on VT switch. Since the xfree86 core will
still empty the root clip on VT switch, while the root window itself may
not contain a valid image we won't try to touch it, but GetImage from a
redirected window will now work even when switched away.

Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9869dcb349b49f6d4cc2fab5d927cd8b1d1f463c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:  Wed Jul 26 16:00:38 2017 +0200
glamor: Avoid overflow between box32 and box16 box

glamor_compute_transform_clipped_regions() uses a temporary box32 internally which is copied back to a box16 to init the regions16, thus causing a potential overflow.

If an overflow occurs, the given region is invalid and the pixmap init region will fail.

Simply check that the coordinates won’t overflow when copying back to the box16, avoiding a crash later down the line in glamor.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=101894
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Fabrice Bellet <fabrice@bellet.info>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit bd353e9b84e013fc34ec730319d5b63d20977903
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Jul 26 16:00:37 2017 +0200

glamor: handle NULL source picture

COMPOSITE_REGION() can pass NULL as a source picture, make sure we handle that nicely in both glamor_composite_clipped_region() and glamor_composite_choose_shader().

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=101894
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4486d199bd3bcb5b2b8ad9bc54eb11604d9bd653
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Wed Sep 6 16:27:54 2017 +0200

glx: Fix visual fbconfig matching with respect to swap method

For the built in visuals, we’d typically select the “best” fbconfig without considering the swap method. If the client then requests a specific swap method, say GLX_SWAP_COPY_OML, it may well happen that the first fbconfig matching requirements would have been paired with the 32-bit compositing visual, and the client would render a potentially transparent window.

Fix this so that we try to match fbconfigs with the same swap method to all built-in visuals. That would guarantee that selecting a specific swap-method would not influence the chance of getting a compositing visual.
Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0fc26310d5b09213c65f50bde444a1758172b016
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Wed Sep 6 16:27:53 2017 +0200

glx: Work around a GLX_OML swap method in older dri drivers

The swapMethod config member would typically contain an arbitrary value
on older dri drivers. Fix this so that if we detect an illegal value,
return GLX_SWAP_UNDEFINED_OML.

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit da29a15874229d78ec61946eacdbbed9871e3664
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 29 18:36:43 2016 +0100

glx: remove unused systemTimeExtension

Not even a single DRI2/DRISW driver in mesa ever used this. Appears to be a
dri1 artefact copy/pasted in the dri2/drsw codebase.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ea82ececbf85a7ac3d0931687f44c57534fde17c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 6 11:53:02 2017 +1000

test: fix compiler warning

signal-logging.c:182:12: warning: suggest parentheses around assignment used as truth value [-Wparentheses]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e12e02b2e6ee4582ba902ec1d1e5309abc78e282
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Apr 17 17:24:53 2016 +0100

glamor: use the lowercase xnf.*alloc API

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 17e488570067cdf499c7ad17ab198508c6f1531d
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Apr 17 17:24:52 2016 +0100

xwayland: use the lowercase xnf.*alloc API

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cdd0352ba05d4d8482aaca41797e05d40e58da36
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Aug 31 10:23:00 2017 +0200

xwayland: Fix a segfault with pointer locking

Xwayland would crash in some circumstances while trying to issue a pointer locking when the cursor is hidden when there is no seat focus window set.

The crash signature looks like:

```
#0  zwp_pointer_constraints_v1_lock_pointer ()
#1  xwl_pointer_warp_emulator_lock () at xwayland-input.c:2584
#2  xwl_seat_maybe_lock_on_hidden_cursor () at xwayland-input.c:2756
#3  xwl_seat_maybe_lock_on_hidden_cursor () at xwayland-input.c:2765
#4  xwl_seat_cursor_visibility_changed () at xwayland-input.c:2768
#5  xwl_set_cursor () at xwayland-cursor.c:245
#6  miPointerUpdateSprite () at mipointer.c:468
#7  miPointerDisplayCursor () at mipointer.c:206
#8  CursorDisplayCursor () at cursor.c:150
#9  AnimCurDisplayCursor () at animcur.c:220
#10 ChangeToCursor () at events.c:936
#11 ActivatePointerGrab () at events.c:1542
#12 GrabDevice () at events.c:5120
#13 ProcGrabPointer () at events.c:4908
#14 Dispatch () at dispatch.c:478
#15 dix_main () at main.c:276
```

xwl_pointer_warp_emulator_lock() tries to use the surface from the xwl_seat->focus_window leading to a NULL pointer dereference when that value is NULL.

Check that xwl_seat->focus_window is not NULL earlier in the stack in xwl_seat_maybe_lock_on_hidden_cursor() and return early if not the case to avoid the crash.
xwayland: No grab handler without protocol support

If the compositor has no support for the Xwayland keyboard grab protocol, there is no need to set-up our keyboard grab handler.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os: Fix warning in LockServer

The meson build gives me:

```
..os/utils.c: In function 'LockServer':
../os/utils.c:310:40: warning: 'snprintf' output may be truncated before the last format character [-Wformat-truncation=]
    snprintf(pid_str, sizeof(pid_str), "%10ld\n", (long) getpid());
                     ^^^^^^^^^
../os/utils.c:310:5: note: 'snprintf' output between 12 and 13 bytes into a destination of size 12
    snprintf(pid_str, sizeof(pid_str), "%10ld\n", (long) getpid());
                        ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Which seems to be due to the %d part meaning that a negative number's sign would be one wider than we're expecting. Fine, just coerce it to unsigned.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
```

glx: Fix error generation for non-reply vendor private requests
Discarding the return value here is just wrong.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 591ac95f73b1c1ea681c45e4da9afa2b1d505abe
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:31 2017 +0100

xwin: automake: remove unused [SRCS, DEFS]_NATIVEGDI, PRIMARYFB

Left over from the following commits:

8465ee788fd xwin: Remove native GDI engine (v2)
c79f824bf66 xwin: Remove primary DirectDraw engine

v2: drop leading - in the makefile

Cc: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk> (v1)

commit 69fe6156ee6cd37657d4e5af1c6f21ebf72b8fd7
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:30 2017 +0100

xwin: remove always true/set XWIN_RANDR conditional/define

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 8f1a200d0be261a60bb9e8e72d8704cef2d91cd4
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:29 2017 +0100

xwin: remove always true/set XWIN_MULTIWINDOW conditional/define

v2: drop trailing endif (Jon)

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 9d00f6190a8e5cc4ebda9b315d7c0a0782b58501
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:28 2017 +0100

xwin: remove always true/set XWIN_CLIPBOARD conditional/define
v2: drop trailing endif (Jon)

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 1ef65692258136d6e36d0df9d6c5efad9877c9ceb
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:27 2017 +0100

os: make MitGenerateCookie() independent of XCSECURITY

Analogous to previous commit.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 292ee7151631cabb928847a5a2ca47e14a06b75
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:26 2017 +0100

os: make GenerateRandomData() independent of XCSECURITY

The function itself does not depend on the macro. Move it outside of the ifdef guard and remove the identical copy in XWIN.

This is step 1 towards removing the duplication in winauth.c and moving the OS specifics to os/

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 8ae1f40eaa3527c90698d6826ce8314b8b5a92a
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Tue Aug 22 11:48:25 2017 +0100

xwin/glx: remove unused __GLXWinScreen::glx_enable_bits

All the relevant code already uses the ::base::glx_enable_bits one.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 43878fa8772d8642f601d65e78d2f702ecc0de41
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 16 14:49:18 2017 -0400

glx: Remove some unused stuff from glxserver.h
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3d81abba9ca2f9d57b4c293e3b7fcb32ef853f44
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 16 14:49:17 2017 -0400

glx: Inline some reply swapping code

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 51bab63b7353319c51ec2f1adaed95d86e4f6119
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 16 14:49:16 2017 -0400

glx: Remove True/False defines

Those are xlib spellings, we say TRUE/FALSE pretty consistently elsewhere in the server.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8e3b26ceaa86eaf98a78f6b84f46a4a86aed8ef8
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Apr 14 19:08:41 2017 +0900

Make PixmapDirtyUpdateRec::src a DrawablePtr

This allows making the master screen's pixmap_dirty_list entries explicitly reflect that we're now tracking the root window instead of the screen pixmap, in order to allow Present page flipping on master outputs while there are active slave outputs.

Define HAS_DIRTYTRACKING_DRAWABLE_SRC for drivers to check, but leave HAS_DIRTYTRACKING_ROTATION defined as well to make things slightly easier for drivers.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c52f77e4ca2cda878da341a6228e641eeec7b1a0
Author: Peter Harris <pharris@opentext.com>
Date:   Mon Aug 14 15:54:36 2017 -0400

meson: Fix epoll detection
The epoll code depends on epoll_create1, not epoll_create.

Signed-off-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 27500ee82e97ef8a6b3199c2d7b623523c1ee2c1
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jul 10 12:08:29 2017 -0700

glamor: Scissor Render composite operations to the bounds of the drawing.

Unlike the previous two fixes, this one introduces new GL calls and statechanges of the scissor. However, given that our Render drawing already does CPU side transformation and inefficient box upload, this shouldn't be a limiting factor for Render acceleration.

Surprisingly, it improves x11perf -comppixwin10 -repeat 1 -reps 10000 on i965 by 3.21191% +/- 1.79977% (n=50).

v2: Make the jump to the exit land after scissor disable.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e6ab3b1109e72a1512c6b92dd84525ad8c8052
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 6 16:15:17 2017 -0700

glamor: Scissor CopyArea to the bounds of the drawing.

Like the previous fix to rectangles, this reduces the area drawn on tiled renderers by letting the CPU-side tile setup know what tiles might be drawn at all.

Surprisingly, it improves x11perf -copypixwin1 -repeat 1 -reps 10000 on i965 by 2.93185% +/- 1.5561% (n=90).

v2: Drop extra glamor_bounds_union_box() from previous debugging (caught by Mark Marshall).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com> (v1)

commit 60cc7e367a2a5e6014f193105dafd47a4d598fd9
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 6 15:43:14 2017 -0700
glamor: Scissor rectangle drawing to the bounds of the rects.

Scissors provide a critical hint to tiled renderers as to what tiles need to be load/stored because they could be modified by the rendering.

The bounds calculation here is limited to when we have a small number of rects (large enough to cover rounded window corners, but probably not xeyes) to avoid overhead on desktop GL.

No performance difference on i965 with x11perf -rect1 -repeat 1 -reps 10000 (n=50)

v2: Clamp rectangle bounds addition.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f2110157713cf22c8b5c46a0d5416fdb033c27d3
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 9 15:48:27 2017 -0700

test: Remove unused ddxstubs.c

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f80119120c487581ac050ce741808f7c8f438f35
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 27 16:02:28 2017 -0400

composite: Make compIsAlternateVisual safe even if Composite is off

As of ea483af9 we're calling this unconditionally from the GLX code so the synthetic visual is in a lower select group. If Composite has been disabled then GetCompScreen() will return NULL, and this would crash.

Rather than force the caller to check first, just always return FALSE if Composite is disabled (which is correct, since none of the visuals will be synthetic in that case).

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit b06a85e7fd6ddac58dd97e5d7ce3b5ea9553c8f6
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Jul 31 14:13:48 2017 +0100
glx: remove unused GlxSetVisualConfigs stub

The function was an empty since 2008 at least. Drop it since no drivers use it any more.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commits

commit e8f190b445ae10b12896ee396cd8d57f6b6b8cc4
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 4 13:19:01 2017 -0700
	ravis: Request a new docker image with xkb-data and xkbcomp installed.

Xvfb was erroring out with:

XKB: Failed to compile keymap
Keyboard initialization failed. This could be a missing or incorrect setup of xkeyboard-config.
(EE) Fatal server error:
(EE) Failed to activate virtual core keyboard: 2(EE)

With this change, we can now run my xsync regression test on Travis.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commits

commit b62e486c4e3d7411f3e70b610af7f8b9dd5e8a73
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 4 13:19:00 2017 -0700
	ravis: Set prefix to /usr, so we find xkbcomp.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commits

commit 2d50e32e0ba1045f8c73a14335743ae98121d102
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Aug 1 13:11:25 2017 -0700

meson: Fix xwayland build since xwayland-keyboard-grab.

The version detect was erroring out with 1.9 protos installed, and we weren't building the new code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0a448d133f4f1c913b1c2cb05accff31c74a3dbf
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Jul 12 11:51:08 2017 +0200

xwayland: Add grab protocol support

The keyboard grabbing protocol for Xwayland is included in
wayland-protocol 1.9.

Update the wayland-protocol required version in both configure and meson
builds and add support for this new protocol in Xwayland.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit abe49b009064c38823fac17c373fd5f1a390b3ab
Author: Jan Beich <jbeich@freebsd.org>
Date:   Fri Jul 7 19:59:05 2017 +0200

dix: unbreak --with-dtrace (default) on FreeBSD 11.1+

gmake[2]: Entering directory '/path/to/xserver/dix'
/usr/sbin/dtrace -G -C -o dtrace-dix.o -s ../dix/Xserver.d .libs/atom.o ...
dtrace: failed to compile script ../dix/Xserver.d: line 26: useless declaration
gmake[2]: *** [Makefile:1007: dtrace-dix.o] Error 1

Signed-off-by: Jan Beich <jbeich@FreeBSD.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit c967e4cd8ba50034b6e02d87df10d04edf15ccf6
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Jul 31 14:06:48 2017 +0100

glx: don't export __glXDRISWRastProvider

The symbol is used only internally and is not part of the API/ABI.

Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit c09e906d61a0855a8202e58ba72ed6bb3b08f37f
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Mon Jul 31 14:06:47 2017 +0100

glx: fix typo becuase -> because
glx: Allow arbitrary context attributes for direct contexts

For direct contexts, most context attributes don't require any particular awareness on the part of the server. Examples include GLX_ARB_create_context_no_error and GLX_ARB_context_flush_control, where all of the behavior change lives in the renderer; since that's on the client side for a direct context, there's no reason for the X server to validate the attribute.

The context attributes will still be validated on the client side, and we still validate attributes for indirect contexts since the server implementation might need to handle them. For example, the indirect code might internally use ARB_context_flush_control for all contexts, in which case it would need to manually emit glFlush when the client switches between two indirect contexts that didn't request the no-flush attribute.

xfree86: Fix X -configure driver sort yet again

There were two bugs here: The comparison function was not stable when one or more of the drivers being compared is a fallback, and the last driver in the list would never be moved.

modesetting: Fix PCI initialization on non-zero domains

libdrm's busid matching for the legacy three-integer bus string format simply ignores the domain number, rather than what we were doing here of
packing the domain into the bus number. Whatever, just use the existing code to build a busid string, since that gets the domain right.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d16133e3e293fe16b291114d344fbd5a61d5ed65  
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>  
Date:   Thu Jul 20 19:48:26 2017 -0700  

-glx: Only include compositeext.h if COMPOSITE is supported  

Regressed-in: ea483af99a6351323afe0a0b630cd63310ed6b1  
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>  

commit dd0b721e977e88d7c3830cc2a672c2793bca4fa0  
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>  
Date:   Tue Jul 18 21:35:49 2017 -0700  

-XQuartz: Hack around an issue that can occur on macOS due to background apps incorrectly stealing focus  

Works around <rdar://problem/7150340>.  

Tested-by: Martin Otte <martinjotte@gmail.com>  
Tested-by: Tom Lane <tgl@sss.pgh.pa.us>  
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>  

commit 211e05ac85a294ef361b9f80d689047fa52b9076  
Author: Michal Srb <msrb@suse.com>  
Date:   Fri Jul 7 17:21:46 2017 +0200  

-Xi: Test exact size of XIBarrierReleasePointer  

Otherwise a client can send any value of num_barriers and cause reading or swapping of values on heap behind the receive buffer.  

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit abb031e731f5c159add1b3351de9c4bb121bf00a  
Author: Rodrigo Vivi <rodrigo.vivi@intel.com>  
Date:   Thu Jun 29 13:29:58 2017 -0700  

dri2: Sync i965_pci_ids.h from Mesa.  

Copied from Mesa with no modifications.  

Gives us Coffee Lake and Cannon Lake PCI IDs.  

Signed-off-by: Rodrigo Vivi <rodrigo.vivi@intel.com>
Acknowledged by: Kenneth Graunke <kenneth@whitecape.org>

commit 05a4396f08c83d9261b8ad16908d9e2730bd4bbf
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Thu Jun 29 02:17:06 2017 +0100

glamor: update "required EGL extensions" comment

The extensions listed have not been needed in a while. Replace with the only remaining requirement.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.velikov@collabora.com>

commit 04511a0476b5c860e7d157b01080dff94d935f74
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jun 29 10:32:00 2017 -0400

wayland: Sync drm.xml with Mesa

... where it is named src/egl/wayland/wayland-drm/wayland-drm.xml and has its requests sorted by protocol version number, avoiding a warning from wayland-scanner.

Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ce393de0e9f8626d15f3b97c97916971a6aefebd
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Jun 23 09:29:13 2017 +1000

modesetting: handle NULL cursor in drmmode_set_cursor.

We had a bug reported with a touchscreen where we could end up in here with a NULL cursor, so let's not crash the X server.

Reviewed-and-Tested-by: Daniel Martin <consume.noise@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 43527d31810fe94a5eb4b2543bb88eb26b1654b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jul 4 06:51:58 2017 +1000

xfree86: link to libinput(4) from the xorg.conf man page

Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
commit edaad0eff48219787d27f7723cd3d4d9b293de96
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 29 13:57:37 2017 -0400

    automake: Add hw/xfree86/xkb/meson.build to EXTRA_DIST

    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 06419a5b17180126d2507c8699229e07f5b2c434
Author: Emil Velikov <emil.velikov@collabora.com>
Date:   Thu Jun 29 01:55:25 2017 +0100

    glamor: remove no longer needed KHR_gl_texture_2D_image requirement

    The code that needed it was introduced with commit 7cfd9cc2327 ("Add
    DRI3 support to glamor") back in 2013. And was nuked a couple of years
    ago with commit 51984dddfcc ("glamor: Delay making pixmaps shareable
    until we need to.")

    Signed-off-by: Emil Velikov <emil.velikov@collabora.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

commit 47a7b63f7455eaeacb634fd800e924f2087dacbd
Author: Jon TURNEX <jon.turney@dronecode.org.uk>
Date:   Mon Jun 26 14:54:06 2017 +0100

    meson: Use --export-all-symbols when building PE/COFF objects

    Reviewed-by: Adam Jackson <ajax@redhat.com>

commit b34abb3d2da46339d59a0feefd2240790a6a6a0e
Author: Jon TURNEX <jon.turney@dronecode.org.uk>
Date:   Mon Jun 26 14:54:05 2017 +0100

    meson: Shuffle around subdirs so we build Xorg loadable modules after Xorg

    Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fbdd73fac68383c93f6f5c6a7615860503039999
Author: Jon TURNEX <jon.turney@dronecode.org.uk>
Date:   Mon Jun 26 14:54:04 2017 +0100

    Move statically linked xorgxkb files from dixmods to a separate directory

    [ajax: Fixed test/Makefile.am as well]

    Reviewed-by: Adam Jackson <ajax@redhat.com>
xfree86: Move DRICreatePCIBusID to xf86Pci.h

xf86str.h is parsed into sdksyms unconditionally but the symbol is only defined when building with PCI support. Move the decl to a header that sdksyms only parses when building PCI support.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 525db17e04d5cabaeefd20e38cebe7d606047a76
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:52 2017 -0400

glx/drisw: Use scratch GCs for swrastPutImage

The scratch GC defaults to the same state as our persistent GCs. Except for the "draw" GC, which would generate graphics exposures for... well, no reason really, PutImage doesn't generate graphics exposures.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ecc5e362985d1f649e29ac5f93be19851eaf7d87
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:51 2017 -0400

glx/drisw: Remove unused glx_enable_bits

Sloppy of me!

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit a6c23ef31a4e5aea19ddabdf4a0760f4c48f1ebe
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:50 2017 -0400

glx/dri2: Don't chirp when falling back to software

This isn't an error if the screen isn't accelerated in the first place.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>
commit 0b1831d043028f7dd6accca19a81e2abd9a145b5
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:49 2017 -0400

glx: Remove some indirection around EXT_texture_from_pixmap

      Signed-off-by: Adam Jackson <ajax@redhat.com>
      Reviewed-by: Keith Packard <keithp@keithp.com>

commit c33541e59e338cd53f89d94a6898555d350e84aa
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:48 2017 -0400

glx: Remove __glXReply

      Static data bad, hulk smash.

      Signed-off-by: Adam Jackson <ajax@redhat.com>
      Reviewed-by: Keith Packard <keithp@keithp.com>

commit d6db66811643d3762716f6b144a7358572216a4f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:47 2017 -0400

dmx: Remove some not-very-interesting debug prints

      gcc/glibc think the snprintf in dmxExecOS() might truncate. Yes, it
      might, and we also don't care. Just delete all this.

      Signed-off-by: Adam Jackson <ajax@redhat.com>
      Acked-by: Keith Packard <keithp@keithp.com>

commit 17ad6e5d5616039021455bc821d6ee2497f7ebde
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 16 15:44:46 2017 -0400

dmx: Silence an unused-result warning

      Modern glibc is very insistent that you care about whether write()
      succeeds:

      ../hw/dmx/input/usb-keyboard.c: In function 'kbdUSBCtl':
      ../hw/dmx/input/usb-keyboard.c:292:9: warning: ignoring return value of 'write', declared with attribute
      warn_unused_result [-Wunused-result]
      write(priv->fd, &event, sizeof(event));
      ^~~~~~~~~~~~~~~~~~~~~~~~~~
xfree86: Move DRICreatePCIBusID to the PCI code

This symbol is used by some DRI2+ drivers and there's nothing DRI1-specific about it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit b723da8390d2fe1bf048247302416b37972a0cc3
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 16 15:44:43 2017 -0400

xfree86: Remove unused xf86EnableVTSwitch

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit f44e0af4daaad5b18d79f2076be98d6e79f638af
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 16 15:44:42 2017 -0400

dix: Remove extension aliases

This appears to be essentially unused. The only known client-side library for the SELinux extension is xcb, which does not look for the name "Flask". The "SGI-GLX" alias for GLX appears to be a bit of superstition at this point, NVIDIA's driver does not expose it and Mesa does not check for it.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>

commit 88e807d4fa90165868929190f601beef18252f57
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 16 15:44:41 2017 -0400

include: Remove some unused macros

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit d2e57f71ad16f1e677dd542a8be0db87dfa9791d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Jun 19 19:05:32 2017 +0900

xfree86: Document BusID PCI domain format in ddxDesign.xml

   Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
   Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 3b0fd9421add9f0ca8958ced0f39b2da21143c22
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Jun 19 19:05:31 2017 +0900

xfree86: Document BusID PCI domain format in xorg.conf manpage

   Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
   Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 8e00dc59b51da7e0d3978c26b1884c4767aa2dc2
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Jun 19 19:05:30 2017 +0900

xfree86: Fix printing of PCI domain/bus in xf86MatchPciInstances

   It was attempting to use the <bus>@<domain> format accepted by the BusID
   stanza, but the two values were swapped.

   Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
   Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit e905b19a53f96013c4417bec993a1dea5a3b0a5f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Jun 19 19:05:29 2017 +0900

xfree86: Print BusID stanza compatible bus IDs for found devices

   The PCI domain has to be specified like this:

   "PCI:<bus>@<domain>::<device>::<function>"

Example before:

   (-- ) PCI:*0:0:1:0) 1002:130f:1043:85cb [...]
   (-- ) PCI: (0:1:0:0) 1002:6939:1458:229d [...]

after:

   (-- ) PCI:*0@0:1:0) 1002:130f:1043:85cb [...]

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33145
meson: Make VBE and VGAHW modules optional

Don't build them on platforms where they aren't meaningful.

Note that autoconf defines WITH_VGAHW when building the VGAHW module, but that doesn't seem to be used anywhere, so we just drop that.

meson: Restore stub ossupport

Don't build BSD ossupport when there is no specific support, build stubs

xfree86/modes: Use RRTransformEqual in xf86RandR12CrtcSet

The memcmp didn't catch when e.g. only the filter changed. Tested by alternately running

xrandr --output DVI-I-0 --scale-from 3840x2160 --filter bilinear
xrandr --output DVI-I-0 --scale-from 3840x2160 --filter nearest

Reviewed-by: Aaron Plattner <aplastner@nvidia.com>
randr: Use RRTransformEqual in RRCrtcPendingTransform

Currently, RRCrtcPendingTransform returns false unless the transformation matrix itself is changing. This makes RRCrtcSet skip doing anything if the only thing that is changing is the transform filter.

There's already a function for comparing RRTransformPtrs, so use that instead.

Tested by running

xrandr --output DP-1 --mode 1920x1080 --rate 144 --scale 0.5x0.5 --filter nearest

followed by

xrandr --output DP-1 --mode 1920x1080 --rate 144 --scale 0.5x0.5 --filter bilinear

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit ba336b24052122b136486961c82deac76bbde455
Author: Michal Srb <msrb@suse.com>
Date:   Wed May 24 15:54:42 2017 +0300

Xi: Do not try to swap GenericEvent.

The SProcXSendExtensionEvent must not attempt to swap GenericEvent because it is assuming that the event has fixed size and gives the swapping function xEvent-sized buffer.

A GenericEvent would be later rejected by ProcXSendExtensionEvent anyway.

Signed-off-by: Michal Srb <msrb@suse.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8caed4df36b1f802b4992edcfed282cbbeec35d9d
Author: Michal Srb <msrb@suse.com>
Date:   Wed May 24 15:54:41 2017 +0300

Xi: Verify all events in ProcXSendExtensionEvent.

The requirement is that events have type in range EXTENSION_EVENT_BASE..lastEvent, but it was tested only for first event of all.

Signed-off-by: Michal Srb <msrb@suse.com>
dix: Disallow GenericEvent in SendEvent request.

The SendEvent request holds xEvent which is exactly 32 bytes long, no more, no less. Both ProcSendEvent and SProcSendEvent verify that the received data exactly match the request size. However nothing stops the client from passing in event with xEvent::type = GenericEvent and any value of xGenericEvent::length.

In the case of ProcSendEvent, the event will be eventually passed to WriteEventsToClient which will see that it is Generic event and copy the arbitrary length from the receive buffer (and possibly past it) and send it to the other client. This allows clients to copy uninitialized heap memory out of X server or to crash it.

In case of SProcSendEvent, it will attempt to swap the incoming event by calling a swapping function from the EventSwapVector array. The swapped event is written to target buffer, which in this case is local xEvent variable. The xEvent variable is 32 bytes long, but the swapping functions for GenericEvents expect that the target buffer has size matching the size of the source GenericEvent. This allows clients to cause stack buffer overflows.

Xi: Zero target buffer in SProcXSendExtensionEvent.

Make sure that the xEvent eventT is initialized with zeros, the same way as in SProcSendEvent.

Some event swapping functions do not overwrite all 32 bytes of xEvent structure, for example XSecurityAuthorizationRevoked. Two cooperating clients, one swapped and the other not, can send XSecurityAuthorizationRevoked event to each other to retrieve old stack data from X server. This can be potentialy misused to go around ASLR or stack-protector.
travis: Enable ccache.

We bind-mount the cache directory into the container. Cuts build time from about 4 minutes to 2.

travis: Add a build script for Travis CI.

This currently does a meson build using a docker image I've prepared. The Dockerfile source is at:

https://github.com/anholt/xserver-travis

Docker proved to be necessary to cut the build time per Travis push. If some day we end up using meson in more of the X stack, we may be able to move more dependencies out of the docker image and into the CI build (putting the I in CI). Until then, we'll have to do docker image rebuilds when dependencies are added/updated.

To enable Travis CI on your github repository, see the first two steps of the docs at:

https://docs.travis-ci.com/user/getting-started/

Once you do that, pushing branches to your github repo will trigger builds, which will send you email if they fail. Current build status can be viewed on your account on travis-ci.org:

https://travis-ci.org/anholt/xserver

meson: Fix test for whether we've built glamor- EGL.
This matches the test we use for going into the glamor_egl subdir in
./meson.build.

commit 75bf302ed20f4b9794f71f84c1da2b9fcd689356
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 2 09:12:41 2017 -0700

dmx: Remove includes of glxtokens.h

Our top-level glx.h include already provides all of the tokens we use,
and fixes redefinition warnings in the meson build.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit f3689f637f5ac0fb6c231a470e65b39aa5e9ba20
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 17 09:57:29 2017 -0700

os: Set oc->fd to -1 when connection is closed

This ensures that we don't use the now-closed file descriptor in the
future.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d05c754e1bde895589fb514d8f518afeccebc05
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 17 09:57:28 2017 -0700

os: Check oc->trans_conn before using oc->fd in YieldControlNoInput

oc->trans_conn is set to NULL when the connection is closed. At this
point, oc->fd is no longer valid and shouldn't be used. Move
dereference of oc->fd up into YieldControlNoInput where the state of
oc->trans_conn can be checked in a single place.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 448a5586e9235bee9648d89e4103ed48e6237c15
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 17 09:57:27 2017 -0700

os: Don't call ospoll_listen/ospoll_mute after connection is closed
In set_poll_client, check oc->trans_conn to make sure the connection is still running before changing the ospoll configuration of the file descriptor in case some other bit of the server is now using this file descriptor.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 523d35e3e1c703a655386f6348a4bf4291c3969
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 17 09:57:26 2017 -0700

os: Use CloseDownFileDescriptor from AbortClient, including ospoll_remove

AbortClient performs most of the same operations as CloseDownFileDescriptor except that it doesn't call ospoll_remove, leaving that unaware that the file descriptor has been closed.

If the file descriptor is re-used before the server comes back around to clean up, and that new file descriptor is passed to SetNotifyFd, then that function will mistakenly re-interpret the stale ClientPtr returned by ospoll_data as a struct notify * instead and mangle data badly.

To fix this, the patch does:

1) Change CloseDownFileDescriptor so that it can be called multiple times on the same OsCommPtr. The calls related to the file descriptor are moved inside the check for trans_conn and oc->trans_conn is set to NULL after cleaning up.

2) Move the XdmcpCloseDisplay call into CloseDownFileDescriptor. I don't think the actually matters as we just need to know at some point that the session client has exited. Moving it avoids the possibility of having this accidentally trigger from another client with the same fd which closes down at around the same time.

3) Change AbortClient to call CloseDownFileDescriptor. This makes sure that all of the fd-related clean up happens in the same way everywhere, in particular ensures that ospoll is notified about the closed file descriptor at the time it is closed and not some time later.

Debian-bug: https://bugs.debian.org/862824
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5d941cc0b30399d505b48bf894c95cc3023bbe
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 17 09:57:25 2017 -0700

os: Eliminate ConnectionTranslation

This infrastructure is no longer read, only written; the mapping from fd to client is now handled by ospoll.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c86fc56b10b603b41ae37057eedfa9c86b609752
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 12 17:46:51 2017 -0700

glamor: Clarify variable names in glamor_copy_cpu_fbo

This function creates a temporary pixmap to hold data being moved from the source to the destination. However, it labeled all of the variables associated with this as src_, which makes it confusing to read the code. Rename them tmp_ instead. Also fix the comment describing the function to note that it copies from CPU to GPU, not GPU to GPU.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit ffda82ed04d28feae2e001dbd0c32d6c795d90b1
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Jun 6 18:42:06 2017 +0900

glamor: Fix temporary pixmap coordinate offsets

The previous values happened to work in basic cases, but not in general if the destination is a subwindow or has a border.

Fixes crash with xli, which moves a large subwindow inside a smaller parent window for scrolling.

No regressions with xterm, x11perf -copyplane or the xscreensaver phosphor hack.

Bug: https://bugs.debian.org/857983
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d4995a3936ae283b9080fdaa0905dda669ebacfc
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 12 14:43:23 2017 -0400
modesetting: Validate the atom for enum properties

The client could have said anything here, and if what they said doesn't actually name an atom `NameForAtom()` will return NULL, and `strcmp()` will be unhappy about that.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7c7a540f1e1d6b5466e1e9aa28476a2d7273d5ed
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Fri Jun 9 16:02:07 2017 -0700

xwayland: Implement tablet_tool_wheel for scrolling

The 'tablet_tool_wheel' function for tablet scrolling was added back in 8a1defcc634 but left unimplemented. This commit fills in the necessary details, using the "clicks" count as the number of discrete scroll up/down events to send.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fbc9814975fe82be25becf1a55d4f8d34298a956
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Fri Jun 9 16:02:06 2017 -0700

xwayland: Correct off-by-one error in tablet button numbering

The 'tablet_tool_frame' function treats the button masks as though they are zero-indexed, but 'tablet_tool_button_state' treats them as one-indexed. The result is that an e.g. middle click event recieving from Wayland will be sent from the X server as a right-click instead.

Fixes: 773b04748d0 ("xwayland: handle button events after motion events")
Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d5e2f271ad93e50412ff3605fb25cb9622f437e0
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Sun May 28 15:56:22 2017 +0200

xwayland: Remove two unused proc pointers.

Xwayland doesn't override these, so we don't need defining those
in the xwl_screen struct.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 95febc42cadf392a888104ad6d5cf4f34fdde7d5
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Sun May 28 15:56:21 2017 +0200

Xi: Use WarpPointerProc hook on XI pointer warping implementation

Just like we do with XWarpPointer's.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ca17f3e9fd3b59fdc5ffd0e5d78e4db6ddc87aa1
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Sun May 28 15:56:20 2017 +0200

xwayland: Lock the pointer if it is confined and has no cursor

In the typical pattern in games of "hide cursor, grab with a confineTo, warp constantly the pointer to the middle of the window" the last warping step is actually rather optional. Some games may choose to just set up a grab with confineTo argument, and trust that they'll get correct relative X/Y axis values despite the hidden cursor hitting the confinement window edge.

To cater for these cases, lock the pointer whenever there is a pointer confinement and the cursor is hidden. This ensures the pointer position is in sync with the compositor's when it's next shown again, and more importantly resorts to the relative pointer for event delivery.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 513e3bd3870fadb8a8e8e2e52c0fa93872300bc8b
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Sun May 28 15:56:19 2017 +0200

xwayland: Update root window size when desktop size changes

This fixes grabs on InputOnly windows whose parent is the root window failing with GrabNotViewable. This is due to window->borderSize/windowSize
being computed as clipped by its parent, resulting in a null region.

Setting up the right size on the root window makes the InputOnly size correct too, so the GrabNotViewable paths aren't hit anymore.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fafdb0cc9697eb53635ed1e78bec1d4cd87ab3a2
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Sun May 28 15:56:18 2017 +0200

xwayland: "Accept" confineTo on InputOnly windows

Of sorts, actually make it confine to the pointer focus, as the InputOnly window is entirely invisible to xwayland accounting, we don't have a xwl_window for it.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c217fcb4c4640ffdf2feee63c6fcd7ea5e64b942
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Sun May 28 15:56:17 2017 +0200

xwayland: Allow pointer warp on root/None window

Of sorts, as we can't honor pointer warping across the whole root window coordinates, peek the pointer focus in these cases.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f065721e6fa6e9057cca4eadaf145a4dc22a08d2
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Sun May 28 15:56:16 2017 +0200

dix: assume warping on the RootWindow always happens on visible coords

If the root window borderClip region is null, the PointInWindowIsVisible() check fails if pointer warping is attempted on the root window, making the warping operation bail out early.

Assume coordinates always lay inside the root window for this case, the actual position will be clamped later within screen coordinates anyway.
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7c88977d338a01aca866e52c9e736f8857fb9ae4
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri May 26 12:30:13 2017 +0900

glamor: Store the actual EGL/GLX context pointer in lastGLContext

Fixes subtle breakage which could sometimes trigger after a server reset
with multiple screens using glamor:

Screen A enters glamor_close_screen last and calls various cleanup
functions, which at some point call glamor_make_current to make sure
screen A's GL context is current. This sets lastGLContext to screen A's
&glamor_priv->ctx. Finally, glamor_close_screen calls
glamor_release_screen_priv, which calls free(glamor_priv).

Later, screen B enters glamor_init, which allocates a new glamor_priv.
With bad luck, this can return the same pointer which was previously
used for screen A's glamor_priv. So when screen B's glamor_init calls
glamor_make_current, lastGLContext == &glamor_priv->ctx, so MakeCurrent
isn't called for screen B's GL context, and the following OpenGL API
calls triggered by glamor_init mess up screen A's GL context.

The observed end result of this was a crash in glamor_get_vbo_space
because glamor_priv->vbo didn't match the GL context, though there might
be other possible outcomes.

Assigning the actual GL context pointer to lastGLContext prevents this
by preventing the false negative test in glamor_make_current.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit d164c1085069c96fd46c8441efdf40940b06dfc0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu May 25 16:19:35 2017 +0900

xfree86: Add Option "PreferCloneMode"

When the default behaviour was changed from clone mode to horizontal
extended layout, a boolean ScrnInfoRec member preferClone was introduced
to choose the old default behaviour. Option "PreferCloneMode" allows
setting this preferClone member.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 87db150d8a572d8983a234663aaaaab9cb8b6c98d
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jun 1 10:07:55 2017 -0700

   glamor: Remove the "delayed fallback" code.
   The usage of this died with the old core rendering code.

   Signed-off-by: Eric Anholt <eric@anholt.net>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit ?2ddad7a977fa062bf9967d221c9a5520ebe33352
Author: Eric Anholt <eric@anholt.net>
Date:   Wed May 17 11:36:07 2017 -0700

   glamor: Drop glamor_set_screen_pixmap().
   All that was left here was updating the FBO's size. However, the FBO
   size was always set correctly already through
   glamor_setPixmapTexture() from whoever had attached a new BO to the
   pixmap.

   Signed-off-by: Eric Anholt <eric@anholt.net>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit 49b12cb7360608b14caef5fach12f146d0bd15e6
Author: Eric Anholt <eric@anholt.net>
Date:   Wed May 17 11:33:16 2017 -0700

   glamor: Stop tracking the screen_fbo.
   This means we no longer get "s" for on-screen drawing in glamor_debug,
   and there's only "m" (CPU memory) or "f" (Any GPU memory, aka FBOs).
   That seems fine to me.

   Signed-off-by: Eric Anholt <eric@anholt.net>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit fd0d2523a33620b36cd478925ddac5cf70f9e409
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 9 15:33:21 2017 -0700

   glamor_egl: Stop saving the EGL major/minor version.
   We don't use them for anything.
Add meson.build for XWin server (v2)

This needs a meson with PRs #1784, #1792 and #1794

Future work: remove conditionals which are always on, and simplify redundant CYGDEBG conditionals

Don't unconditionally include rootless.h

Don't unconditionally include rootless.h, and so we don't need to add rootless to the include path unless building MWEXTWM.

meson: Fix enabling of xshmffence.

I misspelled the enable flag, so DRI3 would throw BadImplementation when you tried to start any GL app. Same as in c7be7a688a78a34f61b90c0d95914e14b90b0c, we also convert it to #ifdef for consistency.
xwayland: Don't load extension list more than once

When running an Xwayland server from the command line, we end up resetting the server every time all of the clients connected to the server leave. This would be fine, except that xwayland makes the mistake of unconditionally calling LoadExtensionList(). This causes us to setup the glxExtension twice in a row which means that when we lose our last client on the second server generation, we end up trying to call the glx destructors twice in a row resulting in a segfault:

(EE)
(EE) Backtrace:
(EE) 0: Xwayland (OsSigHandler+0x3b) [0x4982f9]
(EE) 1: /lib64/libpthread.so.0 (__restore_rt+0x0) [0x70845bf]
(EE) 2: /usr/lib64/dri/swrast_dri.so (__driDriverGetExtensions_virtio_gpu+0x32897d) [0x1196e5bd]
(EE) 3: /usr/lib64/dri/swrast_dri.so (__driDriverGetExtensions_virtio_gpu+0x328a45) [0x1196e745]
(EE) 4: /usr/lib64/dri/swrast_dri.so (__driDriverGetExtensions_virtio_gpu+0x32665f) [0x11969f7f]
(EE) 5: Xwayland (__glXDRIscreenDestroy+0x30) [0x54686e]
(EE) 6: Xwayland (glxCloseScreen+0x3f) [0x5473db]
(EE) 7: Xwayland (glxCloseScreen+0x53) [0x5473ef]
(EE) 8: Xwayland (dix_main+0x7b6) [0x44c8c9]
(EE) 9: Xwayland (main+0x28) [0x61c503]
(EE) 10: /lib64/libc.so.6 (__libc_start_main+0xf1) [0x72b1401]
(EE) 11: Xwayland (__start+0x2a) [0x4208fa]
(EE) 12: ? (?+0x2a) [0x2a]
(EE)
(EE) Segmentation fault at address 0x18
(EE)
Fatal server error:
(EE) Caught signal 11 (Segmentation fault). Server aborting
(EE)

Easy reproduction recipe:
- Start an Xwayland session with the default settings
- Open a window
- Close that window
- Open another window
- Close that window
- Total annihilation occurs
 xfree86: Fix interpretation of xf86WaitForInput timeout

Commit aa6717ce2 switched xf86WaitForInput from using select(2) to using poll(2). Before this change, the timeout was interpreted as being in microseconds; afterwards it is fed directly to xorg_poll which interprets it as being in milliseconds. This results in the function potentially blocking 1000x longer than intended. This commit scales down the timeout argument before passing it to xorg_poll, being careful to ensure the result is not rounded down due to integer division.

 xfree86: up the path name size to 512 in xf86MatchDriverFromFile

../hw/xfree86/common/xf86pciBus.c: In function ‘xf86MatchDriverFromFile’: 
../hw/xfree86/common/xf86pciBus.c:1330:52: warning: ‘snprintf’ output may be truncated before the last format character [-Wformat-truncation=]
  snprintf(path_name, sizeof(path_name), "%s/%s", ^~~~~~~ 
../hw/xfree86/common/xf86pciBus.c:1330:13: note: ‘snprintf’ output between 2 dirent->d_name is 256, so sprintf("%s/%s") into a 256 buffer gives us:

and 257 bytes into a destination of size 256

 fb: remove some superfluous empty lines
commit 933d80ba93cf9b5d32ce8673d60810c128debdab
Author: Adam Jackson <ajax@redhat.com>
Date: Thu May 18 11:19:53 2017 -0400

misprite: Clean up some preprocessor abuse

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 57c223002c61c8ceb84fa7a02a3c1579517996f3
Author: Adam Jackson <ajax@redhat.com>
Date: Thu May 18 11:19:52 2017 -0400

misprite: Remove some dead cache variables

Unused since Keith ported misprite to damage in '04.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d0675e96f1fc8501324c88afa648a9d394f35587
Author: Eric Anholt <eric@anholt.net>
Date: Tue May 16 11:37:23 2017 -0700

glamor_egl: Drop glamor_egl_create_textured_screen_ext().

The function hasn't been doing anything useful since keithp's resource
freeing fixes in 2014.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit c36f56808ffbefc4a3dcf61dfad17f62aeb8e16c
Author: Eric Anholt <eric@anholt.net>
Date: Wed May 17 17:06:44 2017 -0700

glamor_egl: Automatically choose a GLES2 context if desktop GL fails.

GLE2 support has been requested multiple times, and we've had this
code laying around trying to implement it. The GLES2 implementation
is not quite there yet (some pixel transfer failures), but it
shouldn't take much fixing at this point.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
commit f6bf5f1c7475ff1b19b0e8c3e71c1224d5b6bc82
Author: Eric Anholt <eric@anholt.net>
Date:   Wed May 17 17:06:43 2017 -0700

    glamor_egl: Remove check for KHR_surfaceless_context_*

Those extensions don't exist. There's only surfaceless_context.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 6e793ae08510639d011f638bcfc5246b9eccd1ae
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:21 2017 -0700

    glamor_egl: Drop warning about indirect GLX and GLES2.

Indirect GLX uses its own context and doesn't care what glamor is using.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit 59de50d6ef3331ee03eb82d4acba45aa75c70d42
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:20 2017 -0700

    glamor_egl: Avoid flink names in glamor_egl_create_textured_pixmap().

Using flink is banned on render nodes, and they needlessly expose our screen pixmap contents to any authenticated client. This also incidentally drops the dependency on EGL_MESA_drm_image.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit 5d6f17d913bd4de0b4594585c0a8ba4f717a2a78
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:19 2017 -0700

    glamor_egl: Drop dead "cpp" field

It's been unused since the initial import.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit 37618e810b70c24bb8a97dce844963ed1a99f897
glamor_egl: Drop dead gl_context_depth.

This was replaced in 4afe15d8bfdf575c010ed1868697a7922a37ab378, but not deleted.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit a6a751e5d8962b01abc2a92ec35300f68eb38d94
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:17 2017 -0700

glamor_egl: Drop unnecessary check for KHR_gl_renderbuffer_image.

I couldn't find it being used anywhere in the history of the code.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 40a153ee452390f7137e5638af320a70defe106
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:16 2017 -0700

glamor_egl: Always require the gbm-based image import path.

This has been associated with dri3 for now, but we need to use it elsewhere in order to avoid flink. The extensions have been implemented for long enough that I couldn't find when it was that we turned them on. Oddly, we already required renderbuffer import support, which is basically as hard to implement as texture import.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Daniel Stone <daniels@collabora.com>

commit b1b71b7a8b2d2c5d8f4afa67b75d10d4e7cbaa20
Author: Eric Anholt <eric@anholt.net>
Date:   Tue May 16 11:37:15 2017 -0700

glamor_egl: Drop the has_gem flag.

We're using GBM, so we know we've got GEM.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
modesetting: Drop code for GLAMOR && !GLAMOR_HAS_GBM.

The glamor_egl module that the GLAMOR paths are using is only built if GLAMOR_HAS_GBM is true, and there's no plan for implementing the module without GBM. Simplify modesetting's code as a result.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

glamor_egl: Unifdef GLAMOR_HAS_GBM.

We only build this code with GBM, and supporting non-GBM well would be invasive.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

glamor_egl: Print a useful identifying string on initialization.

The EGL version is not used anywhere in the glamor code, so it's not interesting. And when saying that we've started using GL acceleration, it's nice to know what GL we're actually using.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

hw/xwin: Fix -Wunused-function warning for MessageName() in non-debug builds

../hw/xwin/winmultiwindowwm.c:188:1: warning: ‘MessageName’ defined but not used [-Wunused-function]

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit e49f5947e4a578d8b029f42fb4ec9c90f413b4b3
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Apr 18 10:45:07 2017 +0100

hw/xwin: Fix -Wmaybe-uninitialized warnings in engine CloseScreen wrappers

../hw/xwin/winshadgdi.c: In function ‘winCloseScreenShadowGDI’:
../hw/xwin/winshadgdi.c:632:12: warning: ‘fReturn’ may be used uninitialized in this function [-Wmaybe-uninitialized]
../hw/xwin/winshadgdi.c:579:10: note: ‘fReturn’ was declared here
../hw/xwin/winshaddnlnl.c: In function ‘winCloseScreenShadowDDNL’:
../hw/xwin/winshaddnlnl.c:711:12: warning: ‘fReturn’ may be used uninitialized in this function [-Wmaybe-uninitialized]
../hw/xwin/winshaddnlnl.c:661:10: note: ‘fReturn’ was declared here

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 319daa7a9fa8bdc6e8770912775af22a99
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Wed Apr 19 13:30:27 2017 +0100

hw/xwin: Fix -Wmaybe-uninitialized warning in winWindowProc

This is possibly an actual bug in failing to check we successfully retrieved the monitor size before using it to set the X screen size.

../hw/xwin/winwndproc.c: In function ‘winWindowProc’:
../hw/xwin/winwndproc.c:283:55: warning: ‘dwHeight’ may be used uninitialized in this function [-Wmaybe-uninitialized]
../hw/xwin/winwndproc.c:240:32: note: ‘dwHeight’ was declared here
../hw/xwin/winwndproc.c:281:54: warning: ‘dwWidth’ may be used uninitialized in this function [-Wmaybe-uninitialized]
../hw/xwin/winwndproc.c:240:23: note: ‘dwWidth’ was declared here

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 7a90c9b24e6776c8f1fa43df426879a465c0d4e
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Apr 18 10:32:31 2017 +0100

xfree86: Hide unused variables when !XSERVER_LIBPCIACCESS

../hw/xfree86/common/xf86Config.c: In function ‘xf86HandleConfigFile’:
../hw/xfree86/common/xf86Config.c:2278:10: warning: unused variable ‘singlecard’ [-Wunused-variable]
Signed-off-by: Jon Turney <jon.turney@droncode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 7a19a3e093a62a779c3eab8c28930adcb1604e0d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 8 10:24:34 2017 +1000

dronecode: build a shared lib identical to Xorg

Because we can use a shared lib in dlsym() for the symbol loader test, but we can't use the executable.

v2: Drop a stray ' ' and rebase on 820a4cbe9fe, by anholt

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 49c742557457ff9200a10f32daadfce50d4911c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 11 17:17:55 2017 -0400

dronecode: Fix CLOCK_MONOTONIC test

C99 isn't enough on its own to get POSIX feature sets defined.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit 152375f4e4f1ee4833129802730b36af8d0f7e1a
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 11 17:17:54 2017 -0400

os, dronecode: Stop being so weird about <limits.h>

Whatever problem this is trying to fix, we don't care. Just include the thing and stop worrying about whether _POSIX_SOURCE is defined.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan CooperSmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit d9e23ea4228575344e3b4c0443ceccc5eb75356e4
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 10 21:50:45 2017 -0700
dix: Remove clients from input and output ready queues after closing

Delay removing the client from these two queues until all potential I/O has completed in case we mark the client as ready for reading or with pending output during the close operation.

Bugzilla: https://bugs.freedesktop.org/100957
Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Nick Sarnie <commendsarnex@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit c394f6b27329d212d2a8b9b3c6da1ef7847c46f3
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu May 11 08:42:16 2017 +0200

Replace all checks for 'linux' macro with '__linux__'

gcc -std=c99 does not define the former, and it's a horrible namespace confusion anyway.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit 6634ffc4d26846dcef892f7682f9021f6d9956a9
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu May 11 08:42:15 2017 +0200

Drop workaround for pre-glibc linux

It seems unlikely anyone still needs to build against libc4/libc5.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 318257029578a30e30c191befa94a20ad07f97d4
Author: Frank Binns <frank.binns@imgtec.com>
Date:   Thu May 11 14:00:19 2017 +0100

hw/xfree86: fix comment typo

Signed-off-by: Frank Binns <frank.binns@imgtec.com>

commit 0848390d51f93ecfb9342cffe1cda46a65cfc07b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 10 11:14:57 2017 -0400
xephyr: Fix regeneration

I had said:

commit c42311a9d7d2e5a67bdb7f4fa32032b4feba59b1
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Mar 24 15:58:54 2017 -0400

kdrive: Remove KdOsFuncs

Only the Init slot was used, and Xephyr can just as easily do that initialization directly.

And I'd've been right, but I forgot to make that initialization only happen on startup (i.e. when serverGeneration == 1).

Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0ff2fb128bf35dffa302f15e9ae004b65ee0827
Author: Peter Harris <pharris@opentext.com>
Date:  Tue May 9 19:39:47 2017 -0400

meson: Detect strlcat/strlcpy/reallocarray in libbsd

If we're linking with libbsd anyway, we might as well use the functions it provides instead of compiling our replacements.

Reviewed-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit c4c002d1ca80bd69776387dafb9c5bb082c72e48
Author: Peter Harris <pharris@opentext.com>
Date:  Tue May 9 19:39:46 2017 -0400

meson: Only detect each function once

Use conf_data outside of include/ to avoid re-running detection of the same functions.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit 03d6275e6094a5ede5a70f05bbbdde653a9fd9e0
Author: Peter Harris <pharris@opentext.com>
Date:  Tue May 9 19:39:45 2017 -0400

meson: Detect more functions
Set HAVE_REALLOCARRAY, HAVE_SIGACTION, HAVE_STRCASESTR, HAVE_STRLCAT,
HAVE_STRLCPY, HAVE_TIMINGSAFE_MEMCMP, and BUSFAULT.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit ba1599610b1889545be8a9314dce8a740a2764d3
Author: Peter Harris <pharris@opentext.com>
Date: Tue May 9 19:39:44 2017 -0400

meson: Detect arc4random_buf

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit e67ca9404733e249c7b9712ce6d515310ed1e4cf9
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon May 8 11:40:22 2017 +0100

meson: An empty array is not a dependency object

Using the meson idiom of initializing a variable to an empty array to
represent a null value does not work well for a variable expected to hold a
dependency object, as trying to apply found() to it will fail (currently).

I think this can be demonstrated by configuring with Dglamor=no, then gbm_dep
is set to [] in meson.build, and then tested with found() in
include/meson.build.

Use dependency("") to create an empty dependency.

Future work: In the autotools build GBM is required if build_xorg &
build_glamor. I suspect that it was also required for build_xwayland &
built_glamor, but that was never checked. That test seems to have gone
missing in meson.build, the required:false when checking for gbm should
possibly be dropped?

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 16054647abfc9fe5f71d0098e17415e45fa28199
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon May 8 11:40:21 2017 +0100

meson: Refine build_dbus

As in autotools build, only turn on build_dbus (build dbus-core.c) if it's
needed by build_hal or build_systemd_logind, not just because dbus is available.

Building dbus-core.c without NEED_DBUS defined fails, as the contents of dbus-core.h are turned off.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Acked-by: Eric Anholt <eric@anholt.net>

commit 820a4cbe9fef36bc97a71077ccc74a785180e227a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue May 9 12:23:48 2017 +0100

meson: Make driprotos and libdrm optional

Add options for DRI{1,2,3}
shmfs is required for DRI3
libdrm is required for any DRI{1,2,3}
Consolidate calls to dependency('libdrm')
Set WITH_LIBDRM when building with libdrm

v2:
Initialize libxserver_dri3 to []
Manually flatten libxserver, since meson doesn't (currently)
Use version_compare rather than circumloctions with dependency()
meson: Remove stray whitespace

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit e9dbecf7c259f7e8b610fa93f97eaa55f5dafa7af
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 10 10:56:16 2017 -0400

timingsafe_memcmp: Fix meson build

Include dix-config.h first to pick up _GNU_SOURCE so we get the definition for sigset_t.

Reported-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5d3b6cc221aff5b9322b31aa6f5ae922271bc7d8
Author: Karol Kosik <kkosik@nvidia.com>
Date: Wed Jul 22 16:42:07 2015 -0700

xfree86: Improved autoconfig drivers matching


v2: Re-commit the patch reverted in
2388f5e583d4ab2ee12f2b087d381b64aed3f7d5, with Aaron Plattner's fix squashed in (by anholt).

Signed-off-by: Karol Kosik <kkosik@nvidia.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com> (v1)
Reviewed-by: Emil Velikov <emil1.velikov@gmail.com> (v1)
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Eric Anholt <eric@anholt.net>

commit 2388f5e583d4ab2ee12f2b087d381b64aed3f7d5
Author: Eric Anholt <eric@anholt.net>
Date: Tue May 9 13:37:59 2017 -0700
Revert "xfree86: Improved autoconfig drivers matching"

This reverts commit 112d0d701b98fb0d67910281dd1fecc125247b.

It broke Xorg for Adam, Peter, and myself, by failing hard when a module load failed.

Signed-off-by: Eric Anholt <eric@anholt.net>

commit 1dd14e7a499428cf7215b49a9319199545bcd6cb
Author: Eric Anholt <eric@anholt.net>
Date:   Mon May 8 10:36:30 2017 -0700

meson: Use link_whole() not link_with(), for the Xorg dixmods.

I clearly hadn't run ninja test, since fb no longer had any of the fb symbols in it.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a06bb73053d9df56d9070ce325a43af3a3c7a6a2
Author: Lyude <lyude@redhat.com>
Date:   Thu May 4 18:04:31 2017 -0400

xwayland: Unconditionally initialize lists in init_tablet_manager_seat()

In the event that xwayland gets launched on a wayland compositor that doesn't yet have support for wp_tablet_manager, we end up skipping the initialization of the lists. This is wrong, because regardless of whether or not a tablet is present we still attempt to traverse these lists later in xwl_set_cursor(), expecting that if the lists are empty from no tablet manager that we simply won't execute any loop iterations.

(EE)
(EE) Backtrace:
(EE) 0: Xwayland (OsSigHandler+0x3b) [0x4982f9]
(EE) 1: /lib64/libpthread.so.0 (__restore_rt+0x0) [0x7f73722545bf]
(EE) 2: Xwayland (xwl_set_cursor+0x9f) [0x429974]
(EE) 3: Xwayland (miPointerUpdateSprite+0x261) [0x4fe1ca]
(EE) 4: Xwayland (mieqProcessInputEvents+0x239) [0x4f8d33]
(EE) 5: Xwayland (ProcessInputEvents+0x9) [0x4282f0]
(EE) 6: Xwayland (Dispatch+0x42) [0x43e2d4]
(EE) 7: Xwayland (dix_main+0x5c9) [0x44c6dc]
(EE) 8: Xwayland (main+0x28) [0x61c2d3]
(EE) 9: /lib64/libc.so.6 (__libc_start_main+0xf1) [0x7f7371e9d401]
(EE) 10: Xwayland (_start+0x2a) [0x4208fa]
(EE) 11: ? (?+0x2a) [0x2a]
Fatal server error:
Caught signal 11 (Segmentation fault). Server aborting

Reproduced when trying to run upstream xwayland under fedora 25's weston package.

Signed-off-by: Lyude <lyude@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5f83b951ac7e0e6bbd766a9bb860283e32808c90
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu May 4 13:46:26 2017 +0100

meson: Fix typo in xephyr option description

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit ce6741f6ac63493d6b903f8f58b83bf571baf4b9
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu May 4 13:46:25 2017 +0100

meson: Fix typoed filename

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 492534813302ef95538f485401fbcf6eccbd0026
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu May 4 13:46:24 2017 +0100

meson: Make xf86vidmode optional

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 3b3ce4a55b0c1f83eff37fb8544156e8961f3fa3
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu May 4 13:46:23 2017 +0100

meson: Test to build xserver_poll.c was inverted

Test to build xserver_poll.c was inverted compared to autoconf. Build
xserver_poll.c if poll is missing.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@droncode.org.uk>

commit 4b7dd6d1aa53bdeee2e3fd0c0a73f6ce40495682
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 3 15:40:08 2017 -0400

Makefile.am: make 'make distcheck' verify the meson build

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 111a5615a60565f7b68a7fa69dbac3d289d80c9e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 3 15:40:07 2017 -0400

Makefile.am: add the meson files to the tarball

While we're shipping both build systems, we'll likely have 'make dist' generated tarballs - those tarballs should be buildable with meson to have more exposure. List them all explicitly since the list isn't likely to change much.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Eric Engestrom <eric@engestrom.ch>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 11c133aaf63c776bde502057243d67fe2c630c8
Author: Eric Anholt <eric@anholt.net>
Date:   Wed May 3 15:33:46 2017 -0700

meson: Fix kdrive build.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b7376fb933ac1b0c1771535c14cf77029ecbc7f5
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 24 15:58:55 2017 -0400

kdrive: Remove dead slots from KdCardFuncs

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit c42311a9d7d2e5a67bdb7f4fa32032b4feba59b1
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 24 15:58:54 2017 -0400

kdrive: Remove KdOsFuncs

Only the Init slot was used, and Xephyr can just as easily do that initialization directly.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c0375dced38674ed98562529530d89ff02c48100
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 24 15:58:53 2017 -0400

kdrive: static and dead code cleanup

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d732c36597fab2e9bc4f2aa72cfd1110997697557
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 27 14:45:25 2017 -0400

xfree86: Silence a new glibc warning

glibc would like to stop declaring major()/minor() macros in <sys/types.h> because that header gets included absolutely everywhere and unix device major/minor is perhaps usually not what's expected. Fair enough. If one includes <sys/sysmacros.h> as well then glibc knows we meant it and doesn't warn, so do that if it exists.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c3147a20065b212fac78eb29e9bb9e150f9b22f5
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 27 14:45:24 2017 -0400

dmx: Fix decl mismatch for XRT_WINDOW

Building xserver with meson -Db_lto=true found this! Check it:

../hw/dmx/dmx.c:66:22: warning: type of `XRT_WINDOW' does not match original declaration [-Wlto-type-mismatch]
extern unsigned long XRT_WINDOW;
^
I have never managed successfully to build xserver with LTO with autotools, so, score one for meson.

Get the decl from panoramiXsrv.h, which includes panoramiX.h first anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit ea275cd3d5fb61c6aed7876f486e1124082426c
Author: Eric Anholt <eric@anholt.net>
Date: Fri Apr 28 15:09:38 2017 -0700

meson: Fix glx build with DRI2 disabled.

A common meson pattern is to use empty arrays for optional sources and dependencies, since it generally iterates over trees of arrays looking for values. A value of " will actually go looking for ".

Daniel Stone <daniels@collabora.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 62f727c7ea359b7bdf58d9b827731a082b47553d
Author: Eric Anholt <eric@anholt.net>
Date: Fri Apr 28 15:09:37 2017 -0700

meson: use link_with for Xorg's shared modules as well as Xorg.

I converted Xorg when meson 0.40 came out, but fumbled my grep and forgot that I had instances of the .extract_all_objects() workaround in dixmods, too.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit e2f68296ff8e40035c0ebd949b67d1e2e424e11
Author: Keith Packard <keithp@keithp.com>
Date: Sat Apr 29 00:26:10 2017 -0700
os: Mark client as ready to read when closing due to write failure [100863]

This makes sure the server will go look at the client again, notice that the FD is no longer valid and close the client down.

Bugzilla: https://bugs.freedesktop.org/100863
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit a82971b07035ee9a4e3ed01326e7e1eab34b5a19
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Apr 29 00:21:47 2017 -0700

os: un-duplicate code to close client on write failure

There are three copies of the same short sequence of operations to close down a client when a write error occurs. Create a new function, AbortClient, which performs these operations and then call it from the three places.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit 8475e6360ce31551d50fd63a26f7a44d1e8928f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 7 15:04:46 2017 +1000

xwayland: add tablet pad support

Hooked up a bit differently to the other tools. Those tools can be static for all and be re-used. The wacom driver initializes the pad with the correct number of buttons though and we can't do this until we have the pad done event.

If the tablet is removed and we plug a different one in, we should initialize that correctly, so unlike the other tools the pad is properly removed and re-initialized on plug.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

commit f471b5b8eb451b442554517c7cb6f0aa90d218c4
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Fri Nov 4 19:58:04 2016 +0100

xwayland: update cursor on tablet tools in proximity

Each xwl_tablet_tool gets a xwl_cursor, as on wayland each of those will get an independent cursor that can be set through
zwp_tablet_tool.set_cursor.

However, all tools (and the pointer) share conceptually the same VCP on Xwayland, so have cursor changes trigger a xwl_cursor update on every tool (and the pointer, again). Maybe Xwayland could keep track of the most recent device and only update that cursor to get better visual results, but this is simpler, and it's going to be odd anyway...

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

commit 6d1ad39fe6c18220dd39b0653fd1e4145140e2dc
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Fri Nov 4 19:36:10 2016 +0100

xwayland: Refactor cursor management into xwl_cursor

This struct takes away the cursor info in xwl_seat, and has an update function so we can share the frame handling code across several xwl_cursors.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

commit 773b04748d0c839bc8b12e33f74bb8d11c447f5b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 7 12:23:46 2017 +1000

xwayland: handle button events after motion events

Make sure the button events are sent after the motion events into the new position.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

commit 8a1defcc634daddbb3570519d69ec5e9e39a8b56
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Fri Oct 14 14:31:46 2016 -0700

xwayland: Handle tablet_tool events

Translates Wayland tablet events into corresponding X11 tablet events. As
with the prior commit, these events are modeled after those created by the
xf86-input-wacom driver to maximize compatibility with existing applications.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

xwayland: Handle wp_tablet events

Creates and maintains the canonical trio of X devices (stylus, eraser,
and cursor) to be shared by all connected tablets. A per-tablet trio
could be created instead, but there are very few benefits to such a
configuration since all tablets still ultimately share control of a
single master pointer.

The three X devices are modeled after those created by xf86-input-wacom
but use a generic maximum X and Y that should be large enough to
accurately represent values from even the largest currently-available
tables.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

xwayland: Listen for wp_tablet_seat events

The wp_tablet_seat interface provides us with notifications as tablets,
tools, and pads are connected to the system. Add listener functions and
store references to the obtained devices.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>
xwayland: Bind to wp_tablet_manager if available and get its seats

If we're notified about the existence of the wp_tablet_manager interface, we bind to it so that we can make use of any tablets that are (or later become) available. For each seat that exists or comes into existence at a later point, obtain the associated tablet_seat.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

xwayland: Depend on wayland-protocols to build tablet protocol headers

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Ping Cheng <ping.cheng@wacom.com>

meson: Build libvbe.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

meson: Build libshadowfb.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bdce17959cd17fa6d46a1df361b53b5855ff62e8
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 13:15:55 2017 -0400

meson: Build libvgahw.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5c7d92362b25670856091663e70d3e0dc2350efb
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 13:10:33 2017 -0400

meson: Build libfbdevhw.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6413a87bcd3bfb91ae1536b41c37af0c6e47a9b6
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 12:58:54 2017 -0400

meson: Build libwfb.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1597297067fd14d479a2279ad1ab20082317271a
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 12:50:13 2017 -0400

meson: Build libglx.so

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47f047462decb492203ff569a2b1528bff8cd3ff3
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 11:49:11 2017 -0400

meson: Fix linking the dmx utilities

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5d785693a8843d18be806ea9f8caecc2dcf1007
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 11:47:11 2017 -0400
meson: Factor out the AC_REPLACE_FUNCS stuff to its own library

This is all just stuff we wish we had in libc, and some of this gets
used in eg. the dmx utilities build, so split it to its own library to
avoid pulling in xserver stuff.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8659aac2ccc6649477f601908e1a4062fad8635e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 27 12:52:29 2017 -0400

meson: Fix a typo

"bulid" isn't valid anything, and build_xwayland was already defined
above.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 112d0d7d01b98fb0d679102811dd1feeec125247b
Author: Karol Kosik <kkosik@nvidia.com>
Date:   Wed Jul 22 16:42:07 2015 -0700

xfree86: Improved autoconfig drivers matching

Implementation of new drivers matching algorithm. New approach
doesn't add duplicate drivers and ease drivers matching phase.

Signed-off-by: Karol Kosik <kkosik@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 1549e30372756cfdb85379fd8d93c769297ab6e6
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Mar 11 10:24:04 2017 -0800

Add a Meson build system alongside autotools.

This is a work in progress that builds Xvfb, Xephyr, Xwayland, Xnest,
and Xdmx so far. The outline of Xquartz/Xwin support is in tree, but
hasn't been built yet. The unit tests are also not done.

The intent is to build this as a complete replacement for the
autotools system, then eventually replace autotools. meson is faster
to generate the build, faster to run the build, shorter to write the
build files in, and less error-prone than autotools.
v2: Fix indentation nits, move version declaration to project(), use existing meson_options for version-config.h's vendor name/web.

Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c7be7a688a78a34f61b90c0d95914e14b90b0cdcc
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Apr 25 16:03:00 2017 -0700

Use #ifdef instead of #if for features to make Meson easier.

We mostly use #ifdef throughout the tree, and this lets the generated config.h files just be #define TOKEN instead of #define TOKEN 1.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit ace6bfd5901e19045371f9bd18b997b37f55b589
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Apr 25 16:02:59 2017 -0700

dix: Remove a redundant #define

Found when the meson conversion set the symbol to defined, instead of defined to 1.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 27a6b9f7c84c914d0f5909ec1069d72f5035bc04
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Apr 26 18:31:08 2017 +0900

os: Handle SIGABRT

Without this, assertion failures can make life hard for users and those trying to help them.

v2:
  * Change commit log wording slightly to "can make life hard", since apparently e.g. logind can alleviate that somewhat.
* Set default handler for SIGABRT in
  hw/xfree86/common/xf86Init.c:InstallSignalHandlers() and
  hw/xquartz/quartz.c:QuartzInitOutput() (Eric Anholt)

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 23f2f1932a1d3f36468eaf735ae34934d246567b
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Apr 25 11:33:50 2017 -0700

  modesetting: Add the "DPI" connector type.

  The number for it was merged to drm_mode.h in kernel 4.7, and the
  output_names[] array just requires that we slot in new strings in
  order.

  Signed-off-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit fec9607c8e0a84de86466c638d00b502f21cc622
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 21 12:03:45 2017 -0700

  Remove support for unaligned swaps.

  The previous misc.h code went out of its way to allow swapping of
  unaligned pointers to values. However, the members of an X
  request/response are always naturally aligned within the struct, and
  the buffers containing a request/response will also be aligned to at
  least 8 bytes, so we can just drop it.

  text     data    bss    dec      hex    filename
  before: 2215167   51552  132016 2398735  249a0f hw/xfree86/Xorg
  after:  2214919   51552  132016 2398487  249917 hw/xfree86/Xorg

  Signed-off-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4552238960fc05ff885bcabbc24d1489370fbd89
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Mar 28 13:09:30 2017 -0700

  Add unit tests for the byte swapping macros.

  Peter noted a weirdness in my new bswap code, which could use some
  tests to justify it.
Rewrite the byte swapping macros.

The clever pointer tricks were actually not working, and we were doing the byte-by-byte moves in general. By just doing the memcpy and obvious byte swap code, we end up generating actual byte swap instructions, thanks to optimizing compilers.

<table>
<thead>
<tr>
<th>text</th>
<th>data</th>
<th>bss</th>
<th>dec</th>
<th>hex</th>
<th>filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>before: 2240807 51552 132016 2424375 24fe37</td>
<td>hw/xfree86/Xorg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>after: 2215167 51552 132016 2398735 249a0f</td>
<td>hw/xfree86/Xorg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remove default defines of some directories.

The build defines these, so having the defaults is just a way for the build system's configuration to get out of sync with the code.

v2: Drop #ifndefs around the other two defines.

xorg: Change __XCONFIGFILE__ to XCONFIGFILE (and DIR) to fix scan.c.

parser/scan.c was checking for #ifdef XCONFIGFILE and XCONFIGDIR and defaulting to "xorg.conf", and "xorg.conf.d", so if you had changed __XCONFIGFILE__ to anything else, it would have got out of sync. Settle on the name without gratuitous underscores.
Mark test_data static in Xinput protocol tests to avoid clashes

Fixes warning from Solaris linker:
ld: warning: symbol 'test_data' has differing sizes:
    (file tests-protocol-xigetselectedevents.o value=0x418;
    file tests-protocol-xigetclientpointer.o value=0x18);
    tests-protocol-xigetselectedevents.o definition taken

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

It appears that on some hardware/driver combo such as nv30/nouveau, using
GL_ALPHA as format for 8-bit depth will cause an incomplete attachment
error (GL_FRAMEBUFFER_INCOMPLETE_ATTACHMENT) when trying to bind the
texture.

As a result, the FBO is NULL and glamor segfaults when trying to access
the FBO width/height in pixmap_priv_get_scale() in glamor_xv_render().

This happens with glamor-xv which uses 8-bit pixmaps, meaning that on
such hardware/driver, trying to play a video using Xv will lead to a
crash of the Xserver. This affects Xwayland, Xephyr, modesetting driver
with glamor accel.

But the use of an FBO is not actually needed for glamox-xv, so by
disabling FBO at pixmap creation, we can avoid the issue entirely.

Fix suggested by Eric Anholt <eric@anholt.net>

Signed-off-by: Olivier Fourdan sofourdan@redhat.com>
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=100710
Fixes: https://bugzilla.redhat.com/1412814
Reviewed-by: Eric Anholt <eric@anholt.net>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33186
glx: Use the same endian swapping as the rest of the server.

This dumps a ton of configure-time checks for system endian macros. Given that we're marking the mixed-endian fixup code as cold, getting at the system macros is a waste of code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

configure: Stop checking for XdmcpWrap

As far back as the initial import, it seems to have been exposed, and there's no explanation why the test happened in the initial xserver import.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

xwayland: Small comment edit

Be more precise in describing the return value.

Signed-off-by: Roman Gilg <subdiff@gmail.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86/modes: Make colormap/gamma glue code work with RandR disabled

E.g. because Xinerama is enabled.

Fixes crash on startup and wrong colours in that case.

Bugzilla: https://bugs.freedesktop.org/100293
Bugzilla: https://bugs.freedesktop.org/100294
Fixes: 62f44052573b ("xfree86/modes: Move gamma initialization to xf86RandR12Init12 v2")
Tested-by: Mariusz Bialonczyk <manio@skyboo.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit bcee1b76aa0db8525b491485e90b8740763d7de6
Author: Martin Peres <martin.peres@linux.intel.com>
Date:   Mon Apr 10 16:48:21 2017 +0300

modesetting: re-set the crtc's mode when link-status goes BAD

Despite all the careful planning of the kernel, a link may become insufficient to handle the currently-set mode. At this point, the kernel should mark this particular configuration as being broken and potentially prune the mode before setting the offending connector's link-status to BAD and send the userspace a hotplug event. This may happen right after a modeset or later on.

Upon receiving a hot-plug event, we iterate through the connectors to re-apply the currently-set mode on all the connectors that have a link-status property set to BAD. The kernel may be able to get the link to work by dropping to using a lower link bpp (with the same display bpp). However, the modeset may fail if the kernel has pruned the mode, so to make users aware of this problem a warning is outputed in the logs to warn about having a potentially-black display.

This patch does not modify the current behaviour of always propagating the events to the randr clients. This allows desktop environments to re-probe the connectors and select a new resolution based on the new (currated) mode list if a mode disapeared. This behaviour is expected in order to pass the Display Port compliance tests.

Signed-off-by: Martin Peres <martin.peres@linux.intel.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ea91996a9c2081d0692f5c2f79a9fd9effba358
Author: Daniel Stone <daniels@collabora.com>
Date:   Tue Apr 11 07:55:00 2017 +0100

README: Add link to fd.o CoC

The Contributor Covenant applies to all fd.o-hosted resources, including lists and Bugzilla. Add a note to the README, reminding people to act like human beings.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Stone <daniels@collabora.com>
README: HTTPS everywhere

All fd.o HTTP services are now HTTPS-only (with redirects, but still).

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Stone <daniels@collabora.com>

xephyr: Check for host XVideo support before trying to use it

Otherwise xcb will treat our attempt to send xv requests as a connection error (quite reasonably: we're asking it to emit a request for which there is no defined major opcode), and we'll die quietly the first time we hit KdBlockhandler.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: Remove enter/leave server API

Dead code since:

glx: Remove DRI1 AIGLX (v2)

Signed-off-by: Adam Jackson <ajax@redhat.com>

modesetting: Set correct DRM event context version

DRM_EVENT_CONTEXT_VERSION is the latest context version supported by
whatever version of libdrm is present. modesetting was blindly asserting it supported whatever version that may be, even if it actually didn't.

With libdrm 2.4.78, setting a higher context version than 2 will attempt to call the page_flip_handler2 vfunc if it was non-NULL, which being a random chunk of stack memory, it might well have been.

Set the version as 2, which should be bumped only with the appropriate version checks.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Stone <daniels@collabora.com>

xfree86: Remove driver entity hooks and private

No driver is using these, as far as I know.

v2: Tripwire the entity hook arguments to xf86Config*Entity, fix documentation (Eric Anholt)

Reviewed-by: Eric Anholt <eric@anholt.net>

dpms: Consolidate a bunch of stuff into Xext/dpms.c

Most of this is a legacy of the old "extmod" design where you could load _some_ extensions dynamically but only if the server had been built with support for them in the first place.

Note that since we now only initialize the DPMS extension if at least one screen supports it, we no longer need DPMSCapableFlag: if it would be false, we would never read its value.

Reviewed-by: Eric Anholt <eric@anholt.net>
dix: Lift DPMS to a screen hook

Following on from the previous change, this adds a DPMS hook to the ScreenRec and uses that to infer DPMS support. As a result we can drop the dpms stub code from Xext.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 8ed0b00fceb34cdb54a0ea113c3cddf3b4c9e7e1
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 24 12:30:56 2017 -0400

xfree86: Clean up DPMS support

Rather than setting up a per-screen private, just conditionally initialize ScrnInfoRec::<DPMSSet based on the config options, and inspect that to determine whether DPMS is supported.

We also move the "turn the screen back on at CloseScreen" logic into the DPMS extension's (new) reset hook. This would be a behavior change for the non-xfree86 servers, if any of them had non-stub DPMS support.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 21eda7464d0e13ac6558eda6531c3d3251e05df
Author: Tobias Stoeckmann <tobias@stoeckmann.org>
Date: Sun Mar 12 14:21:38 2017 +0100

dmx: Fix null pointer dereference

A null pointer dereference can occur in dmxSync, because TimerForce does not handle a null pointer.

dmxSyncTimer is set to NULL a few lines above on a certain condition, which happened on my machine. The explicit NULL check allowed me to start Xdmx again without a segmentation fault.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5cdfcdef819efa6406807254cb3c7aba6ba5475e
Author: Matt Turner <mattst88@gmail.com>
Date: Thu Mar 23 19:37:46 2017 -0700

xkb: Correct type of XkbDfltAccessXOptions.

Declared as unsigned short in xkb/xkbAccessX.c.
Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f4b78286ea8d4e94a913a02a3579cebe55e8f1f6b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 20 13:08:19 2017 -0400

glx: Fix MakeCurrent with no drawables

GLX_ARB_create_context, which we aspire to support, allows making GL 3.0 or newer contexts current with null current drawables. Strictly this might not be legal for pre-3.0 contexts, but there's no harm in allowing it anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e2e50c509718ea8c7f4684dc18f5ce66e526792b
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Mar 22 15:11:35 2017 -0700

xserver: Unifdef HAVE_CONFIG_H

The X Server never generates a global config.h, and instead all these paths are including dix-config.h or xorg-config.h.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 266af991c8e41e62f054ac9870468a9ba2aaa9f2
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Mar 22 15:11:34 2017 -0700

glamor: Fix some formatting that confused the unifdef command.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 2da405759fbbad4b918838a0de728c1911b4a2fa
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Mar 22 15:11:33 2017 -0700

xserver: Check the right HAVE_*_CONFIG_H.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
kdrive: Drop kdrive-config.h.

It had nothing left in it that was used but wasn't in dix-config.h.

kdrive: Remove vestiges of TSLIB support.

The actual code was gone in 27819950e4158326e0f83a30f2e8968b932625ef, but some checks remained.

kdrive: Unifdef KDRIVE_EVDEV.

ajax deleted the evdev driver in the removal of fbdev and the linux backend.

configure.ac: fix checking for libdrm version after 9232835bd

No matter what libdrm version was installed, it always set
the GLAMOR_HAS_DRM_NAME_FROM_FD_2 conditional to 1. This obviously leads to compilation problems.

Fixes: 9232835bd16b ("glamor: use drmGetDeviceNameFromFD2 when available")
Signed-off-by: Mariusz Bialonczyk <manio@skyboo.net>
Reviewed-and-Tested-by: Qiang Yu <Qiang.Yu@amd.com>

commit eb2cf11724df5be0be3cce1ad4c61ba61e8ec6b
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Mar 23 12:42:37 2017 +0900

Xephyr: Handle source-only pictures in ephyrPrepare/DoneComposite

There is no pixmap associated with source-only pictures.

Fixes Xephyr -fakexa crashing on startup.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fdc79fe72bc0b97776df2c3a664076c60e08a87c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Mar 9 17:34:55 2017 +0900

edid: Prune duplicates after adding modes from DDC

Multiple calls to xf86EdidMonitorSet (which can be triggered e.g. by running xrandr) would potentially keep adding the same modes, causing the Monitor->Modes list to keep growing larger and using up more memory.

Fix this by calling xf86PruneDuplicateModes after adding the modes returned by xf86DDCGetModes. This makes sure there's only one instance of each unique mode in the list.

v2:
* Replace semicolon with {} for empty for loop (Emil Velikov)
* Slightly tweak commit log to avoid minor inaccuracy about what xf86PruneDuplicateModes does

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99521
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 4e76c2711740b775242170d8e5ee56c7e6829cce
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 20 13:42:12 2017 -0400
None of this is actually wired up to anything, so we can also remove the
devPrivates from the DamageRec. The DamageExtRec is what would need
devPrivates for selinux labeling, in principle.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 40c12a76c2ae57adefd3bd1d412387ebbf2fb784
Author: Tobias Stoeckmann <tobias@stoeckmann.org>
Date:   Sun Mar 19 17:55:07 2017 +0100

record: Fix OOB access in ProcRecordUnregisterClients

If a client sends a RecordUnregisterClients request with an nClients
field larger than INT_MAX / 4, an integer overflow leads to an
out of boundary access in RecordSanityCheckClientSpecifiers.

An example line with libXtst would be:
XRecordUnregisterClients(dpy, rc, clients, 0x40000001);

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1ad230682338a9d2fc6eca6966a5beb007df32c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 26 13:28:42 2016 -0400

glamor: Avoid software fallback for planemasked ZPixmap GetImage

Same trick as in fb: just do a normal GetImage and deal with the
planemask on the CPU if you have to. Since the software fallback hit for
glamor is pretty brutal, this is a much more impressive win for glamor
than it was for fb:

11100.0  87700.0 (7.901) (copy 0xaaaaaaaa) ShmGetImage 10x10 square
9840.0  47800.0 (4.858) (copy 0xaaaaaaaa) ShmGetImage 100x100 square
1550.0  4240.0 (2.735) (copy 0xaaaaaaaa) ShmGetImage 500x500 square
9450.0  78900.0 (8.349) (0xaaaaaaaa) GetImage 10x10 square
6910.0  30900.0 (4.472) (0xaaaaaaaa) GetImage 100x100 square
431.0   2020.0 (4.687) (0xaaaaaaaa) GetImage 500x500 square

Measured with Xephyr - glamor on Skylake GT3e.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
fb: Handle ZPixmap planemask in GetImage the other way around

Formerly we'd zero the image data and then pull out a plane at a time. It's faster to apply the planemask after the fact, since that turns the GetImage into a memcpy:

100000.0  101000.0 (1.010) (copy 0xaaaaaaaa) ShmGetImage 10x10 square
42400.0   59400.0 (1.401) (copy 0xaaaaaaaa) ShmGetImage 100x100 square
3040.0    5280.0 (1.737) (copy 0xaaaaaaaa) ShmGetImage 500x500 square
96100.0   95200.0 (0.991) (0xaaaaaaaa) GetImage 10x10 square
29600.0   36800.0 (1.243) (0xaaaaaaaa) GetImage 100x100 square
1850.0    2620.0 (1.416) (0xaaaaaaaa) GetImage 500x500 square

Measured with Xvfb at depth 24 on Skylake i7-6560U.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 368f60d461421fe5e2bbd90652d6ac858dbff8fe
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Fri Mar 17 13:45:04 2017 -0700

dri2: Sync i965_pci_ids.h from Mesa.

Copied from Mesa with no modifications. Gives us Geminilake PCI IDs.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Acked-by: Eric Anholt <eric@anholt.net>

commit 8805a48ed35afb2ca66315656c1575ae5a01c639
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Mar 17 15:58:26 2017 +0100

glamor: avoid a crash if texture allocation failed

Texture creation in _glamor_create_tex() can fail if a GL_OUT_OF_MEMORY is raised, in which case the texture returned is zero.

But the texture value is not checked in glamor_create_fbo() and glamor will abort in glamor_pixmap_ensure_fbo() because the fbo->tex is 0:

Truncated backtrace:
Thread no. 1 (10 frames)
  #4 glamor_pixmap_ensure_fbo at glamor_fbo.c:57
  #5 glamor_create_fbo_from_tex at glamor_fbo.c:112
Check the value returned by _glamor_create_tex() in glamor_create_fbo() and return NULL in the texture is zero.

All callers of glamor_create_fbo() actually check the returned value and will use a fallback code path if it's NULL.

Please cherry-pick this to active stable branches.

Bugzilla: https://bugzilla.redhat.com/1433305
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 0803918e64262482035f042e5e1f2a571d3dea1b
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Sep 24 19:40:52 2016 -0400

fb: Remove 24bpp support (v3)

v2:
- Require power-of-two bpp in ScreenInit
- Eliminate fbCreatePixmapBpp

v3
- Squash in the exa and glamor changes so we can remove pRotatedPixmap in the same stroke.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c33be78e2ab63abc84aa0baddff90bcefa9e183a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 28 13:19:00 2014 -0500

xfree86: Remove 24bpp pixmap format support (v2)

There's really no reason to pretend to support this, apps hate it, all we're doing is giving people a way to injure themselves. It doesn't work anyway with any Radeon, any NVIDIA chip, or any Intel chip since i810. Rip out all the logic for handling 24bpp pixmaps and framebuffers, and
silently ignore the old options that would ask for it.

The cirrus alpine driver has been updated to default to 16bpp, and both 
it and the i810 driver can now use the 32->24 conversion code in shadow 
if they want. All other drivers support 32bpp. Configurations that 
explicitly request 24bpp in order to fit in VRAM will be broken now 
though.

v2: Fix command line options to silently ignore 24bpp rather than fail

Reviewed-by: Eric Anholt <eric@anholt.net> 
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 83c4297d2c4fd501a9d36bc0cb7d357a8d22394c  
Author: Adam Jackson <ajax@redhat.com>  
Date:   Fri Mar 17 12:40:03 2017 -0400

ephyr: Don't clobber bitsPerPixel when using glamor

This ends up passing 0 as the bpp argument to fb screen setup, which is 
not really the best plan.

Reviewed-by: Eric Anholt <eric@anholt.net> 
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fe0b297420fc1de8a7fab28457d0864b3182e967  
Author: Eric Anholt <eric@anholt.net>  
Date: Wed Mar 15 17:51:46 2017 -0700

glamor: Fix dashed line rendering.

We were binding the screen pixmap as the dash and sampling its alpha, 
which is usually just 1.0 (no dashing at all).

Please cherry-pick this to active stable branches.

Signed-off-by: Eric Anholt <eric@anholt.net> 
Reviewed-by: Keith Packard <keithp@keithp.com> 
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 5b5ba7dc3d544868035b7088e9aac62eb2511e10  
Author: Adam Jackson <ajax@redhat.com>  
Date: Thu Mar 16 14:19:37 2017 -0400

Revert "sdksyms: Tighten up the symbols we add to the magic table"

Enough people are reporting build issues pointing at this commit that 
it's not worth the benefit.
This reverts commit 3dad57b121fd001e75fffa7e3007a9a0a154f67.

commit e337de2d488a124e5fee0fdecb882567b68f1767d
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Nov 2 12:49:25 2016 -0400

xinerama: Implement graphics exposures for window-> pixmap copies (v4)

This code is using GetImage to accumulate a logical view of the window image (since the windows will be clipped to their containing screen), and then PutImage to load that back into the pixmap. What it wasn't doing was constructing a region for the obscured areas of the window and emitting graphics exposures for same.

v2: Fix coordinate translation when the source is the root window
v3: Create sourceBox with the right coordinates initially instead of translating (Keith Packard)
v4: Clamp the region to 15 bits to avoid overflow (Keith Packard)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f1f865e909090406841a9b9416ca6259a75c2086
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 23 11:31:36 2017 -0500

parser: Fix crash when xf86nameCompare(s1 = x, s2 = NULL)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 455051a0f1d2bc84f605c325f647bd64d414c47d
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Tue Mar 14 15:06:34 2017 +0100

glamor: Check glamor_set_destination_drawable() return value

Check the value returned by glamor_set_destination_drawable() and use the fallback code path where possible.

Bugzilla: https://bugzilla.redhat.com/1417575
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 04b4bad7c048fd077fe839f10634ec99e1e488af
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Tue Mar 14 14:58:26 2017 +0100

glamor: glamor_set_destination_drawable() can fail
The fbo_array of a given glamor pixmap can be NULL in some cases, as glamor_create_fbo_array() can fail to allocate the FBO array.

If this is the case, glamor_pixmap_fbo_at() will return NULL even though the box index is valid, and glamor_set_destination_drawable() simply assumes glamor_pixmap_fbo_at() will return an FBO prior to pass the value to glamor_set_destination_pixmap_fbo(), which will segfault.

We need a way for glamor_set_destination_drawable() to fail safely and let the caller know about the failure.

Add a boolean return value to glamor_set_destination_drawable() for that purpose.

Bugzilla: https://bugzilla.redhat.com/1417575
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit b0ce1d088a863492f5de11e4dbde10af4261d892
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Mar 14 15:22:32 2017 +0100

Xephyr: Check screen resources creation success

If the screen pixmap or the corresponding texture creation with glamor fails, exit cleanly with an error message instead of segfaulting.

Fixes: https://bugzilla.redhat.com/1431633
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit f40ff18c96e02ff18a367bf53fee84d8ee952a0
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Mar 14 15:22:31 2017 +0100

glamor: Check for NULL pixmap in glamor_get_pixmap_texture()

glamor_create_pixmap() would return a NullPixmap if the given size is larger than the maximum size of a pixmap.

But glamor_get_pixmap_texture() won't check if the given pixmap is non-null, leading to a segfault if glamor_create_pixmap() failed.

This can be reproduced by passing Xephyr a very large screen width, e.g.:

$ Xephyr -glamor -screen 32768x1024 :10

(EE)
(EE) Backtrace:
(EE) 0: Xephyr (OsSigHandler+0x29)
(EE) 1: /lib64/libpthread.so.0 (__restore_rt+0x0)
(EE) 2: Xephyr (glamor_get_pixmap_texture+0x30)
(EE) 3: Xephyr (ephyr_glamor_create_screen_resources+0xc6)
(EE) 4: Xephyr (ephyrCreateResources+0x98)
(EE) 5: Xephyr (dix_main+0x275)
(EE) 6: /lib64/libc.so.6 (__libc_start_main+0xf1)
(EE) 7: Xephyr (_start+0x2a)
(EE) 8: ??? [0x2a] [0x2a]
(EE) Segmentation fault at address 0x0

Fatal server error:
(EE) Caught signal 11 (Segmentation fault). Server aborting
(EE) Aborted (core dumped)

Bugzilla: https://bugzilla.redhat.com/1431633
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 646bc74ced8b77d57312ae858a2ed01b0d17c21
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 3 14:51:51 2017 -0500

test: Fix distcheck failures

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bca221609004aeecbcca8928382ad29ce319d2eb6f
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Mar 6 17:44:19 2017 +0000

xfree86: work around a sdksyms problem with gcc5 on Cygwin

The linemarkers in the preprocessor output from gcc5 on Cygwin have
canonicalized paths to included files (e.g. xserver/build/../include/misc.h
is canonicalized to xserver/build/include/misc.h). (see gcc svn rev 210264,
which causes the transformation performed by -fcanonical-system-headers to
be applied to all include pathnames)

These canonicalized paths won't match $topdir, so sdksyms doesn't look at
the contents of those headers for sdk exported symbols.

Workaround this by canonicalizing all the paths we consider, using readlink.

v2:
Keep a cache of readlink results so it isn't quite so dreadfully slow.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ac15d4cecca377c5c31ab852c39bbd554ca48fe2
Author: Tobias Stoeckmann <tobias@stoeckmann.org>
Date:   Mon Mar 13 19:13:14 2017 +0100

render: Fix out of boundary heap access

ProcRenderCreateRadialGradient and ProcRenderCreateConicalGradient must be protected against an integer overflow during length check. This is already included in ProcRenderCreateLinearGradient since the fix for CVE-2008-2362.

This can only be successfully exploited on a 32 bit system for an out of boundary read later on. Validated by using ASAN.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0c1574d9882a91b2c1a046bf4ac5a9b138a37965
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Mar 9 18:13:31 2017 +0900

glamor: Fix typo: "vec2_pos" -> "vec2 pos"

Fixes crash when trying to use dashed lines:

Failed to compile VS: 0:8(2): error: `vec2_pos' undeclared

Trivial.

Fixes: d8161aeb5089 ("glamor: Fix missing declaration in dash vertex shader")
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99943

commit 937527f9798d573ec82e2c508821899c229e018f
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Mar 8 10:32:22 2017 +0100

xwayland: Monitor client states to destroy callbacks

Client resources can survive the client itself, in which case we may end up in our sync callback trying to access client's data after it's been freed/reclaimed.

Add a ClientStateCallback handler to monitor the client state changes and clear the sync callback set up by the glamor drm code if any.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33203

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=100040
Tested-by: Mark B <mark.blakeney@bullet-systems.net>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 669eb0a65430678fe97de9405e4e42dc4b4417ed2
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:    Wed Mar 8 23:46:27 2017 +0000

test: Use correct signature for XISetEventMask wrapper

This looks like it's always been wrong, but didn't matter before the single
 test binary changes as the wrapper was only in place for tests which didn't
care about it's effects, so didn't forward to the real implementation. (see
the changes to protocol-xiselectevents.c in 773fc07e)

This fixes the protocol_xigetselectedevents_test for me. I'm a bit
surprised that passes for anyone at the moment.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9232835bd16b6948442f7a4588fb9376782cb814
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:    Tue Mar 7 11:53:23 2017 +0800

    glamor: use drmGetDeviceNameFromFD2 when available

    This is for glamor can support fd from DRM render node which is useful
    for a render only DDX.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>

commit d4b7e0ea4b2e97ce1dec653a2ae7d9621fe1431
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:    Tue Mar 7 10:28:35 2017 +0100

    xwayland: clear cursor frame callback

    After an X cursor is unrealized, the seat's corresponding x_cursor is
cleared, but if a frame callback was pending at the time, it will
remain and thus prevent any further cursor update, leaving the window
with no cursor.

    Make sure to destroy the frame callback, if any, when that occurs, so
that next time a cursor needs to be set, it won't be ignored for a frame callback that will never be triggered.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1389327
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Reviewed-by: Rui Matos <tiagomatos@gmail.com>

commit 64ca14b85e45b13628396f21d1903e311f92a9e1
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Mar 2 10:19:26 2017 +0100

xwayland: make sure client is not gone in sync callback

in XWayland, dri3_send_open_reply() is called from a sync callback, so there is a possibility that the client might be gone when we get to the callback eventually, which leads to a crash in _XSERVTransSendFd() from WriteFdToClient() .

Check if clientGone has been set in the sync callback handler to avoid this.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99149
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=100040
Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1416553
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Mark B <mark.blakeney@bullet-systems.net>

commit 5c44169caed811e59a65ba346de1cadb46d266ec
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 2 17:20:30 2017 -0500

os: Squash missing declaration warning for timingsafe_memcmp

timingsafe_memcmp.c:21:1: warning: no previous prototype for ‘timingsafe_memcmp’ [-Wmissing-prototypes]
timingsafe_memcmp(const void *b1, const void *b2, size_t len)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0d7f05ed99b71a4641415c9f26e245c3bb24a9a0
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 1 16:13:59 2017 -0500

miarc: "Cache" arc span data for dashed arcs

This avoids recomputing the span data for every dash. x11perf thinks this is a pretty modest speedup:
But part of the reason it's so modest there is that the arcs are relatively small (100 pixel diameter at line width 10, so ~6000 pixels) and the dashes relatively large (30 on 20 off so ~6 dashes per quadrant).

With larger arcs and finer dashes this is much more impressive. A fairly trivial testcase of a single 15000x13000 arc with the default {2, 2} dash pattern drops from ~3500 milliseconds to 10 milliseconds.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 849c825855b82caf44d25ed8155be9f17869256
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 1 16:13:58 2017 -0500

miarc: Make the caller free the arc span data
drawArc does some fairly expensive computation, but it's only sensitive to arc width/height. Thread the span data up through the call chain so it's at least possible for the caller to cache things.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9426c5500b72e1fe004fe4c3b259023c4ec49f7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 1 16:13:57 2017 -0500

miarc: Style cleanup for miWideArc
Outdent, normalize comment formatting, and use 'goto out' idiom for error paths. No functional change.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fe5c340046c8cf755b92763a49b2dc475e856a76
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Mar 1 08:51:31 2017 +0100

xwayland: do not set checkRepeat on master kbd
keyboard_check_repeat() fetches the XWayland seat from the dev->public.devicePrivate do do its thing.

If a key event is sent programmatically through Xtest, our device is the virtual core keyboard and that has a dev->public.devicePrivate of NULL, leading to a segfault in keyboard_check_repeat().

This is the case with "antimicro" which sends key events based on the joystick buttons.

Don't set the checkRepeat handler on the VCK since it cannot possibly work anyway and it has no effect on the actual checkRepeat intended functionality.

Bugzilla: https://bugzilla.redhat.com/1416244
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 27819950e4158326e0f83a30f2e8968b932625ef
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 12:46:23 2017 -0500

kdrive: Remove now-unused linux backend

With Xfbdev gone this has no consumers.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit feed7e3f982a7ac14f66e85ed2e1ee4a83700841
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 12:46:22 2017 -0500

xfbdev: Remove

With the shadow framebuffer overallocation bug fixed (ref below), Xorg + fbdev has tens to hundreds of kilobytes more baseline memory usage than Xfbdev. That's not nothing, but it's little enough that we should focus our efforts on the server that actually gets development attention.

https://cgit.freedesktop.org/xorg/driver/xf86-video-fbdev/commit/?id=2c5eba8

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit 35fbc3f99877588bc6a87d5d7033f4367cbd39
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 12:46:21 2017 -0500

xfake: Remove

We already have Xvfb for a dummy DDX.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit 3dad57b121f001e75fff7e3007a9a0a154f67
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 14:00:03 2017 -0500

disksyms: Tighten up the symbols we add to the magic table

The code as written would match anything declared extern. _X_EXPORT is what we really mean here. That’s a macro, so check for what it expands to and skip if not found.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 386fbbe410a1168b724136e54cf3bd37fb64ad4e
Author: Matthieu Herrb <matthieu@herrb.eu>
Date: Wed Mar 1 20:28:34 2017 +0100

Brown bag commit to fix 957e8d (arc4random_buf() support)

- typo in #ifdef check
- also need to add AC_CHECK_FUNCS(\arc4random_buf)

Reported-by Eric Engestrom. Thanks

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>

commit dc7cede28c2f105095fe8d449f6d0eb4
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 14:56:45 2017 -0500

dispatch: Mark swapped dispatch as _X_COLD

This touches everything that ends up in the Xorg binary; the big missing part is GLX since that’s all generated code. Cuts about 14k from the binary on amd64.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 8c9909a99292b2fb4a86de694bb0029f61e35662
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Feb 28 14:27:52 2017 +0100

xwayland: Make sure we have a focus window

During the InitInput() phase, the wayland events get dequeued so we
can possibly end up calling dispatch_pointer_motion_event().

If this occurs before xwl_seat->focus_window is set, it leads to a NULL
pointer dereference and a segfault.

Check for xwl_seat->focus_window in both pointer_handle_frame() and
relative_pointer_handle_relative_motion() prior to calling
dispatch_pointer_motion_event() like it's done in
pointer_handle_motion().

Bugzilla: https://bugzilla.redhat.com/1410804
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c9cbdada755f1d00d164bef7833f1aef139fFeb0
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 20 10:24:14 2017 -0500

vfb: Bump default depth to 24

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2855f759b1e7bf75e57cac36c1f0d0e5ac1a683
Author: Matthieu Herrb <matthieu@herrb.eu>
Date:   Tue Feb 28 19:18:56 2017 +0100

auth: remove AuthToIDFunc and associated functions. Not used anymore.

And the current code for MitToId has a use-after-free() issue.

[Also remove the actual implementations - ajax]

Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 957e8db38f27932d353e86e9aa69cf16778b18f1
Author: Matthieu Herrb <matthieu@herrb.eu>
Use arc4random_buf(3) if available to generate cookies.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>

commit d7ac755f0b618eb1259d93c8a16ec6e39a18627c
Author: Matthieu Herrb <matthieu@herrb.eu>
Date:   Tue Feb 28 19:18:25 2017 +0100

Use timingsafe_memcmp() to compare MIT-MAGIC-COOKIES CVE-2017-2624

Provide the function definition for systems that don't have it.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Commit 1b12249fd6d4d3b566043d556503f3f625b9b4ba
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 23 10:21:49 2017 +1000

os: log a bug whenever WriteToClient is called from the input thread

The input thread should generate events, not send them. Make it easier to
find the instances where it's doing so.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

Commit 7d7788e0f2fbbf5d05cb918df11a5e1b7e047e48
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Feb 17 09:16:24 2017 +0100

Revert "xwayland: bump wayland-protocols version to 1.7"

This reverts commit 371ff0e969a38a0013688391bbd7375bc7b6f933.

Reviewed-by: Adam Jackson <ajax@redhat.com>

Commit 9f4d308cdad957a354912f17febe5bcad7f44812
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date:   Wed Nov 23 13:30:53 2016 +0200

xwayland: use _XWAYLAND_ALLOW_COMMITS property

The X11 window manager (XWM) of a Wayland compositor can use the
_XWAYLAND_ALLOW_COMMITS property to control when Xwayland sends
wl_surface.commit requests. If the property is not set, the behaviour
remains what it was.

XWM uses the property to inhibit commits until the window is ready to be
shown. This gives XWM time to set up the window decorations and internal
state before Xwayland does the first commit. XWM can use this to ensure
the first commit carries fully drawn decorations and the window
management state is correct when the window becomes visible.

Setting the property to zero inhibits further commits, and setting it to
non-zero allows commits. Deleting the property allows commits.

When the property is changed from zero to non-zero, there will be a
commit on next block_handler() call provided that some damage has been
recorded.

Without this patch (i.e. with the old behaviour) Xwayland can and will
commit the surface very soon as the application window has been realized
and drawn into. This races with XWM and may cause visible glitches.

v3:
- introduced a simple setter for xwl_window::allow_commits
- split xwl_window_property_allow_commits() out of
  xwl_property_callback()
- check MakeAtom(_XWAYLAND_ALLOW_COMMITS)

v2:
- use PropertyStateCallback instead of XACE, based on the patch
  "xwayland: Track per-window support for netwm frame sync" by
  Adam Jackson
- check property type is XA_CARDINAL
- drop a useless memcpy()

Weston Bug: https://phabricator.freedesktop.org/T7622
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit a6308cea602f688ac653e3466cd57767e02093a9
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date:   Thu Nov 24 11:54:44 2016 +0200

xwayland: fix 'buffer' may be used uninitialized warning

Fix the following warning due to --disable-glamor:

    CC     Xwayland-xwayland.o
In file included from /home/pq/local/include/wayland-client.h:40:0,
from xwayland.h:35,
from xwayland.c:26:
xwayland.c: In function ‘block_handler’:
/home/pq/local/include/wayland-client-protocol.h:3446:2: warning: ‘buffer’ may be used uninitialized in this
function [-Wmaybe-uninitialized]
   wl_proxy_marshal((struct wl_proxy *) wl_surface,
^  xwayland.c:466:23: note: ‘buffer’ was declared here
   struct wl_buffer *buffer;
^   xwayland: refactor into xwl_window_post_damage()

Refactor xwl_screen_post_damage() and split the window specific code
into a new function xwl_window_post_damage().

This is a pure refactoring, there are no behavioral changes. An assert
is added to xwl_window_post_damage() to ensure frame callbacks are not
leaked if a future patch changes the call.

Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit f7b8560f23ac5582c2f97de9f6de32a42e61e520
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date:   Thu Nov 24 11:45:25 2016 +0200

dix: Add a callback chain for window property state change

This will be used by in-server features that need to react to property
changes. The first one will be _XWAYLAND_ALLOW_COMMITS.

Signed-off-by: Adam Jackson <ajax@redhat.com>
[Pekka: add commit message body]
Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit 8e3f9ce6c06e7605832c55dfd180396f66ec8b66
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Jul 12 12:45:23 2014 -0400

dix: Pass the whole property into deliverPropertyNotifyEvent
Instead of just the atom. No functional change.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

commit fde5cd78488f3370c92397868ca78929296f7ad1
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Tue Jan 31 20:16:35 2017 +0500

tests: Fix guards for ld -wrap

Fixes XQuartz build.

Regressed-in: 23fd6dbe96e47be6ebeed78cc9ef303987c3e29a9
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit d8161aeb50891ae10c5656487ce8f982d6ed5f9f
Author: Dr.-Ing. Dieter Jurzitza <dieter.jurzitza@t-online.de>
Date:   Thu Feb 23 12:57:26 2017 -0500

glamor: Fix missing declaration in dash vertex shader

Fixes a GLSL compilation error:

Failed to compile VS: 0:13(43): error: `pos' undeclared
0:13(14): error: operands to arithmetic operators must be numeric
0:13(13): error: operands to arithmetic operators must be numeric

Tested-by: Stefan Dirsch <sndirsch@suse.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit acdb5bf2de57c0080d2a6e730c788a0a428e13dc
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Feb 17 08:18:52 2017 +0000

os: Fix iteration over busfaults

Fixes a regression from

commit 41da295eb50fa08eaac00edce99f43a716fcb41a
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Nov 3 13:12:40 2013 -0800

Trap SIGBUS to handle truncated shared memory segments

that causes the SIGBUS handler to fail to chain up correctly and
corrupts nearby memory instead.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits dcb63deb1b6337781943a7bea5bb2b04e6d76b55
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Wed Feb 22 14:56:28 2017 +0000

inputthread: Initialise inputThreadInfo->changed before use

==8734== Thread 2 InputThread:
==8734== Conditional jump or move depends on uninitialised value(s)
==8734==   at 0x2FDB05: InputThreadDoWork (inputthread.c:333)
==8734==   by 0x6924423: start_thread (pthread_create.c:333)
==8734==   by 0x6C229BE: clone (clone.S:105)

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 23d85c54421ebdd12460566918fcb7f309d2ee30
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Fri Feb 17 14:13:51 2017 +0100

os: remove unused define MAX_TIMES_PER

Remove leftover from commit e10ba9e, MAX_TIMES_PER is not used anymore.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b170c4447868c8d4656cf2143f009db20885f3a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 13:00:24 2017 -0500

mi: Add include guards to migc.h

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e161853f3380ab10b176c81284024066cb2776136c3
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 13:00:24 2017 -0500

fb: Remove stray references to fbHasVisualTypes
Removed in 84e8de12.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4c7d229582a97e07014091909745ac7dc4d5e93e
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 13:00:24 2017 -0500

fb: Remove unused fbGetFreeCompClip macro

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 706e6d9cd074da606016ed4ecff51e9e2a822087
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 13:00:24 2017 -0500

wfb: Hide init function decls behind FB_ACCESS_WRAPPER

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 790c1c0b10968776440a962e1fc6d1d3157b1559
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 16 13:00:24 2017 -0500

wfb: Add missing rename for fbGlyphs

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a6566f9e4dbf9ea9568a14e22cb5d004e10dbd4d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Feb 16 16:13:56 2017 +0900

prime: Clear PixmapDirtyUpdateRec::damage when it's destroyed

The root window, and by extension any damage records referencing it, may be destroyed before shared pixmaps referencing it, which resulted in use-after-free / double-free in PixmapStopDirtyTracking.

Fixes: b5b292896f64 ("prime: Sync shared pixmap from root window instead of screen pixmap")
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 371ff0c969a38a0013688391bbd7375bc7b6f933

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33214
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Feb 16 10:43:06 2017 +0100

xwayland: bump wayland-protocols version to 1.7

Xwayland support for pointer locking in confinement requires wayland-protocols version 1.7 or later.

Update the required version in configure.ac to match the minimal required version of wayland-protocols.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 5d29b493666f728eccd8dd91992ea020bd4be9f9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:56 2017 -0500

xfree86: Reorganize the reserved ScrnInfoRec slots

First, move them to the end of the struct, for marginally better cache locality for the struct members that actually have meaning; move the existing slots at the end of the struct up near some others with similar meanings. Second, only keep four slots each of integer, data pointer, and function pointer; we've rarely used this escape hatch so this is still plenty.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47db92473f7da2b7d6775ff681ec747009f8cf3f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:55 2017 -0500

xfree86: Remove unused chipID/Rev from ScrnInfoRec

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4dcf68e41857cdf78387a6782160cb5cb467fb0
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:54 2017 -0500

xfree86: Remove memClk from ScrnInfoRec
Never set by the core, not used in any modern driver.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0b6f2806029493afa246b4472ee88fc173976c5a
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:53 2017 -0500

ddxDesign chunk removes the whole para about xf86FixPciResource, since it turns out that function doesn't exist at all anymore.

The only drivers that reference this at all are i128 and mga, and even then only in the non-pciaccess path.

v2:
- Update commentary about i128/mga
- Don't remove the BiosBase keyword from the config parser since that would turn a no-op into a fatal error (Aaron Plattner)

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 76ef102be3b47d23ebfaaaa04fb5fc0511d43f1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:52 2017 -0500

xfree86: Drop virtualFrom from ScrnInfoRec

Seriously not worth the effort of tracking this, especially now that competent drivers don't have a limit. The sis driver does inspect this member, but hilariously does so only so it can print the same information as the core does.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 5a945f54e738f6e9c5a489febddd8b87cd8a41210
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:51 2017 -0500

xfree86: Remove max[HV]Value from ScrnInfoRec

Only mach64 and rendition actually use this feature. Everyone else just checks it in their ValidMode hook, they can too.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3e1a23281dd64ee7457f36208c2c77c01846a28f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 14 15:30:50 2017 -0500

xfree86: Fix a comment about ScrnInfoRec

We don't actually need (or intend) to keep this struct the same across revisions.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4c00609c370dab130b69207cb2684c2b92bd3084
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 12 09:35:21 2017 -0800

DetermineClientCmd: try using /proc/pid/cmdline on Solaris too

Solaris 11.3.5 introduced support for /proc/pid/cmdline, so try it first, and if we can't open it, then fallback to /proc/pid/psinfo as we did before.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 3f9507ed2f7246b2c8cf2bbc430cc99e5f35c92a
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Feb 9 13:53:41 2017 -0500

xfree86: Bump video ABI to 24.0

c02f6a68 changed the layout of xf86CrtcFuncs.
xwayland: Apply output rotation for screen size

Previously, we would swap the width/height of the Xwayland output based on the output rotation, so that the overall screen size would match the actual rotation of each output.

Problem is the RandR's ConstrainCursorHarder() handler will also apply the output rotation, meaning that when the output is rotated, the pointer will be constrained within the wrong dimension.

Moreover, XRandR assumes the original output width/height are unchanged when the output is rotated, so by changing the Xwayland output width and height based on rotation, Xwayland causes XRandr to report the wrong output sizes (an output of size 1024x768 rotated left or right should remain 1024x768, not 768x1024).

So to avoid this issue and keep things consistent between Wayland and Xwayland outputs, leave the actual width/height unchanged but apply the rotation when computing the screen size. This fixes both the output size being wrong in "xrandr -q" and the pointer being constrained in the wrong dimension with rotated with weston.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99663
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xwayland: CRTC should support all rotations

If the Wayland compositor sets a rotation on the output, Xwayland translates the transformation as an xrandr rotation for the given output.

However, if the rotation is not supported by the CRTC, this is not a valid setup and xrandr queries will fail.

Pretend we support all rotations and reflections so that the configuration remains a valid xrandr setup.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33219

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99663
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 38696ea56854e055c31bd2730adfc7c39aa115b0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Feb 7 17:38:23 2017 +0900

damage: Validate source pictures bound to windows before unwrapping

The lower layers also do this, but no damage may be reported there, since we unwrap before calling down.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99220
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 1c78bec9ca3cd1975a38bf5ebdb7dea65b309ab
Author: Svitozar Cherepii <razotivs@gmail.com>
Date:   Fri Feb 3 01:49:04 2017 +0200

xwayland: Add hack for FWXGA resolution #99574

For some applications (like fullscreen games) it matters for XRandr resolution to be correctly set and equal to root window resolution.

In XServer there is already hack for this, adapted it for XWayland.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=99574

Signed-off-by: Svitozar Cherepii <razotivs@gmail.com>
Tested-by: Svitozar Cherepii <razotivs@gmail.com>
Acked-by: Olivier Fourdan <ofourdan@redhat.com>

commit 542d9f6807ac06b70f564ccab10af69fa21a1221
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Feb 1 18:35:57 2017 +0900

present: Allow flipping with PRIME slave outputs

Works fine now.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit b5b292896f647c85f03f53b20b2f03c0e94de428
Author: Michel Dänzer <michel.daenzer@amd.com>
prime: Sync shared pixmap from root window instead of screen pixmap

The screen pixmap doesn't receive updates while there's a Present flip window.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit eb04b20160d706d4e0e67122d0adb1e723c0da92
Author: Michael Thayer <michael.thayer@oracle.com>
Date:   Fri Sep 30 15:18:45 2016 +0200

modesetting: allow switching from software to hardware cursors (v5).

Currently if modesetting ever fails to set a hardware cursor it will switch
to using a software cursor and never go back. Change this to only
permanently switch to a software cursor if -ENXIO is returned (which means
hardware cursors not supported), and to otherwise still try a hardware
cursor first every time a new one is set. This is needed because hardware
may be able to handle some cursors in hardware and others not, or virtual
hardware may be able to handle hardware cursors at some times and not
others.

Changes since v1, v2 and v3:
* take into account the switch to load_cursor_argb_check
* keep the permanent software cursor fall-back if -ENXIO is returned
* move parts of v3 into separate patches

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michael Thayer <michael.thayer@oracle.com>

commit ecd0a62323f26b333c49bddd7237dd5118482a35
Author: Michael Thayer <michael.thayer@oracle.com>
Date:   Fri Sep 30 08:02:09 2016 +0200

modesetting: Immediately handle failure to set HW cursor, v5

Based on v4 by Alexandre Courbot <acourbot@nvidia.com>

There is currently no reliable way to report failure to set a HW
cursor. Still such failures can happen if e.g. the MODE_CURSOR DRM
ioctl fails (which currently happens at least with modesetting on Tegra
for format incompatibility reasons).

As failures are currently handled by setting the HW cursor size to
(0,0), the fallback to SW cursor will not happen until the next time the
cursor changes and xf86CursorSetCursor() is called again. In the meantime, the cursor will be invisible to the user.

This patch addresses that by adding _xf86CrtcFuncs::set_cursor_check and _xf86CursorInfoRec::ShowCursorCheck hook variants that return booleans. This allows to propagate errors up to xf86CursorSetCursor(), which can then fall back to using the SW cursor immediately.

v5:
- Removed parts of patch already committed as part of 14c21ea1.
- Adjusted code slightly to match surrounding code.
- Effectively reverted af916477 which is made unnecessary by this patch.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michael Thayer <michael.thayer@oracle.com>

commit c02f6a687c3d6bd0727322b055ee788f8efea005
Author: Michael Thayer <michael.thayer@oracle.com>
Date:   Thu Sep 29 20:23:12 2016 +0200

xfree86: Immediately handle failure to set HW cursor, v5

Based on v4 by Alexandre Courbot <acourbot@nvidia.com>

There is currently no reliable way to report failure to set a HW cursor. Still such failures can happen if e.g. the MODE_CURSOR DRM ioctl fails (which currently happens at least with modesetting on Tegra for format incompatibility reasons).

As failures are currently handled by setting the HW cursor size to (0,0), the fallback to SW cursor will not happen until the next time the cursor changes and xf86CursorSetCursor() is called again. In the meantime, the cursor will be invisible to the user.

This patch addresses that by adding _xf86CrtcFuncs::set_cursor_check and _xf86CursorInfoRec::ShowCursorCheck hook variants that return booleans. This allows to propagate errors up to xf86CursorSetCursor(), which can then fall back to using the SW cursor immediately.

v5: Updated the patch to apply to current git HEAD, split up into two patches (server and modesetting driver) and adjusted the code slightly to match surrounding code. I also removed the new exported function ShowCursorCheck(), as instead just changing ShowCursor() to return Bool should not affect its current callers.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michael Thayer <michael.thayer@oracle.com>
commit 3ef16dfb9830bd6b41ae428f4f213ae0c35c1056
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Sat Feb 4 00:03:24 2017 +0500

DMX: Fix linking

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e50da50118408a195d4d2e1b39817fe7c4447c56
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 25 15:08:25 2017 -0500

dri1: Remove some dead event code

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 0702f2e840370be53d129fc5e3c243dac47ee720
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 7 11:44:51 2017 +1000

xwayland: Replace hardcoded function name with __func__ in error msg

Reviewed-by: Pekka Paalanan <pekka.paalanan@collabora.co.uk>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3eb964e25243056dd998f52d3b00171b71c89189
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Jan 20 09:49:19 2017 +0000

xfree86: Take input_lock() for xf86ScreenCheckHWCursor

commit cfddd919cce4178baba07959e5e862d02e1665222
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Mon Jan 16 22:36:34 2017 +0000

xfree86: Take input lock for xf86TransparentCursor

commit 7198a6d4e74f684cb383b3e0f70dd2bae405e6e7
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Mon Jan 16 22:17:36 2017 +0000

xfree86: Take the input lock for xf86RecolorCursor

xf86RecolorCursor() may be called directly from XRecolorCursor as well
as from xf86ScreenSetCursor(). In the latter case, the input lock is
already held, but not for the former and so we need to add a wrapper
function that acquires the input lock before performing
xf86RecolorCursor()

References: https://bugs.freedesktop.org/show_bug.cgi?id=99358

commit bb9128fde86ddec6f6e3b0e145011a8e08b1d2b5
Author: Qiang Yu <Qiang.Yu@amd.com>
Date: Thu Jan 26 18:13:53 2017 +0800

present: disable page flip only when a slave crtc is active

This prevents the tearing of moving window in a composite WM
desktop when output slave is attached but none of its crtc is
really active.

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 45e0eb4b156f2155687cee268b07f10540fc507b
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Jan 26 16:24:03 2017 +0900

loader: Handle mod->VersionInfo == NULL

This can happen when a module fails to load:

Program received signal SIGSEGV, Segmentation fault.
UnloadModule (_mod=0x5555559d9280) at ../../../../hw/xfree86/loader/loadmod.c:848
848  name = mod->VersionInfo->modname;
(gdb) bt
#0  UnloadModule (_mod=0x5555559d9280) at ../../../../hw/xfree86/loader/loadmod.c:848
#1  0x0000555555555555dd1b in LoadModule (module=module@entry=0x5555559c7c0 "fbdev", options=0x0,
modreq=modreq@entry=0x0, errmsg=errmsg@entry=0x7fffffffe8ec) at ../../../../hw/xfree86/loader/loadmod.c:824
#2  0x0000555555555555edf9 in xf86LoadModules (list=list@entry=0x55555559dcf50, optlist=optlist@entry=0x0) at
../../../../hw/xfree86/common/xf86Init.c:1506
#3  0x0000555555555555ee7bc in InitOutput (pScreenInfo=pScreenInfo@entry=0x55555559abf0 <screenInfo>,
argc=argc@entry=4, argv=argv@entry=0x7fffffffbeb18) at ../../../../hw/xfree86/common/xf86Init.c:484
#4  0x0000555555555555a885c in dix_main (argc=4, argv=0x7fffffffbeb18, envp=<optimized out>) at
../../../../dix/main.c:197
#5  0x00007fffffff82b1 in __libc_start_main (main=0x555555593130 <main>, argc=4, argv=0x7fffffffbeb18,
init=<optimized out>, fini=<optimized out>, rtld_fini=<optimized out>, stack_end=0x7fffffffbeb08) at ../../dix/main.c:291
#6  0x000055555559316a in __start ()

Fixes: 8e83eac9e2d ("loader: Remove unused path and name from ModuleDescPtr")
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 7617a0a180a2cd3427a8ffa9534152df6a8febf
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:   Wed Jan 11 13:59:22 2017 +0800

dri2: refine dri2_probe_driver_name (v2)

V2:
1. update comment
2. check bustype if PCI
3. configure add libdrm version check for drmGetDevice

Get PCI information from info->fd with drmGetDevice instead of assuming the info->fd is the first entity of scrn which is not true for multi entities scrn.

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit b1a6986395f85b0194646a34b49367086dc9239d
Author: Martin Peres <martin.peres@linux.intel.com>
Date:   Wed Jan 25 17:29:15 2017 +0200

tests: shuffle around the linking order to please GNU ld

Classic GNU ld resolves symbol dependencies only forward, while GOLD seems to work regardless of the specified library order.

Suggested-by: Eero Tamminen <eero.t.tamminen@intel.com>
Reviewed-by: Mihail Konev <k.mvc@ya.ru>
Signed-off-by: Martin Peres <martin.peres@linux.intel.com>

commit cc0f173ea2936d1405e382329c1bd58c7af67ea7
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 14 15:56:46 2016 -0400

loader: Learn about the joy of snprintf

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8e83eacb9e2d2c6c2b9f8c84093a0c237f24
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 14 15:30:35 2016 -0400

loader: Remove unused path and name from ModuleDescPtr

Just a waste of memory. Path was never referenced at all, and name was
only used when unloading the module; we can just as well get the
module's internal idea of its name from VersionInfo.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8920dca0091675f1202c1198336cd4d8e0259100
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 14 11:45:58 2016 -0400

loader: Remove unused arguments from LoadModule

Nobody was ever calling this with a non-null argument for subdir list or
pattern list. Having done this, InitSubdirs is only ever called with a
NULL argument, so it's really just a complicated way of duplicating the
default list; we can remove that and just walk the list directly.

The minor error code was only ever used to distinguish among two cases
of LDR_BADUSAGE. Whatever.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ba726ba6a73efe1bd19708b058f481f28068a85b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 14 11:30:02 2016 -0400

loader: Turn LoaderListDirs into LoaderListDir

Callers only ever use this for a single directory anyway.

While we're at it, also move xf86DriverListFromCompile near its only
user in the X -configure code (and inline it out of existence), and
remove LoaderFreeDirList as it's unused (since X -configure is just
going to exit anyway, none of that code cares about cleanup).

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c54a9ca152898ec2ffe50f6d5b70d483b85c1c34
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 14 11:17:22 2016 -0400

loader: Move loader list details to internal header

There's no reason a driver should ever care about this.

Reviewed-by: Eric Anholt <eric@anholt.net>
commit d55284e8638ede15be851aa8a19a98dbb00ce20
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 13 16:06:50 2016 -0400
xfree86: Remove a stray reference to font modules

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d7879c46724a36bdf9a3a08e49903d001ffbf93e
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 13 15:58:33 2016 -0400
xfree86: Fix up some bad indentation
indent(1) gets confused by function-like macros with no trailing semicolon, which is fair enough really.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5c577da5f3a65c68d2ee12e4afca8f20c3e8ccf4
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 14 15:42:18 2016 -0400
xfree86: Remove DriverRec1 compat struct

The idea here is that the driver might have once been old enough to not have the driverFunc slot in DriverRec, with the module ABI not having changed when it was added. That was ages ago, and drivers always declare themselves with DriverRec not DriverRec1, so uninitialized slots will simply be zero.

Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2e3ad7e2506d9ebeb6667a5f229b5213d215451a5a
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 13 15:50:39 2016 -0400
loader: Remove silly "unspecified" version handling
Everybody using this functionality specifies a major version, which makes sense. If you don't care about a minor version, that's equivalent to saying you require minor >= 0, so just say so; likewise patch level.

Likewise ABI class is always specified.

Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ef533a912d18db31456b29a18c8bec6d49309565
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 1 08:29:06 2016 -0500

loader: Remove unused loader error codes and dead enum

The enum has been unused since at least the removal of elfloader.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7e3ccc8e4426a4b25a7a94d52775d334693572f
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Apr 13 14:59:27 2016 -0400

loader: Include fewer headers from xf86Module.h

This looks like more, but only if you don't compare it to the number pulled in by misc.h.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 49fa76801348f6d044128f7ec743693d0759d683
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 5 11:01:30 2015 -0400

loader: Don't add internal/ to the search path

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 97bd6e453676516891250389ec0fd695c110087c
loader: Remove *GetOS

This API is dumb. uname(3) exists, feel free to use it, but ideally write to the interface not to the OS. There are a couple of drivers using this API, they could all reasonably just not.

This also removes the OS name from the loader subdirectory path search. Having /usr/lib/xorg shared across OSes is a non-goal here.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jr cristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a6fcb15472bb7663ae917f5913bf07b6d3c7f186
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 16 11:30:18 2014 -0400

loader: Port from xfree86 to dix API

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jr cristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 778cf59762cdf528cf8672bfb5696844e91ebc3
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Apr 17 21:07:30 2016 +0100

xfree86: flatten pathlist management in the loader

Now that users can set the path only via LoaderSetPath(), we can simplify things.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jr cristau@debian.org>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 7b71055fc65242a9c4b651e72bb07db3f00c4e6
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Apr 17 21:07:29 2016 +0100

xfree86: remove dummy/dead function prototype for LoadDriver

Reviewed-by: Julien Cristau <jr cristau@debian.org>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
commit 57eecc704c3ddeaf0fece2d8fb1c3547f0b8fccc
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 21:07:27 2016 +0100

xfree86: remove references to LoadSubModule's path from the doc

Afaics the argument hasn't been part of the API since the documentation has been converted to xml with commit fc6ebe1e1d3 "Convert LinuxDoc documents to DocBook/XML."

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 2196bb50383bd96d364f799018c0693c9309ed7f
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 21:07:28 2016 +0100

xfree86: remove unused path from the LoadModule API

Similar to its little brother - LoadSubModule. Currently all call sites provide NULL anyway ;-) 

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit ea483af99a6351323afe00a0b630cd63310efdb1
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 19 17:20:49 2017 -0500

glx: Move Composite's synthetic visuals to a different select group

Should you find yourself using a 16bpp display while also using a compositor, you poor soul, you may find that your GLX applications behave strangely; in particular, glxgears will be transparent. This is because it clears to (0,0,0,0) which is transparent if you honor alpha, and it will choose the synthetic visual because it has the most available r/g/b bits.

To avoid this, bump synthetic visuals to a higher (less-preferred) select group. Unless the client explicitly asks for non-zero alpha bits, this will prefer any rgb565 visual ahead of the argb8888 visual.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 43efa6a6e4df903229dc9c508da4177a4adbdd4d8
Author: Adam Jackson <ajax@redhat.com>
glx: Send GLX_VISUAL_SELECT_GROUP_SGIX attribute for visuals

We already send this for fbconfigs. Mesa happens to implement glXChooseVisual relative to the fbconfig data, but that might not be true of NVIDIA’s libGL.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

composite: Export compIsAlternateVisual

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

composite: Remove a misleading comment

This comment is above compIsAlternateVisual, which used to be the only thing determining whether implicit redirect was needed. It’s not anymore due to the redirection exception list. That job is now performed by compImplicitRedirect, whose code is self-explanatory.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glamor: Two pass won't work on memory pixmaps

When selecting "CA_TWO_PASS" in glamor_composite_clipped_region() when the hardware does not support "GL_ARB_blend_func_extended”, we call glamor_composite_choose_shader() twice in a row, which in turn calls glamor_pixmap_ensure_fbo().

On memory pixmaps, the first call will set the FBO and the second one will fail an assertion in glamor_upload_picture_to_texture() because the FBO is already set.
Bail out earlier when the mask pixmap is in memory and the hardware capabilities would require to use two pass, so that the assertion is not failed and the rendering is correct.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99346
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit e7b8b7b131d8283c96ed0aff4593ab41441b5d3b
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 19 17:30:40 2017 -0500

kdrive: Remove non-evdev input drivers

Use evdev.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d740e1830a7ef32433df338c1e04dc6e9a927cb
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 19 17:30:39 2017 -0500

dmx: Remove non-evdev hardware input drivers

Use evdev.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6f531b0cdf8e9d7f711dd46071a26c50db3f1a16
Author: Mihail Konev <k.mvc@ya.ru>
Date: Sat Jan 14 12:51:45 2017 +0500

tests: Fix typo

Remove redundant/incorrect automake assignment.

Buglink: https://lists.x.org/archives/xorg-devel/2017-January/052320.html
Reported-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 3f8c2f94483bf0b96e129c97e4950170a3f05b4
Author: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Date: Fri Jan 13 18:44:01 2017 +0100
tests: Fix without-dtrace build

Signed-off-by: Giuseppe Bilotta <giuseppe.bilotta@gmail.com>
Reviewed-by: Mihail Konev <k.mvc@ya.ru>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit b44bef513bd83249036cb5a237dc20eb6088c17c
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 16 14:59:40 2017 -0500

Revert "tests: fix --disable-xorg build"

Pushed the wrong thing.

This reverts commit 730fd8c05f56da21894691bbd2e7ff37f67b45f4.

commits 30fdd8c05f56da21894691bbd2e7ff37f67b45f4
Author: Mihail Konev <k.mvc@ya.ru>
Date: Sat Jan 14 15:19:30 2017 +0500

tests: fix --disable-xorg build

commit 704a867f88f8f7652a8b7d5569b9be44e188457db4e
Author: Mihail Konev <k.mvc@ya.ru>
Date: Thu Jan 12 13:21:12 2017 +0500

tests: Remove obsolete libxservertest.la

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit 23f6db6c96e47be6cbeed78cc9e3f03987c3e29a9
Author: Mihail Konev <k.mvc@ya.ru>
Date: Thu Jan 12 13:21:11 2017 +0500

tests: Move test/{xi1,xi2}/tests to test/

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit ead5064581665ff40c177dd1b447949f1420e209
Author: Mihail Konev <k.mvc@ya.ru>
Date: Thu Jan 12 13:21:10 2017 +0500

tests: Convert test/ to single binary

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>
commit 773fc07e4c2f816966809492a924a9bd1a15d059
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Thu Jan 12 13:21:09 2017 +0500

tests: Convert test/xi2/ to single binary

   Reviewed-by: Adam Jackson <ajax@redhat.com>
   Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit 371576f64baa99c4ab1e736fbae7975a32577275
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Thu Jan 12 13:21:08 2017 +0500

tests: Convert test/xi1/ to single binary

   Reviewed-by: Adam Jackson <ajax@redhat.com>
   Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit ff66bca3e8797db709e03572d296358dc4b95653
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Thu Jan 12 13:21:07 2017 +0500

tests: Refactor wraps into protocol-common.c

   Part of refactoring the tests into a single binary,
   to make partial rebuild slightly faster and less verbose.

   Prepares for joining test/xi2/protocol-* into a single binary.

   Reviewed-by: Adam Jackson <ajax@redhat.com>
   Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit 45546219e117c1b6129fd9f9be2ce5b592486feb
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Tue Jan 3 23:40:18 2017 +0500

tests: Avoid libtool message

   The "copying selected object files" message appears as some source
   files have the same name, and some objects are included twice.

   Reviewed-by: Adam Jackson <ajax@redhat.com>
   Signed-off-by: Mihail Konev <k.mvc@ya.ru>

commit 785053d033e73d2deb0ded4b97eabfd881991978
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jan 9 18:10:21 2017 -0800
AttendClient of grab-pervious client must queue to saved_ready_clients [v2]

A client which is attended while a grab is blocking execution of its requests needs to be placed in the saved_ready_clients list so that it will get scheduled once the grab terminates. Otherwise, if the client never sends another request, there is no way for it to be placed in the ready_clients list.

v2: Wrap comment above mark_client_saved_ready.
   Remove test for OS_COMM_IGNORED which will always be true.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=99333
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 436da935bde43076f3052a758a463ed080e8a747
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:   Tue Jan 10 18:51:57 2017 +0800

modesetting: cleanup pci device open

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Hans de Goede <hdeoede@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 555e0a42d138ac8d83af62638752a1beb4b6d02d6
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:   Tue Jan 10 18:51:55 2017 +0800

randr: fix xserver crash when xrandr setprovideroutputsourcex

xrandr --setprovideroutputsourcex <screen> <gpu screen>
Xorg: ../../../xserver/dix/dispatch.c:4018: AttachOutputGPU:
Assertion `new->isGPU' failed.

GPUScreen is not allowed to be sink output.

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Hans de Goede <hdeoede@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1012510620de7dadd0ab18b19a8e1ffacd884601
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:   Tue Jan 10 18:51:54 2017 +0800

xfree86: fix wrong usage of xf86optionListMerge
present: Only call present_flip_notify if vblank->queued == FALSE

We are no longer using the present_flip_queue list only for presents which have already been submitted to the driver for page flipping, but also for those which we are queueing up to be flipped later, marked with vblank->queued == TRUE. We were incorrectly calling present_flip_notify for such entries, failing the assertion in present_flip_notify (or presumably resulting in other undesirable behaviour with assertions disabled).

Reproduction recipe: Run the JavaFX test case referenced by https://bugs.freedesktop.org/show_bug.cgi?id=98831#c6 and alt-tab out of it while it's fullscreen. May take a few attempts to hit the assertion failure.

Fixes: bab0f450a719 ("present: Fix presentation of flips out of order")
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=98854
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

xkb: Match key releases with an overlaid press

Testcase:

In ~/.xbindkeys

```
"xterm &"
    XF86LaunchA
```

In ~/ov.xkb:

```
xkb_keymap {
    xkb_keycodes { include "evdev" ];
    xkb_types   { include "complete" ];
    xkb_compat  { include "complete"
                      interpret Overlay1_Enable+AnyOfOrNone(all) {
                          action= SetControls(controls=Overlay1);}
    };
};
```
xkb_symbols { include "pc+inet(evdev)+us"
key <INS> { [ [ Overlay1_Enable ] ];
key <AE01> { overlay1 = <AE02> }; // Insert+1 => 2
key <TLDE> { overlay1 = <I128> }; // Insert+~ => XF86LaunchA
};

xkb_geometry { include "pc(pc104)
};

Apply this layout: 'xkbcomp ~/ov.xkb $DISPLAY'.
Run "xbindkeys -n -v"
In the exact order:
- press Insert
- press Tilde
- release Insert
- wait
- release Tilde
Keyboard input in the new terminal window(s) would be locked
until another Insert+Tilde.

Reported-by: Mariusz Mazur <mariusz.g.mazur@gmail.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 29a4f3db60fdeae7bca3aa2746bb43a1850fddd
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jan 2 15:38:08 2017 -0500

glamor: Squash unused variable warning
Accidentally introduced in 05e19644.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9874f73e88678c9e9eacbcba05e52336fc63a32712
Author: Kai-Heng Feng <kai.heng.feng@canonical.com>
Date:   Thu Dec 15 13:56:38 2016 +0800

edid: Add quirk for ADA 1024x600 7” display.
Detailed mode reports 108 mm x 68 mm which is for smaller display.
Maximum image size reports 15 cm x 10 cm which aligns with its physical
size, use this size instead.

Signed-off-by: Kai-Heng Feng <kai.heng.feng@canonical.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit 1b42f9505ff3a39b441464f553442079b750fe88
os: return 0 from check_timers if we touched any of them

Fixes a regression introduced in 0b2f30834b1a9f. If a driver posts input events during a timer function (wacom and synaptics do this during tap timeouts), ProcessInputEvents() is not called for these events. There are no new events on any fds, so the events just sit in the queue waiting for something else to happen.

Fix this by simply returning 0 from check_timers if we ran at least one of them or reset them all. This way the callers ospoll_wait will exit and continue with normal processing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c96c860b6420adf0d004707a323af304911a17d7d3
Author: Michal Srb <msrb@suse.com>
Date: Mon Dec 12 17:45:22 2016 +0200

xinerama: Swap the response in RRXineramaWriteMonitor

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 05e19644250698aa126a60bc671e85425d1784d1
Author: Hans De Goede <hdegoede@redhat.com>
Date: Tue Dec 20 13:00:43 2016 +0100

glamor: Trust eglGetPlatformDisplayEXT if it exists

If the libEGL we are using has eglGetPlatformDisplayEXT, yet it still returns NULL, then this very likely means that it does not support the type (e.g. EGL_PLATFORM_GBM_MESA) passed in, and then returning NULL is the right thing to do.

This avoids falling back to an eglGetDisplay() implementation which does not understands the passed in gbm handle, treats it as a pointer to something else completely, followed by a crash sooner or later.

Specifically this fixes using the nvidia binary driver, with nvidia's libEGL + the modesetting driver on a secondary GPU crashing inside glamor_egl_init() sometimes.

Cc: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
os,dix: Depend custom libs on libs, not objects

The custom os/os.O library reuses *.o files of os/libos.la.

The current rule assumes automake puts all the objects into per-target
am__*_la_OBJECTS variable. At least with AC_REPLACE_FUNCS, this no
longer holds (as wanted objects are put into LTLIBOBJS instead).

Depend on automake's result, the *.la library instead, to express demand
of any its dependencies being built.

Should be fixing randomly occurring "undefined reference to `strlcpy"
errors when linking Xvfb and other DDX-es that could use os.O.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mihail Konev <k.mvc@ya.ru>

xfree86: Add ModulePath support for OutputClass config Sections

Allow OutputClass config snippets to modify the module-path.

Note that any specified ModulePaths will be pre-pended to the normal
ModulePath. The idea behind this is that any output hardware specific
modules should have preference over the normal modules.

One use-case for this is the nvidia binary driver, this allows a
config snippet like this:

Section "OutputClass"
  MatchDriver "nvidia"
  Modulepath "/usr/lib64/nvidia/modules"
EndSection

To get the nvidia glx specific glx module loaded, but only when the
nvidia kernel driver is loaded.

Together with the glvnd work done recently, this allows the nouveau
+ mesa and nvidia-binary userspace stacks to co-exist on the same
system without any ldconfig / xorg.conf tweaking and the xserver will
automatically do the right thing depending on which kernel driver (nouveau or nvidia) is loaded.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit d75ffcd8b8c1e3c8e0d46debed533a9f2560f0a8
Author: Hans De Goede <hdegoede@redhat.com>
Date:   Mon Dec 12 17:03:16 2016 +0100

xfree86: Allow overriding primary GPU detection from an OutputClass section

Allow using:

Option "PrimaryGPU" "yes"

In an OutputClass section to override the default primary GPU device selection which selects the GPU used as output by the firmware.

If multiple output devices match an OutputClass section with the PrimaryGPU option set, the first one enumerated becomes the primary GPU.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit ab1a65b7755d081b41188104b21f4d21eaa3187b
Author: Hans De Goede <hdegoede@redhat.com>
Date:   Mon Dec 12 17:03:15 2016 +0100

xfree86: xf86platformProbe: split finding pci-info and setting primary GPU

This is a preparation patch for allowing an OutputClass section to override the default primary GPU device selection.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 9cd3cc752d69d9196898487b5712ee47b8291e077
Author: Hans De Goede <hdegoede@redhat.com>
Date:   Mon Dec 12 17:03:14 2016 +0100

xfree86: Add options support for OutputClass Options

Add support for setting options in OutputClass Sections and having these applied to any matching output devices.

Reviewed-by: Adam Jackson <ajax@redhat.com>
xfree86: Make OutputClassMatches take a xf86_platform_device

Make OutputClassMatches directly take a xf86_platform_device as argument, rather than an index into xf86_platform_devices. This makes things easier for callers which already have a xf86_platform_device pointer.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

xfree86: Free devlist returned by xf86MatchDevice

xf86MatchDevice returns a dynamically allocated list of GDevPtr-s, free this when we're done with it.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

Revert "damage: Make damageRegionProcessPending take a damage not a drawable"

The commit message makes the assertion that the code below damage is not allowed to change whether there's a damage monitor for the drawable. That turns out not to be the case! exa's mixed code, at least, will create and destroy a damage in PrepareAccess. The destroy path can then be catastrophic, as damageRegionProcessPending will attempt to RegionEmpty memory from the middle of a freed block.

I'd wanted that invariant for performance, but faster isn't worth broken, so revert it. I think what exa's doing is reasonable, so the better way to improve performance for the unmonitored case is to either revisit dynamically wrapping into the GC, or inline damage into dix.

This reverts commit 4e124203f2260daaf54155f4a05fe469733e0b97.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1389886
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6dd65a6e9bd41237afe7615bea1cc9510e82781a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 9 14:52:38 2016 -0500

shadow: Remove unused shadowAlloc

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8d985c1e696bf46edae0021f03f6f613ce37860
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 9 14:52:37 2016 -0500

shadow:Macro cleanup

shadowDamage is just obfuscation. The other two macros won't work outside shadow.c since the private key is in fact static there (meaning the extern decl is a lie).

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a530dc2a62349d922de77a75786a3795102aec11
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 9 14:52:36 2016 -0500

shadow: Remove indirection stubs

These are no longer used in the drivers.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1ae09800863992cfb1d5d21c600e2bc29e3b6ab2
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 9 14:52:35 2016 -0500

shadow: Lift 32->24 conversion from modesetting to dix

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2b486f052d8a7d3bada9eb2615aa19d79e999cbe
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 9 14:52:34 2016 -0500
shadowfb: Rename this particular shadow.c to shadowfb.c

So as not to conflict with the one in miext/shadow.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 98caba9f5669291e84f8610cc3071a9ac2df205f
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 9 14:52:29 2016 -0500

dix: Clear graphicsExposures for scratch GCs in one place

... instead of in all the CreateScratchGC callers.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e900a00f8dc5a1db63bafddd4ad1cde744975db1
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 9 14:52:28 2016 -0500

dix: Rename (and retype) PixmapPerDepth[1] to defaultStipple

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8b335d9068fe4e1f1423a4d86c22b69fcb819a5
Author: Ben Crocker <bcrocker@redhat.com>
Date: Tue Nov 15 16:34:38 2016 -0500

Fix a segfault that occurs if xorg.conf.d is absent:

In InitOutput, if xf86HandleConfigFile returns CONFIG_NOFILE (which it does if no config file or directory is present), the autoconfig flag is set, causing xf86AutoConfig to be called later on.

xf86AutoConfig calls xf86OutputClassDriverList via the call tree:

xf86AutoConfig =>
    listPossibleVideoDrivers =>
        xf86PlatformMatchDriver =>
            xf86OutputClassDriverList

and xf86OutputClassDriverList attempts to traverse a linked list that is a member of the XF86ConfigRec struct pointed to by the
global xf86configptr, which is NULL at this point because the 
XF86ConfigRec struct is only allocated (by xf86readConfigFile) 
AFTER the config file and directory have been successfully 
opened; the CONFIG_NOFILE return from xf86HandleConfigFile 
ocurs BEFORE the call to xf86readConfigFile which allocates 
the XF86ConfigRec struct.

Rx: In read.c (for symmetry with xf86freeConfig, which already 
appears in this file), add a new function xf86allocateConfig 
which tests the value of xf86configptr and, if it's NULL, 
allocates the XF86ConfigRec struct and deposits the pointer 
in xf86configptr. In xf86Parser.h, add a prototype for the 
ew xf86allocateConfig function.

Back in read.c, #include "xf86Config.h". In xf86readConfigFile, 
change the open-code call to calloc to a call to the new 
xf86allocateConfig function.

In xf86AutoConfig.c, add a call to the new xf86allocateConfig function 
to the beginning of xf86AutoConfig to make sure the XF86ConfigRec struct 
is allocated.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ben Crocker <bcrocker@redhat.com>

commit b365c5d16894a259dbf29db4ca2640d8ed768063
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date: Wed Dec 7 15:43:06 2016 +0200

test: fix distributing scripts

Fix the following error on 'make distcheck':

make[6]: *** No rule to make target 'scripts/xvb-piglit.sh', needed by 'scripts/xvb-piglit.sh.log'. Stop.
make[6]: Leaving directory '/home/pq/git/xserver/xorg-server-1.19.99.1/_build/sub/test'
Makefile:1367: recipe for target 'check-TESTS' failed

The setup to trigger this is:

$ ./configure --prefix=/home/pq/local --disable-docs
--disable-devel-docs --enable-xwayland --disable-xorg --disable-xvfb
--disable-xnest --disable-xquartz --disable-xwin --enable-debug

SCRIPT_TESTS is populated conditionally, but we should distribute the 
scripts in any case.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
composite: Fix repaint of borders (v2)

When going from border width zero to a non-zero border width, the Composite extension is informed via the ConfigNotify callback. The call-chain looks like this: compConfigNotify -> compReallocPixmap -> compSetPixmap -> TraverseTree -> compSetPixmapVisitWindow. However, at this time, pWindow->borderWidth was not yet updated. Thus, HasBorder() is false and the window border will not be repainted.

To fix this, thread the new bw through to the window visitor, and inspect that rather than HasBorder(). For the other callers of compSetPixmap the border does not change size, so we can pass pWin->borderWidth instead.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=98499
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

xfree86: Try harder to find atleast 1 non GPU Screen

If we did not find any non GPU Screens, try again ignoring the notion of any video devices being the primary device. This fixes Xorg exiting with a "no screens found" error when using virtio-vga in a virtual-machine and when using a device driven by simplesdrm.

This is a somewhat ugly solution, but it is the best I can come up with without major surgery to the bus and probe code.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

xfree86: Make adding unclaimed devices as GPU devices a separate step

This is primarily a preparation patch for fixing the xserver exiting with a "no screens found" error even though there are supported video cards, due to the server not recognizing any card as the primary card.
This also fixes the (mostly theoretical) case of a platformBus capable
driver adding a device as GPUscreen before a driver which only supports
the old PCI probe method gets a chance to claim it as a normal screen.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit b72d161cad15bee9dd082d30521c5383be526c56
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Sep 27 14:30:10 2016 +0200

xfree86: Remove redundant ServerIsNotSeat0 check from xf86CallDriverProbe

If foundScreen is TRUE, then all the code below the removed if
will not execute until we reach the return foundScreen; at the
end, so this entire if block is redundant.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit a46afee84d45fbbf4e4dad9376af95bbcc31d7c
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Nov 22 14:53:20 2016 +0100

randr: rrCheckPixmapBounding: do not shrink the screen_pixmap

The purpose of rrCheckPixmapBounding is to make sure that the
screen_pixmap is *large* enough for the slave-output which crtc is
being configured.

However until now rrCheckPixmapBounding would also shrink the
screen_pixmap in certain scenarios leading to various problems.

For example: Take a laptop with its internalscreen on a slave-output and
currently disabled and an external monitor at 1920x1080+0+0.
Now lets say that we want to drive the external monitor at its native
resolution of 2560x1440 and have the internal screen mirror the top left
part of the external monitor, so we run:

$ xrandr --output eDP --mode 1920x1080 --pos 0x0 --output HDMI \
   --mode 2560x1440 --pos 0x0

Here xrandr utility first calls RRSetScreenSize to 2560x1440, then it
calls RRSetCrtc 1920x1080+0+0 on the eDP, since this is a slave output,
rrCheckPixmapBounding gets called and resizes the screen_pixmap to
1920x1080, undoing the RRSetScreenSize. Then RRSetCrtc 2560x1440+0+0
gets called on the HDMI, depending on crtc->transforms this will
either result in a BadValue error from ProcRRSetCrtcConfig; or it will succeed, but the monitor ends up running at 2560x1440 while showing a 1920x1080 screen_pixmap + black borders on the right and bottom. Neither of which is what we want.

This commit removes the troublesome shrinking behavior, fixing this.

Note:

1) One could argue that this will leave us with a too large screen_pixmap in some cases, but rrCheckPixmapBounding only gets called for slave outputs, so xrandr clients already must manually shrink the screen_pixmap after disabling crtcs in normal setups.

2) An alternative approach would be to also call rrCheckPixmapBounding on RRSetCrtc on normal (non-slave) outputs, but that would result in 2 unnecessary resizes of the screen_pixmap in the above example, which seems undesirable.

Cc: Nikhil Mahale <nmahale@nvidia.com>
Cc: Dave Airlie <airlied@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 3b624aa9a9df86dc7d48149e0f18ca223b4355f1
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Nov 22 14:48:14 2016 +0100

randr: rrCheckPixmapBounding: Do not substract crtc non 0 x,y from screen size

The purpose of rrCheckPixmapBounding is to make sure that the screen_pixmap is large enough for the slave-output which crtc is being configured.

This should include crtc->x and crtc->y, otherwise the crtc might still end up scanning out an area outside of the screen-pixmap.

For example: Take a laptop with an external monitor on a slave-output at 1920x1080+0+0 and its internal-screen at 3840x2160+1920+0 and in gnome-settings-daemon move the external monitor to be on the right of the internal screen rather then on the left. First g-s-d will do a RRSetScreenSize to 5760*2160 (which is a nop), then it calls RRSetCrtc to move the slave output to 1920x1080+3840+0, since this is a slave output, rrCheckPixmapBounding gets called, since the 2 crtcs now overlap the code before this commit would shrinks the screen_pixmap to 3180*2160. Then g-s-d calls RRSetCrtc to move the internal screen to 3180*2160+0+0.

And we end up with the slave-output configured to scan-out an area
which completely falls outside of the screen-pixmap (and end up with
a black display on the external monitor).

This commit fixes this by not substracting the x1 and y1 coordinates
of the union-ed region when determining the new screen_pixmap size.

Cc: Nikhil Mahale <nmahale@nvidia.com>
Cc: Dave Airlie <airlied@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit e1d30075c923f96a375895d74ea12a3c92a640c6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 22 10:51:24 2016 -0500

configure: Enable glamor when building just Xwayland

Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 59ad0e6a416d8e23f9d962af67a16ee28ec7867b
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Nov 30 09:42:43 2016 +0100

xwayland: Fix use after free of cursors

Sometimes, Xwayland will try to use a cursor that has just been freed,
leading to a crash when trying to access that cursor data either in
miPointerUpdateSprite() or AnimCurTimerNotify().

CheckMotion() updates the pointer's cursor based on which xwindow
XYToWindow() returns, and Xwayland implements its own xwl_xy_to_window()
to fake a crossing to the root window when the pointer has left the
Wayland surface but is still within the xwindow.

But after an xwindow is unrealized, the last xwindow used to match the
xwindows is cleared so two consecutive calls to xwl_xy_to_window() may
not return the same xwindow.

To avoid this issue, update the last_xwindow based on enter and leave
notifications instead of xwl_xy_to_window(), and check if the xwindow
found by the regular miXYToWindow() is a child of the known last
xwindow, so that multiple consecutive calls to xwl_xy_to_window()
return the same xwindow, being either the one found by miXYToWindow()
or the root window.
glamor: restore vfunc handlers on init failure

In glamor_init(), if the minimum requirements are not met, glamor may fail after setting up its own CloseScreen() and DestroyPixmap() routines, leading to a crash when either of the two routines is called if glamor failed to complete its initialization, e.g:

(EE) Backtrace:
(EE) 0: Xwayland (OsSigHandler+0x29)
(EE) 1: /lib64/libpthread.so.0 (__restore_rt+0x0)
(EE) 2: Xwayland (glamor_sync_close+0x2a)
(EE) 3: Xwayland (glamor_close_screen+0x52)
(EE) 4: Xwayland (CursorCloseScreen+0x88)
(EE) 5: Xwayland (AnimCurCloseScreen+0xa4)
(EE) 6: Xwayland (present_close_screen+0x42)
(EE) 7: Xwayland (dix_main+0x4f9)
(EE) 8: /lib64/libc.so.6 (__libc_start_main+0x8f1)
(EE) 9: Xwayland (_start+0x2a)

Restore the previous CloseScreen() and DestroyPixmap() vfunc handlers in case of failure when checking for the minimum requirements, so that if any of the requirement is not met we don't leave the CloseScreen() and DestroyPixmap() from glamor handlers in place.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1390018

Xi: when creating a new master device, update barries for all clients

The previous code only worked when the barrier was created by the same client
as the one calling XIChangeDeviceHierarchy.

http://bugzilla.redhat.com/show_bug.cgi?id=1384432

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 5611585b87ce48428a66f98ece319a083f55d205
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Thu Nov 24 19:56:18 2016 +0100

xwayland: Don't send KeyRelease events on w1_keyboard::leave

Commits 816015648ffe660ddaaf07d4d192e555b723c372 and
fee0827a9a695600765f3d04376fc9babe497401 made it so that
w1_keyboard::enter doesn't result in X clients getting KeyPress events
while still updating our internal xkb state to be in sync with the
host compositor.

w1_keyboard::leave needs to be handled in the same way as its
semantics from an X client POV should be the same as an X grab getting
triggered, i.e. X clients shouldn't get KeyRelease events for keys
that are still down at that point.

This patch uses LeaveNotify for these events on w1_keyboard::leave and
changes the current use of KeymapNotify to EnterNotify instead just to
keep some symmetry between both cases.

On ProcessDeviceEvent() we still need to deactivate X grabs if needed
for KeyReleases.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2de37eb71b928f6f50c109536c2f7b77293ad8e3
Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Date:   Wed Nov 23 09:54:27 2016 +0200

xwayland: fix order of calloc() args

The definition by the manual is:
    calloc(size_t nmemb, size_t size)

Swap the arguments of calloc() calls to be the right way around.

Presumably this makes no functional difference, but better follow the
spec.
Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cf8860786c3e301486cd2853bc82977ba75e6b17
Author: Rhys Kidd <rhyskidd@gmail.com>
Date:   Fri Oct 28 22:44:30 2016 -0400

test: Fix stray Makefile reference to removed os test

Fixes the following warning:

test/Makefile.am:69: warning: variable ‘os_LDADD’ is defined but no program or
test/Makefile.am:69: library has ‘os’ as canonical name (possible typo)

Introduced upon the removal of test/os in:

commit 6a5a4e60373c1386b311b2a8bb666c32d68a9d99
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 8 14:39:46 2015 -0800

Remove SIGIO support for input [v5]

This removes all of the SIGIO handling support used for input
throughout the X server, preparing the way for using threads for input
handling instead.

Places calling OsBlockSIGIO and OsReleaseSIGIO are marked with calls
to stub functions input_lock/input_unlock so that we don't lose this
information.

xfree86 SIGIO support is reworked to use internal versions of
OsBlockSIGIO and OsReleaseSIGIO.

v2: Don't change locking order (Peter Hutterer)
v3: Comment weird && FALSE in xf86Helper.c
    Leave errno save/restore in xf86ReadInput
    Squash with stub adding patch (Peter Hutterer)
v4: Leave UseSIGIO config parameter so that
    existing config files don't break (Peter Hutterer)
v5: Split a couple of independent patch bits out
    of kinput.c (Peter Hutterer)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Signed-off-by: Rhys Kidd <rhyskidd@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f0f8d5bb535814d5803df541b0ef4cb0354fabbe
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 18 09:48:28 2016 -0800

Bump to post-1.19 development version

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 45af7fcb522464922831005d63cc362dc09f19a9
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Nov 10 09:36:40 2016 +0100

xwayland: Remove MIPOINTER() definition

Not needed anymore now that mipointer exposes an API for that,
miPointerInvalidateSprite()

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7e5c9bdf73e4185ac4cf7f044da0793a5cc3e62c
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 15 08:12:05 2016 -0800

Bump version to 1.19.0

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea8efb3a997e15d27d362762e6c85d59487f9864
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 2 13:25:33 2016 -0700

dix: Make sure client is not in output_pending chain after closed (RH 1382444)

I think it is possible that output could get queued to a client during
CloseDownClient. After it is removed from the pending queue, active
grabs are released, the client is awoken if sleeping and any work
queue entries related to the client are processed.

To fix this, move the call removing it from the output_pending chain
until after clientGone has been set and then check clientGone in
output_pending_mark.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1382444
Signed-off-by: Keith Packard <keithp@keithp.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 7513da40a656317ad3aa101651d29373de99c798
Author: Timo Aaltonen <tjaalton@ubuntu.com>
Date: Wed Nov 2 17:18:11 2016 +0200

dri2: Sync i965_pci_ids.h from mesa

Import changes from these mesa commits:
85ea8deb26da420 i965: Removing PCI IDs that are no longer listed as Kabylake.
bdff2e554735ed9 i956: Add more Kabylake PCI IDs.
f1fa8b4a1ca73fa i965/bxt: Add 2x6 variant
d1ab544bb883d04 i965/chv: Display proper branding
20e8ee36627f874 i965/skl: Update Skylake renderer strings
644c8a515192d28 i965/skl: Add two missing device IDs

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Timo Aaltonen <tjaalton@ubuntu.com>

commit 4cfee398726ad8f9db4b632ade7d6cab8b78282e
Author: Ian Ray <ian.ray@ge.com>
Date: Wed May 25 10:41:53 2016 +0300

xwayland-shm: block signals during fallocate

posix_fallocate() does an explicit rollback if it gets EINTR, and
this is a problem on slow systems because when the allocation size
is sufficiently large posix_fallocate() will always be interrupted
by the smart scheduler's SIGALRM.

Changes since v1 - big comment in the code to explain what is going on

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ian Ray <ian.ray@ge.com>
Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Acked-by: Daniel Stone <daniels@collabora.com>

commit 512e75a23b7f6339593c3ae6942f0c420a975fd3
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 28 09:32:42 2016 -0700

Bump to 1.18.99.902 (1.19 RC2)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit c85f81825e196e96337347e0ce3a538fb2e38f16
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 28 09:28:32 2016 -0700
dix: Bump MAXHASHSIZE for the resource db [v2]

[This was originally a workaround for a client-side resource leak:


Obviously that's a broken app, but the performance problem it
illustrates - that walking the linked list ends up burning all your CPU
time - is real enough. - ajax]

v2: Replace with a shorter code sequence which computes the same
results for all but numBits == 7

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 356db2340f5b473a7191c7969586ca5b0396c48f
Merge: 9ed5b26354 03d99ef729
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 28 09:05:54 2016 -0700

  Merge remote-tracking branch 'jturney/master'

commit 9ed5b263542e5245317927828f0515db6c0a54c8
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 28 08:04:43 2016 -0700

  os: Recompute whether any clients are ready after ProcessWorkQueue() (bug 98030)

  If a work proc wakes up a sleeping client and it is ready to execute,
  we need to re-compute the local 'are_ready' value before deciding
  what timeout value to use in WaitForSomething.

  Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=98030
  Signed-off-by: Keith Packard <keithp@keithp.com>
  Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 2c91f3235a4e1655e18cb014922529161051ffbb
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 5 09:41:44 2016 -0700

  ephyr: Leave window unmapped for -glamor-skip-present [v2]

  If we're never painting anything in the window, we probably don't need
  to map it.

  v2: Drop ephyr_glamor_gles2 from hostx.c
ramdac: Check sPriv != NULL in xf86CheckHWCursor()

xf86CheckHWCursor() would dereference sPriv without NULL checking it. If Option "SWCursor" is specified, sPriv == NULL. In this case we should assume that HW cursors are not supported.

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 03d99ef729178dd99268f185fb45320a29382091
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Thu Oct 6 22:13:07 2016 +0100

glx/dri2: Don't build DRI loader if DRI2 isn't enabled

This partially reverts 501d8e2b.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 5cb328338684d8e5b03913c47475bfcd7acffec4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 26 12:21:16 2016 +0200

inputthread: On Linux leave the main thread's name as-is

On Linux, setting the main thread's name changes the program name (/proc/self/comm). Setting it to MainThread breaks scripts that rely on the command name, e.g. ps -C Xorg.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 007f8ee61a35ceda36b43e772a9a1074b8e27a06
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Fri Oct 21 10:11:45 2016 +0200

xwayland: Activate and enable touch devices
On some random condition, a touch event may trigger a crash in Xwayland in GetTouchEvents().

The (simplified) backtrace goes as follow:

```
(gdb) bt
#0  GetTouchEvents() at getevents.c:1892
#1  QueueTouchEvents() at getevents.c:1866
#2  xwl_touch_send_event() at xwayland-input.c:652
#5  wl_closure_invoke() from libwayland-client.so.0
#6  dispatch_event() from libwayland-client.so.0
#7  wl_dispatch_queue_pending() from libwayland-client.so.0
#8  xwl_read_events() at xwayland.c:483
#9  ospoll_wait() at ospoll.c:412
#10 WaitForSomething() at WaitFor.c:222
#11 Dispatch() at dispatch.c:412
#12 dix_main() at main.c:287
#13 __libc_start_main() at libc-start.c:289
#14 _start ()
```

The crash occurs when trying to access the sprite associated with the touch device, which appears to be NULL. Reason being the device itself is more a keyboard device than a touch device.

Moreover, it appears the device is neither enabled nor activated (inited=0, enabled=0) which doesn't seem right, but matches the code in init_touch() from xwayland-input.c which would enable the device if it was previously existing and otherwise would create the device but not activate it.

Make sure we do activate and enable touch devices just like we do for other input devices such as keyboard and pointer.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit f68ba7b81f7e765380664fccc92f3e689c6c48c2
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Tue Oct 25 19:24:49 2016 +0200

xwayland: Transform pointer enter event coordinates

Pointer enter event coordinates are surface relative and we need them to be screen relative for pScreen->SetCursorPosition().

https://bugzilla.gnome.org/show_bug.cgi?id=758283

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
modesetting: undefine MODESETTING_OUTPUT_SLAVE_SUPPORT

Commit c7e8d4a6ee9542f56cd241cf7a960fb8223a6b22 had already undefine MODESETTING_OUTPUT_SLAVE_SUPPORT but commit 9257b1252da9092ddc676f9ec9abeb2b33dfad272 didn't notice that.

Signed-off-by: Nikhil Mahale <nmahale@nvidia.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

xfree86: Xorg.wrap: Do not require root rights for cards with 0 outputs

Prior to this commit the Xorg.wrap code to detect if root rights are necessary checked for DRM_IOCTL_MODE_GETRESOURCES succeeding *and* reporting more then 0 output connectors.

DRM_IOCTL_MODE_GETRESOURCES succeeding alone is enough to differentiate between old drm only cards (which need ums and thus root) and kms capable cards.

Some hybrid gfx laptops have 0 output connectors on one of their 2 GPUs, resulting in Xorg needlessly running as root. This commits removes the res.count_connectors > 0 check, fixing this.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

DRI2: Sync radeonsi_pci_ids.h from Mesa

Fixes DRI2 client driver name mapping for newer AMD GPUs with the modesetting driver, allowing the DRI2 extension to initialize.
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit f6ff2e974c5de3071c899eba828789f1d4d8645a
Author: Mihail Konev <k.mvc@ya.ru>
Date: Sat Oct 15 04:13:43 2016 +0000

modesetting: fix glamor ifdef
Add a missing ifdef needed for --disable-glamor.

Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Reviewed-by: Jon Turney <jon.turney@dronencode.org.uk>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 8feea917b6468e1b116d922f86484498874fb5c
Author: Mihail Konev <k.mvc@ya.ru>
Date: Fri Oct 14 02:40:59 2016 +0000

xwin: make glx optional again
Commit 501d8e2b removed --enable-aiglx, but made xwin always be
--enable-glx.

Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Jon Turney <jon.turney@dronencode.org.uk>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit d13cb974426f7f1110b06db08c4ebbb46ff8975f7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 21 06:27:57 2016 +1000

ddx: add new call to purge input devices that weren't added
Special case for the systemd-logind case in xfree86: when we're vt-switched
away and a device is plugged in, we get a paused fd from logind. Since we
can't probe the device or do anything with it, we store that device in the
xfree86 and handle it later when we vt-switch back. The device is not added to
inputInfo.devices until that time.

When the device is removed while still vt-switched away, the the config system
never notifies the DDX. It only runs through inputInfo.devices and our device
was never added to that.

When a device is plugged in, removed, and plugged in again while vt-switched
away, we have two entries in the xfree86-specific list that refer to the same
device node, both pending for addition later. On VT switch back, the first one (the already removed one) will be added successfully, the second one (the still plugged-in one) fails. Since the fd is correct, the device works until it is removed again. The removed devices' config_info (i.e. the syspath) doesn't match the actual device we added tough (the input number increases with each plug), it doesn't get removed, the fd remains open and we lose track of the fd count. Plugging the device in again leads to a dead device.

Fix this by adding a call to notify the DDX to purge any remainders of devices with the given config_info, that's the only identifiable bit we have at this point.

https://bugs.freedesktop.org/show_bug.cgi?id=97928

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 8fcf2fa78f9257933b17c7dc9a03a2034e3076f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 20 15:45:46 2016 +1000

xfree86: swap the list of paused devices to an xorg_list

No functional changes but it makes it easier to remove elements from the middle of the list (future patch).

We don't have an init call into this file, so the list is manually initialized.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 28d8855cd4e3be8831fb1c17bf1d205bd8465d1e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 20 15:25:51 2016 +1000

xfree86: use the right option traversal list to search for an option

They're identically laid-out structs but let's use the right type to search for our desired value.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 7fc96fb02dade4a86f2fc038f3cf5f2d9c0cda00
Author: Emil Velikov <emil.velikov@collabora.com>
Date: Fri Oct 21 19:06:00 2016 +0100
glamor: don't look for non-existing EGL_KHR_platform_base

The extension does not exist in the registry, thus needs to know they're using EGL 1.5 in order to determine the eglGetPlatformDisplay function pointer is valid.

Thus brings us into some lovely circular dependency.

Since mesa won't be able (in the foreseeable future) to export the KHR flavour of extension (another way one could assume that EGL 1.5 is available) just drop all the heuristics and use the EGL_EXT_platform_base extension.

In practise (checked with the Mali driver) any EGL 1.5 driver will advertise support for EGL_EXT_platform_base.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 5dcb0666b82f5ab00f3d22e86f05ac14b0d5341e
Author: Mihail Konev <k.mvc@ya.ru>
Date:   Sat Oct 15 17:59:05 2016 +0000

os/inputthread: Ensure pollfd refreshing

When putting a device node into a poll-request list, do not overwrite a "please-remove" element with the same fd, so that a closed device file is ospoll_remove'd prior to being ospoll_add'ed.

Before, the opposite order was possible, resulting in ospoll_add considering the newly opened file being already polled, should it have a fd for which the "please-remove" has not been procesed yet. In this case, no further events would be seen from the device.

Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Regressed-in: 52d6a1e832a5e62289dd4f32824ae16a78dfd7e8
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97880
Patchwork: https://patchwork.freedesktop.org/patch/113763/
Hit-and-Reduced-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-and-Reduced-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9cf0bd4d4507dca6234024605b14724713f2109e
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Oct 5 18:28:45 2016 +0900

xf86Cursor: Take the input lock in xf86Set/MoveCursor
Prevents the HW cursor from intermittently jumping around when the cursor image is changed while the cursor is being moved. This is hardly noticeable in normal operation but can be quite confusing when stepping through these codepaths in a debugger.

Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 011ce3297d924e78ef0254b0451561946bd8be8d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Oct 5 18:01:29 2016 +0900

xf86Cursor: Use PRIME master xf86CursorScreenRec::HotX/Y for slaves
xf86CursorScreenRec::HotX/Y contain 0 for PRIME slave screens.

Fixes incorrect HW cursor position on PRIME slave screens.

Also hoist the hotspot translation out from xf86ScreenSet/MoveCursor to xf86Set/MoveCursor, since the hotspot position is a property of the cursor, not the screen.

v2:
* Squash patches 1 & 2 of the v1 series, since it’s basically the same problem
* Use the master screen’s xf86CursorScreenRec::HotX/Y instead of CursorRec::bits->x/yhot, since CursorRec::bits can be NULL (Hans de Goede)

Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit e3f53aa3a8dfc323c75837cd41e35b8e895d547e
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 6 14:42:34 2016 -0400

glx/dri2: Don't include drm headers

They're not needed, and they won't be present on win32.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Emil Velikov <emil.l.veikov@gmail.com>

commit 97a8353ec1192d8d3bd2ebb99e5687cb91427e09
Author: Peter Harris <pharris@opentext.com>
Date: Thu Sep 29 11:17:48 2016 -0400

Fix id in error when resource does not exist
Always set client->errorValue before returning an error.

Test program:

```c
int main(int argc, char *argv[]) {
    int screen = 0;
    xcb_connection_t *c = xcb_connect(NULL, &screen);
    if (!c) {
        printf("Cannot connect\n");
        return 1;
    }

    xcb_void_cookie_t tok = xcb_free_gc_checked(c, BAD_VALUE);
    xcb_g_context_error_t *err = (xcb_g_context_error_t *)xcb_request_check(c, tok);
    if (!err) {
        printf("Unexpected request success\n");
        return 1;
    }
    if (err->bad_value != BAD_VALUE) {
        printf("Error: Got 0x%X, expected 0x%X\n", err->bad_value, BAD_VALUE);
        return 1;
    }
    printf("Success! Got expected bad value of 0x%X\n", BAD_VALUE);
    return 0;
}
```

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit f4a41155479e68bf55740c1dfffac78e4c02087
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 5 12:34:34 2016 -0400

glamor: Use eglGetPlatformDisplay{,EXT} if we can

eglGetDisplay forces the implementation to guess which kind of display
it’s been handed. glvnd does something different from Mesa, and in
general it’s impossible for the library to get this right. Add a new
inline that gets the logic right, and works around a quirk in epoxy.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 95d3980c7c991b2cc8dcadac173635641ae15865
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Oct 5 17:29:36 2016 +0900

test: Use SXSERVER_BUILDDIR for Xvfb executable path
Fixes make check with out-of-tree builds.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit cc69d4f110bd8a87b9e6c238ebeb8d85cbfd93ec
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 29 18:35:04 2016 +0100

xfree86/dri: remove libdrm runtime checks

As of last commit all the places in our configure.ac require version 2.3.1 (released back in 2007) or later. With the latter introducing the 1.3.0 version, as returned by drmGetLibVersion.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 962962e978e5cededc20e577a36f77eb24d14bda
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 29 18:35:03 2016 +0100

configure.ac: bump the required libdrm version to 2.3.1

It fixes a bug where the version reported by drmGetLibVersion() was 'wrong'. See libdrm commit 79038751ffe("libdrm: add support for server side functionality in libdrm") for details.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 74a8b320fa5068cd86d8b8b8e73fa92caae9a8a6
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 29 18:35:02 2016 +0100

configure.ac: use $LIBDRM over libdrm when using pkg-config

The former contains the minimum required version which is required. Strictly speaking Xephyr/Xwayland may require version greater than the current 2.3.0, although I've personally haven't checked the specifics.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 45e1220486139c483a69366323f8f590beffa19d
Author: Emil Velikov <emil.l.velikov@gmail.com>
configure.ac: default to DRI=yes on solaris platforms

Afaict there's little-to-no reason/way one would want xserver without DRI support on Solaris platforms.

This will allow us to simplify/fix all the libdrm detection in the next commit.

Cc: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 501d8e2beb337e072e93c9310fcd927a099b9c3b
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 29 18:41:19 2016 +0100

configure.ac: remove --enable-aiglx option

Presently the option guards both direct and accelerated indirect GLX. As such when one toggles it off they end up without any acceleration.

Remove the option all together until we have the time to split/rework things.

Cc: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 7ec350ddd42479595f0ea88f86085af941913617
Author: Emil Velikov <emil.l velikov@gmail.com>
Date:   Thu Sep 29 18:41:18 2016 +0100

xfree86: remove aiglx cmd/xorg.conf option

The option is misleading and using it leads to disabling both direct and accelerated indirect GLX. In such cases the xserver GLX attempts to match DRISW (IGLX) configs with the DRI2/3 ones (direct GLX) leading to all sorts of fun experience.

Remove the option until we get a clear split and control over direct vs indirect GLX.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
commit 04ef8558a731bf070abf1b40c7e6b54aad8f5f31
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Thu Sep 29 18:41:17 2016 +0100

glx: drisw is not accelerated IGLX, reflect that in log messages

The messages from glxdricommon.c (used by drisw) still have the A, but at least we're don't have it locally.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 1c2fcb95484777ca9aa80b3f814ad64e81f825f1
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Oct 5 08:36:21 2016 +0200

glamor: Fix pixmap offset for bitplane in glamor_copy_fbo_cpu

Commit cba28d5 - "glamor: Handle bitplane in glamor_copy_fbo_cpu"
introduced a regression as the computed pixmap offset would not match the actual coordinates and write data elsewhere in memory causing a segfault in fbBltOne().

Translate the pixmap coordinates so that the data is read and written at the correct location.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97974
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit a6e85e6330adcdcbcd939c0963daaecc96d41a2a
Author: Jonas Ådahl <jadahl@gmail.com>
Date: Tue Sep 13 15:17:08 2016 +0800

xwayland: Add pointer warp emulator

Emulate pointer warps by locking the pointer and sending relative motion events instead of absolute. X will keep track of the "fake" pointer cursor position given the relative motion events, and the client warping the cursor will warp the faked cursor position.

Various requirements need to be met for the pointer warp emulator to enable:

The cursor must be invisible: since it would not be acceptable that a fake cursor position would be different from the visual representation of the cursor, emulation can only be done when there is no visual representation done by the Wayland compositor. Thus, for the emulator
to enable, the cursor must be hidden, and would the cursor be displayed while the emulator is active, the emulator would be destroyed.

The window that is warped within must be likely to have pointer focus. For example, warping outside of the window region will be ignored.

The pointer warp emulator will disable itself once the fake cursor position leaves the window region, or the cursor is made visible.

This makes various games depending on pointer warping (such as 3D first-person shooters and strategy games using click-to-drag-map like things) work.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>

commit 467ab142ff926e1475440dd5f649a49f45808fa
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Tue Sep 13 15:17:07 2016 +0800

xwayland: Translate a pointer grab with confineTo to pointer confinement

Translate grabbing a pointer device with confineTo set to a window into confining the Wayland pointer using the pointer constraints protocol. This makes clients that depend on the pointer not going outside of the window region, such as certain games and virtual machines viewers, to function more properly.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ca7b593fbe54bc9a0b44037e62e4b4401cbd375e
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Thu Sep 29 10:42:13 2016 +0800

xwayland: Bind pointer constraints global

Will be used by the pointer warp emulator.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c14a8c6cc0fcd56c380d1220c2a8f04b74edee93
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Tue Sep 13 15:17:05 2016 +0800

xwayland: Put getting a xwl_window from a Window in a helper

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
xwayland: Set unaccelerated pointer motion delta if available

If there was an relative pointer motion within the same frame as an absolute pointer motion, provide both the absolute coordinate and the unaccelerated delta when setting the valuator mask.

If a frame contained only a relative motion, queue an absolute motion with an unchanged position, but still pass the unaccelerated motion event.

If the wl_seat advertised by the compositor is not new enough, assume each relative and absolute pointer motion arrives within their own separate frames.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xwayland: Dispatch pointer motion events on wl_pointer.frame if possible

Wait until wl_pointer.frame with dispatching the pointer motion event, if wl_pointer.frame is supported by the compositor. This will later be used to combine unaccelerated motion deltas with the absolute motion delta.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xwayland: Add a new input device used for pointer warping/locking

Generating relative and absolute movement events from the same input device is problematic, because an absolute pointer device doesn’t expect to see any relative motion events. To be able to generate relative pointer motion events including unaccelerated deltas, create a secondary pointer device ‘xwayland-relative-pointer’, and use that for
emitting relative motion events.

Signed-off-by: Krzysztof Sobiecki <sobkas@gmail.com>
Signed-off-by: Jonas Ådahl <jadahl@gmail.com>

commit 011ada724afdba8955f1d4844b306e61390eedad8
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Tue Sep 13 15:17:01 2016 +0800

xwayland: Move pointer button initialization into helper

We'll later use this for initializing buttons for the relative pointer since they need to be the same.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>

commit a77d0715c6272cc1778a54dcd8cb68dc28cd761
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Tue Sep 13 15:17:00 2016 +0800

xwayland: Split up device class init/release into functions

Put device class initialization in init_[device class](xwl_seat) and releasing in release_[device class](xwl_seat). The purpose is to make it easier to add more type of initialization here later, without making the function too large.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9037ba736a0424f3ee2fb6ac20c17687613dc452
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Thu Sep 29 10:40:01 2016 +0800

xwayland: Bind the relative pointer manager

Will be used for getting unaccelerated motion events and later for relative motions used by a pointer warp emulator.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0fae3be0686cae746e03d6e4592f97278c42275d
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Tue Sep 13 15:16:57 2016 +0800

dix: Add valuator_mask_set_absolute_unaccelerated
Add a valuator mask setter for setting absolute coordinate combined with unaccelerated motion deltas. This will later be used by Xwayland to combine a wl_pointer.motion() event with the unaccelerated delta of a wp_relative_pointer.relative_motion() event.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bbd4854f81ebba119202c5f6ff4679c62afec1f
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Tue Sep 27 19:03:26 2016 +0200

xwayland: Apply touch abs axes transformation before posting events

The way we map the touch absolute device to screen coordinates can't work across wl_output mode and geometry events. Instead, set up a fixed coordinate space, and transform touch events according to the screen coordinate space as they happen.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>

commit ee526285882995289846648f3122c4295e3e8284
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Wed Sep 28 12:35:36 2016 +0200

xwayland: Apply "last pointer window" check only to the pointer device

The checks in xwayland's XYToWindow handler pretty much assumes that the sprite is managed by the wl_pointer, which is not entirely right, given 1) The Virtual Core Pointer may be controlled from other interfaces, and 2) there may be other SpriteRecs than the VCP's.

This makes XYToWindow calls return a sprite trace with just the root window if any of those two assumptions are broken, eg. on touch events.

So turn the check upside down, first assume that the default XYToWindow proc behavior is right, and later cut down the spriteTrace if the current device happens to be the pointer and is out of focus. We work our way to the device's lastSlave here so as not to break assumption #1 above.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Acked-by: Olivier Fourdan <ofourdan@redhat.com>

commit 2b6a068d21997ca812e665ed058e72eb4626c129
Author: Keith Packard <keithp@keithp.com>
fb: XYPixmap format PutImage includes all planes in depth

Unlike GetImage, for which the provided planemask restricts the data delivered, for PutImage in XYPixmap format, all of the planes in the drawable depth are sent and those outside the plane mask are simply ignored.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c9b8ce73927a43ed82b267d1c1985445f24827cc
Author: Mark Yao <mark.yao@rock-chips.com>
Date:   Fri Sep 30 16:42:35 2016 +0800

    glamor: spans: fixup wrong count on glDrawArrays

In commit 9e9fcf5 (glamor: Add a helper function for the common GL_QUADS fallback pattern.), the glDrawArrays count change was accidentally changed to nbox.

    Fixes xlogo with MESA_GL_VERSION_OVERRIDE=2.1 and
    MESA_GLSL_VERSION_OVERRIDE=120

    Signed-off-by: Mark Yao <mark.yao@rock-chips.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2aca2dadada4cc378049457885d33a4e3de9768
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Sep 24 14:42:28 2016 -0700

    glamor: Fix link failure on GLES2.

    Current Mesa requires that the precision qualifier on uniforms matches
between stages, even if (as in this case) the uniform isn't used in
one of the stages.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>

commit 20fcdfcf39497fe44d2a3200338523effb8e2bc6
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Sep 24 14:30:27 2016 -0700

    glamor: Remove #if 0-ed picture dumping code.

    I don't think anybody has run this code since it was pulled into the
server.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4b5326aea539249fceded91bf7806a708eeca651
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Sep 24 14:04:14 2016 -0700

glamor: Remove many unused glamor util functions.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 117d614d1ba324b02c50a430c2e0d22a384f03
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Sep 24 22:26:17 2016 +0300

glamor: Require GL_OES_texture_border_clamp for GLES2.

The extension came out in 2000, and all Mesa-supported hardware that
can do glamor supports it. We were already relying on the ARB version
being present on desktop.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7a5ddf8da5ed817a2dd6f7a1b9197a5ceec60b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 28 15:27:20 2016 -0400

test: Re-enable a couple of GetImage tests

Fixed in 6c6f09aac.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit c7a9161da5eb80ef0444601621b52314255b0ce5
Author: Francois Tigeot <ftigeot@wolfpond.org>
Date:   Fri Sep 23 11:36:49 2016 +0200

Enable XTRANS_SEND_FDS on FreeBSD, DragonFly and OpenBSD

This code is based on local patches which had been sitting in
FreeBSD and OpenBSD ports.

Reviewed-by: Matthieu Herrb <matthieu@herrb.eu>
Signed-off-by: François Tigeot <ftigeot@wolfpond.org>

commit 6c6f09aa7f1d1367a042087b7681c7fdef1d1e0f
Author: Keith Packard <keithp@keithp.com>
Date: Sun Sep 25 14:19:08 2016 +0300

xace: Don't censor window borders

GetImage is allowed to return window border contents, so don't remove that from the returned image.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 380c2ca25ec4dd30f938e382ff4af60bc253785
Author: Hans de Goede <hdegoede@redhat.com>
Date: Fri Sep 23 14:11:52 2016 +0300

XF86VidMode: Fix free() on walked pointer

Based on: https://patchwork.freedesktop.org/patch/85636/

Rewritten to just not walk the pointer.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Emi Velikov <emil.l.velikov@gmail.com>

commit 220d327ee00ec1278d50d4ba8cd20612e8b77c8f
Author: Hans de Goede <hdegoede@redhat.com>
Date: Fri Sep 23 14:06:52 2016 +0300

Xext: Fix a memory leak

Based on: https://patchwork.freedesktop.org/patch/85636/

Rewritten to also free the resources allocated by panoramix_setup_ids().

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Emi Velikov <emil.l.velikov@gmail.com>

commit 3abf791ab82cb3dc7ead0317fe0262a71340753
Author: Michael Thayer <michael.thayer@oracle.com>
Date: Fri Sep 16 17:51:25 2016 +0200

modesetting: only fall back to drmModeSetCursor() on -EINVAL

This change effectively reverts commit 074cf58. We were falling back from
drmModeSetCursor2() to drmModeSetCursor() whenever the first failed. This fall-back only makes sense on pre-mid-2013 kernels which implemented the cursor_set hook but not cursor_set2, and in this case the call to drmModeSetCursor2() will always return -EINVAL. Specifically, a return value of -ENXIO usually means that neither are supported.

Signed-off-by: Michael Thayer <michael.thayer@oracle.com>
[hdengoede@redhat.com: initialize ret to -EINVAL]
Reviewed-by: Hans de Goede <hdengoede@redhat.com>
Signed-off-by: Hans de Goede <hdengoede@redhat.com>

commit 363f4273dd4ae3e26cc57ecb6c20f27e6c813d8
Author: Daniel Martin <conserve.noise@gmail.com>
Date: Fri Dec 11 12:05:22 2015 +0100

modesetting: Consume all available udev events at once

We get multiple udev events for actions like docking a laptop into its station or plugging a monitor to the station. By consuming as much events as we can, we reduce the number of output re-evaluations.

I.e. having a Lenovo X250 in a ThinkPad Ultra Dock and plugging a monitor to the station generates 5 udev events. Or having 2 monitors attached to the station and docking the laptop generates 7 events.

It depends on the timing how many events can consumed at once.

Signed-off-by: Daniel Martin <conserve.noise@gmail.com>
[hdengoede@redhat.com: Keep goto out so that we always call RRGetInfo()]
Reviewed-by: Hans de Goede <hdengoede@redhat.com>
Signed-off-by: Hans de Goede <hdengoede@redhat.com>

commit ea91db4b83312e791dcae935b8720f49a3861d72
Author: Qiang Yu <Qiang.Yu@amd.com>
Date: Thu Sep 8 21:24:58 2016 +0800

config: fix GPUDevice fail when AutoAddGPU off + BusID

This fix is for the following xorg.conf can work:

Section "ServerFlags"
  Option "AutoAddGPU" "off"
EndSection

Section "Device"
  Identifier "Amd"
  Driver "ati"
  BusID "PCI:1:0:0"
Section "Device"
  Identifier "Intel"
  Driver "modesetting"
  BusID "pci:0:2:0"
EndSection

Section "Screen"
  Identifier "Screen0"
  Device "Intel"
  GPUDevice "Amd"
EndSection

Without AutoAddGPU off, modesetting DDX will also be loaded for GPUDevice.

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit ca8d88e50310a0d440a127c22a0a383cc149f408
Author: Laszlo Ersek <lersek@redhat.com>
Date:   Wed Sep 7 15:08:06 2016 +0200

xfree86: recognize primary BUS_PCI device in xf86IsPrimaryPlatform()

The new platform bus code and the old PCI bus code overlap. Platform bus
can handle any type of device, including PCI devices, whereas the PCI code
can only handle PCI devices. Some drivers only support the old style
PCI-probe methods, but the primary device detection code is server based,
not driver based; so we might end up with a primary device which only has
a PCI bus-capable driver, but was detected as primary by the platform
code, or the other way around.

(The above paragraph was shamelessly stolen from Hans de Goede, and
customized.)

The latter case applies to QEMU's virtio-gpu-pci device: it is detected as
a BUS_PCI primary device, but we actually probe it first (with the
modesetting driver) through xf86platformProbeDev(). The
xf86IsPrimaryPlatform() function doesn't recognize the device as primary
(it bails out as soon as it sees BUS_PCI); instead, we add the device as a
secondary graphics card under "autoAddGPU". In turn, the success of this
automatic probing-as-GPU prevents xf86CallDriverProbe() from proceeding to
the PCI probing.

The result is that the server exits with no primary devices detected.
Commit cf66471353ac ("xfree86: use udev to provide device enumeration for kms devices (v10)") added "cross-bus" matching to xf86IsPrimaryPci(). Port that now to xf86IsPrimaryPlatform(), so that we can probe virtio-gpu-pci as a primary card in platform bus code.

Cc: Adam Jackson <ajax@redhat.com>
Cc: Dave Airlie <airlied@redhat.com>
Cc: Hans de Goede <hdegoede@redhat.com>
Cc: Keith Packard <keithp@keithp.com>
Cc: Marcin Juszkiewicz <mjuszkieczwizy@redhat.com>
Signed-off-by: Laszlo Ersek <lersek@redhat.com>
Tested-By: Marcin Juszkiewicz <mjuszkieczwizy@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 44968da376c880e096225f149f78673aa4c6e56e0
Author: Kyle Guinn <elyk03@gmail.com>
Date:   Fri Sep 23 15:03:34 2016 +0300

xfree86: Fix null pointer dereference

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=93675
Signed-off-by: Kyle Guinn <elyk03@gmail.com>
[hdegoede@redhat.com: Simplify by adding 2 if conds together with &&]
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 127e0569ca8dbf774df8fc3d459bfb2f2e5a20
Author: David CARLIER <devnexen@gmail.com>
Date:   Fri Sep 23 14:17:12 2016 +0300

xfree86: small memory leaks fixes

A couple of memory leaks fixes and avoiding bit shifting on an uninitialized value.

[hdegoede@redhat.com: Split out some non free fixes in separate patches]
[hdegoede@redhat.com: Don't touch ancient (and weird) os/rpcauth.c code]
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit d51ccee7992508f366758fa13dd93be24df0947ed
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 5 13:07:09 2016 -0400

xephyr: Don't crash if the server advertises zero xv adaptors

Useless as an XVideo implementation with zero adaptors might be, it's apparently a thing in the wild. Catch this case and bail out of xv init
if it happens.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 445271ec00f25405fa5ed0e149dd4a9d9f6098d4
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Fri Jul 1 17:36:02 2016 +0200

glx: Always enable EXT_texture_from_pixmap for DRI swrast glx

Prior to commit f95645c6f700 ("glx: Don't enable EXT_texture_from_pixmap
unconditionally") DRI glx would always advertise EXT_texture_from_pixmap.

That commit moved the setting of the extension in the extension bits from
__glXInitExtensionEnableBits to its callers so that
__glXInitExtensionEnableBits can be used more generally, but at the same
time made the setting of EXT_texture_from_pixmap conditionally on
__DRI_TEX_BUFFER being present.

This has result in an unintended behavior change which breaks e.g.
compositors running on llvmpipe. This commit makes the DRI swrast glx code
advertise EXT_texture_from_pixmap unconditionally again fixing this.

Fixes: f95645c6f700 ("glx: Don't enable EXT_texture_from_pixmap unconditionally")
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

---

Changes in v2:
-Only add unconditional advertising of GLX_EXT_texture_from_pixmap
to glxdriswrast.c, do not also add it to glxdri2.c

commit 02ff0a5d7e32ce8460d669f532d65ad212fcd
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sat Sep 17 11:33:13 2016 +0200

xf86RandR12: Fix XF86VidModeSetGamma triggering a BadImplementation error

Commit b4e46c0444bb ("xfree86: Hook up colormaps and RandR 1.2 gamma code")
dropped the providing of a pScrn->ChangeGamma callback from the xf86RandR12
code. Leaving pScrn->ChangeGamma NULL in most cases.

This triggers the BadImplementation error in xf86ChangeGamma() :

if (pScrn->ChangeGamma)
    return (*pScrn->ChangeGamma) (pScrn, gamma);

return BadImplementation;
Which causes X-apps using XF86VidModeSetGamma to crash with a X protocol error.

This commit fixes this by re-introducing the xf86RandR12ChangeGamma helper removed by the commit and adjusting it to work with the new combined palette / gamma code.

Fixes: b4e46c0444bb ("xfree86: Hook up colormaps and RandR 1.2 gamma code")
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit a58dd678bf952560e5422845e186d80a189953fe
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sat Sep 17 11:42:09 2016 +0200

xf86RandR12: Move calculating of shift inside init_one_component

This is a preparation patch to allow easier usage of init_one_component outside of xf86RandR12CrtcInitGamma.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 299cbb92670f6db83c24c3ef6327eb9d66b8be92a
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Thu Sep 15 14:35:52 2016 +0200

modesetting: Fix reverse prime update lagging on secondary GPU outputs

When using secondary GPU outputs the primary GPU’s blockhandler will copy changes from its framebuffer to a pixmap shared with the secondary GPU.

In reverse prime setups the secondary GPU’s blockhandler will do another copy from the shared pixmap to its own framebuffer.

Before this commit, if the primary GPU’s blockhandler would run after the secondary GPU’s blockhandler and no events were pending, then the secondary GPU’s blockhandler would not run until some events came in (WaitForSomething() would block in the poll call), resulting in the secondary GPU output sometimes showing stale contents (e.g. a just closed window) for easily up to 10 seconds.

This commit fixes this by setting the timeout passed into the blockhandler to 0 if any shared pixmaps were updated by the primary GPU, forcing an immediate re-run of all blockhandlers.
modesetting: Fix reverse prime partial update issues on secondary GPU outputs

When using reverse prime we do 2 copies, 1 from the primary GPU’s framebuffer to a shared pixmap and 1 from the shared pixmap to the secondary GPU’s framebuffer.

This means that on the primary GPU side the copy MUST be finished, before we start the second copy (before the secondary GPU’s driver starts processing the damage on the shared pixmap).

This fixes secondary outputs sometimes showing (some) old fb contents, because of the 2 copies racing with each other, for an example of what this looks like see:

https://fedorapeople.org/~jwrdegoede/IMG_20160915_130555.jpg

xwayland: Clear up x_cursor on UnrealizeCursor()

In Xwayland's xwl_unrealize_cursor(), the x_cursor is cleared up only when a device value is provided to the UnrealizeCursor() routine, but if the device is NULL as called from FreeCursor(), the corresponding x_cursor for the xwl_seat is left untouched.

This might cause a segfault when trying to access the unrealized cursor's devPrivates in xwl_seat_set_cursor().

A possible occurrence of this is the client changing the cursor, the Xserver calling FreeCursor() which does UnrealizeCursor() and then the Wayland server sending a pointer enter event, which invokes xwl_seat_set_cursor() while the seat's x_cursor has just been unrealized.

To avoid this, walk through all the xwl_seats and clear up all x_cursor
matching the cursor being unrealized.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit b79eaf1184f6514ede9dcd9baaa24a40ef724a15
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Sep 15 15:59:07 2016 +0200

xwayland: handle EAGAIN on Wayland fd

wl_display_flush() can fail with EAGAIN and Xwayland would make this a fatal error.

When this happens, it means that Xwayland has flooded the Wayland file descriptor, either because the Wayland compositor cannot cope or more likely because of a deadlock situation where the Wayland compositor is blocking, waiting for an X reply while Xwayland tries to write data to the Wayland file descriptor.

The general consensus to avoid the deadlock is for the Wayland compositor to never issue blocking X11 roundtrips, but in practice blocking roundtrips can occur in various places, including Xlib calls themselves so this is not always achievable without major surgery in the Wayland compositor/Window manager.

What this patch does is to avoid dispatching to the Wayland file descriptor until it becomes available for writing again, while at the same time continue processing X11 requests to release the deadlock.

This is not perfect, as there is still the possibility of another X client hammering the connection and we'll still fail writing to the Wayland connection eventually, but this improves things enough to avoid a 100% repeatable crash with vlc and gtkperf.

Also, it is worth considering that window managers and Wayland compositors such as mutter already have a higher priority than other regular X clients thanks to XSyncSetPriority(), mitigating the risk.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1278159
Bugzilla: https://bugzilla.gnome.org/show_bug.cgi?id=763400
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 36e1a0588c5826398cee9db46c166ae40c75646e
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Fri Feb 5 14:44:29 2016 +0100
xwayland: Close the shm fd as early as possible

Keeping the shm fd open beyond pixmap creation means we can easily reach the open file descriptor limit if an X client asks us to create that many pixmaps. Instead, let's get the wl_buffer immediatly so that we can destroy the shm pool and close the fd before being asked to create more.

Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit fd4a6dc06fccf8671d616af52025e19200c79e404
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 27 17:15:12 2016 -0400

glamor: Fall back to software for CopyPlane if we need to

glUniform4ui is available starting in GL{,ES} 3.0. Technically it's also in EXT_glu_shader4, but that's not worth supporting. There was also a MESA_shading_language_130 spec proposed at one point; if that ever gets finished, we can update epoxy to know about it and fix up the feature check.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit c49e820f796c27cbd2907709576a3fb672acd453
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:22 2016 -0700

test: Run xts against Xephyr - glamor when present

v2: Drop x8r8g8b8 skip, now that it's fixed.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 5392ea5525082dceeb3aad50d9168baee2abc860e
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:21 2016 -0700

test: Switch our testing X server to being spawned with simple-xinit

Once I introduced a second X server being tested, I found that startx hit races in choosing a display.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
commit 283840c295c69aa3729f3f0aa2bf3ef83b1c220f
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:20 2016 -0700

test: Update piglit HTML even when tests all pass

I was confused by the behavior I'd written before. keithp and
mattst88 responded with shock that I would have made it so surprising,
as well.

v2: Point to index.html instead of problems.html, which won't exist if
we had no problems.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 022fea767cd29d256fb99159df89cc25d339e787
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:19 2016 -0700

test: Fix parsing of piglit results

The "dmesg-fail" line was matching our "fail" regex, so if you didn't
have those we would ignore fails.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 7fe5b9c02cf90b81532cb6dee3ec75c90c72c27c
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:18 2016 -0700

test: Make the piglit-running script callable with an arbitrary server

v2: Check that SERVER_COMMAND is set.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 7ac130a0664b43b6ba5324548c8f7ab8230f7199
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:17 2016 -0700

test: Add a little xinit-like program for starting servers for testing

The normal xinit is racy because it doesn't use -displayfd. This
implements the bare minimum for testing purposes, using -displayfd to
sequence starting the client, and avoids adding yet another dependency to the server.

v2: Fix asprintf error checks.
v3: Add error checking for fork(), clarify calloc() arg.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 8d5e0d07b965d545c925c34be95d41c29135af63a
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:16 2016 -0700
test: Handle srcdir != builddir in Xvfb testing

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit add497926081711feef8090f7520cfa02d2daae9c
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Sep 25 13:30:15 2016 -0700
ephyr: Add a mode for skipping redisplay in glamor

This speeds up headless testing of Xephyr -glamor with softpipe from "a test per minute or so" to "a test every few seconds".

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 453f813bb4afdf39eb56b3c4a822894e04b6b11b
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Sep 24 14:37:28 2016 +0300
glamor: Properly handle mask formats without alpha.

Even if the pixmap's storage has alpha, it may have been uploaded with garbage in the alpha channel, so we need to force the shader to set alpha to 1. This was broken way back in 355334fc99e4dce62e2be1e27290c9a74ea944f.

Fixes rendercheck -t composite -f x8r8g8b8.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 905c877f094eb6cfe905df6e34fdd01a72dd8103
Author: Eric Anholt <eric@anholt.net>
Date: Tue Sep 20 12:24:38 2016 +0100

glamor: Require that pixmap depths match for Render copies.

The copy optimization in d37329cba42fa8e72fe4be8a7be18e512268b5bd replicated a bug from last time we did a copy optimization: CopyArea is only defined for matching depths. This is only a problem at 15 vs 16 depth right now (24 vs 32 would also have matching Render formats, but they should work) but be strict in case we store other depths differently in the future.

Fixes rendercheck -t blend -o src -f x4r4g4b4,x3r4g4b4

v2: Drop excessive src->depth == dst->depth check that snuck in.
v3: Switch back to src->depth == dst->depth
v4: Touch up commit message (s/bpp/depth).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit b87a07567421af056222197eecc91a71e4fca4f79e
Author: Eric Anholt <eric@anholt.net>
Date: Tue Sep 20 12:14:36 2016 +0100

glamor: Fix some awful formatting of some fallback debug code.

This was clearly x-indent.sh damage.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit ba199cb90157cefab01183f2e2c909895df73321
Author: Mark Kettenis <kettenis@openbsd.org>
Date: Tue Nov 17 22:31:21 2015 +0100

glamor: Make glamor_sync_init work with --disable-xshmfence

Signed-off-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 8bb4b11298c285d2cd1eb28e65729933ec386829
Author: Matthieu Herrb <matthieu@herrb.eu>
Date: Fri Sep 23 16:56:06 2016 +0300

glamor: Make glamor_name_from_pixmap work without DRI3

This function is used by the modesetting driver to implement DRI2 and
shouldn't fail on systems that don't support DRI3.

v2: Drop stale commit message wording, fix compiler warning (by anholt)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 128d40b2dd0a26a075a67854455d4208afaa01ca
Author: Eric Engestrom <eric@engestrom.ch>
Date:   Sat Apr 2 19:53:18 2016 +0100

glamor: fix spelling mistakes

v2: Fix "orignal" too (review feedback by ajax, change by anholt)

Signed-off-by: Eric Engestrom <eric@engestrom.ch>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ade315386cee9a65a3885c65e96256880ac6f00a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 23 09:52:21 2016 +0300

Require xproto 7.0.31

xproto 7.0.30 had a typo which caused compiles to fail on anything
other than clang

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f72ff1f7ac784f3911fe2f8d746f62f7709f0edc
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Sep 19 09:34:50 2016 -0700

XQuartz: Silence an expected TSan warning

This code is safe. If the data race fails, the result is that we take the
lock and recheck.

==============
WARNING: ThreadSanitizer: data race (pid=31401)
  Read of size 1 at 0x00010f5d2500 by thread T11:
    #0 wait_for_mieq_init darwinEvents.c:102 (X11.bin+0x00010003155a)
    #1 __X11Application(Private) sendX11NSEvent:] X11Application.m:1330 (X11.bin+0x00010001d652)
    #2 __28-[X11Application sendEvent:]_block_invoke X11Application.m:476 (X11.bin+0x00010001887f)
    #3 __tsan::invoke_and_release_block(void*) <null>:144
      (libclang_rt.tsan_osx_dynamic.dylib+0x00000005d97b)
    #4 _dispatch_client_callout <null>:33 (libdispatch.dylib+0x0000000020ef)
Previous write of size 1 at 0x00010f5d2500 by thread T8:
 [failed to restore the stack]

Location is global 'mieqInitialized' at 0x00010f5d2500 (X11.bin+0x0001000599500)

Thread T11 (tid=4367138, running) created by thread T-1
 [failed to restore the stack]

Thread T8 (tid=4367130, running) created by main thread at:
 #0 pthread_create <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x000000024490)
 #1 create_thread quartzStartup.c:78 (X11.bin+0x000100039d2d)
 #2 QuartzInitServer quartzStartup.c:95 (X11.bin+0x000100039b96)
 #3 X11ApplicationMain X11Application.m:1238 (X11.bin+0x00010001cd54)
 #4 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a5b2)
 #5 server_main quartzStartup.c:136 (X11.bin+0x000100039fbb)
 #6 do_start_x11_server bundle-main.c:436 (X11.bin+0x00010002e25)
 #7 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x00010000e09)
 #8 mach_startup_server mach_startupServer.c:399 (X11.bin+0x000100056a4)
 #9 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
 #10 start <null>:29 (libdyld.dylib+0x00000005254)

SUMMARY: ThreadSanitizer: data race darwinEvents.c:102 in wait_for_mieq_init
==================

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 7d6ebf3f4e4d517bb846d15a5deb131da19a267c
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Sep 19 00:21:44 2016 -0700

XQuartz: Adopt input_lock() and input_unlock()

This allows us to remove darwinEvents_lock() and darwinEvents_unlock()
and remove the serverRunning hack from dix

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 8bc4727f475321a8adebbd859f3f8dd9eef64aa4
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 18 23:17:19 2016 -0700

XQuartz: pbproxy shouldn't need to wait for server initialization.

Just block on the socket like every other client does.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 81493d30981d7deb38f57bca2a35487add5ea509
XQuartz: Remove X11ApplicationFatalError

AppKit handles crashes on app launch with their own dialog now, so we shouldn't need to do this ourselves.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 9153ec8464336c280f2a6e79ffa443104bbeb98c
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 18 22:45:16 2016 -0700

XQuartz: Don't respond to SIGALRM on the AppKit thread

==============
WARNING: ThreadSanitizer: data race (pid=69627)
Write of size 8 at 0x00010dae73f8 by main thread (mutexes: write M262):
  #0 SmartScheduleTimer utils.c:1245 (X11.bin+0x0001004b21f9)
  #1 __tsan::CallUserSignalHandler(__tsan::ThreadState*, bool, bool, bool, int, my_siginfo_t*, void*) <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x0000000279f6)
  #2 __CFRunLoopRun <null>:77 (CoreFoundation+0x000000087e17)
  #3 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a062)
  #4 server_main quartzStartup.c:127 (X11.bin+0x0001000039b6b)
  #5 do_start_x11_server bundle-main.c:436 (X11.bin+0x0001000022c5)
  #6 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x0001000042a9)
  #7 mach_startup_server mach_startupServer.c:399 (X11.bin+0x000100004b44)
  #8 sach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
  #9 start <null>:29 (libdyld.dylib+0x000000005254)

Previous read of size 8 at 0x00010dae73f8 by thread T7:
[failed to restore the stack]

Location is global 'SmartScheduleTime' at 0x00010dae73f8 (X11.bin+0x00010005b03f8)

Mutex M262 (0x7d300000bd10) created at:
  #0 pthread_mutex_init <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x0000000279f3)
  #1 __CFRunLoopCreate <null>:77 (CoreFoundation+0x000000054e63)
  #2 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a062)
  #3 server_main quartzStartup.c:127 (X11.bin+0x0001000039b6b)
  #4 do_start_x11_server bundle-main.c:436 (X11.bin+0x0001000022c5)
  #5 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x0001000042a9)
  #6 mach_startup_server mach_startupServer.c:399 (X11.bin+0x000100004b44)
  #7 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
  #8 start <null>:29 (libdyld.dylib+0x000000005254)

Thread T7 (tid=4051693, running) created by main thread at:
  #0 pthread_create <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x000000024490)
#1 create_thread quartzStartup.c:78 (X11.bin+0x0001000398dd)
#2 QuartzInitServer quartzStartup.c:95 (X11.bin+0x000100039813)
#3 X11ApplicationMain X11Application.m:1286 (X11.bin+0x00010001c804)
#4 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a062)
#5 server_main quartzStartup.c:127 (X11.bin+0x000100039b6b)
#6 do_start_x11_server bundle-main.c:436 (X11.bin+0x0001000022c5)
#7 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x000100042a9)
#8 mach_startup_server mach_startupServer.c:399 (X11.bin+0x00010004b44)
#9 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
#10 start <null>:29 (libdyld.dylib+0x00000005254)

SUMMARY: ThreadSanitizer: data race utils.c:1245 in SmartScheduleTimer

WARNING: ThreadSanitizer: signal handler spoils errno (pid=69627)

#0 SmartScheduleTimer utils.c:1244 (X11.bin+0x00010004b21a0)
#1 _CFRunLoopRun <null>:77 (CoreFoundation+0x000000087e17)
#2 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a062)
#3 server_main quartzStartup.c:127 (X11.bin+0x000100039b6b)
#4 do_start_x11_server bundle-main.c:436 (X11.bin+0x00010002a062)
#5 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x000100042a9)
#6 mach_startup_server mach_startupServer.c:399 (X11.bin+0x00010004b44)
#7 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
#8 start <null>:29 (libdyld.dylib+0x00000005254)

SUMMARY: ThreadSanitizer: signal handler spoils errno utils.c:1244 in SmartScheduleTimer

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2740dc1937e8ab32b4930f4086c302e6602a7bad
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Sep 19 01:25:13 2016 -0700

dix: Silence TSan warnings when checking for pending input

V2: Moves InputCheckPending() into dix.h

Bumps required version of xproto to 7.0.30

WARNING: ThreadSanitizer: data race (pid=4943)

Read of size 4 at 0x00010c4e3854 by thread T8:
#0 WaitForSomething WaitFor.c:237 (X11.bin+0x000100049216c)
#1 Dispatch dispatch.c:413 (X11.bin+0x0001000352ed9)
#2 dix_main main.c:287 (X11.bin+0x00010036e894)
#3 server_thread quartzStartup.c:66 (X11.bin+0x000100039e63)
Previous write of size 4 at 0x00010c4e385 by thread T12 (mutexes: write M856, write M1976):
#0 miegEnqueue mieg.c:263 (X11.bin+0x0000100448d14)
#1 DarwinSendDDXEvent darwinEvents.c:641 (X11.bin+0x000100033613)
#2 DarwinProcessFDAdditionQueue_thread darwinEvents.c:338 (X11.bin+0x000100032039)

Location is global 'miEventQueue' at 0x00010c4e3850 (X11.bin+0x0001005ab854)

Mutex M856 (0x000100c4c8c8) created at:
#0 pthread_mutex_lock <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x0000000321f7)
#1 DarwinListenOnOpenFD darwinEvents.c:300 (X11.bin+0x000100031607)
#2 socket_handoff bundle-main.c:288 (X11.bin+0x000100002b40)
#3 _do_request_fd_handoff_socket_block_invoke bundle-main.c:379 (X11.bin+0x0001000029ba)
#4 __tsan:invoke_and_release_block(void*) <null>:144
(libclang_rt.tsan_osx_dynamic.dylib+0x00000005d97b)
#5 _dispatch_client_callout <null>:33 (libdispatch.dylib+0x000000020eef)

Mutex M1976 (0x00010c4e3d68) created at:
#0 pthread_mutex_init <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x0000000253c3)
#1 input_lock inputthread.c:103 (X11.bin+0x000100049fd10)
#2 TimerSetWaitFor.c:343 (X11.bin+0x00010004926c2)
#3 RootlessQueueRedisplay rootlessScreen.c:594 (X11.bin+0x0001000065d7f)
#4 RootlessInstallColormap rootlessScreen.c:514 (X11.bin+0x0001000069a1a)
#5 miSpriteInstallColormap misprite.c:562 (X11.bin+0x0001000467095)
#6 miCreateDefColormap micmap.c:270 (X11.bin+0x0001000440399)
#7 DarwinScreenInit darwin.c:285 (X11.bin+0x0001000033bb)
#8 AddScreen dispatch.c:3908 (X11.bin+0x000100036c417)
#9 InitOutput darwin.c:671 (X11.bin+0x00010002fdeb)
#10 dix_main_main.c:197 (X11.bin+0x00010036e228)
#11 server_thread quartzStartup.c:66 (X11.bin+0x000100039e63)

Thread T8 (tid=4198779, running) created by main thread at:
#0 pthread_create <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x000000024490)
#1 create_thread quartzStartup.c:78 (X11.bin+0x000100039dad)
#2 QuartzInitServer quartzStartup.c:95 (X11.bin+0x000100003c16)
#3 X11ApplicationMain X11Application.m:1238 (X11.bin+0x000100001ce4)
#4 X11ControllerMain X11Controller.m:984 (X11.bin+0x00010002a64)
#5 server_main quartzStartup.c:136 (X11.bin+0x00010003a03b)
#6 do_start_x11_server bundle-main.c:436 (X11.bin+0x000100002eb5)
#7 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x000100004e99)
#8 mach_startup_server mach_startupServer.c:399 (X11.bin+0x000100005734)
#9 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
#10 start <null>:29 (libdyld.dylib+0x00000002554)

Thread T12 (tid=4198797, running) created by thread T8 at:
#0 pthread_create <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x000000024490)
#1 create_thread darwinEvents.c:121 (X11.bin+0x00010003efc0)
#2 DarwinEQInit darwinEvents.c:365 (X11.bin+0x00010003860)
#3 InitInput darwin.c:571 (X11.bin+0x00010002ea09)
SUMMARY: ThreadSanitizer: data race WaitFor.c:237 in WaitForSomething

WARNING: ThreadSanitizer: data race (pid=22841)
Write of size 4 at 0x000105bbd864 by main thread (mutexes: write M1945):
#0 mieqEnqueue mieq.c:263 (X11.bin+0x000100448cf4)
#1 DarwinSendDDXEvent darwinEvents.c:642 (X11.bin+0x00010033693)
#2 -[X11Controller set_window_menu:] X11Controller.m:275 (X11.bin+0x0001002222d)
#3 -[X11Application set_window_menu:] X11Application.m:486 (X11.bin+0x000100018b44)
#4 -[X11Application handleMachMessage:] X11Application.m:177 (X11.bin+0x000100016678)
#5 _NSFireMachPort <null>:69 (Foundation+0x000000009b62b)
#6 X11ControllerMain X11Controller.m:984 (X11.bin+0x000100002e65)
#7 server_main quartzStartup.c:136 (X11.bin+0x000100039fb)
#8 do_start_x11_server bundle-main.c:436 (X11.bin+0x00010002e65)
#9 _Xstart_x11_server mach_startupServer.c:189 (X11.bin+0x00010004e49)
#10 mach_startup_server mach_startupServer.c:399 (X11.bin+0x000100056e4)
#11 mach_msg_server mach_msg.c:563 (libsystem_kernel.dylib+0x000000012186)
#12 start <null>:29 (libdyld.dylib+0x00000005254)

Previous read of size 4 at 0x000105bbd864 by thread T7:
#0 Dispatch dispatch.c:434 (X11.bin+0x000100352fc8)
#1 dix_main main.c:287 (X11.bin+0x000100038f8)
#2 server_thread quartzStartup.c:66 (X11.bin+0x000100039e23)

Location is global 'miEventQueue' at 0x000105bbd860 (X11.bin+0x0001005ab864)

Mutex M1945 (0x0001005bbdd78) created at:
#0 pthread_mutex_init <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x0000000253c3)
#1 input_lock inputthread.c:103 (X11.bin+0x00010049fd10)
#2 TimerSet WaitFor.c:348 (X11.bin+0x0001004926c2)
#3 RootlessQueueRedisplay rootlessScreen.c:594 (X11.bin+0x000100065d3f)
#4 RootlessInstallColormap rootlessScreen.c:514 (X11.bin+0x000100065d3f)
#5 miSpriteInstallColormap misprite.c:562 (X11.bin+0x000100467075)
#6 miCreateDefColormap mcmap.c:270 (X11.bin+0x000100440379)
#7 DarwinScreenInit darwin.c:285 (X11.bin+0x00010003036b)
#8 AddScreen dispatch.c:3914 (X11.bin+0x00010036c3f7)
#9 InitOutput darwin.c:671 (X11.bin+0x00010002f9b)
#10 dix_main main.c:197 (X11.bin+0x000100036e208)
#11 server_thread quartzStartup.c:66 (X11.bin+0x000100039e23)

Thread T7 (tid=4257217, running) created by main thread at:
#0 pthread_create <null>:144 (libclang_rt.tsan_osx_dynamic.dylib+0x000000024490)
#1 create_thread quartzStartup.c:78 (X11.bin+0x000100039d6d)
#2 QuartzInitServer quartzStartup.c:95 (X11.bin+0x000100039bd6)
#3 X11ApplicationMain X11Application.m:1238 (X11.bin+0x00010001cd94)
SUMMARY: ThreadSanitizer: data race mieq.c:263 in mieqEnqueue

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7ff8a74945c0cb525a2d197e28426fd098a407cf
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 22 02:53:46 2016 +0300

os: Clear saved poll events in listen so that edge triggering works

When a client is marked as write blocked, clear any old 'write ready'
bit in the osfds structure so that a new indication of write ready
(which is marked as edge triggered) will trigger the callback.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Tested-by: Matthieu Herrb <matthieu@herrb.eu>

commit 1d365f1ffe0362732b64e565db66a8af718758f2
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 22 02:53:45 2016 +0300

os: Ready clients with pending output aren't flushed, so set NewOutputPending

When a client with pending output is ready (has request data pending),
FlushAllOutput will skip it to get all of the requests processed
before sending any queued output. That means FlushAllOutput is going
to return with some output pending to a client which isn't known to be
write blocked. And that means NewOutputPending needs to be set so that
FlushAllOutput will get called again to actually go flush this client.

It might be interesting to try just flushing the client to send any
queued data along the way. This patch just restores the server
behavior to what it was before the ospoll changes.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
commit d0c5d205a919fc1d2eb599356090b58b1bf0176d
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Mon Sep 19 01:13:02 2016 -0700

dix: Make InitCoreDevices() failures more verbose.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5794bdd52821463acf691ec4230741f6b4289669b
Author: Mihail Konev <k.mvc@ya.ru>
Date: Wed Sep 14 11:47:15 2016 +0100

xb: fix turbo-repeat of RedirectKey-ed keysyms

RedirectKey() action had been broken by commit 2e6190.
A dropped check caused over-intense autorepeat of keysyms enriched
with the action.

Previous to this commit, the check wrapped the entire switch() block,
which was dropped with the move to a separate function.

Restore the checking.

Signed-off-by: Mihail Konev <k.mvc@ya.ru>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fc1c35b955258ce675e49490de7c3b8ddee2b76
Author: Keith Packard <keithp@keithp.com>
Date: Mon Sep 19 09:02:57 2016 -0700

Bump to 1.18.99.901 (1.19 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5998da7855750dd947288349a0b14e65db1e3c8c
Author: Jonas Ådahl <jadahl@gmail.com>
Date: Tue Sep 13 15:16:56 2016 +0800

dix: Introduce CursorConfinedTo vfunc in Screen

This function will be called when a pointer is grabbed non-root window
set as the 'confineTo'. This will enable the ddx to handle the
confinement their own way.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit daf48a3aba7d5e42d7156f0d0e2b1d8aae423303
Author: Jonas Ådahl <jadahl@gmail.com>
Date: Tue Sep 13 15:16:55 2016 +0800

dix: Introduce CursorWarpedTo vfunc in Screen

This new vfunc will be called, if set, after a client has issued a
WarpPointer request. This is necessary for implementing pointer warp
emulation in Xwayland.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3ef51c5c74297937002668b0c507fa88550db67e
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 16 10:03:49 2016 -0700

Bump version to 1.18.99.2

Prepare for 1.19 RC1

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 86038dfd42d6f6da964ef2f87b2ab8c8ba98e02
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 16 10:56:15 2016 -0700

os: Add 'ospoll.h' to Makefile.am

Distribute this source file.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 56972d007dcde93693cb9e39931978b744942e5b
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 16 10:55:27 2016 -0700

include: Add 'xserver_poll.h' to Makefile.am

Make sure this file is included in the tarball.
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 61b159f5a79130a9661064d3f0143e5d6107985a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 16 10:54:37 2016 -0700

hw/xwin: Add 'dri' to DIST_SUBDIRS

This creates the needed Makefile.in files during 'make dist' or 'make distcheck'

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 93f474e49b24abc673cb9cf5ea16fac296dce312
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 16 10:43:09 2016 -0700

Remove 'dixfontstubs.h' from include EXTRA_DIST

This file was removed when moving to the new libXfont API, but accidentally left in EXTRA_DIST.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5b9f3ea2501a886fb74e5248e82a95e76443f1e8
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Jan 14 18:09:44 2016 +0900

xfree86/modes: Set RandR primary output from CreateScreenResources

Fixes XRRGetOutputPrimary and xrandr not reporting a primary output after startup. This was especially confusing when an output was explicitly marked as primary using Option "Primary" in Section "Monitor".

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bd8ecd9be1568b59258b6d2f78530ede345b7c7a
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Sep 16 09:51:31 2016 -0700

Add SyncSharedPixmap ScreenRec hook

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Commit 7f6fa4e449f5a7215bbf60ce8c874e163a7453a9
Author: Qiang Yu <Qiang.Yu@amd.com>
Date: Mon Sep 5 18:05:42 2016 +0800

modesetting: fix compile error when --disable-glamor

Move ms_flush_drm_events out of GLAMOR ifdef.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97586
Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit d81f9ce1234ac54b9e2b8c74b2f4827c1f3e739a
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sun Sep 11 03:07:44 2016 -0700

dix/dispatch: Fix SmartScheduleClient interval adjustment to use best rather than pClient

pClient does not contain a live value after the transition to lists

https://bugs.freedesktop.org/show_bug.cgi?id=97765

Application Specific Information:
X.Org X Server 1.18.99.1 Build Date: 20160910

=================================================================
==16921==ERROR: AddressSanitizer: global-buffer-overflow on address 0x000108ce3834 at pc
0x000108880766 bp 0x7000045f76c0 sp 0x7000045f76b8
READ of size 4 at 0x000108ce3834 thread T6
  #0 0x108880765 in SmartScheduleClient dispatch.c:365
  #1 0x10887ecc5 in Dispatch dispatch.c:422
  #2 0x1088c05f1 in dix_main main.c:301
  #3 0x1082aabba in server_thread quartzStartup.c:66
  #4 0x7fffec5f16aa in _pthread_body (libsystem_pthread.dylib+0x39f6)
  #5 0x7fffec5f169f6 in _pthread_start (libsystem_pthread.dylib+0x31fc)
  #6 0x7fffec5f161fc in thread_start (libsystem_pthread.dylib+0x31fc)

Regressed-in: 8f1edf4bd3a1f050ce9e9eb5eac45dd1a8f7a6d5e
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 265c4e66533243b60d92cffe7769eceadb0292c8d
Merge: 3caf671ed2 f5f4d32ac7
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 15 21:32:46 2016 -0700

Merge remote-tracking branch 'jturney/master'
commit 3caf671ed2a8a79856409a109355fc0f393d7aed
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 14 22:40:32 2016 -0700

    config/dbus: Initialize dbus fd to -1 so teardown doesn't use fd 0

    The dbus teardown code is called when the server fatal errors even if
    that is before dbus has ever been initialized. By statically
    initializing the value of bus_info.fd, we avoid calling RemoveNotifyFd
    on stdin.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Julien Cristau <jcristau@debian.org>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f5f4d32ac7c250cfbfb94883ce7d7e46151e89f0
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Thu Jul 24 12:29:41 2014 +0100

    Add Windows-DRI extension

    If windowsdriproto headers are available, build a Windows-DRI extension,
    which supports requests to enable local clients to directly render GL to a
    Windows drawable:

    - a query to check if WGL is being used on a screen
    - a query to map a fbconfigID to a native pixelformatindex
    - a query to map a drawable to a native handle

    Windows-DRI can only be useful if we are using WGL, so make an note if WGL
    is active on a screen.

    Make validGlxDrawable() public

    Adjust glxWinSetPixelFormat() so it doesn't require a context, just a
    screen and config.

    That enables factoring out the deferred drawable creation code as
    glxWinDeferredCreateDrawable()

    Enhance glxWinDeferredCreateDrawable(), so that pixmaps are placed into a
    file mapping, so they exist in memory which can be shared with the direct
    rendering process.

    Currently, this file mapping is accessed by a name generated from the XID.
    This will not be unique across multiple server instances. It would perhaps
    be better, although more complicated, to use an anonymous file mapping, and
then duplicate the handle for the direct rendering process.

Use glxWinDeferredCreateDrawable() to ensure the native handle exists for the Windows-DRI query to map a drawable to native handle.

v2:
Various printf format warning fixes

v3:
Fix format warnings on x86
Move some uninteresting windows-dri output to debug log level

v4:
check for windowsdriproto when --enable-windowsdri
use windowsdriproto_CFLAGS

Signed-off-by: Jon Turney <jon.turney@dronencode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 52d6a1e832a5e62289dd4f32824ae16a78dfd7e8
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 8 11:02:30 2016 -0600

Hold input lock for deviceProc

This ensures that the deviceProc is never called while the input thread is processing data from the device.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dfc91f0f630f9e0500fc2b8b18c3f2851024d719f
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 8 11:02:31 2016 -0600

Hold input lock while calling input device SetProperty callback

This keeps the input driver SetProperty function from being called while input events are being processed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c4799f186b31e579721f5874c897f3f46db6ad0a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Sep 10 21:14:19 2016 -0700
os: Use pthread_setname_np to set thread names if available

Autoconf logic borrowed from glib

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 75c1d04650f63464263c159d2e95364482be724f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Sep 10 21:08:01 2016 -0700

os: OsSigHandler should not show rtd errors for unrelated signals

If RTLD_DI_SETSIGNAL is set to let us turn runtime linker/loader errors into catchable signals, then we should only show the errors when catching that signal, instead of tossing out red herrings to distract people with unrelated crashes long after their last failed symbol lookup (especially when using drivers built to support multiple API's by checking which symbols are available before calling them).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 065eb6612492bacf4d7caaad90e35dafc2b7f7ea
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 11 19:56:52 2016 -0700

os/inputthread: Fix setting of cloexec on file descriptors

O_CLOEXEC is not a file bit. It is not setable with F_SETFL. One must use it when calling open(2). To set it cloexec on an existing fd, F_SETFD and FD_CLOEXEC must be used.

This also fixes a build failure regression on configurations that don't have O_CLOEXEC defined.

cf: http://pubs.opengroup.org/onlinepubs/9699919799/functions/fcntl.html
Regressed-in: 30ac7567980a1eb79d084a63e0e74e1d9a3af673

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a5769de0f5399053e9864b753fa9755220d65ae0
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 11 19:47:47 2016 -0700
Xext/shm: Fix usage of F_GETFD to match standard

flags = fcntl(fd, F_GETFD) is compliant.

fcntl(fd, F_GETFD, &flags) is non-compliant (Linux extension?)

cf: http://pubs.opengroup.org/onlinepubs/9699919799/functions/fcntl.html

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 7def2ea30060d47780dc1eeced91fada5ae1934f
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Sep 10 23:37:46 2016 -0700

XQuartz: Update for removal of AddEnabledDevice and RemoveEnabledDevice

Regressed-in: be5a513f6ee6cbf29ef7570e57eb0436d70fbd88c
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 4f4ecd0f41cf1c710d3ef1626b747847e6184f4c
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Sep 10 22:16:11 2016 -0700

XQuartz: Cleanup CPPFLAGS that are no longer necessary on darwin

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 33d595255d4206df0d136014de33100817cbe344
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun May 29 14:01:38 2016 -0700

XQuartz: Fix the issue where the h key could be come "stuck" after hiding XQuartz with cmd-h

The issue was that we set a flag to ignore the k key's up event when sent
the cmd-h down event, but because the cmd-h keycode hides XQuartz, we
became !_x_active by the time the event is delivered which caused us to
go down a different codepath rather than getting a chance to ignore it.
We then incorrectly ignored the next h up key.

https://bugs.freedesktop.org/show_bug.cgi?id=92648

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit d8e05c04758c9c5bcf7b5c11362cb28ce017d50098b
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Aug 24 15:00:13 2016 +0200
modesetting: Fall back to primary crtc for vblank for drawables on slave outputs

This fixes glxgears running at 1 fps when fully covering a slave-output and the modesetting driver is used for the master gpu.

Reported-by: Peter Wu <peter@lekensteyn.nl>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 7ade8ba10e1e767bb510343c86573bc5d4804b92
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Aug 24 14:55:27 2016 +0200

modesetting: ms_covering_crtc: Allow calling on non modesetting Screens

99% of the code in ms_covering_crtc is video-driver agnostic. Add a screen_is_ms parameter when when FALSE skips the one ms specific check, this will allow calling ms_covering_crtc on slave GPUs.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 238248d67e6a422f31e8864c0b15d693a658cdac
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Aug 15 12:02:54 2016 +0200

modesetting: Implement DRI2InfoRec version 9 callbacks

Implement the CreateBuffer2 / DestroyBuffer2 / CopyRegion2 DRI2InfoRec version 9 callbacks, this is necessary for being an offload source provider with DRI2.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 03a7c50202f61030830ff639fccc52091e02156c
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Aug 15 10:44:57 2016 +0200

modesetting: ms_dri2_create_buffer: check screen of existing front buffers

If a frontbuffer drawable already has a pixmap, make sure it was created on the right screen.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
commit 35c4e96ed1d372dd161480be8cddcd2d4549e449
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Sep 12 12:47:59 2016 +0200

randr: Fix crtc_bounds when using rotation combined with reflection

Before this commit crtc_bounds() did not take reflection into account, when using reflection with 0 / 180 degree rotation this was not an issue because of the default in the switch-case doing the right thing.

But when using 90 / 270 degree rotation we would also end up in the default which is wrong in this case. This would lead to the cursor being constrained to a height x height area of the monitor.

This commit masks out the reflection bits for the switch-case, making crtc_bounds return the correct bounds and fixing the problematic cursor constraining.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 7b634067c13045671685a9f00bfbac626ed68f94
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jul 15 10:15:51 2015 +1000

xf86Cursor: Add hw cursor support for prime

Currently with PRIME if we detect a secondary GPU, we switch to using SW cursors, this isn't optimal, esp for the intel/nvidia combinations, we have no choice for the USB offload devices.

This patch checks on each slave screen if hw cursors are enabled, and also calls set cursor and move cursor on all screens.

Cc: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit df88008f92f85ef96d9fe48ac509d027570424eb
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Sep 6 11:48:31 2016 +0200

xf86Cursor: Deal with rotation on GPU screens using a hw-cursor
When a slave-output is rotated the transformation is done on the blit from master to slave GPU, so crtc->transform_in_use is not set, but we still need to adjust the mouse position for things to work.

This commit modifies xf86_crtc_transform_cursor_position to not rely on crtc->f_framebuffer_to_crtc, so that it can be used with GPU screens too and always calls it for crtcs with any form of rotation.

Note not using crtc->f_framebuffer_to_crtc means that crtc->transform will not be taken into account, that is ok, because when we've a transform active hw-cursors are not used and xf86_crtc_transform_cursor_position will never get called.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit f82fd47016628e8bcdcb3aaab506a919fe8c49d8
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Sep 6 11:50:50 2016 +0200

xf86Cursor: Fix xf86_crtc_rotate_coord using width/height wrongly

xf86_crtc_rotate_coord should be the exact inverse operation of xf86_crtc_rotate_coord_back, but when calculating x / y for 90 / 270 degrees rotation it was using height to calculate x / width to calculate y, instead of the otherway around.

This was likely not noticed before since xf86_crtc_rotate_coord until now was only used with cursor_info->MaxWidth and cursor_info->MaxHeight, which are usually the same.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit b0b04cb266a62675dd7ede97111ebe7c1552db9a
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Sep 6 13:14:35 2016 +0200

xf86Cursor: Fix xf86CurrentCursor to work on slave GPU Screens

The CurrentCursor is always attached to the master GPU.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 71f3ec84e9ceb11ff61c912bd9a3fc959ec36bef
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Sep 6 13:02:32 2016 +0200
xf86Cursor: Add xf86CheckHWCursor() helper function

This is a preparation patch for adding prime hw-cursor support.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 2eefb53f58854ef9d34859583207ec37d3c3047a
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Sep 6 13:15:36 2016 +0200

randr: Add RRHasScanoutPixmap helper function

This is a preparation patch for adding prime hw-cursor support.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit a52530a655438f03919d47f6edd11287efff47bb
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Sep 6 12:50:14 2016 +0200

dix: Add dixPrivatesCreated helper function

This is a preparation patch for adding prime hw-cursor support.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 3fe4107643ba029dd48e3d12ec9bc97d07112300
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Thu Sep 8 09:30:31 2016 +0200

glamor: Fix crash when master gpu is using glamor and another gpu is hotplugged

When a GPU gets hotplugged while X is already running, glamor_egl_init() gets called and changes the current egl context, without updating lastGLContext, potentially causing the next glamor call on another GPU to run in the wrong context.

This causes glamor to e.g. crash in the next glamor_create_pixmap() call (called through the master's screen->CreatePixmap), note this is not the only troublesome entry point I've seen other backtraces when using a compositing window manager.
Set lastGLContext to NULL to force the next glamor_make_current() call to set the right context.

Note that we cannot use glamor_make_current() here to replace the eglMakeCurrent() call and update lastGLContext for us because glamor_make_current takes a glamor_priv struct as argument and that has not been created yet when glamor_egl_init() gets called.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1075af8a6c26009e04db30a6d6d1f10070568ab1
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Aug 15 11:10:15 2016 +0200

gmodesetting: Remove some dead code

The "if (pixmap) ..." block this commit removes is inside an "if (pixmap == NULL) ..." block, so it will never execute.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit dfa295b29c20b174f80ab823eef41e5211a6a921
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Aug 24 14:13:19 2016 +0200

gmodesetting: ms_covering_crtc: Remove unused arguments, make static

Remove unused arguments from ms_covering_crtc, make it static as it is only used in vblank.c.

While at it also change its first argument from a ScrnInfoPtr to a ScreenPtr, this makes the next patch in this patch-set cleaner.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cb7b145a25452de8b549e8c8e9ec3bce752e55dc
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Aug 17 12:03:41 2016 +0200

gmodesetting: Fix msSharePixmapBacking returning a non-linear bo

glamor_fd_from_pixmap() may return a tiled bo, which is not suitable for sharing with another GPU as tiling usually is GPU specific.
Switch to `glamor_shareable_fd_from_pixmap()`, which always returns a linear bo. This fixes mis-rendering when running the mode setting driver on the master gpu in a dual-gpu setup and running an opengl app with DRI_PRIME=1.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a74d553cb97d545148bd2f81b7bd021cca94e076
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Aug 23 12:18:56 2016 +0200

glamor: Add `glamor_shareable_fd_from_pixmap()`

Add `glamor_shareable_fd_from_pixmap` function to get dma-buf fds suitable for sharing across GPUs (not using GPU specific tiling).

This is necessary for the modesetting driver to correctly implement the DRI2 SharePixmapBacking callback.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 527c6bba294d17c5eca1d87ae941844872e90dac
Author: Ran Benita <ran234@gmail.com>
Date:   Wed Aug 29 12:33:34 2012 +0300

xkb: fix check for appending '|' character when applying rules

There are two ways to separate multiple files in XKB include statements: `+` will cause the later file to override the first in case of conflict, while `|` will cause it augment it (this is done by xkbcomp). `!` is unrelated here.

Currently, if someone tries to use `|` in a rule instead of `+`, it won't have any effect. Since `|` is practically never used, this wasn't noticed.

Signed-off-by: Ran Benita <ran234@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 392da389d7b0e9dd970741dcd5321a4e0fd3aef5
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 30 14:04:04 2016 -0400

glx: Fix computation of GLX_X_RENDERABLE fbconfig attribute

>From the GLX spec:
"GLX_X_RENDERABLE is a boolean indicating whether X can be used to render into a drawable created with the GLXFBConfig. This attribute is True if the GLXFBConfig supports GLX windows and/or pixmaps."

Every backend was setting this to true unconditionally, and then the core ignored that value and sent true unconditionally on its own. This is broken for ARB_fbconfig_float and EXT_fbconfig_packed_float, which only apply to pbuffers, which are not renderable from non-GLX APIs.

Instead compute GLX_X_RENDERABLE from the supported drawable types. The dri backends were getting _that_ wrong too, so fix that as well.

This is not a functional change, as there are no mesa drivers that claim to support __DRI_ATTRIB_\{(UNSIGNED_\_\_\_)FLOAT_BIT yet.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 589f42e9830e66a7e26475fc9a8b91034b5aad86
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Sun Jun 26 19:48:23 2016 +0200

xwayland: Process queued events before making wayland mods effective

Since xwayland's initial commit we have had a check to not process wayland modifier events while one of our surfaces has keyboard focus since the normal xkb event processing keeps our internal modifier state up to date and if we use the modifiers we get from the compositor we mess up that state.

This was slightly changed in commit 10e9116b3f709bec6d6a50446c1341441a0564e4 to allow the xkb group to be set from the wayland event while we have focus in case the compositor triggers a group switch.

There's a better solution to the original problem though. Processing queued events before overriding the xkb state with the compositor's allows those events to be sent properly modified to X clients while any further events will be modified with the wayland modifiers as intended.

This allows us to fully take in the wayland modifiers, including depressed ones, which fixes an issue where we wouldn't be aware of already pressed modifiers on enter.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
test: Run some XTS5 integration tests against Xvfb if possible.

By default the tests will be skipped. However, if you set XTEST_DIR to the repo of a built X Test Suite and PIGLIT_DIR to a piglit repo (no build necessary), make check will run piglit's xts-render tests against Xvfb.

We could run more of XTS5, but I haven't spent the time identifying what additional subset would be worth running, since much of it is only really testing the client libraries. We want to make sure that we keep the runtime down, and this subset of the test suite took 92 seconds according to piglit.

Reviewed-by: Adam Jackson <ajax@redhat.com>

modesetting: add DRI2 page flip support

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

modesetting: move common page flip handle to pageflip.c

The common page flip handle framework can be shared with DRI2 page flip.

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

modesetting: move ms_do_pageflip to pageflip.c

Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit a586bf9ccf60b2cc66953555e82e6b6a8e0b4ca9
Author: Qiang Yu <Qiang.Yu@amd.com>
Date:   Mon Aug 22 18:14:15 2016 +0800

modesetting: make ms_do_pageflip generic for share with DRI2

Signed-off-by: Qiang Yu <Qiang.Yu@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 7d33ab0f8c7958b205076f71e4b47c24aace77fd
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 28 15:54:44 2016 -0400

dri2: Don't make reference to noClientException

noClientException is now never filled in with a meaningful value, it's always -1. The sole caller of this function disregards the error value in any case.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dff435568b40286df2bf7a66e870f9ae5f4eb9bd
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 28 15:54:43 2016 -0400

dri3: Don't do return client->noClientException

Hasn't been necessary since:

commit 92ed75ac59e2d3af149cddb962efd05fc8487750
Author: Jamey Sharp <jamey@minilop.net>
Date:   Mon May 10 20:22:05 2010 -0700

   Eliminate boilerplate around client->noClientException.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 65493c0b73f6ee65b2a8fca4a15b0c453f72b1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 28 15:54:42 2016 -0400

sync: Don't do return client->noClientException
Hasn't been necessary since:

commit 92ed75ac59e2d3af149cdddb962ef05fc8487750
Author: Jamey Sharp <jamey@minilop.net>
Date: Mon May 10 20:22:05 2010 -0700

Eliminate boilerplate around client->noClientException.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit bc3eed379ee5b4176db848708799fb2d5db16531
Author: Hans De Goede <hdegoede@redhat.com>
Date: Wed Aug 31 15:37:20 2016 +0200

modesetting: Hide cursor when initializing crtc

When Xorg gets started directly from a wayland-gdm the crtc still has the
wayland hw cursor set. Combine this with Xorg immediately falling back to
a sw cursor because a slave-output has a monitor attached at startup; and
we end up with the wayland hardware cursor overlay fixed in its last
position + the Xorg sw cursor resulting in 2 cursors.

This commit fixes this by hiding any left-over cursors when initializing
the crtc.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit 6c984ac9a737304ab5e26de90c76a79d970b6e33
Author: Hans De Goede <hdegoede@redhat.com>
Date: Wed Aug 31 16:11:11 2016 +0200

modesetting: Do not use function local static variables

The modesetting driver may be driving 2 screens (slave and master
gpu), which may have different behavior wrt hardware cursor support.

So stop using static variables and instead store the hw-cursor support
related data in a per screen struct. While at it actually make it per
crtc data as in theory different crtc's could have different hw-cursor
support.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d8c288ec371a853bcd023217f34893a0efae65ea
xi2: fix FocusIn grabs

Fix a couple of copy-and-paste errors preventing FocusIn grabs from working. Perhaps the extension version should be bumped though to distinguish between working and non-working extension versions.

Signed-off-by: Michael Thayer <michael.thayer@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: print the module name together with the load failure message

We're happily printing the error to stdout but not which module caused it... That's in the Xorg.log but that's at least one click away.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

glamor: Declare "pos" in the composite glyph GLSL 1.20 vertex shader

Fixes shader compile failure:

Failed to compile VS: 0:13(43): error: `pos' undeclared
0:13(14): error: operands to arithmetic operators must be numeric
0:13(13): error: operands to arithmetic operators must be numeric

Program source:
#define ATLAS_DIM_INV 0.000976562500000000
attribute vec2 primitive;
attribute vec2 source;
varying vec2 glyph_pos;
uniform vec2 fill_offset;
uniform vec2 fill_size_inv;
varying vec2 fill_pos;
uniform vec4 v_matrix;
void main() {
    gl_Position.xy = primitive.xy * v_matrix.xz + v_matrix.yw;
    gl_Position.zw = vec2(0,0,1,0);
glyph_pos = source.xy * ATLAS_DIM_INV;
fill_pos = (fill_offset + primitive.xy + pos) * fill_size_inv;
}
(EE) Fatal server error:
(EE) GLSL compile failure

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97300
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cba28d572ac799391beacd89d57e69d0d7ed70e7
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Jul 12 12:25:13 2016 +0900

glamor: Handle bitplane in glamor_copy_fbo_cpu

This can significantly speed up at least some CopyPlane cases, e.g. indirectly for stippled fills.

v2:
* Make temporary pixmap the same size as the destination pixmap (instead of the destination drawable size), and fix coordinate parameters passed to fbCopyXtoX and glamor_upload_boxes. Fixes incorrect rendering with x11perf -copyplane* and crashes with the xscreensaver phosphor hack.

v3:
* Make the change a bit more compact and hopefully more readable by re-using the existing src_* locals in the bitplane case as well.

Reported-by: Keith Raghubar <keith.raghubar@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Acked-by: Eric Anholt <eric@anholt.net>

commit 6e5bec261c3f7af069b57618d6c82b070dc4579d
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Jun 23 15:31:30 2016 +0200

wayland: Emulate crossing for native window

Emitting a LeaveNotify event every time the pointer leaves an X11 window may confuse focus follow mouse mode in window managers such as mutter/gnome-shell.

Keep the previously found X window and compare against the new one, and if they match then it means the pointer has left an Xwayland window for a native Wayland surface, only in this case fake the crossing to the root window.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Fix Xorg -configure not working anymore

Xorg -configure relies on the bus implementation, e.g. `xf86pciBus.c` to call `xf86AddBusDeviceToConfigure()`. The new `xf86platformBus` code does not have support for this.

Almost all drivers support both the `xf86platformBus` and `xf86pciBus` nowadays, and the generic `xf86Bus xf86CallDriverProbe()` function prefers the new `xf86platformBus` probe method when available.

Since the platformBus paths do not call `xf86AddBusDeviceToConfigure()` this results in Xorg -configure failing with the following error: "No devices to configure. Configuration failed.”.

Adding support for the `xf86Configure` code to `xf86platformBus.c` is non trivial and since we advise users to normally run without any Xorg.conf at all not worth the trouble.

However some users still want to use Xorg -configure to generate a template config file, this commit implements a minimal fix to make things work again for PCI devices by skipping the platform probe method when `xf86DoConfigure` is set.

This has been tested on a system with integrated intel graphics, with both the intel and modesetting drivers and restores Xorg -configure functionality on both cases.

---

test: Remember to swap the window argument to XIQueryPointer

Before 5c69cb60 this wouldn't matter, because ProcXIQueryPointer manually emitted its own error before (bogusly) returning Success to the main loop. Since these tests only look at the return value of the dispatch function we'd think things succeeded even when we'd generated an error.
With that fixed, the test code's failure to swap the window id would make dixLookupWindow (rightly) throw BadWindow.

Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5c69cb604a144bdec7d066eaaca574aa44e8cb36
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 20 12:57:12 2016 -0400
	xinput: Let top-level dispatch generate the error

... instead of calling SendErrorToClient ourselves.

Reviewed-by: Daniel Stone <daniels@collabora.com>

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2f981c06a5b9b9eab5e8a9b1d0a18281c0d1033f
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 20 12:57:11 2016 -0400

xv: Remove some dumb calls SendErrorToClient

We already generate errors from the top level when non-Success is returned from a dispatch function, so really we were emitting errors twice.

Reviewed-by: Daniel Stone <daniels@collabora.com>

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0bfa6bf9def43fd14bc79a302b912454e82999b1
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 20 12:57:10 2016 -0400

xwayland: Fix relinking when dix changes

Without this a change in eg Xext/ wouldn't relink Xwayland, making you wonder why your changes didn't have any effect.

Reviewed-by: Daniel Stone <daniels@collabora.com>

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bf2ca502b9c0d7044c8a56499d5c092deb9d73f5
Author: Keith Packard <keithp@keithp.com>
Date: Mon Aug 15 22:25:56 2016 -0700

config: Hold input lock across udev socket handling
This avoids having the server running inside libudev from two threads at once, which it appears to not like.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de5291c04b05772e6da599a475baa1b19dcae07a
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Aug 8 17:25:35 2016 +0200

present: Free the fake_present OsTimerPtr

Plug a leak in present_fake_queue_vblank() where the OsTimer would not be freed.

492,608 (482,816 direct, 9,792 indirect) bytes in 15,088 blocks are definitely lost in loss record 3,954 of 3,954
  at 0x4C2ABDE: malloc (in vgpreload_memcheck-amd64-linux.so)
  by 0x586B19: TimerSet (WaitFor.c:433)
  by 0x4F1AA9: present_fake_queue_vblank (present_fake.c:108)
  by 0x4F15E0: present_pixmap (present.c:954)
  by 0x552BCE: Dispatch (dispatch.c:430)
  by 0x556C22: dix_main (main.c:300)
  by 0x6f0D290: (below main) (in /usr/lib/libc-2.24.so)

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97065
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit d21b53673b9de052004e761fd1299d2e788b44b8
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Aug 3 10:19:20 2016 +0900

present: Call set_abort_flip / restore_screen_pixmap in clear_window_flip

We were asserting that these were called before from other places, but that's not always the case, e.g. during server shutdown.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96951
Reported-and-Tested-by: Tod Jackson <tod.jackson@gmail.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 9f04fa3babaabe0ed5bf4aa2563755bc6c45723
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Aug 3 10:19:19 2016 +0900

present: Make present_restore_screen_pixmap handle screen->root == NULL

Easier than dealing with it in all paths that can end up here during server shutdown.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 4cbf1fb1f978ecd975770ceebb330dc10f712b77
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Mon Aug 8 17:57:57 2016 +0200

xwayland: Avoid double free of RRCrtc and RROutput

At shutdown, the Xserver will free all its resources which includes the RRCrtc and RROutput created.

Xwayland would do the same in its xwl_output_destroy() called from xwl_close_screen(), leading to a double free of existing RRCrtc RROutput:

Invalid read of size 4
at 0x4CDA10: RRCrtcDestroy (rrcrtc.c:689)
by 0x426E75: xwl_output_destroy (xwayland-output.c:301)
by 0x424144: xwl_close_screen (xwayland.c:117)
by 0x460E17: CursorCloseScreen (cursor.c:187)
by 0x4EB5A3: AnimCurCloseScreen (animcur.c:106)
by 0x424F31: present_close_screen (present_screen.c:64)
by 0x556D40: dix_main (main.c:354)
by 0x6F0D290: (below main) (in /usr/lib/libc-2.24.so)
Address 0xbb1fc30 is 0 bytes inside a block of size 728 free'd at 0x4C2BDB0: free (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
by 0x4CC5E5: RRCrtcDestroyResource (rrcrtc.c:719)
by 0x575741: doFreeResource (resource.c:895)
by 0x5787B5: FreeClientResources (resource.c:1161)
by 0x578862: FreeAllResources (resource.c:1176)
by 0x556C54: dix_main (main.c:323)
by 0x6F0D290: (below main) (in /usr/lib/libc-2.24.so)
Block was alloc'd at
at 0x4C2CA6A: calloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
by 0x4CC6DB: RRCrtcCreate (rrcrtc.c:76)
by 0x426D1C: xwl_output_create (xwayland-output.c:264)
by 0x4233EC: registry_global (xwayland.c:431)
by 0x76CB1C7: ffi_call_unix64 (in /usr/lib/libffi.so.6.0.4)
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 33314

by 0x76CAC29: ffi_call (in /usr/lib/libffi.so.6.0.4)
by 0x556CEFD: wl_closure_invoke (connection.c:935)
by 0x5569CBF: dispatch_event.isra.4 (wayland-client.c:1310)
by 0x556AF13: dispatch_queue (wayland-client.c:1456)
by 0x556AF13: wl_display_dispatch_queue_pending
(wayland-client.c:1698)
by 0x556B33A: wl_display_roundtrip_queue (wayland-client.c:1121)
by 0x42371C: xwl_screen_init (xwayland.c:631)
by 0x552F60: AddScreen (dispatch.c:3864)

And:

Invalid read of size 4
 at 0x522890: RROutputDestroy (rroutput.c:348)
 by 0x42684E: xwl_output_destroy (xwayland-output.c:302)
by 0x423CF4: xwl_close_screen (xwayland.c:118)
by 0x4B6377: CursorCloseScreen (cursor.c:187)
by 0x539503: AnimCurCloseScreen (animcur.c:106)
by 0x53D081: present_close_screen (present_screen.c:64)
by 0x43DBF0: dix_main (main.c:354)
by 0x7068730: (below main) (libc-start.c:289)
Address 0xc403190 is 0 bytes inside a block of size 154 free'd
at 0xC2CD5A: free (vg_replace_malloc.c:530)
by 0x521DF3: RROutputDestroyResource (rroutput.c:389)
by 0x45DA61: doFreeResource (resource.c:895)
by 0x45ECFD: FreeClientResources (resource.c:1161)
by 0x45EDC2: FreeAllResources (resource.c:1176)
by 0x43DB04: dix_main (main.c:323)
by 0x7068730: (below main) (libc-start.c:289)
Block was alloc'd at
at 0xC22BBAD: malloc (vg_replace_malloc.c:299)
by 0x52206B: RROutputCreate (rroutput.c:84)
by 0x426763: xwl_output_init (xwayland-output.c:270)
by 0x422EDC: registry_global (xwayland.c:432)
by 0x740FC57: ffi_call_unix64 (unix64.S:76)
by 0x740F6B9: ffi_call (ffi64.c:525)
by 0x5495A9D: wl_closure_invoke (connection.c:949)
by 0x549283F: dispatch_event.isra.4 (wayland-client.c:1274)
by 0x5493A13: dispatch_queue (wayland-client.c:1420)
by 0x5493A13: wl_display_dispatch_queue_pending
(wayland-client.c:1662)
by 0x5493D2E: wl_display_roundtrip_queue (wayland-client.c:1085)
by 0x4232EC: xwl_screen_init (xwayland.c:632)
by 0x439F50: AddScreen (dispatch.c:3864)

Split xwl_output_destroy() into xwl_output_destroy() which frees the
wl_output and the xwl_output structure, and xwl_output_remove() which
does the RRCrtcDestroy() and RROutputDestroy() and call the latter only
when an output is effectively removed.

An additional benefit, on top of avoiding a double free, is to avoid updating the screen size at shutdown.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit b380f3ac51f40ff6ecde7d3db5c4149f274246d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Aug 2 17:53:01 2016 +0900

dix: Pass ClientPtr to FlushCallback

This change has two effects:

1. Only calls FlushCallbacks when we're actually flushing data to a client. The unnecessary FlushCallback calls could cause significant performance degradation with compositing, which is significantly reduced even without any driver changes.

2. By passing the ClientPtr to FlushCallbacks, drivers can completely eliminate unnecessary flushing of GPU commands by keeping track of whether we're flushing any XDamageNotify events to the client for which the corresponding rendering commands haven't been flushed to the GPU yet.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 92b3cd32066aa5befa67a408cc079c22ce4c077e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Aug 2 10:34:07 2016 -0700

xace: Fix XaceCensorImage to actually censor the right part of the image

The caller passes arguments into XaceCensorImage that are in window-relative coordinates. However, the pBuf that it uses to construct a temporary pixmap has its origin at (x, y) relative to the window in question. The code to convert the censor region into boxes adjusts for the Y coordinate, but leaves the X coordinate alone. The result is that if x is not zero, it censors the wrong part of the image.

Fix this by just translating censorRegion into pixmap-relative coordinates and using the resulting boxes as-is.

Reported-by: Fabien Lelaquais <Fabien.Lelaquais@roguewave.com>
Link: https://lists.x.org/archives/xorg/2016-August/058165.html
commit 4d58611b8c113f3e0a6e95ed2d3fc7f9d03a4e362
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Aug 2 11:24:41 2016 +0200

xwayland: Plug memleak in frame callbacks

The frame callback set up via wl_surface_frame() needs to be freed with
wl_callback_destroy() or we'll leak memory.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97065
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 611b3b1d40f58035582480a3d7cfa77c2b288cbe6
Author: Matthieu Herrb <matthieu@herrb.eu>
Date:   Sun Jul 31 12:13:03 2016 +0200

Autoconfig: Fix the loop adding detected drivers to the list of screens

This loop was written in a buggy style, causing a NULL driver ptr to be
passed to copyScreen(). copyScreen() only uses that to generate an
identifier string, so this is mostly harmless on systems that accept
NULL for asprintf() "%s" format. (the generated identifiers are off
by one wrt the driver names and the last one contains NULL.

For systems that don't accept NULL for "%s" this would cause a
segmentation fault when this code is used (no xorg.conf, but partial
config in xorg.conf.d for instance).

Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 88820f1c7b66cbe98d3f19efca24e9f52410d9f9
Author: Emily Deng <Emily.Deng@amd.com>
Date:   Mon Jul 25 16:12:53 2016 +0800

xfree86: vgaarb: Initialize local variable rsrc_decodes

In function xf86VGAarbiterScrnInit when the "pEnt->bus.type" is
BUS_PLATFORM, the "pScrn->vgaDev" won't be set, so the "pScrn->vgaDev" is
equal to zero.

The variable "rsrc_decodes" in function "xf86VGAarbiterAllowDRI" is not
initialized. So it will occur error when "pScrn->vgaDev == 0", and
"vga_count > 1". For this case, as "pScrn->vgaDev == 0", the function
"pci_device_vgaarb_get_info" will only set the value of "vga_count", but won't set the value of "rsrcrecodes", so it will have two different return values for function "xf86VGAarbiterAllowDRI" in different platforms. One platform will return TRUE, as the "rsrcrecodes"'s default value is 0, but another platform will return FALSE, as the "rsrcrecodes"'s default value is "32767", this will cause disable direct rendering.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96937

Signed-off-by: Emily Deng <Emily.Deng@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit fa2bc06407665ee074f5914d0f83d4114b20fc8e
Author: Keith Packard <keithp@keithp.com>
Date: Fri Aug 12 17:40:55 2016 -0700
dix: Avoid writing uninitialized bytes in deliverPropertyNotifyEvent

Make sure the whole event is initialized, instead of leaving the pad bytes unset.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 67fc5d68f967d19236221b2c0c2e0fe45acf560f
Author: Keith Packard <keithp@keithp.com>
Date: Sat Aug 13 09:02:15 2016 -0700

os: Abandon loop after poll call when array of fds has changed

If a file descriptor is added or removed from an ospoll callback, then the arrays containing file descriptor information will have all of their indices changed, so the loop state is no longer consistent. Just bail out and let the caller come back around to try again.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7dfffbb6013cfc718d884cc549d7a8efef37240cf
Author: Keith Packard <keithp@keithp.com>
Date: Fri Aug 12 15:23:55 2016 -0700

os: Delay freeing of epoll_wait return pointers until epoll is idle.

Instead of freeing the struct ospollfd elements when the fd is removed by the user, delay that until epoll is idle so that we are sure no epoll_event structures could contain the stale pointer. This
handles cases where an fd is removed from the ospoll callback interface, and also in case the OS keeps stale pointers around after the call to epoll_ctl with EPOLL_CTL_DEL.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 69b782aa75bc06f11b8f9b532d5213f252c46c4
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 29 17:45:45 2016 -0700

xfree86: Set pScrn->pScreen before driver ScreenInit is called

Any code called from the driver ScreenInit may want to refer to pScrn->pScreen. As the function passed to AddScreen is the first place the DDX sees a new screen, the generic code needs to make sure that value is set before passing control to the video driver's initialization code.

This was found by running a driver which didn't bother to set this value when the initial colormap was installed; xf86RandR12LoadPalette tried to use pScrn->pScreen and crashed.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97124
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit 387d6b5df3e11de5cb88db8a559128fcb62e4e5a
Merge: d2558f063a 8bb9d460fb
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 13 09:12:19 2016 -0700

Merge remote-tracking branch 'daenzer/for-master'

commit d2558f063a034a827247b66b4c5adbf0e79dc0e7
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 11 17:28:38 2016 -0700

Build glamor when Xorg or Xephyr are built.

Requires gbm when building Xorg so that xf86-video-modesetting will work.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2b9f8ae98602d2abda7c363900f39a5bd3768a4c
mi: Remove spurious call to OsReleaseSignals from mieqGrowQueue

This call wasn't converted to `input_unlock()` when the SIGIO code was removed from the server, and so when the queue growing was reworked to be done from the input thread, it got left sitting here. As the caller now manages the lock, we don't need to switch this to input_unlock at this point.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f399919e13c994452f7219163b2a4b1fa015242e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 12 13:59:56 2016 +1000

xfree86: lock input during PreInit

This is a problem for the libinput driver that uses the same context across multiple devices. The driver may be halfway through setting up an input device (and the only way to do so is to add it to libinput) when the input thread comes in an reads events. This then causes mayhem when data is dereferenced that hasn't been set up yet.

In my case the cause was the call to libinput_path_remove_device() inside preinit racing with evdev_dispatch_device() handling of ENODEV. The sequence was:
- thread 2 gets an event and calls evdev_dispatch_device()
- thread 1 calls libinput_path_remove_device() which sets the device->source to NULL
- thread 2 reads from the fd, gets ENODEV and now removes the device->source, dereferencing the null-pointer

This is the one I could reproduce the most, but there are other potential pitfalls that affect any driver that uses the same fd for multiple devices. Avoid all this and wrap PreInit into the lock.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit dd4e21cb3a6e692e834ec34bec42944202b3e085
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 12 12:06:18 2016 +1000

xfree86: fix unbalanced input_lock/unlock in xf86NewInputDevice()
If a device couldn't be enabled we left the lock hanging.

This patch also removes the leftover OsReleaseSignals() call, now unnecessary. Note that input_unlock() is later than previously OsReleaseSignals(). RemoveDevice() manipulates the input device and its file descriptors, it's safer to put the input_unlock() call after RemoveDevice() to avoid events coming in while the device is being removed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit bf31d6f43e5ce04891a96b226a975379e2e2ba71
Author: Keith Packard <keithp@keithp.com>
Date: Thu Aug 11 12:34:54 2016 -0700

os: Allow re-registering fd with InputThreadRegisterDev

Calling InputThreadRegisterDev twice with the same fd should replace the existing function and args instead of creating a new entry with the same fd.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2df2815d6ae0c2ff9e0a084d61ee3585f5116df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 9 17:35:58 2016 +1000

os: append, rather than prepend, any new input thread fds

xf86AddEnabledDevice() prepends the new fd to the list, xf86RemoveEnabledDevice() then searches for a matching fd and removes that entry. If this is done for the same fd (and since we lose all information but the actual fd) we usually unregister virtual devices in reverse order, causing a dereference of already released memory.

Case in point:
- the wacom driver calls xf86AddEnabledDevice() once for the physical device, then multiple times for the virtual subdevices
- when the physical device is unplugged, the driver calls xf86RemoveEnabledDevice() for the physical device
- all we have is the fd, so we end up removing the last virtual device from the fd set
- xf86DeleteInput() frees the physical device's pInfo
- the fd goes crazy with ENODEV, but a read_input() now passes the already freed pInfo for the physical device
- boom
Fix this by appending to the fd list to provide bug-for-bug compatibility with the old SIGIO code. This needs to be fixed in the driver, but meanwhile not crashing the server provides for better user experience.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a446ff84de2dd29439521f6e87d75bde3bbf002c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Jul 29 17:38:21 2016 +0900

xfree86/modes: Handle no palette case better in xf86RandR12CrtcSetGamma

Just use the RandR gamma ramp directly.

Fixes random on-monitor colours with drivers which don't call xf86HandleColormaps, e.g. modesetting.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97154

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit d3d4ff0ed4d4679b7983b1a3ea267ff945f7643c
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Thu Jul 28 07:28:51 2016 -0700

modesetting: Delete dead drmmode_bo_for_pixmap function.

Embarassingly, it looks like I introduced this dead function in commit 13c7d53d8dac45ea2a685826cd45a39bcb51657 a year ago. Nothing ever used it, not even then.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 8bb9d460fbc82ee5d6f87e1d11cfa52f4f3072ee
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Jul 29 17:38:21 2016 +0900

xfree86/modes: Handle no palette case better in xf86RandR12CrtcSetGamma

Just use the RandR gamma ramp directly.

Fixes random on-monitor colours with drivers which don't call xf86HandleColormaps, e.g. modesetting.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=97154
present: Handle event mask updates as specified v2

From the Present extension specification:

An event context is associated with a specific window; using an existing event context with a different window generates a Match error.

If eventContext specifies an existing event context, then if eventMask is empty, PresentSelectInput deletes the specified context, otherwise the specified event context is changed to select a different set of events.

If eventContext is an unused XID, then if eventMask is empty no operation is performed. Otherwise, a new event context is created selecting the specified events.

Without this change, there's no way for a client to explicitly change or destroy an existing event mask entry. Trying to do so as specified above would just result in a protocol error.

v2: (Keith Packard)
* Use dixLookupResourceByType instead of walking window_priv->events
* Return BadMatch if the existing event context is associated with a different window or client
* Call LEGAL_NEW_RESOURCE again when creating a new event context
* Drop invalid "leak fix"

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

present: Only call restore_screen_pixmap once from set_abort_flip

present_restore_screen_pixmap's work doesn't need to be done several times for the same pending flip.
Fixes a crash if the X server quits while a flip is pending, in which case present_set_abort_flip may be called several times, including when screen->root is already cleared to NULL.

Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit b4e46c0444bb09f4af59d9d13acc939a0fbbc6d6
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Sat Nov 28 16:50:47 2015 +0900

xfree86: Hook up colormaps and RandR 1.2 gamma code v6

Instead of breaking the former when the driver supports the latter, hook them up so that the hardware LUTs reflect the combination of the current colourmap and gamma states. I.e. combine the colourmap, the global gamma value/ramp and the RandR 1.2 per-CRTC gamma ramps into one combined LUT per CRTC.

Fixes e.g. gamma sliders not working in games.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=27222

v2:
* Initialize palette_size and palette struct members, fixes crash on server startup.
v3:
* Free randrp->palette in xf86RandR12CloseScreen, fixes memory leak.
v4:
* Call CMapUnwrapScreen if xf86RandR12InitGamma fails (Emil Velikov).
* Still allow xf86HandleColormaps to be called with a NULL loadPalette parameter in the xf86_crtc_supports_gamma case.
v5:
* Clean up inner loops in xf86RandR12CrtcComputeGamma (Keith Packard)
* Move palette update out of per-CRTC loop in xf86RandR12LoadPalette (Keith Packard)
v6:
* Handle reallocarray failure in xf86RandR12LoadPalette (Keith Packard)

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 17213b74d7fc4e4e2fe7a3781e7422dd482a0ab
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Tue Jun 21 16:44:20 2016 +0900

xfree86/modes: Remove xf86RandR12CrtcGetGamma

This would normally return the same values the core RandR code passed to
xf86RandR12CrtcSetGamma before, which is rather pointless. The only possible exception would be if a driver tried initializing crtc->gamma_red/green/blue to reflect the hardware LUT state on startup, but that can't work correctly if whatever set the LUT before the server started was running at a different depth.

Even the pointless round-trip case will no longer work with the following change.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 62f44052573b475a7b4c24f8e2da9bd6a8f1bd70
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Jun 21 15:41:45 2016 +0900

xfree86/modes: Move gamma initialization to xf86RandR12Init12 v2

RRCrtcGammaSetSize cannot be used yet in xf86InitialConfiguration, because randr_crtc isn't allocated yet at that point, but a following change will require RRCrtcGammaSetSize to be called from xf86RandR12CrtcInitGamma.

v2:
* Bail from xf86RandR12CrtcInitGamma if !crtc->funcs->gamma_set (Keith Packard)

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0b2f30834b1a9f4a03542e25c5f54ae800df57e2
Author: Keith Packard <keithp@keithp.com>
Date:   Sun May 29 17:47:29 2016 -0700

os: Clean up WaitFor.c

Do all timer stuff before blocking, avoiding a bunch of duplicate code and merge common code in WaitForSomething.

The WaitForSomething changes need a bit of explanation to show that the new code is effectively equivalent to the old. Eliding error checking and trivial bits we've got:

Before:

if (ready clients)
    timeout = 0
else
    compute timeout
i = poll
if (i <= 0) {
    if (ready clients)
        return TRUE;
    if (input)
        return FALSE;
    if (any ready timers) {
        run timers
        return FALSE;
    }
} else {
    if (input)
        return FALSE;
    if (any ready timers) {
        run timers
        return FALSE;
    }
    if (ready clients)
        return TRUE;
}

After:

    if (ready clients)
        timeout = 0;
    else
        compute timeout
        run_timers
        poll

    if (input)
        return FALSE;

    if (ready clients)
        return TRUE;

The old code would return TRUE if there were ready clients and input pending. Dispatch would then schedule that ready client, but before processing any requests, it would notice that there was input pending and go process it. The new code just checks for input first, which is effectively the same.

If the poll timed out and there weren't clients ready, then timers would get run.

If the poll didn't time out, then timers would get run, even if there were clients now ready. Now, if the timeout interval was zero, that means that the timers must have been ready *before* poll was invoked. In this case, we should simply run the timers before calling
poll -- no sense calling poll just to discard any data that it generates.

If the timeout interval was non-zero, and poll didn't timeout, then either there aren't any timers to run, or we got a surprise and hit a timer exactly as a client became ready to run. This is the one case where the new code is different from the old; the new code delays the timer call until the next time WaitForSomething is called.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2ab8b1dcd37900e5e2f11007d7c0cd0545209482
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 19:48:25 2016 -0700

os: Use xorg_list for struct _OsTimerRec

No sense having an open-coded linked list here, plus the doubly linked list is more efficient

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 50779c494d4682103b96db440021e56e44311b6b
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 12:45:53 2016 -0700

os: Remove CheckConnections

poll provides per-fd notification of failure, so we don't need CheckConnections anymore.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f0275b1e5a4787da1f4d5507165315a000c22b33
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 26 00:19:55 2016 -0700

os: Leave stdin and stdout open

There's no reason to close these now that we don't care what file descriptors we use.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Allow 1024 and 2048 for LimitClients

There's no reason not to offer ridiculous numbers of clients; only a few static data structures are arrays of this length.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

os: eliminate fd value limits for clients

With no code depending on the range of file descriptors, checking for that can be eliminated.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

os: Use ospoll for input thread [v2]

Replace use of select(2) to avoid fd limits. Note that InputThreadFillPipe used select as well, but none of the files passed were non-blocking, so there was no need for that code at all.

v2: Keep ospoll API usage single threaded to avoid re-entrancy issues

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

os: Switch server to poll(2) [v3]

Eliminates all of the fd_set mangling in the server main thread

v2: Listen for POLLOUT while writes are blocked.
v3: Only mark client not ready on EAGAIN return from read

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8f1edf4bd3a1f050ce9eeb5eac45dd1a8f7a6d5e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 19 13:59:54 2016 -0700

dix: Use list for ready clients

This converts the dispatch loop into using a list of ready clients instead of an array. This changes the WaitForSomething API so that it notifies DIX when a client becomes ready to read, instead of returning the set of ready clients.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d6eff3c31e8289881a3aa9b858e5710d0f741db0
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 26 10:20:45 2016 -0700

os: Add ospoll interface [v2]

This provides a wrapper around poll or epoll providing a callback-based interface for monitoring activity on a large set of file descriptors.

v2: use xserver_poll API instead of poll. Don't use WSAPoll as that is broken.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d403aca70a07e1401cb93738f1af5961582a2e47
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 18 15:58:42 2016 -0700

Switch poll() users to xserver_poll()

This uses the wrapper in case we need to emulate poll with select as we do on Windows.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 711c36558f50943c8342f25ad210281134887a3d
Author: Brian M. Clapper <bmc@clapper.org>
Date: Mon Jul 11 18:30:05 2016 -0400

  os: Add poll emulation for mingw [v2]

  v2: rename as 'xserver_poll' to avoid potential library name
  collisions. Provide 'xserver_poll.h' which uses the system
  poll where available and falls back to this emulation otherwise.
  Autodetects when this is required, building the emulation only
  then

  Source: https://github.com/bmc/poll
  Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2a79be9e4dd1b66ba00b69ff40bc5257ec84d34da
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Tue Jul 19 13:35:37 2016 +0100

  hw/xwin: Update BlockHandler function signature

  Update for removal of fdset from Block/Wakeup handler API in 9d15912a

  Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
  Reviewed-by: Keith Packard <keithp@keithp.com>

commit 60a91031d13e4d29c383087120ce318f6b528b6e5
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Tue Jul 19 13:35:36 2016 +0100

  hw/xwin: Update for removal of AddEnabledDevice

  Update for removal of AddEnabledDevice in be5a513f. Use SetNotifyFd instead.

  Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
  Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7f2d690725292c7b5a44e813c9456da426256873
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 27 10:17:14 2016 +1000

  xfree86: if ATTR_KEYBOARD is set, match for keyboards

  ATTR_KEY maps to ID_INPUT_KEY which is set for any device with keys.
  ID_INPUT_KEYBOARD and thus ATTR_KEYBOARD is set for devices that are actual
  keyboards (and have a set of expected keys).

  Hand-written match rules may only apply ID_INPUT_KEYBOARD, so make sure we
match on that too.

Arguably we should've been matching on ATTR_KEYBOARD only all along but changing that likely introduces regressions.

Reported-by: Marty Plummer <netz.kernel@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4b311d23e84356bd0e9e736aedd7448dd6382118
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 18 12:46:51 2016 -0400

modesetting: resubmit dirty rects on EINVAL (v2)

This error code can mean we're submitting more rects at once than the driver can handle. If that happens, resubmit one at a time.

v2: Make the rect submit loop more error-proof (Walter Harms)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michael Thayer <michael.thayer@oracle.com>

commit 8d3a368d89980e37e8c57065dc901ce809887e6
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 1 22:47:29 2016 -0700

os: InputThreadFillPipe doesn't need select or poll

The file descriptors passed to InputThreadFillPipe are always blocking, so there's no need to use Select (or poll).

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ef7d8242ed4c461f816663fb88646e41f1c21b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 1 22:35:09 2016 -0700

os: Move ETEST macro from io.c to osdep.h

This lets other code share this functionality

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0d294462a5af08ada654c588fad921ed7a22749b
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 15:06:36 2016 -0700

os: Add X_NOTIFY_ERROR value

This provides a way to report errors on file descriptors that is better defined than "any bits which are not READ or WRITE".

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e6636b438322a9a2f2270ad9d60bf3dfc72be0b3
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 26 10:30:56 2016 -0700

os: Compute timeout in milliseconds instead of struct timeval

The timeout resolution offered in the AdjustWaitForDelay call is only milliseconds, so passing around the timeout as a pointer to a struct timeval is not helpful. Doing everything in milliseconds up to the point of the select call simplifies the code without affecting functionality at all.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a414db021575accff64abad6f1047245e81c7476
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 19 15:08:05 2016 -0700

dix: Intermediate GrabServer state 'GrabKickout' not needed

The intermediate grabState, "GrabKickout", was used to trigger dispatch into going back to WaitForSomething after doing a GrabServer so that the set of ready clients would be recomputed to match what the server should be processing. As we only process one client per WaitForSomething call, we will always hit WaitForSomething after finishing the current client, and so don't need any special case here.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7762a602c1dfdd8cfcf2b8c2281cf4d683d05216
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 19 15:05:55 2016 -0700

dix/os: Merge priority computation into SmartScheduleClient

Instead of having scheduling done in two places (one in
WaitForSomething, and the other in SmartScheduleClient), just stick all of the scheduling in SmartScheduleClient.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4af00242ef1e39499b932d12423fdf449296090a
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 30 01:49:46 2016 -0700

Bump ABI versions to reflect block/wakeup handler API changes

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit be5a513fee6cf29ef7570e57eb0436d70fbd88c
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 7 15:12:14 2015 -0800

Remove AddEnabledDevice and AddGeneralSocket APIs

All uses of these interfaces should instead be using the NotifyFd API instead.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9d15912aa475b733bbb20efc367a67dacad63bf1
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 1 18:51:14 2015 -0700

Remove fd_set from Block/Wakeup handler API

This removes the last uses of fd_set from the server interfaces outside of the OS layer itself.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fb0802113b4c57819cba156d4bafe79b4f148607e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 1 11:20:04 2015 -0700

Remove readmask from screen block/wakeup handler

With no users of the interface needing the readmask anymore, we can remove it from the argument passed to these functions.
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 410bc047480a9f98df678dc850bc6b99c3cfb5bf
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 7 15:03:10 2015 -0800
dmx: Eliminate use of AddEnabledDevice [v2]

Use SetNotifyFd instead, with the hope that someday someone will come
fix this to be more efficient -- right now, the wakeup handler is
doing the event reading, instead of the notify callback.

v2: no need to patch dmxsigio.c as it has been removed.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6299ef3d749d6f978d3d38d42f711ac56bf382eb
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 27 11:49:35 2015 -0700
modesetting: Use passed-in fd for drm event monitoring NotifyFd callback

This is a cleanup, proposed by Adam Jackson, but wasn't merged with
the original NotifyFD changes.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6bf7b49f6711c7ed1837283dc04f9364c1b77ecc
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 27 11:47:26 2015 -0700
hw/kdrive: Use passed-in fd for kdrive/linux APM monitoring [v2]

This is a cleanup, proposed by Adam Jackson, but wasn't merged with
the original NotifyFD changes.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 55c2e1a3aa587c58a74066724e11e30b3df267b8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 7 15:11:33 2015 -0800
xnest: Use SetNotifyFd to receive events
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 24e65bf0db57bf4ac70386c0a0e8275b73edd2fb
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 3 01:02:02 2015 -0600

hw/xfree86: Use NotifyFd for other input fd wakeups

Remove code in xf86Wakeup for dealing with other input and switch to using the new NotifyFd interface.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c3fea428aed919826130ef8ebdb2cceb445a845b
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 24 20:51:31 2016 -0700

os: Use NotifyFd for ErrorConnMax

Instead of open-coding a single FD wait, use NotifyFd to wait for the FD to become readable before returning the error message.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 559aac2d71250e3137aa582e2a59a918ddf21b7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 24 21:59:38 2016 -0700

dmx: Switch from select(2) to poll(2) for input

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit aa6717ce213e79735c72afc5ec9ec1f9c0297e09
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 24 21:36:18 2016 -0700

xfree86: Switch from select(2) to poll(2)

xf86WaitForInput and the xf86 SIGIO handling code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 81135991a583b3b30a90e82ddc1d5e86d57bf00b
commit 05a793f5b3c40747d5a92a076def7f4fb673c7e7
Author: Keith Packard <keithp@keithp.com>
Date: Tue Sep 1 18:50:55 2015 -0700

dix: Switch to the libXfont2 API (v2)

This new libXfont API eliminates exposing internal X server symbols to
the font library, replacing those with a struct full of the entire API
needed to use that library.

v2: Use libXfont2 instead of libXfont_2

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 950ff8bd6fd1480f305e38c571bda44f247f1de2
Author: Eric Anholt <eric@anholt.net>
Date: Fri Nov 6 12:27:42 2015 -0800

glamor: Remove the FBO cache.

It is a modest performance improvement (2.7% on Intel), with the
significant downside that it keeps extra pixmap contents laying around
for 1000 BlockHandlers without the ability for the system to purge
them when under memory pressure, and tiled renderers don't know that
we could avoid reading their current contents when beginning to render
again. We could use the FB invalidate functions, but they aren't
always available, aren't hooked up well in Mesa, and would eat into
the performance gains of having the cache.

[ajax: rebased to master]

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e8e36755abb17872d669b8833ca9adc511029a0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Jul 1 12:34:20 2016 +0900
glamor: Translate solid text background region after clipping

Fixes incorrect clipping for redirected windows which don't happen to be located at the top left corner of the screen.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96742
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 32a9504c69183485b0b796fa3966cd1e39992365
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 12 10:04:18 2016 -0400

xfree86: Fix fallback driver sort order for Xorg -configure (v2)

The intent here was that fallback drivers would be at the end of the list in order, but if a fallback driver happened to be at the end of the list already that's not what would happen. Rather than open-code something smarter, just use qsort.

Note that qsort puts things in ascending order, so somewhat backwardsly fallbacks are greater than native drivers, and vesa is greater than modesetting.

v2: Use strcmp to compare non-fallback drivers so we get a predictable result if your libc's qsort isn't stable (Keith Packard)

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4926845a57fa8b53e18ca7d3434bf5539e9b7782
Author: Andrew Eikum <aeikum@codeweavers.com>
Date:   Wed Jul 6 14:13:09 2016 -0500

shm: Also censor images returned by ShmGetImage

We currently censor images from dix's GetImage, but not from ShmGetImage. This is a method to bypass XACE, creating a potential leak. We should censor in both methods.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Andrew Eikum <aeikum@codeweavers.com>

commit 9fcb554e9bfdf3eed2c2250d89150e3e7b907f01
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jul 8 15:17:05 2016 -0400

xwayland: Only force monotonic clock once
Otherwise on regeneration we get:

(EE) BUG: triggered 'if (clockid)'
(EE) BUG: utils.c:440 in ForceClockId()
(EE)
(EE) Backtrace:
(EE) 0: ./hw/xwayland/Xwayland (ForceClockId+0x5c) [0x47713c]
(EE) 1: ./hw/xwayland/Xwayland (OsInit+0x25) [0x4763d5]
(EE) 2: ./hw/xwayland/Xwayland (dix_main+0x11c) [0x43e60c]
(EE) 3: /lib64/libc.so.6 (__libc_start_main+0xf1) [0x7f627b2f9731]
(EE) 4: ./hw/xwayland/Xwayland (_start+0x29) [0x4238e9]
(EE) 5: ? (?+0x29) [0x29]

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jonas Ådahl <jadahl@gmail.com>

commit cf6730c503f8090a5d1b80918fe253fc2c5bc090
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Wed Jul 13 19:19:09 2016 +0200

xwayland: Update RR state on wl_output.done instead of wl_output.mode

Otherwise if the geometry changes but the mode doesn't we end up with
the previous geometry from RR's point of view.

Fixes https://bugzilla.gnome.org/show_bug.cgi?id=768710

Reviewed-by: Jonas Ådahl <jadahl@gmail.com>
Signed-off-by: Rui Matos <tiagomatos@gmail.com>

commit 401a8d6e1379133863e3271374dc21850d0d3cab
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Jun 28 17:22:47 2016 +0900

dix: Work around non-premultiplied ARGB cursor data

Some games incorrectly use non-premultiplied ARGB cursor data, presumably
because that's what Windows uses. On some hardware (and with SWcursor),
this breaks areas of the cursor which are supposed to be transparent
(and presumably also translucent areas, but that's less noticeable).

This change checks for pixels with alpha == 0 and any non-alpha component
!= 0. If any such pixel is found, the data is assumed to be
non-premultiplied and fixed up by multiplying the RGB components with the
alpha component.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=92309
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 033888e7766d226a179357d970223428c19c4b53
Author: Hans De Goede <hdegoede@redhat.com>
Date:   Thu Jul 7 10:55:04 2016 +0200

linux: Do not try to open /dev/vc/0, fix error msg when /dev/tty0 open fails

/dev/vc/0 is a devfs thing which is long dead, so stop trying to open
/dev/vc/0, besides being a (small) code cleanup this will also fix the
"parse_vt_settings: Cannot open /dev/tty0 (%s)\n" error message to
display the actual error, rather then the -ENOENT from also trying
/dev/vc/0.

BugLink: https://patchwork.freedesktop.org/patch/8768/
Reported-by: Chad Versace <chad.versace@linux.intel.com>
Suggested-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Chad Versace <chad.versace@intel.com>

commit ce24f3aa5815e03c2d501d1504f6c0162b219801
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jul 7 14:50:03 2016 -0700

modesetting: NULL assignment for drmmode_set_target_scanout_target_cpu

Commit 80e64dae: "modesetting: Implement PRIME syncing as a sink" originally was
supposed to have this line, but it was dropped as part of the merge process.

Foregoing the NULL assignment causes a ton of problems with dereferencing
uninitialized memory.

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit df8e86931eb19c196ed2afe85d89525ef8cb711b
Author: agoins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:48 2016 -0700

randr: Add ability to turn PRIME sync off

Adds an output parameter to disable PRIME synchronization.

Output parameter is created when the user calls 'xrandr
--setprovideroutputsource <sink> <source>' to prevent polluting output
parameters of non-PRIME configurations.
Defaults to on, so if the user wants PRIME synchronization they don't need to do anything.

If the user wishes to disable PRIME synchronization when they first set up PRIME, they can run `xrandr --output <output> --set "PRIME Synchronization" 0` after running `xrandr --setprovideroutputs <sink> <source>`, but before `xrandr --auto`.

If the user wishes to enable or disable PRIME synchronization after PRIME has already been set up, they can run `xrandr --output <output> --set "PRIME Synchronization" <0 or 1>` at any time, xrandr will trigger a modeset, which will tear down and setup PRIME in the configuration they requested on CRTC's associated with that output.

`randrstr.h`:
Add central definition of the output property name.

`rrcrtc.c`:
Add function `rrGetPixmapSharingSyncProp()` to query the status of the output property.

Add function `rrSetPixmapSharingSyncProp()` to set the output property.

Add 'sync' parameter to `rrSetupPixmapSharing()`, which when false will use single buffering even if the required ABI functions are supported. Changes `rrSetupPixmapSharing()` to only report an error if falling back to single buffering when the user requested synchronization.

Change `RRCrtcSet()` to use `rrPixmapSharingSyncProp()` to query the status of the output property and feed it into `rrSetupPixmapSharing()` using the 'sync' parameter.

`rrprovider.c`:
Add `RR(Init/Fini)PrimeSyncProps()`, functions to create and destroy the PRIME synchronization output property.

Add a call to `RRInitPrimeSyncProps()` in `ProcRRSetProviderOutputSource()`, such that the output property is created when the user requests PRIME.

Add a call to `RRFiniPrimeSyncProps()` in `RRProviderDestroy()`.

v1: Initial commit
v2: Unchanged
v3: Add /* TODO */ for handling different sources with different outputs
Make `rrSetupPixmapSharing()` set the output property to 0 if it has to fall back, to avoid user confusion.
Make rr(Get)PixmapSharingSyncProp() check the current value if there isn't a pending value
v4: Unchanged
v5: Unchanged
v6: Rebase onto ToT
v7: Unchanged

Signed-off-by: Alex Goins <agoins@nvidia.com>

commit 60ad701a6a8cb9f1eacb72acfe2cb8d3b7a865dc
Author: Hans de Goede <hdeoede@redhat.com>
Date: Tue Jun 14 11:58:01 2016 +0200

modesetting: Load on GPU-s with 0 outputs

In newer laptops with switchable graphics, the GPU may have 0 outputs, in this case the modesetting driver should still load if the GPU is SourceOffload capable, so that it can be used as an offload source provider.

Signed-off-by: Hans de Goede <hdeoede@redhat.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit 94a1c77259ce39ba59ad87615df39b570f4b435
Author: Hans de Goede <hdeoede@redhat.com>
Date: Thu Jun 16 15:21:03 2016 +0200

modesetting: Fix swapping of provider sink / source capabilities

When a card has import capability it can be an offload _sink_, not a source and vice versa for export capability.

This commit fixes the modesetting driver to properly set these capabilities, this went unnoticed so far because most gpus have both import and export capability.

Signed-off-by: Hans de Goede <hdeoede@redhat.com>
Reviewed-by: Eric Engestrom <eric.engestrom@imgtec.com>

commit fcbafdf79fd03205bc324e23b6d4e4d47180e1
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 22 12:14:08 2015 -0400

modesetting: Implement a double-buffered shadow mode

Server GPUs often have a VNC feature attached to allow remote console. The controller implementing this feature is usually not very powerful, and we can easily swamp it with work. This is made somewhat worse by damage over-reporting the size of the dirty region, and a whole lot
worse by applications (or shells) that update the screen with identical pixel content as was already there.

Fix this by double-buffering the shadow fb, using memcmp to identify dirty tiles on each update pass. Since both shadows are in host memory the memcmp is cheap, and worth it given the win in network bandwidth. The tile size is somewhat arbitrarily chosen to be one cacheline wide at 32bpp on Intel Core.

By default we enable this behaviour for (a subset of) known server GPUs; the heuristic could use work.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 75e660e379d921a53eb7c3bc9c2e412fa58aec02
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 22 12:14:07 2015 -0400

modesetting: Drop some non-functional triple-buffering variables

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 21217d02168d1883b2d1f64399ae494f96a8b9d
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jul 22 12:14:06 2015 -0400

modesetting: Implement 32->24 bpp conversion in shadow update

24bpp front buffers tend to be the least well tested path for client rendering. On the qemu cirrus emulation, and on some Matrox G200 server chips, the hardware can't do 32bpp at all. It's better to just allocate a 32bpp shadow and downconvert in the upload hook than expose a funky pixmap format to clients.

[ajax: Ported from RHEL and separate modesetting driver, lifted kbpp into the drmmode struct, cleaned up commit message, fixed 16bpp]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
[hdegoede@redhat.com: rebase, also use kbpp for rotate shadow fb]
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit af916477c65a083ec496ac3f088d766b410e8b6e
modesetting: Fix hw cursor check at the first call

With the previous patch, the modesetting driver can now return whether
the driver supports hw cursor. However, it alone doesn't suffice,
unfortunately. drmmode_load_cursor_arbg_check() is called in the
following chain:

xf86CursorSetCursor()
 - xf86SetCursor()
   - xf86DriverLoadCursorARGB()
     - xf86_load_cursor_argb()
       - xf86_crtc_load_cursor_argb()
         - drmmode_load_cursor_arbg_check()

*but* at first with drmmode_crtc->cursor_up = FALSE. Then the
function doesn't actually set the cursor but returns TRUE
unconditionally. The actual call of drmmode_set_cursor() is done at
first via the show_cursor callback, and there is no check of sw cursor
fallback any longer at this place. Since it's called only once per
cursor setup, so the xserver still thinks as if the hw cursor is
supported.

This patch is an ad hoc fix to correct the behavior somehow: it does
call drmmode_set_cursor() at the very first time even if cursor_up is
FALSE, then quickly hides again. In that way, whether the hw cursor
is supported is evaluated in the right place at the right time.

Of course, it might be more elegant if we have a more proper mechanism
to fall back to sw cursor at any call path. But it'd need more
rework, so I leave this workaround as is for now.

Signed-off-by: Takashi Iwai <tiwai@suse.de>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 14c21ea1c9496638b1feb8e6145c440fb4f1d14b
Author: Takashi Iwai <tiwai@suse.de>
Date:   Mon Feb 16 17:00:54 2015 +0100

modesetting: Use load_cursor_argb_check for sw cursor fallback

The modesetting driver still has an everlasting bug of invisible
cursor on cirrus and other KMS drivers where no hardware cursor is
supported. This patch is a part of an attempt to address it.
This patch particularly converts the current load_cursor_argb callback of modesetting driver to load_cursor_argb_check so that it can return whether the driver handles the hw cursor or falls back to the sw cursor.

Signed-off-by: Takashi Iwai <tiwai@suse.de>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 074cf58769b38550a3f35d5ecb73333330cb2aed
Author: Takashi Iwai <tiwai@suse.de>
Date: Mon Feb 16 17:00:53 2015 +0100

modesetting: Fix the error check from DRM_IOCTL_MODE_CURSOR2

The error value isn't always -EINVAL, e.g. the kernel drm core returns -ENXIO when the corresponding ops doesn't exist. Without this fix, DRM_IOCTL_MODE_CURSOR2 would be dealt as success even if it shouldn't.

Signed-off-by: Takashi Iwai <tiwai@suse.de>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 3762edded8e6e973f71419937e16bea262a266b8
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jun 29 14:07:32 2016 -0400

configure: Tell AC_REPLACE_FUNCS where to find replacements

Fixes weird link errors of the form:

    CCLD Xvfb
    ../../../lib/libXext.a(xvmc.o): In function `xf86XvMCRегистarDRInfo':
    /home/ajax/git/xserver/Xext/xvmc.c:828: undefined reference to `strlcpy'
    /home/ajax/git/xserver/Xext/xvmc.c:829: undefined reference to `strlcpy'
    ../../../os/os.O: In function `siHostnameAddrMatch':
    /home/ajax/git/xserver/os/access.c:1821: undefined reference to `strlcpy'
    ../../../os/os.O: In function `AuthAudit':
    /home/ajax/git/xserver/os/connection.c:555: undefined reference to `strlcpy'
    /home/ajax/git/xserver/os/connection.c:574: undefined reference to `strlcpy'
    ../../../os.O:/home/ajax/git/xserver/os/log.c:972: more undefined references to `strlcpy' follow
collect2: error: ld returned 1 exit status
Makefile:688: recipe for target 'Xvfb' failed
make[3]: *** [Xvfb] Error 1
Makefile:749: recipe for target 'all-recursive' failed
make[2]: *** [all-recursive] Error 1
Makefile:608: recipe for target 'all-recursive' failed
make[1]: *** [all-recursive] Error 1
Makefile:776: recipe for target 'all-recursive' failed
make: *** [all-recursive] Error 1

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit d135100d6b17e54262a12aeaeb0fe2fe48da3bb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 28 11:42:41 2016 +1000

xkb: add a cause to the xkb indicator update after a keymap change

Regression introduce by ac164e58870d which calls
XkbUpdateAllDeviceIndicators() with two NULL arguments. A few layers down into
the stack and we triggered a NULL-pointer dereference. In theory a NULL cause
is acceptable since we don't actually change modifier state here. Instead of
updating all places to check for NULL just set the cause to the client
request and go to the pub.

https://bugs.freedesktop.org/show_bug.cgi?id=96384

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit b83dede9cb930cf55249ad8e935f3c4d4328e2d9
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:56 2016 -0700

modesetting: Implement PRIME syncing as a source

Implements (Start/Stop)FlippingPixmapTracking, PresentSharedPixmap, and
RequestSharedPixmapNotifyDamage, the source functions for PRIME
synchronization and double buffering. Allows modesetting driver to be used
as a source with PRIME synchronization.

v1: N/A
v2: N/A
v3: N/A
v4: Initial commit
v5: Move disabling of reverse PRIME on sink to sink commit
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Reverse PRIME seems to be designed with discrete graphics as a sink in mind, designed to do an extra copy from sysmem to vidmem to prevent a discrete chip from needing to scan out from sysmem.

The criteria it used to detect this case is if we are a GPU screen and Glamor accelerated. It's possible for i915 to fulfill these conditions, despite the fact that the additional copy doesn't make sense for i915.

Normally, you could just set AccelMethod = none as an option for the device and call it a day. However, when running with modesetting as both the sink and the source, Glamor must be enabled.

Ideally, you would be able to set AccelMethod individually for devices using the same driver, but there seems to be a bug in X option parsing that makes all devices on a driver inherit the options from the first detected device. Thus, glamor needs to be enabled for all or for none until that bug (if it's even a bug) is fixed.

Nonetheless, it probably doesn't make sense to do the extra copy on i915 even if Glamor is enabled for the device, so this is more user friendly by not requiring users to disable acceleration for i915.

**v1:** N/A  
**v2:** N/A  
**v3:** N/A  
**v4:** Initial commit  
**v5:** Unchanged  
**v6:** Rebase onto ToT  
**v7:** NULL check and free drmVersionPtr

Reviewed-by: Dave Airlie <airlied@redhat.com>  
Signed-off-by: Alex Goins <agoins@nvidia.com>

Reverse PRIME seems to be designed with discrete graphics as a sink in mind, designed to do an extra copy from sysmem to vidmem to prevent a discrete chip from needing to scan out from sysmem.

reverse PRIME seems to be designed with discrete graphics as a sink in mind, designed to do an extra copy from sysmem to vidmem to prevent a discrete chip from needing to scan out from sysmem.
have strange semantics when it comes to vblank events, due to their inability to get the actual vblank info.

When doing a page flip, UDL instantly raises a vblank event without waiting for vblank. It also has no support for DRM_IOCTL_WAIT_VBLANK, and has some strange behavior with how it handles damage when page flipping.

It's possible to get something semi-working by hacking around these issues, but even then there isn't much value-add vs single buffered PRIME, and it reduces maintainability and adds additional risks to the modesetting driver when running with more well-behaved DRM drivers.

Work needs to be done on UDL in order to properly support synchronized PRIME. For now, just blacklist it, causing RandR to fall back to unsynchronized PRIME.

This patch originally blacklisted UDL by name, but it was pointed out that there are other USB transport device drivers with similar limitations, so it was expanded to blacklist all USB transport devices.

v1: N/A
v2: N/A
v3: Initial commit
v4: Move check to driver.c for consistency/visibility
v5: Refactor to accommodate earlier changes
v6: Rebase onto ToT
v7: Expand to blacklist all USB transport devices, not just UDL

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commits 500853086dd5fbfe6d2b3e30923f12e4c48c262cf0

Author: Alex Goins <agoins@nvidia.com>
Date: Thu Jun 16 20:06:53 2016 -0700

modesetting: Suspend and resume flipping with DPMS

DPMS would prevent page flip / vblank events from being raised, freezing the screen until PRIME flipping was reinitialized. To handle DPMS cleanly, suspend PRIME page flipping when DPMS mode is not on, and resume it when DPMS mode is on.

v1: Initial commit
v2: Moved flipping_active check from previous commit to here
v3: Unchanged
v4: Unchanged
v5: Move flipping_active check to sink support commit
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit 80e64dae8af1eb3bb225b00fd800c6924883cf46
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:52 2016 -0700

modesetting: Implement PRIME syncing as a sink

Implements (Enable/Disable)SharedPixmapFlipping and
SharedPixmapNotifyDamage, the sink functions for PRIME synchronization and
double buffering. Allows modesetting driver to be used as a sink with PRIME
synchronization.

Changes dispatch_slave_dirty to flush damage from both scanout pixmaps.

Changes drmmode_set_scanoutPixmap*() functions to
drmmode_set_target_scanoutPixmap*() that take an additional parameter
PixmapPtr *target. Then, treat *target as it did primePixmap. This allows
me to use it to explicitly set both primePixmap and primePixmap_back
individually. drmmode_set_scanoutPixmap() without the extra parameter
remains to cover the single-buffered case, but only works if we aren't
already double buffered.

driver.c:

    Add plumbing for rr(Enable/Disable)SharedPixmapFlipping and
    SharedPixmapNotifyDamage.

    Change dispatch_dirty_crtc to dispatch_dirtyPixmap, which functions the
    same but flushes damage associated with a ppriv instead of the crtc, and
    chanage dispatch_slave_dirty to use it on both scanout pixmaps if
    applicable.

drmmode_display.h:

    Add flip_seq field to msPixmapPrivRec to keep track of the event handler
    associated with a given pixmap, if any.

    Add wait_for_damage field to msPixmapPrivRec to keep track if we have
    requested a damage notification from the source.

    Add enable_flipping field to drmmode_crtc_private_rec to keep track if
    flipping is enabled or disabled.

    Add primePixmap_back to drmmode_crtc_private_rec to keep track of back
    buffer internally.
Add declarations for `drmMode_SetupPageFlipFence()`,
`drmMode_EnableSharedPixmapFlipping()`,
`drmMode_DisableSharedPixmapFlipping`, `drmMode_SharedPixmapFlip()`, and
`drmMode_SharedPixmapPresentOnVBlank()`.

Move slave damage from crtc to ppriv.

`drmMode_display.c`:
Change `drmMode_set_scanout_pixmap*()` functions to
`drmMode_set_target_scanout_pixmap*()` that take an additional parameter
PixmapPtr *target for explicitly setting different scanout pixmaps.

Add definitions for functions `drmMode_SharedPixmapFlip()`,
`drmMode_SharedPixmapPresentOnVBlank()`,
`drmMode_SharedPixmapPresent()`,
`drmMode_SharedPixmapVBlankEvent<u_int>()`,
`drmMode_EnableSharedPixmapFlipping()`, and
`drmMode_DisableSharedPixmapFlipping`,
`drmMode_InitSharedPixmapFlipping()`, and
`drmMode_FiniSharedPixmapFlipping`, along with struct
`vblank_event_args`.

The control flow is as follows:
`pScrPriv->rrEnableSharedPixmapFlipping()` makes its way to
drmMode_EnableSharedPixmapFlipping(), which sets enable_flipping to
TRUE and sets both scanout pixmaps `prime_pixmap` and
`prime_pixmap_back`.

When setting a mode, if `prime_pixmap` is defined, modesetting
driver will call drmMode_InitSharedPixmapFlipping(), which if
flipping is enabled will call drmMode_SharedPixmapPresent() on
scanout_pixmap_back.

drmMode_SharedPixmapPresent() requests that for the source to
present on the given buffer using master->PresentSharedPixmap(). If
it succeeds, it will then attempt to flip to that buffer using
drmMode_SharedPixmapFlip(). Flipping shouldn't fail, but if it
does, it will raise a warning and try drmMode_SharedPixmapPresent() again on the next vblank using
drmMode_SharedPixmapPresentOnVBlank().

master->PresentSharedPixmap() could fail, in most cases because
there is no outstanding damage on the mscreenpix tracked by the
shared pixmap. In this case, drmMode_SharedPixmapPresent() will
attempt to use master->RequestSharedPixmapNotifyDamage() to request
for the source driver to call slave->SharedPixmapNotifyDamage() in
response to damage on mscreenpix. This will ultimately call
to retry
on the next vblank after accumulating damage.

\texttt{drmmode\_SharedPixmapFlip()} sets up page flip event handler by
packing struct vblank\_event\_args with the necessary parameters, and
registering \texttt{drmmode\_SharedPixmapVBlankEventHandler()} and
\texttt{drmmode\_SharedPixmapVBlankEventAbort()} with the modesetting DRM
event handler queue. Then, it uses the \texttt{drmModePageFlip()} to flip on
the next vblank and raise an event.

\texttt{drmmode\_SharedPixmapPresentOnVBlank()} operates similarly to
\texttt{drmmode\_SharedPixmapFlip()}, but uses \texttt{drmWaitVBlank()} instead of
\texttt{drmModePageFlip()} to raise the event without flipping.

On the next vblank, DRM will raise an event that will ultimately be
handled by \texttt{drmmode\_SharedPixmapVBlankEventHandler()}. If we flipped,
it will update \texttt{prime\_ pixmap} and \texttt{prime\_ pixmap\_ back} to reflect that
\texttt{frontTarget} is now being displayed, and use
\texttt{drmmode\_SharedPixmapPresent(backTarget)} to start the process again
on the now-hidden shared pixmap. If we didn't flip, it will just
use \texttt{drmmode\_SharedPixmapPresent(frontTarget)} to start the process
again on the still-hidden shared pixmap.

Note that presentation generally happens asynchronously, so with
these changes alone tearing is reduced, but we can't always
guarantee that the present will finish before the flip. These
changes are meant to be paired with changes to the sink DRM driver
that makes flips wait on fences attached to dmabuf backed buffers.
The source driver is responsible for attaching the fences and
signaling them when presentation is finished.

Note that because presentation is requested in response to a
vblank, PRIME sources will now conform to the sink's refresh rate.

At teardown, \texttt{pScrPriv\_rrDisableSharedPixmapFlipping()} will be
called, making its way to \texttt{drmmode\_FiniSharedPixmapFlipping()}.
There, the event handlers for \texttt{prime\_ pixmap} and \texttt{prime\_ pixmap\_ back}
are aborted, freeing the left over parameter structure. Then,
\texttt{prime\_ pixmap} and \texttt{prime\_ pixmap\_ back} are unset as scanout pixmaps.

Register and tear down slave damage per-scanout pixmap instead of
per-crtc.

\textbf{v1: Initial commit}
\textbf{v2: Renamed PresentTrackedFlippingPixmap to PresentSharedPixmap}
\hspace{1em}Renamed flipSeq to flip_seq
Warn if flip failed
Use SharedPixmapNotifyDamage to retry on next vblank after damage
v3: Refactor to accomodate moving (rr)StartFlippingPixmapTracking and
(rr)(Enable/Disable)SharedPixmapFlipping to rrScrPrivRec from ScreenRec
Do damage tracking on both scanout pixmaps
v4: Tweaks to commit message
v5: Revise for internal storage of prime pixmap ptrs
Move disabling for reverse PRIME from source commit to here
Use drmmode_set_target_scanout_pixmap*() to set scanout pixmaps
internally to EnableSharedPixmapFlipping().
Don't support flipping if ms->drmmode.pageflip == FALSE.
Move flipping_active check to this commit
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit 378c85a8848679eaa3c2881f3ba8b686e59df25e
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:51 2016 -0700

typesetting: Always load ms->drmmode.pageflip

ms->drmmode.pageflip was only loaded from options if ms->drmmode.glamor was
defined, otherwise it would always assume FALSE.

PRIME Synchronization requires ms->drmmode.pageflip even if we aren't using
glamor, so load it unconditionally.

v1: N/A
v2: N/A
v3: N/A
v4: N/A
v5: Initial commit
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit b773a9c8126222e5f6ed2904d012bf917a9f22fd
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:50 2016 -0700

typesetting: Always tear down scanout pixmap

drmmode_set_scanout_pixmap_(cpu/gpu) would only do teardown if ppix ==
NULL. This meant that if there were consecutive calls to
SetScanoutPixmap(ppix != NULL) without calls to SetScanoutPixmap(ppix ==
NULL) in between, earlier calls would be leaked. RRReplaceScanoutPixmap()
does this today.

Instead, when setting a scanout pixmap, always do teardown of the existing
scanout pixmap before setting up the new one. Then, if there is no new one
to set up, stop there.

This maintains the previous behavior in all cases except those with
multiple consecutive calls to SetScanoutPixmap(ppix != NULL).

v1: N/A
v2: N/A
v3: N/A
v4: N/A
v5: Initial commit
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit f4c37ceee7953df1fe0e3196eda452acf0078e61
Author: Alex Goins <agoins@nvidia.com>
Date:   Thu Jun 16 20:06:49 2016 -0700

modesetting: Internal storage of scanout pixmaps

modesetting relied on randr_crtc->scanout_pixmap being consistent with
calls to SetScanoutPixmap, which is very fragile and makes a lot of
assumptions about the caller’s behavior.

For example, RRReplaceScanoutPixmap(), when dropping off with !size_fits,
will set randr_crtc->scanout_pixmap = NULL and then call SetScanoutPixmap.
Without this patch, drmmode_set_scanoutPixmap_(cpu/gpu) will think that
there is no scanout pixmap to tear down, because it’s already been set to
NULL.

By keeping track of the scanout pixmap in its internal state, modesetting
can avoid these types of bugs and reduce constraints on calling
conventions.

v1: N/A
v2: N/A
v3: N/A
v4: N/A
v5: Initial commit
randr/xf86: Add PRIME Synchronization / Double Buffer

Changes PRIME to use double buffering and synchronization if all required driver functions are available.

rrcrtc.c:
Changes rrSetupPixmapSharing() to use double buffering and synchronization in the case that all required driver functions are available. Otherwise, falls back to unsynchronized single buffer.

Changes RRCrtcDetachScanoutPixmap() to properly clean up in the case of double buffering.

Moves StopPixmapTracking() from rrDestroySharedPixmap() to RRCrtcDetachScanoutPixmap().

Changes RRReplaceScanoutPixmap() to fail if we are using double buffering, as it would need a second ppix parameter to function with double buffering, and AFAICT no driver I've implemented double buffered source support in uses RRReplaceScanoutPixmap().

randrstr.h:
Adds scanout_pixmap_back to struct _rrCrtc to facilitate PRIME double buffering.

xf86Crtc.h:
Adds current_scanout_back to _xf86Crtc to facilitate detection of changes to it in xf86RandR12CrtcSet().

xf86RandR12.c:
Changes xf86RandR12CrtcSet() to detect changes in scanout_pixmap_back.

Adds scanout_pixmap_back to struct _rrCrtc to facilitate PRIME double buffering.
v3: Refactor to accommodate moving (rr)StartFlippingPixmapTracking and (rr)(Enable/Disable)SharedPixmapFlipping to rrScrPrivRec from ScreenRec
Add fallback if flipping funcs fail
v4: Detach scanout pixmap when destroying scanout_pixmap_back, to avoid dangling pointers in some drivers
v5: Disable RRReplaceScanoutPixmap for double-buffered PRIME, it would need an ABI change with support for 2 pixmaps if it were to be supported, but AFAICT no driver that actually supports double-buffered PRIME uses it.
Refactor to use rrEnableSharedPixmapFlipping() as a substitute for rrCrtcSetScanoutPixmap() in the flipping case.
Remove extraneous pSlaveScrPriv from DetachScanoutPixmap()
Remove extraneous protopix and pScrPriv from rrSetupPixmapSharing()
v6: Rebase onto ToT
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit b601f96a5915a2c486b389483b291797e6f1f617
Author: Alex Goins <agoins@nvidia.com>
Date: Thu Jun 16 20:06:46 2016 -0700

xf86: Add PRIME flipping functions to Screen

Adds typedefs for (*RRStartFlippingPixmapTrackingProcPtr), (*RREnableSharedPixmapFlippingProcPtr), and (*RRDisableSharedPixmapFlippingProcPtr) in randrstr.h.

Adds typedefs for (*PresentSharedPixmapProcPtr), (*SharedPixmapNotifyDamageProcPtr), (*RequestSharedPixmapNotifyDamageProcPtr), and (*StopFlippingPixmapTrackingProcPtr) in scrnintstr.h.

Adds RR(Enable/Disable)SharedPixmapFlipping, and RRStartFlippingPixmapTracking to rrScrPrivRec.

Adds StopFlippingPixmapTracking, PresentSharedPixmap, SharedPixmapNotifyDamage, and RequestSharedPixmapNotifyDamage to ScreenRec.

rrScrPrivRec used for functions that use RandR-private data types, and ScreenRec used for the rest.

RREnableSharedPixmapFlipping will allow the sink driver to setup for flipping between two shared pixmaps.

RRDisableSharedPixmapFlipping will allow the sink driver to do teardown associated with flipping between two shared pixmaps.
(RRStart/Stop)FlippingPixmapTracking are merely the double-buffered equivalents of (Start/Stop)PixmapTracking, allowing the source driver to do whatever setup and teardown necessary for presenting on the two shared pixmaps.

PresentSharedPixmap is a function exposed by the source driver for the X server or sink driver to call to request a present on a given shared pixmap. This way, presents can be driven by the sink's vblank instead of a timer or similar mechanism.

SharedPixmapNotifyDamage and RequestSharedPixmapNotifyDamage are OPTIONAL (even for double-buffered PRIME) functions exposed by the sink driver and the source driver, respectively. By calling master->RequestSharedPixmapNotifyDamage(ppix), the sink driver can request for the source driver to call slave->SharedPixmapNotifyDamage(ppix) in response to damage on the master screen pixmap tracked by ppix.

v1: Initial commit  
v2: Rename PresentTrackedFlippingPixmap to PresentSharedPixmap  
    Add SharedPixmapNotifyDamage / RequestSharedPixmapNotifyDamage  
v3: Add RRCrtePtr as a parameter to StartFlippingPixmapTracking  
    Move functions that use RandR-private data types to rrScrnPrivRec.  
v4: Unchanged  
v5: Add front and back parameters to RREnableSharedPixmapFlippingProcPtr  
v6: Rebase onto ToT  
v7: Unchanged

Reviewed-by: Dave Airlie <airlied@redhat.com>  
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit ef1578e736887aadf209172f48daa9eae25b3db  
Author: Jon Turney <jon.turney@dronecode.org.uk>  
Date:   Sun Feb 28 00:53:24 2016 +0000

hw/xwin: Fix a typo in "Remove Shadow DirectDraw engine"

Commit 7a22912e "Remove Shadow DirectDraw engine" contained a typo, changing the fullscreen && DirectDraw check in WMDISPLAYCHANGE to fullscreen || DirectDraw

This causes disruptive depth changes to be improperly handled

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>  
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0a0c1bd93259c208184d6ad974ba55658191af0c  
Author: Jon Turney <jon.turney@dronecode.org.uk>  
Date:   Fri Feb 26 18:03:04 2016 +0000
hw/xwin: Fix a crash trying to reload window icons when not in multiwindow mode

ReloadEnumWindowsProc() accesses window privates, which are only valid in multiwindow mode, but is called in all modes.

Fix this potential crash by not doing this unless in multiwindow mode.

Reproduction steps:
1/ XWin -mwextwm
2/ Run a client which creates an X window e.g. xterm
3/ Right click on notification area icon, and choose 'Reload .XWinrc' from the menu

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 91ae2571458c50df9f782190d9f80815b770aefac
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 26 16:46:15 2016 +0000

hw/xwin: Fix a crash which occurs if focus returns to XWin after xkbcomp has failed

If WM_FOCUS is received while the "core devices failed" fatal error (due to xkbcomp failing) is displayed, winRestoreModeKeyState() attempts to dereference a NULL InputInfo.keyboard->key pointer.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>

commit 4b123e0f61eb55e59d30bf442499ecf3b3f621c3b
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Aug 4 16:05:05 2015 +0100

hw/xwin: Make window maximizable if a maximum size larger than virtual desktop size is specified

Firefox 38 has a WM_NORMAL_HINTS with a maximum size of 32767x32767.

Don't remove the maximize control from the window frame if the maximum size is bigger than the virtual desktop size, as maximizing the window will not exceed the maximum size.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 504bf495f9b3adea1ba650469223511f81709714
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Wed Jul 8 19:12:22 2015 +0100
hw/xwin: Detect invalid options in combination with -nodecoration

Detect invalid options in combination with -nodecoration

These are particularly problematic as -nodecoration implies a default of -nomultimonitors, for some reason, which will give rendering issues with -multiwindow.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e1b983b55e4cecf976c8f92d608af8216a56927
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Nov 11 11:46:25 2014 +0000

hw/xwin: Default to -noresize when -fullscreen is used

Currently, just using -fullscreen fails in winValidateArgs(), as the default -resize=randr is incompatible with -fullscreen.

Set the default resize mode to -noresize if -fullscreen is used.

Also, rename enum value notAllowed -> resizeNotAllowed for clarity.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 42f7cd5d92f2046e1b5c264b3d76c3afda624a55
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Sat Oct 11 14:49:16 2014 +0100

hw/xwin: Tell LogInit() to backup previous logfile as .old

Future work: Do we really need to call LogInit() in so many different places?

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 197419838273eddbd0bd34890771799f4bebbc07
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Sep 26 13:18:33 2014 +0100

hw/xwin: Downgrade some uninformative, always-emitted log output to debug

Downgrade from error to debug some uninformative, always-emitted log output about thread synchronization during initialization
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 17c8bf348eea4f12ce7cb4ca7db0d0576e28c982
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Apr 28 16:04:40 2015 +0100

hw/xwin: Check for just the hostname in window title

When -hostintitle is enabled, only use the hostname, not a FQDN from
WM_CLIENT_MACHINE, when checking if the window title already contains it

Also restructure GetWindowName() to fix a potential memory leak.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c05c4360eea245b3ef5f3a355b95dcd63244ef70
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Sep 22 14:40:41 2014 +0100

hw/xwin: Use _NET_WM_NAME for window titles in multiwindow mode

Use _NET_WM_NAME in preference to WM_NAME for window title

Update window title when _NET_WM_NAME property changes

We should always have been doing this, but some qt5 examples only set
_NET_WM_NAME, so now it's become more important...

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 866d8299abc4315d4836292aeac4abe0b686fc10
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Thu Mar 13 17:53:44 2014 +0000

hw/xwin: Remove decorations from _NET_WM_WINDOW_TYPE_SPLASH type windows

In multiwindow mode, remove decorations from _NET_WM_WINDOW_TYPE_SPLASH type
windows.

Some programs use _NET_WM_WINDOW_TYPE_SPLASH_SCREEN in error, so also accept
that as equivalent.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
hw/xwin: Use Bool type in winShowWindowOnTaskbar() prototype

Use the Bool type from X11/Xdefs.h for winShowWindowOnTaskbar().

This is the boolean type we should be using inside the X server, rather than BOOL, which evaluates to either the Win32 API type, or the Xlib API type, depending on the context...

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

xwayland-input: Fake crossing to rootwin

This partially reverts commit c1565f3.

When the pointer moves from an X11 window to a Wayland native window, no LeaveNotify event is emitted which can lead to various unexpected behaviors like tooltips remaining visible after the pointer has left the window.

Yet the pointer_handle_leave() is called and so is the DIX CheckMotion() but since the pointer enters a Wayland native window with no other Wayland window matching, DoEnterLeaveEvents() does not get invoked and therefore no LeaveNotify event is sent to the X11 client at the time the pointer leaves the window for a Wayland native surface.

Restore the XYToWindow() handler in xwayland-input that was previously removed with commit c1565f3 and use that handler to pretend that the pointer entered the root window in this case so that the LeaveNotify event is emitted.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96437

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Acked-by: Daniel Stone <daniels@collabora.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 111a045dcf0912dc5b178c18acda479b3972876b
Author: Adam Jackson <ajax@redhat.com>
Revert "XDMCP: For IPv6 add link local addresses to the end of the list"

This reverts commit fdd448cd39b4ca84a28d73fc628911070437b703.

Even if this seems to be the wrong place to fix this it seems to be easier than fixing all display servers.

[ajax: Cleaned up commit message]

Reviewed-by: Adam Jackson <ajax@redhat.com>

res: Account for GLXPixmap references too

GLX_EXT_tetxure_from_pixmap operates on a GLXPixmap, which takes a reference on the backing pixmap; that GLXPixmap might be long-lived, so we should account for it in ResQueryClientPixmapBytes.

Acked-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

res: Fix accounting of redirected window pixmaps for Composite

The previous change removed the special case that matched resources of CompositeClientWindowType and walked back from that to the window pixmap. That was intentional, since that logic was broken anyway. CCWTs don't map 1:1 to references on the backing pixmap; a window redirected
by multiple clients (say, by the server since it's on the synthetic
visual, and then manually by a compositor) would have a window pixmap
refcount of 1, but would have those bytes accounted twice.

The right thing is to have Composite wrap window accounting, and add the
Pixmap bytes once and only once for the redirection reference.

Note that the view from the client can still be non-intuitive in the
face of Composite. xcompmgr, for example, holds _two_ references to
each window pixmap (one each from CompositeNameWindowPixmap and
RenderCreatePicture), so a synthetic-visual window will have its bytes
split 2/3 to xcompmgr and 1/3 to the server-client. Nothing to be done
about that, and at least this way we're not over-accounting.

Acked-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4f8a72034c4a2654bfc16d929e09a69d1cc138ef
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 2 13:46:42 2016 -0500

res: Simplify QueryClientPixmapBytes

I suspect this code predates the common resource hooks for computing
sizes. It's ugly in any case since the Resource extension shouldn't
need to know which extensions can take a reference on pixmaps. Instead,
let's just walk every resource for the client and sum up all the pixmap
bytes that way.

This might be slightly slower since we're calling the size func once for
every resource. On the other hand, it might be slightly faster since we
only walk the resource table once instead of 3-5 times. Probably a
wash, and not really a performance path in any case.

Acked-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 263c5333a54107efac702a54d7e6329ae25ff4e0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Dec 25 18:32:46 2015 +0900

xfree86/modes: Simplify in_range logic in xf86_crtc_set_cursor_position

Consolidate to a single if/else statement and eliminate the redundant
local variable in_range and assignments to x/y.

Reviewed-by: Adam Jackson <ajax@redhat.com>
xfree86/modes: Disambiguate driverIsPerformingTransform

The driver can now specify exactly which aspects of the transform it wants to handle via XF86DriverTransform* flags.

Since the driver can now choose whether it wants to receive transformed or untransformed cursor coordinates, xf86CrtcTransformCursorPos no longer needs to be available to drivers, so make it static.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit aad96f85005f8eab27df62049d619092865a9b16
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Dec 25 18:28:47 2015 +0900

xfree86/modes: Fix HW cursor clipping for driverIsPerformingTransform (v2)

Even if the driver is handling the transform, we still need to transform the cursor position for clipping, otherwise we may hide the HW cursor when the cursor is actually inside the area covered by the CRTC.

v2: Use crtc_x/y local variables for clarity

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 828887b664a997b64fda565a88b6fe9afcd191
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jun 14 13:45:27 2016 -0700

ephyr: Process only the last expose or configure available from the server

Delay expose or configure processing until the event queue is empty so that we don't end up processing a long series of events one at a time. Expose events already have a check waiting for the last in a series, this further improves that by discarding multiple series of events.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c17a41794507d6d04c850e9e1bc04fc60c31de18
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jun 4 19:55:07 2016 -0700
ephyr: Process queued X events before blocking [v2]

If we end up reading all pending X events in the course of other server execution, then our notify FD callback won't get invoked and we won't process them. Fix this by noting that there are queued events in the block handler, setting the poll timeout to zero and queuing a work proc to clear the event queue.

v2: use a work proc to clear the event queue rather than doing it in the block handler directly.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f3248eba6e2d0c099025f8e9a4874b431246eac7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 14 13:19:49 2016 -0700

ephyr: Handle window resize when using glamor

Under glamor, we need to re-create the screen pixmap at the new size so that we can ask glamor for the associated texture. Fortunately, we can simply use ephyr_glamor_create_screen_resources to create the new pixmap.

Because this is being done after the server has started, we need to walk the window heirarchy and reset any windows pointing at the old pixmap. I could easily be convinced that this TraverseTree should be moved to miSetScreenPixmap.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 235d21670dcff224807ff719c7fa86212058ec46
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 14 13:16:03 2016 -0700

ephyr: Don't configure window while responding to configure events

This leads to and endless sequence of window resizes.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fb1edccf3c90c626f120b3e399657f24d3f7901e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 26 12:11:46 2016 -0700
The screen block and wakeup handlers are the only ones which provide a well known ordering between the wrapping layers; placing these as close as possible to the server blocking provides a way for the driver to control the flow of execution correctly.

Switch the shadow code to run in the screen block handler so that it now occurs just before the server goes to sleep.

Switch glamor to call down to the driver after it has executed its own block handler piece, in case the driver needs to perform additional flushing work after glamor has called glFlush.

These changes ensure that the following modules update the screen in the correct order:

- animated cursors        (uses RegisterBlockAndWakeupHandlers dynamically)
- composite               (dynamic wrapping)
- misprite                (dynamic wrapping)
- shadow                  (static wrapping)
- glamor                  (static wrapping)
- driver                  (static wrapping)

It looks like there's still a bit of confusion between composite and misprite; if composite updates after misprite, then it's possible you'd exit the block handler chain with the cursor left hidden. To fix that, misprite should be wrapping during ScreenInit time and not unwrapping. And composite might as well join in that fun, just to make things consistent.

[v2] Unwrap BlockHandler in shadowCloseScreen (ajax)
[v3] ephyr: Use screen block handler for flushing changes

ephyr needs to make sure it calls glXSwapBuffers after glamor finishes its rendering. As the screen block handler is now called last, we have to use that instead of a registered block/wakeup handler to make sure the GL rendering is done before we copy it to the front buffer.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a134d1e7eada0ac90fb622f45833c87b72c9aa06
Author: Guilherme Quentel Melo <gqmelo@gmail.com>
Date:   Tue May 10 00:29:58 2016 +0000

glx: avoid memory leak when using indirect rendering
When multiple processes are using GL with indirect rendering a race condition can make drawables refcount never drop to zero.

This situation could happen when there are many X clients using indirect GLX:

1 - client1: calls glxMakeCurrent

2 - client2: calls glxMakeCurrent
   This is the first context switch for this client. So old_context_tag=0

3 - client1: calls glxRender
   For the client, its context is already current.
   For the server side lastGLContext points to client2's context.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Guilherme Quentel Melo <gqmelo@gmail.com>

commit 266cf39a8f108e2f365a9772f4ee4d9fca88eb36
Merge: fa7b70a9b8 848089e0dd
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 20 11:21:40 2016 -0400

   Merge remote-tracking branch 'hans/for-master'

commit fa7b70a9b895789ec57562bbba0bc052fc91d134
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jun 14 17:36:16 2016 -0700

   kdrive: Only enable threaded input if we have input devices

   When there aren't any devices, the input thread is going to be pretty lonely, so don't bother to even start it.

   Signed-off-by: Keith Packard <keithp@keithp.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f2a5b8cddf7b1e913a1e0581e65195dd10f04ca3
Author: Jason Gerecke <killertofu@gmail.com>
Date: Fri Jun 17 08:44:41 2016 -0700

   xwayland: Expose all NBUTTONS buttons on the pointer

   The call to 'InitButtonClassDeviceStruct' which initializes the pointer buttons only results in the first three buttons being created due to a hardcoded '3'. In order to expose all the buttons defined in the btn_labels array, we substitute 'NBUTTONS' in its place.
xwayland: Use correct labels when initializing pointer valuators

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dab5b3922c50f73712a8ea0cb9742c4bc7d7ab1d
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Fri Jun 17 08:44:39 2016 -0700

xwayland: Fix whitespace errors

Substitute a few errant tab characters with eight spaces to conform to the prevailing style.

Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 848089e0d0de4309532785520946103e77c1
Author: Lyude Paul <cpaul@redhat.com>
Date:   Mon Jun 13 15:31:02 2016 -0400

modesetting: Clear drmmode->fb_id before unflipping

[fix copied from 40191d82370e in xf86-video-ati]

Without this, we end up setting rotated CRTC s back to their previous framebuffer right after we perform a rotation. Reproducer:

- Have two monitors connected at the same resolution
- Rotate one monitor from normal straight to inverted
- Watch as the monitor you didn't rotate either freezes or shows intense flickering

Signed-off-by: Lyude <cpaul@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
modesetting: Only add main fb if necessary

If we’re doing reverse-prime; or doing rotation the main fb is not used, and there is no reason to add it in this case.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

modesetting: Remove unnecessary fb addition from drmmod_xf86crtc_resize

drmmod_set_mode_major() is the only user of drmmod->fb_id and will create it if necessary.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

modesetting: Set ppix->fb_id to 0 after removing the fb

This ensures the fb gets re-added when a shared pixmap is re-used for a second drmmod_set_scanout_pixmap_cpu call.

Note currently the xserver never re-uses a shared pixmap in this way, so this is mostly a sanity fix.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

modesetting: Properly cleanup fb for reverse-prime-offload

drmmod_set_scanout_pixmap_gpu(pix) adds drmmod->fb_id through a call to drmmod_xf86crtc_resize(), but on a subsequent drmmod_set_scanout_pixmap_gpu(NULL) it would not remove the fb.
This keeps the crtc marked as busy, which causes the dgpu to not being able to runtime suspend, after an output attached to the dgpu has been used once. Which causes burning through an additional 10W of power and the laptop to run quite hot.

This commit adds the missing remove fb call, allowing the dgpu to runtime suspend after an external monitor has been plugged into the laptop.

Note this also makes drmmode_set_scanout_pixmap_gpu(NULL) match the behavior of drmmode_set_scanout_pixmap_cpu(NULL) which was already removing the fb.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 15595d29c2c3992f260a3314f26fa691f1e5cece8
Author: Nikhil Mahale <nmahale@nvidia.com>
Date:   Thu May 26 21:50:16 2016 +0530

randr: Adjust master's last set time with slaves

In prime configurations master's last set time may not be latest and greatest, adjust it with slaves last set time, pick up greatest one. Otherwise xserver may end with events which has lastSetTime < lastConfigTime even if that’s not the case and confuse xrandr client.

[hdegoede: rebase on "xrandrprovider: Do not use separate lists for unbound / source / offload slaves"]
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 5c7af02b103790ac1fb6a71822788892c70290b6
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Fri May 13 15:58:10 2016 +0200

xrandrprovider: Do not use separate lists for unbound / source / offload slaves

A single provider can be both a offload and source slave at the same time, the use of separate lists breaks in this case e.g. :

xrandr --listproviders
Providers: number : 2
Provider 0: id: 0x7b cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 3 outputs: 2 associated providers: 0 name:modesetting
Provider 1: id: 0x46 cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 2 outputs: 5 associated providers: 0 name:modesetting
xrandr --setprovidersourceoutput 0x7b
xrandr --listproviders
Providers: number : 2
Provider 0: id: 0x7b cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 3 outputs: 2
associated providers: 1 name:modesetting
Provider 1: id: 0x46 cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 2 outputs: 5
associated providers: 1 name:modesetting

xrandr --setprovideroffloadsink 0x7b
xrandr --listproviders
Providers: number : 3
Provider 0: id: 0x7b cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 3 outputs: 2
associated providers: 2 name:modesetting
Provider 1: id: 0x46 cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 2 outputs: 5
associated providers: 2 name:modesetting
Provider 2: id: 0x46 cap: 0xf, Source Output, Sink Output, Source Offload, Sink Offload crtc: 2 outputs: 5
associated providers: 2 name:modesetting

Not good. The problem is that the provider with id 0x46 now is on both
the output_slave_list and the offload_slave_list of the master screen.

This commit fixes this by unifying all 3 lists into a single slaves list.

Note that this does change the struct _Screen definition, so this is an ABI
break. I do not expect any of the drivers to actually use the removed / changed
fields so a recompile should suffice.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit bab0f450a719a11799491043b82c2f293fed27fe
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sat Feb 14 09:58:44 2015 +0000

present: Fix presentation of flips out of order

The flip queue currently only holds events submitted to the driver for
flipping, awaiting the completion notifier. It is short. We therefore
can speed up interrupt processing by keeping the small number of events
ready to be flipped on the end of the flip queue. By appending the
events to the flip_queue in the order that they become ready, we also
resolve one issue causing Present to display frames out of order.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-and-tested-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
commit fbe660b7652b945bddd8e3eb0780179d83cc7de96
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Sat Feb 14 09:58:43 2015 +0000

   present: Improve scaling of vblank handler

   With large numbers of queued vblank, the list iteration on every
   interrupt dominates processing time. If we reorder the list to be in
   ascending event order, then not only is also likely to be in order for
   notification queries (i.e. the notification will be near the start of
   the list), we can also stop iterating when past the target event_id.

   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
   Reviewed-and-tested-by: Mario Kleiner <mario.kleiner.de@gmail.com>
   Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit c6511d0142040654140bddd6f03d43af0abba21
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Wed Oct 2 15:47:54 2013 +0200

   exa: only draw valid trapezoids

   Fixes freedesktop.org bug https://bugs.freedesktop.org/show_bug.cgi?id=67484

   If t->bottom is close to MIN_INT, removing top can wraparound, so do the check properly.
   A similar fix should also be applied to pixman.

   Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
   Reviewed-by: Hans de Goede <hdegoede@redhat.com>
   Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 2d6230e77348e550c90e00c007b113ce38c81d12
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jun 14 17:09:07 2016 -0700

   glamor: Use DestroyPixmap instead of FreePicture for glyph atlas pixmap

   Nice of FreePicture to take a void * instead of a PicturPtr so that
   this error wasn't caught by the compiler.

   Noticed when resetting the X server left a dangling pixmap around.

   Signed-off-by: Keith Packard <keithp@keithp.com>
   Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit edd24aa50b17849b904a3ac5429e333bac9bac9c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Mon Jun 6 09:22:28 2016 +0200
wayland: clear resource for pixmap on unrealize

On cursor unrealize, the associated pixmap is destroyed, make sure we clear the pointer from the private resource and check for the value being non-null when setting or destroying the cursor.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96246

commit 941aeb3b92e644923bd112eef8023f033a140ee6
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri May 13 08:58:58 2016 +0200

randr: Do not update ConnectionInfo if NULL

RRScreenSizeNotify() will update the connection information block, but if this occurs during initialization before ConnectionInfo is even initialized, this will lead to a crash.

Simply check for ConnectionInfo prior to update it to avoid the crash.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=95337
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 6a6bbc3b756706dbade01434f1ee8d8ebe7dd854
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu May 12 14:51:51 2016 +0200

xwayland: Restore wl_display_roundtrip() in InitInput

This partially revert commit 984be78

The rountrip in Xwayland's InitInput() is unlikely the culprit for the crash reported in bug 95337, even though it's triggered from InitInput().

Startup goes like this:

xwl_screen_init()
xwl_output_create()
wL_display_roundtrip()
InitInput()
wL_display_roundtrip()
ConnectionInfo initialized
What happens in bug 95337 is that some output data is already available when we reach InitInput()'s wl_display_roundtrip() and therefore we end up trying to update the ConnectionInfo's data from RR routines before ConnectionInfo is actually initialized.

Removing the wl_display_roundtrip() from InitInput() will not fix the issue (although it would make it less likely to happen), because xwl_screen_init() also does a wl_display_roundtrip() after creating the output, so the race that led to bug 95337 remains.

However, re-setting the xwl_screen->expecting_event to 0 again in InitInput() still doesn't seem right, so this part is not restored (thus a partial revert).

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=95337

commit 6cb34816afa95d9214199ec363f9b4bb5ecbcae77b
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 29 14:22:52 2016 -0400

xace: Remove the audit hooks and tune dispatch

There are no in-tree consumers of the audit hooks, and they are in any case redundant with the dtrace dispatch hooks. Neither is there any in-tree user of the core request dispatch hook. The extension hook is only used for non-default security cases, but in the absence of LTO we always have to take the function call into XaceHookDispatch to find out that there's no callback registered.

Cc: Eamon Walsh <ewalsh@tycho.nsa.gov>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit da9fec4edd554b4b709ba58b4436aef5a76cd51
Author: Eric Biggers <ebiggers3@gmail.com>
Date: Thu Jun 9 19:45:15 2016 -0500

Allow ConstantDeceleration < 1.0

As documented in xorg.conf(5), a value of ConstantDeceleration between 0 and 1 will speed up the pointer. However, values less than 1 actually had no effect. Fix this.

Note that this bug only affected "ConstantDeceleration" as configured through xorg.conf, not "Device Accel Constant Deceleration" as configured through xinput. The property handler AccelSetDecelProperty() also did...
not need to be changed, as it did not limit the values of the property.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=92766

Signed-off-by: Eric Biggers <ebiggers3@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7cf80b9714864c3c4eb9898ff1b7d657ecd1f6d7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jun 1 14:27:23 2016 -0400

xfree86: Don't swallow ±iglx command line flag

We want to notice that it's set, but still pass it through to dix.
Return 0 to indicate this.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4653793de3860f2d83a39919af348527bc719794
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Jun 8 17:10:11 2016 +0200

wayland: Remove unused field in xwl_screen

Can't find any reference of pointer_limbo_window in the code, let's
remove it.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit c69bd15e00aea2610834d05f63777f9bf20eca34
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 1 14:38:54 2016 +1000

Allow compile-time selection of a fallback input driver

A new --with-fallback-input-driver=foo option allows selecting a
fallback driver for the server if the driver configured for the device
is not found. Note that this only applies when the device has a driver
assigned and that module fails to load, devices without a driver are
ignored as usual.

This avoids the situation where a configuration assigns e.g. the
synaptics driver but that driver is not available on the system,
resulting in a dead device. A fallback driver can at least provides some
functionality.
This becomes more important as we move towards making other driver true leaf nodes that can be installed/uninstalled as requested. Specifically, wacom and synaptics, a config that assigns either driver should be viable even when the driver itself is not (yet) installed on the system.

It is up to the distributions to make sure that the fallback driver is always installed. The fallback driver can be disabled with --without-fallback-input-driver and is disabled by default on non-Linux systems because we don't have generic drivers on those platforms. Default driver on Linux is libinput, evdev is the only other serious candidate here.

Sample log output:

```
[  3274.421] (II) config/udev: Adding input device SynPS/2 Synaptics TouchPad (/dev/input/event4)
[  3274.421] (**) SynPS/2 Synaptics TouchPad: Applying InputClass "touchpad weird driver"
[  3274.421] (II) LoadModule: "banana"
[  3274.422] (WW) Warning, couldn't open module banana
[  3274.422] (II) UnloadModule: "banana"
[  3274.422] (II) Unloading banana
[  3274.422] (EE) Failed to load module "banana" (module does not exist, 0)
[  3274.422] (EE) No input driver matching `banana'
[  3274.422] (II) Falling back to input driver `libinput'
```

.. server proceeds to assign libinput, init the device, world peace and rainbows everywhere, truly what a sight. Shame about the banana though.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a6b6e8ba026acede6336b17affe06aebdd5f22f
Author: Dave Airlie <airlied@gmail.com>
Date: Fri May 6 10:46:14 2016 +1000

prime: clean up slave bo properly. (v3)

This is an ABI break, in that we now pass NULL to a function that hasn't accepted it before.

Alex Goins had a different patch for this but it wasn't symmetrical, it freed something in a very different place than it allocated it, this attempts to retain symmetry in the releasing of the backing bo.

v2: use a new toplevel API, though it still passes NULL to something that wasn't expecting it.
v3: pass -1 instead of 0.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Hans de Goede <hdegoede@redhat.com>
xfree86: Remove redundant parse of AIGLX server flag

Not visible in the patch, but the same stanza is repeated below inside the #ifdef GLXEXT. There's no reason to bother with checking it if we built without GLXEXT so remove the unconditional one.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glamor: Call eglBindAPI after eglInitialize

Current Mesa Git master checks that the EGL display actually supports the API passed to eglBindAPI, which can only succeed after eglInitialize.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=96344
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
xfree86: Undocument UseSIGIO in xorg.conf

The doc text is wrong at this point, input processing isn't going to vary based on this, so we shouldn't say it does. The only thing this _does_ get used for is DRI1 SwapBuffers (on everything but savage), and if you disable it you're not going to get DRI1 at all, so we really shouldn't even mention it.

Still, leave the option wired up to the parser so we don't break any DRI1-driver-using setup relying on it being disabled, and so we don't complain about unused options elsewhere.

dri1: Hide the SIGIO details from drivers

Not being used, and not likely to be useful.

dmx: Remove SIGIO input support here too

This code was broken anyway. Note that DEVICE_OFF would make dmx think _no_ devices were using SIGIO anymore, which means 'xinput disable' on your mouse would probably do weird things to your keyboard too. Rather than try to repair that and keep SIGIO working on this one niche DDX, just rip it out and use the thread model like everyone else.
commit 6178b1c91cfc9e860914acc6f0be2f2d2e07a124
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 7 15:52:11 2016 -0400

dix: Use OsSignal() not signal()

As the man page for the latter states:

   The effects of signal() in a multithreaded process are unspecified.

We already have an interface to call sigaction() instead, use it.

   Signed-off-by: Adam Jackson <ajax@redhat.com>
   Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8174daa6bd3f0c792425a5ebef63a6a9ce7d00a4
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jun 5 12:32:19 2016 -0700

os: Do timers under input lock, not blocked signals

   Timer processing can happen on either the main thread or the input
   thread. As a result, it must be done under the input lock.

   Signals are unrelated to timers now that SIGIO isn't used for input
   processing, so stop blocking signals while processing timers.

   Signed-off-by: Keith Packard <keithp@keithp.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 88e981e7088198fabea6c322c58f371d91578b6a
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Mar 9 10:33:50 2016 +0100

xwayland: sync event queue to check compositor reply

   Read and dispatch pending Wayland events to make sure we do not miss a
   possible reply from the compositor prior to discard a key repeat.

   Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 26ad25a0ed1d99f3cacb711793c830cb5249580e
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Mar 9 11:17:27 2016 +0100

xwayland: refactor Wayland event handling
To be able to reuse some code.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 239705a6feefaddf90be9541a054ebd8c8e10d81
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Mar 9 10:31:58 2016 +0100

xwayland: add a server sync before repeating keys

Key repeat is handled by the X server, but input events need to be processed and forwarded by the Wayland compositor first.

Make sure the Wayland compositor is actually processing events, to avoid repeating keys in Xwayland while the Wayland compositor cannot deal with input events for whatever reason, thus not dispatching key release events, leading to repeated keys while the user has already released the key.

Bugzilla: https://bugzilla.gnome.org/show_bug.cgi?id=762618
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fd5675f9d257d583ea0683ad863c5e1e51e30c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Mar 9 10:31:13 2016 +0100

xkb: add hook to allow/deny AccessX key repeat

The xserver generates the key repeat by itself.

But when used with another server processing inputs first (e.g. a Wayland compositor), the other server may be busy dealing with some other things and not queue up key release events in time.

Add a vfunc in XkbSrvInfo to possibly add a check before re-emitting a keypress event in the AccessX timer handler, so that the key repeat has a chance to be denied if the server processing the input is not ready.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3735ab965a4642273d070840bda4e827991e5219
Merge: 7c77c42fe8 43dbc556f3
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 2 07:47:16 2016 -0700
dix: Don't update current time in the middle of input event processing

In patch 137ac094e7ab8c871f3b36e40ad826ac797f0e26, Adam moved an expensive call to UpdateCurrentTime out of the main dispatch loop. That's a good change as the original fix from Chase was a bit expensive. However, it breaks grab processing and so a couple of the calls to UpdateCurrentTime need to be removed.

Input event processing can generate a stream of events; a button press that activates a grab will send a press followed by a sequence of enter/leave events. All of these should have the same time stamp on the wire as they occur at the 'same' time.

More importantly, the grab time recorded in the device is pulled from currentTime after all of the events are delivered, so if currentTime doesn't match the time in the device event, then future grab modifications will fail as the time marked in the device will be 'later' than the grab time known to the client (which is defined as the timestamp from the activating input event).

A bit of history here -- it used to be that currentTime was driven *entirely* by input events; those timestamps didn't even have to be related to the system time in any way. Then we started doing ICCCM stuff and people got confused when PropertyNotify events would have the same timestamp even when delivered minutes apart because no input events were delivered.

We added code in the server to go update the time, but only if no input events were pending (so that the clock "wouldn't" go backwards). The only places where this is necessary is in request processing which may generate an event with a timestamp, and there only at the very top of the request processing code so that the whole request would be processed at the 'same time', just like events.

cc: Chase Douglas <chase.douglas@canonical.com>
cc: Peter Hutterer <peter.hutterer@who-t.net>
cc: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Michel Dänzer <michel.daenzer@amd.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
os: Initialize NotifyFds earlier in startup

If the server calls AbortServer during the first-time initialization (which can happen if you start the server on an already using DISPLAY), then the dbus code will shut down and call the notify fd interface. If the notify fd list hasn't been initialized, the server will crash.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

os: Lock input while messing with input device list

The list of input devices may be changed by hotplugging while the server is active, and those changes may come from either the main thread or the input thread. That means the list of input devices needs to be protected by a mutex.

This prevents input drivers from receiving I/O ready callbacks after removing a device.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xwayland: Use the CLOCK_MONOTONIC clock

By default the X server will try CLOCK_MONOTONIC_COARSE before CLOCK_MONOTONIC, while A Wayland compositor may only support getting their timestamps from the CLOCK_MONOTONIC clock. This causes various issues since it may happen that a timestamp from CLOCK_MONOTONIC retrieved before a sending an X request will still be "later" than the timestamp the X server than gets after receiving the request, due to the fact that CLOCK_MONOTONIC_COARSE has a lower resolution.

To avoid these issues, make Xwayland always use CLOCK_MONOTONIC, so that it becomes possible for Wayland compositor only supporting
CLOCK_MONOTONIC and X server to use the same clock.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Acked-by: Daniel Stone <daniels@collabora.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 43dbc556f3a4d743b9121d6cf21961be4a9da56
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Dec 24 16:43:44 2015 +0900

xfree86/modes: Remove xf86_reload.Cursors v2

No longer needed now that xf86CursorResetCursor is getting called for each CRTConfiguration change.

v2: Keep xf86_reload.Cursors as a deprecated empty inline function until all drivers stop calling it. (Adam Jackson)

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e156c0ccb530897d3a428255bd5585f7ea7b9b41
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Mar 30 18:23:04 2016 +0900

os: Use strtok instead of xstrtokenize in ComputeLocalClient

Fixes leaking the memory pointed to by the members of the array returned by xstrtokenize.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5ff75da317539e87cca429185d710d0eeb9d9222
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu May 26 19:01:59 2016 +0900

glamor: Cannot use copies when accessing outside of composite source

Commit b64108fa ("glamor: Check for composite operations which are equivalent to copies") failed to copy conditions from exaComposite which ensure that the composite operation doesn't access outside of the source picture.

This fixes rendercheck regressions from the commit above.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 84e0d5d63c393fc36e91433cd7897e776e82528c
xfree86/modes: Assign xf86_config->cursor in xf86_load_cursor_image v2

Fixes a crash on startup in the radeon driver's drmmode_show_cursor()
due to xf86_config->cursor == NULL, because no CRTC was enabled yet, so
xf86_crtc_load_cursor_image was never called.

(Also use scrn->pScreen instead of xf86ScrnToScreen(scrn))

v2: Set xf86_config->cursor at the beginning of xf86_load_cursor_image
instead of at the end.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 28b2c880a99dfd91e82397a0f22482d258a8b670
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 19:11:50 2016 -0700

xfree86: Provide xf86BlockSIGIO and xf86ReleaseSIGIO as wrappers for input mutex

Threaded input doesn't use SIGIO anymore, but existing drivers using
xf86BlockSIGIO and xf86ReleaseSIGIO probably want to lock the input
mutex during those operations. Provide inline functions to do this
which are marked as 'deprecated' so that drivers will get warnings
until they are changed.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2bed654be7001407ae65f7128440340fd3c1f083
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 19:05:13 2016 -0700

dix: Remove bogus input_mutex and input_mutex_count definitions from globals.c

These are local to inputthread.c; the ones in globals.c aren't
declared in any header file.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 06bdc3bc1aca2635d0f711ac7eef34796e28339
Author: Keith Packard <keithp@keithp.com>
Date: Sun May 29 01:14:59 2016 -0700

os: fix input_mutex_count off-by-one in input_force_unlock
input_force_unlock was mis-using input_mutex_lock and leaving it set to -1. As this is executed from OsInit at each server generation, on the second time through, the mutex would be left locked (!) due to the trylock call. This caused input to fail after the first server reset.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de3620065945f199a203af831cac99bb8bf75b
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 27 17:51:01 2016 -0700

xfree86: Remove event reading code from xf86Wakeup

Oops. This didn't get removed when xfree86 was converted over to use the input thread.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c9703007ea77a8aa5aba4e7bc7367814526056fe
Author: Keith Packard <keithp@keithp.com>
Date:   Sat May 28 10:34:07 2016 -0700

Add ax_pthread.m4 to m4/

Threaded input requires AX_PTHREAD, which is provided by this file.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c07b796b47ae7f5a616d5e8e02ab0f84dc438a93
Author: Keith Packard <keithp@keithp.com>
Date:   Sun May 29 18:38:18 2016 -0700

xfree86: Bump ABI versions

threaded input can affect drivers that use OsBlockSIGIO when dealing with cursors.

Signed-off-by: Keith Packard <keithp@keithp.com>
Requested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 24e4c6db25afef7a057f3f84f1e2ce67e66fa40e
Author: Keith Packard <keithp@keithp.com>
Date:   Sun May 29 18:43:00 2016 -0700
test: Actually verify that two equivalent touch points are the same

I typo'd when fixing this at Peter's request and left off the '2' from the second variable name.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1338bfa81c6eddc66f07c15225c3eff062182ce
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 27 01:56:39 2016 -0700

test: Make touch test reflect new ability to realloc touch array [v2]

Threaded input allows the input code to call malloc while processing events. In this case, that's in the middle of processing touch events and needing to resize the touch buffer.

This test was expecting the old behaviour where touch points would get dropped if the buffer was full. The fix is to check for the new behaviour instead.

[v2]

* make sure two finding two equivalent touches return the same touch object

* check to make sure the queue resizes by the expected amount

Changes provided by Peter Hutterer <peter.hutterer@who-t.net>

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b9b4387e8473810f6174519ee76818fcaae725d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 27 10:55:02 2016 -0700

glamor: Adjust for drawable x/y in composite's copy optimization

Patch b64108fa305e956e4edaae9d53071ff0abec268e added a short cut that identifies composite operations that can be performed with a simple copy instead.

glamor_copy works in absolute coordinates, so the dx and dy values passed in need to be converted from drawable-relative to absolute by adding the drawable x/y values.

Signed-off-by: Keith Packard <keithp@keithp.com>
commit f84703b50cc908a127f4ad923ebb56f8f244c0d
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 8 14:20:21 2015 -0800

dix: Reallocate touchpoint buffer at input event time [v2]

Now that input is threaded, malloc can be used at event time to resize
the touchpoint buffer as needed.

v2: Remove "Need to grow the queue means dropping events."
    from comment as it no longer applies. (Peter Hutterer)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e2df803fcaebd7c2d2fc799fe794856378deb5489
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 8 19:53:36 2015 -0800

mi: Grow event queue while reading events

Now that events are read at normal process time, we can use malloc to
grow the event queue instead of discarding events.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 30ac7567980a1eb79d084a63e0e74e1d9a3af673
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 8 11:37:51 2015 -0800

Create a threaded mechanism for input [v7]

The current SIGIO signal handler method, used at generation of input events,
has a bunch of oddities. This patch introduces an alternative way using a
thread, which is used to select() all input device file descriptors.

A mutex was used to control the access to input structures by the main and input
threads. Two pipes to emit alert events (such hotplug ones) and guarantee the
proper communication between them was also used.

Co-authored-by: Fernando Carrijo <fcarrijo@freedesktop.org>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

v2: Fix non-Xorg link. Enable where supported by default.

This also splits out the actual enabling of input threads to
DDX-specific patches which follow
v3: Make the input lock recursive

v4: Use regular RECURSIVE_MUTEXes instead of rolling our own
    Respect the --disable-input-thread configuration option by
    providing stubs that expose the same API/ABI.

    Respond to style comments from Peter Hutterer.

v5: use __func__ in inputthread debug and error mesages.

    Respond to style comments from Peter Hutterer.

v6: use AX_PTHREAD instead of inlining pthread tests.

    Suggested by Emil Velikov <emil.l.velikov@gmail.com>

v7: Use pthread_sigmask instead of sigprocmask when using threads

    Suggested by Adam Jackson <ajax@redhat.com>

    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 728c9570a05f03bd90343ff6f5b1a8fd3988864c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 9 14:27:05 2015 -0800

    xkb: Hold input lock across injected key event processing

    This makes the code more consistent with other versions of
    out-of-queue event processing

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 05d549d60440126105d5a70272e72ea2319724bd
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 17 22:21:46 2015 -0800

    xf86: Remove unnecessary errno save/restore in xf86ReadInput

    When this code was called from SIGIO, saving and restoring errno could
    possibly have made sense in some strange environment. Now that this
    will not be called from a signal handler, there is no reason to do that.

    Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0bb5aaabf794720fa99ae5ea3f55138ded159705
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 16 21:33:41 2016 -0500

kdrive: Don't lock input across read in KdNotifyFd

We won't need these locks with the new threaded input code as it holds the input lock across all of the input device I/O operations.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a5a4e60373c1386b311b2a8bb666c32d68a9d99
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 8 14:39:46 2015 -0800

Remove SIGIO support for input [v5]

This removes all of the SIGIO handling support used for input throughout the X server, preparing the way for using threads for input handling instead.

Places calling OsBlockSIGIO and OsReleaseSIGIO are marked with calls to stub functions input_lock/input_unlock so that we don't lose this information.

xfree86 SIGIO support is reworked to use internal versions of OsBlockSIGIO and OsReleaseSIGIO.

v2: Don't change locking order (Peter Hutterer)
v3: Comment weird && FALSE in xf86Helper.c
    Leave errno save/restore in xf86ReadInput
    Squash with stub adding patch (Peter Hutterer)
v4: Leave UseSIGIO config parameter so that existing config files don't break (Peter Hutterer)
v5: Split a couple of independent patch bits out of kinput.c (Peter Hutterer)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8cf832e288dec13cbf3c25478a8cccf52d61f3db
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 16 21:28:48 2016 -0500

kdrive: Remove unneeded AddEnabledDevice/RemoveEnabledDevice calls
kdrive uses the NotifyFd interface, which handles all of the necessary fd configuration in the OS layer. Having it also use the old EnableDevice interfaces is incorrect.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fca18dc03669bada75175df289fbee41275208e
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 9 13:28:08 2016 -0400

xfree86: Add IndirectGLX server flag (v2)

Not all display managers make it easy (or possible) to modify the command line flags passed to the server, so add a way to get to it from xorg.conf.

v2: Fix the FlagOptions list to not have IGLX after the terminator (Alan Coopersmith)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 181a4bd0cc436f89582408196038ff37032f9bac
Author: Keith Packard <keithp@keithp.com>
Date: Fri May 13 16:19:38 2016 -0700

glamor: Preserve GL_RED bits in R channel when destination is GL_RED [v2]

A1 and A8 pixmaps are usually stored in the Red channel to conform with more recent GL versions. When using these pixmaps as mask values, that works great. When using these pixmaps as source values, then the value we want depends on what the destination looks like.

For RGBA or RGB destinations, then we want to use the Red channel for A values and leave RGB all set to zero.

For A destinations, then we want to leave the R values in the Red channel so that they end up in the Red channel of the output.

This patch adds a helper function, glamor_bind_texture, which performs the glBindTexture call along with setting the swizzle parameter correctly for the Red channel. The swizzle parameter for the Alpha channel doesn't depend on the destination as it's safe to leave it always swizzled from the Red channel.

This fixes incorrect rendering in firefox for this page:
v2: Add change accidentally left in patch for missing
glDisable(GL_COLOR_LOGIC_OP).
Found by Emil Velikov <emil.l.velikov@gmail.com>

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=63397
Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit b07bc700b3cf2f5c8912fe5b9e0dad2ba395525
Author: Keith Packard <keithp@keithp.com>
Date:   Sat May 14 08:22:17 2016 -0700

glamor: glamor_make_current sooner in glamor_composite_with_shader

glamor_make_current is supposed to be called before any GL APIs.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 743b6f231e999d8b2909228412266dc13cc433c5
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 13 04:25:43 2016 -0700

  glamor: Disable logic ops when doing compositing [v4]

  If the logic op gets left enabled, it overrides the blending
  operation, causing incorrect contents on the display.

  v2: Disable only on non-ES2, but disable even for PictOpSrc

  v3: Found another place this is needed in
      glamor_composite_set_shader_blend

  v4: Remove change dependent on new glamor_set_composite_texture
      API. This belongs in a different patch.
      Found by Emil Velikov <emil.l.velikov@gmail.com>

      Signed-off-by: Keith Packard <keithp@keithp.com>
      Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit f5670b4a7eb3b43fa20017f89192394930ea6f4
Author: Keith Packard <keithp@keithp.com>
Date: Wed Mar 9 11:13:14 2016 -0800

xfree86: Set xf86CrtcConfigRec cursor pointer to NULL in HideCursor

This makes the cursor pointer held by xf86Cursors.c get reset to NULL whenever the cursor isn't displayed, and means that the reference count held in xf86Cursor.c is sufficient to cover the reference in xf86Cursors.c.

As HideCursor may be called in the cursor loading path after UseHWCursor or UseHWCursorARGB when HARDWARE_CURSOR_UPDATE_UNHIDDEN isn't set in the Flags field, the setting of the cursor pointer had to be moved to the LoadCursor paths.

LoadCursorARGBCheck gets the cursor pointer, but LoadCursorImageCheck does not. For LoadCursorImageCheck, I added a new function, xf86CurrentCursor, which returns the current cursor. With this new function, we can eliminate the cursor pointer from the xf86CrtcConfigRec, once drivers are converted over to use it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b64108fa305e956e4edaae9d53071ff0abee268e
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed May 25 19:09:23 2016 +0900

glamor: Check for composite operations which are equivalent to copies

Increases x11perf -compwinwin500 numbers by a factor of 10 for me with radeonsi.

Conditions copied from exaComposite().

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 4711ebc174206b5a50e6ae8a7f974cd835e4ebd3
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Tue May 24 18:12:42 2016 +0900

glamor: Fix sampling outside of RGBx source/mask pictures

RENDER requires that sampling outside of any source/mask picture results in alpha == 0.0.

The OpenGL border colour cannot set alpha = 0.0 if the texture format
doesn't have an alpha channel, so we have to use the RepeatFix handling in that case.

Also, only force alpha = 1.0 when sampling inside of RGBx source/mask pictures.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94514
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 4d649d51770cace4d7c1e51d9a199ac7a056c30a
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 18 16:03:48 2016 -0500

mi: Remove miPointerRec from API

This moves the definition of miPointerRec from mipointrstr.h to mipointer.c so that it is no longer visible in the API, allowing it to be changed while the API/ABI is frozen.

Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3f9015b6dc9e79e9c97f8717dea6af9f4d8523f2e
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 18 16:03:47 2016 -0500

xwayland: Move sprite invalidation logic into mipointer

This creates a function that invalidates the current sprite and forces a sprite image reload the next time the sprite is checked, moving that logic out of the xwayland sources and allowing the miPointerRec structure to be removed from the server API.

Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4e124203f2260ddaaf54155f4a05fe469733e0b97
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 3 11:24:58 2016 -0400

damage: Make damageRegionProcessPending take a damage not a drawable

In the case where there's no damage monitor on the drawable, we look that fact up twice: once before rendering to decide whether to compute damage, and again after to decide whether to append it. This is wasted effort, as the layer below us is effectively not allowed to change whether there's a damage monitor for the drawable, but there's no way
the compiler can know that.

Instead, look it up once up front, and change the check macros and damageRegionProcessPending to take a damage not a drawable.

v2: Explicitly pass pDamage to the macros as well (Michel Dänzer)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 1bb932bf1417ff319a594d7e40f6813a26936784
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat May 7 00:43:33 2016 -0700

XQuartz: Fix default CFBundleVersion

m4/shell variable name collision broke the case when the configure option was not used

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2fbf5c2f91d33efbda573c4be036248b1d8ed7f1
Author: Andrew Comminos <andrew@comminos.com>
Date:   Tue Dec 29 23:41:27 2015 -0800

Input: Send XI2 FocusOut NotifyPointer events to the pointer window.

This changes XInput 2's propagation of NotifyPointer focus out events to include the pointer window as well, similar to core events. This fixes a potential permanent focus in GDK when the focus moves to PointerRoot.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=93539

Signed-off-by: Andrew Comminos <andrew@comminos.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 984be789d5935bc7f695dc61234ef0251ed33679
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed May 11 09:15:19 2016 +0200

xwayland: don't check events as early as InitInput

If data is received during XWayland startup, it will be read early in InitInput() before the connection data is initialized, causing a crash.

Remove the wayland rountrips from InitInput() as this is done again in xwl_screen_init() where it seems more appropriate.
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=95337
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3f569435e10df515c6f86289de986bfc59c6bc18
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 31 16:56:44 2016 -0400

glx: Stop tracking hasUnflushedCommands

This is only meaningful for indirect contexts, and all it does is
(maybe) prevent a flush when switching away from an indirect context.
Indirect contexts aren't worth optimizing for, and Mesa tracks whether
a flush is needed anyway.

Careful readers will note that ReadPixels would reset the flag even
though it doesn't imply a flush!

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0ebb58f6b6f66afbc3a48bd10693fe190aed8694
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 31 16:20:40 2016 -0400

glx: Remove some redundant zero-init of GLX context state

The context is already calloc'd.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d5ba09598210063926aeff55ac58d2b7020d9a03
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 31 15:51:39 2016 -0400

glx/dri2: Implement dri2FlushFrontBuffer explicitly

No functional change.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0ba4e251a1012bd5a2eab83e2c51006ec3805394
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 31 15:50:34 2016 -0400
No functional change, just rearranging some code to make later commits more obvious.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f523ebb5492a2e12b76a8b5b7f1b0e5efd4a8040
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Apr 18 12:56:17 2016 -0400

dix: Remove pointless client-state callbacks

Private storage is pre-zeroed by the private system itself.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 140c2f1a54dbc2503311e9a011e841aa1f277cbd
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Fri Apr 1 18:24:00 2016 +0900

EXA: Honour op parameter to exaGlyphs even if maskFormat == NULL

Reported-by: Uli Schlachter <psychon@znc.in>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94775
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Uli Schlachter <psychon@znc.in>

commit 7f0494671f95cfa33f6f2c7c74b20a21f239f8c5
Author: Dave Airlie <airlied@redhat.com>
Date: Fri May 6 05:41:58 2016 +1000

modesetting: fix build with glamor disabled.

Fix build without --enable-glamor disabled.

Caught by the arm tinderbox.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 66fdeb880aac0966be9aa41219047ade0148c35f
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Mon May 2 23:47:22 2016 +0100

xfree86: drop unneeded strdup for modulepath/logfile

The destination variable is never freed, thus we even plug some memory
leaks.

v2: Rebase against updated xf86CheckPrivs() helper.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 032b1d79b7d04d47814a5b3a9fdd162249fe4a74c
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Mon May 2 23:47:21 2016 +0100

xfree86: use the xf86CheckPrivs() helper for modulepath/logfile

v2: Rebase against updated xf86CheckPrivs() helper.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 0fdd47560468e7b6147c666cc6b9eebeaeb68572
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Mon May 2 23:47:20 2016 +0100

xfree86: factor out the check priviliges and print a big warning

Current message was quite off "file specified must be a relative path"
and alike. Just factor it out and use "path/file" as needed.

v2: Rework error message, drop "Using default", print actual arg value.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 2378adde6770385c06f7efcd32f270d00d49ce3f
Author: Dave Airlie <airlied@gmail.com>
Date: Fri Apr 29 14:01:33 2016 +1000

modesetting: set capabilities up after glamor and enable offload caps.

This moves the capabilities setting to after glamor is initialised, and
enables the offload caps in cases where they work. This enables DRI2
PRIME support with modesetting.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 258588224d6b35de12f97d9092efa5cb3e426550
Author: Dave Airlie <airlied@gmail.com>
Date:   Fri Apr 29 14:01:32 2016 +1000

xf86Crtc: don't set the root window property on slave GPUs.
Slave GPUs don't have a root window to set this on, so don't.
This fixes some crashes I saw just playing around.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a41a171bca9aeafac2865faa904f15d9b59925
Author: Dave Airlie <airlied@gmail.com>
Date:   Fri Apr 29 14:01:31 2016 +1000

modesetting: set driverPrivate to NULL after closing fd.
Otherwise ms_ent_priv will return NULL and things will fall apart.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit fc1f61b75c9712e24ff665f95d62771f39eba1c7
Author: Dave Airlie <airlied@gmail.com>
Date:   Fri Apr 29 14:01:30 2016 +1000

randr/provider: only allow slave gpu to be offload sources.
The other way around makes no sense.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 2d0f151c6195ba94d0320b55227a108e6301a74c
Author: Alex Goins <agoins@nvidia.com>
Date:   Fri Apr 29 14:01:29 2016 +1000

modesetting: Consistent whitespace in driver.c
For some reason a couple of the dirty functions in driver.c used 8
spaces per tab instead of 4 like the rest of the file. Fix this to make
it more consistent and give me more room to work in ms_dirty_update in
subsequent commits.
v1: N/A
v2: N/A
v3: N/A
v4: Initial commit

Signed-off-by: Alex Goins <agoins@nvidia.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 137ac094e7ab8c871f3b36e40ad826ac797f0e26
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 1 22:44:26 2016 -0400

dix: Push UpdateCurrentTimeIf down out of the main loop

This was added in:

commit 312910b4e34215aaa50fc0c6092684d5878dc32f
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Apr 18 11:15:40 2012 -0700

Update currentTime in dispatch loop

Unfortunately this is equivalent to calling GetTimeInMillis() once per request. In the absolute best case (as on Linux) you're only hitting the vDSO; on other platforms that's a syscall. Either way it puts a pretty hard ceiling on request throughput.

Instead, push the call down to the requests that need it; basically, grab processing and event generation.

Cc: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ac164e58870d70640381e68b776eb95578c7fbd3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 4 20:36:18 2016 +1000

xbk: after changing the keymap, force an indicator update

When NumLock is on and a new keymap is applied, the next modifier state change will turn off that LED (but leave the state enabled). The cause for this is a bit convoluted:

* the SLI explicitState is copied from the current state in ProcXkbGetKbdByName. Thus, if NumLock is on, that state is 0x2.
* on the next modifier key press (e.g. Shift), XkbApplyState() calls into
XkbUpdateIndicators() -> XkbUpdateLedAutoState() to update SLIs (if any) for the currently changed modifier. But it does so with a mask only for the changed modifier (i.e. for Shift).
* XkbUpdateLedAutoState() calculates the state based on this mask and ends up with 0 because we don't have a Shift LED and we masked out the others.
* XkbUpdateLedAutoState() compares that state with the previous state (which is still 0x2) and then proceeds to turn the LED off

This doesn't happen in the normal case because either the mask encompasses all modifiers or the state matches of the masked-out modifiers matches the old state.

Avoid this issue by forcing an SLI update after changing the keymap. This updates the sli->effectiveState and thus restores everything to happy working order.

https://bugzilla.redhat.com/show_bug.cgi?id=1047151

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 059d5ef30490233f410ca87084c7697b87e5b05e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue May 3 23:43:06 2016 -0700

XQuartz: Update copyright years

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit d6ba4f2c52da150a9a92dbdf00e7902d17033bd
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue May 3 23:42:34 2016 -0700

XQuartz: Add --with-bundle-version and --with-bundle-version-string configure options

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit c1614928c10a8f8400f99acfd1b7f96d503af7ec
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue May 3 23:21:38 2016 -0700

XQuartz: Add --with-sparkle-feed-url configure option

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 299b01eabf827a7435b5d6004d50637ac710bbc7
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Tue May 3 23:14:24 2016 -0700

XQuartz: Update release feed URL to use new https URL

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 16d6733c63727d910eb516d7f6950f4675281f2d
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Tue May 3 23:24:44 2016 -0700

XQuartz: Fix the help text for --with-bundle-id-prefix

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 214a66b661dcb56ebb9776e34049753f65c7510a
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Tue May 3 23:16:46 2016 -0700

XQuartz: Remove --with-launchd-id-prefix

It's been deprecated for years.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2285fe78c04714561a0d1a164a41a38c48263f89
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Apr 22 15:04:37 2016 +1000

xfree86: add support for MatchIsTabletPad

The tablet pads have been separate kernel devices for a while now and
libwacom has labelled them with the udev ID_INPUT_TABLET_PAD for over a year
now. Add a new MatchIsTabletPad directive to apply configuration options
specifically to the Pad part of a tablet.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fa02b05645080c285da5972262a8d37403e39d7e
Author: Dave Airlie <airlied@redhat.com>
Date: Tue May 3 06:54:57 2016 +1000

modesetting: port clean start code from amdgpu. (v2)

Both radeon and amdgpu don't set the mode until the first blockhandler,
this means everything should be rendered on the screen correctly by
then.
This ports this code, it also removes the tail call of EnterVT from ScreenInit, it really isn't necessary and causes us to set a dirty mode with -modesetting always anyways.

v2: reorder set desired modes vs block handler as done for amdgpu.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit caabc4e85540dcda4225f2788b5616f7d870fb6b06
Author: Dave Airlie <airlied@redhat.com>
Date: Tue May 3 06:54:56 2016 +1000

modesetting: add support for background none.

This adds support using glamor for background None.

loosely based off the amdgpu code. relies on the glamor_finish code.

Acked-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit c33250945b45adc447154239f0cf48f9b2d7335
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 8 11:26:36 2016 -0400

kdrive: Nuke a bunch of dead code

gcc6 says:

keyboard.c:46:21: warning: 'linux_to_x' defined but not used

Only referenced by a bunch of long if-0'd code, so chuck it all out.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a5dd7b890f4f3a5245639591c73303c5a087b38a
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 8 11:24:50 2016 -0400

dix: Squash some new gcc6 warnings

-Wlogical-op now tells us:

devices.c:1685:23: warning: logical ‘and’ of equal expressions
x86emu: Change include order to avoid conflict with system header

R_SP is also defined in <sys/ucontext.h> on m68k. Also remove duplicate definitions.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Andreas Schwab <schwab@suse.de>

commit aa4e757130010dd3202f10ec6cb0c306c1dbcfbc
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Mar 11 09:22:00 2016 +1000

glamor: add glamor_finish API

Some drivers are calling glFinish, they really should be doing this.

This also is needed for some reverse prime scenarios.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit f48b0534f110397246809d279225afedb28aa233
Author: Marek Chalupa <mchqwerty@gmail.com>
Date:   Mon Apr 25 11:33:00 2016 +0200

xwayland-shm: fortify fallocate against EINTR

If posix_fallocate or ftruncate is interrupted by signal while working, we return -1 as fd and the allocation process returns BadAlloc error. That causes xwayland clients to abort with 'BadAlloc (insufficient resources for operation)' even when there's a lot of resources available.

Fix it by trying again when we get EINTR.

Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
configure.ac: Keep environment CFLAGS when testing

DRI2 detection could fail if configure is invoked with a sysroot passed as CFLAGS. Ideally configure should invoke gcc with the sysroot argument passed to the configure script, but for some reason this is not done by AC_COMPILE_IFELSE.

Fix this by ensuring CFLAGS are preserved when checking for stuff.

Signed-off-by: Alexandre Courbot <acourbot@nvidia.com>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>

commit 16e4bce9e5257c50c80c66efee0d07c2483619e1
Author: Simon Thum <simon.thum@gmx.de>
Date:   Fri Apr 8 13:24:39 2016 +0200

dix/ptraccel: Remove float literals

This was fine back when valuators were integer. Device properties are float (not double), so some instances remain.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c8e5fc30575a309c25970fc68b9184c07bb74df4
Author: Simon Thum <simon.thum@gmx.de>
Date:   Tue Apr 5 14:29:47 2016 +0200

dix/ptraccel: Fix memory leak in InitPredictableAccelerationScheme

This was quite unlikely except in situations where a proper startup would have been impossible anyway, but since automated checks don't grade likelihood just fix it.

Detected by Jeremy Huddleston's clang checks.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f641ae412287ecb7a3437987e2bab1646a8443aa4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 10:45:48 2016 +1000
Xi: don't deliver emulated motion events for non-emulating touches

The touchpoint knows whether it should be emulating or not and we have a check for that later. Check for this before we generate the event and try to deliver it, lest we trigger a bug warning.

https://bugzilla.redhat.com/show_bug.cgi?id=1282252

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 577bebe2067293bb154068e99a2ef085b066cb67
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 20:30:46 2016 +0100

xfree86/parser: simplify #ifdef ladder

Rather than 'hacking' around symbol names and providing macros such as 'Local' just fold things and make the code more readable.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 537276a5b86b7341169ea4eb36d479a503ba5d84
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 20:30:45 2016 +0100

xfree86/parser: reuse StringToToken() in xf86getToken()

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 944ea03d5be2ffe22a3f1c4e287760261c31235f
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 20:30:44 2016 +0100

xfree86/parser: move StringToToken() definition further up

... so that we can use it without the forward declaration. Plus we're doing to reuse it in the next commit :-)

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit b93be14b7d339e4e46d941729dad853452fae8c0
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Sun Apr 17 20:30:43 2016 +0100

xfree86/parser: annotate xf86ConfigSymTabRec as constant data
Add the const notation to all the static storage as well as the functions that use it - xf86getToken(), xf86getSubTokenWithTab(), StringToToken() and xf86getStringToken().

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 3981dcd4d489b60bf356534a509ca93dcedf769
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Apr 17 20:34:43 2016 +0100
dri3: remove unused file dri3int.h

Copied during the prototyping stage and never used.

Cc: Keith Packard <keithp@keithp.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit a1b13cda6169a98d694451fec75e63352e9d90bd
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 6 09:09:21 2016 -0500
xfree86: Remove xf86RegisterRootWindowProperty

All consumers have been ported to the root window callback, so this can all be nuked.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e89c7f1c2a0e3480b21446e413073c1427285ae
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 6 09:04:15 2016 -0500
xfree86: Create EDID atom from the root window callback (v2)
v2: Fix swapped callback args

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8e3010d7d8e8c49c8859b576de1808ae7b2859be
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 6 08:54:47 2016 -0500
xfree86: Remove a never-hit diagnostic message
Practically speaking, the EDID major version is never not 1.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7961377567f15dfad9d96c5c0a0992b38013d973
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 6 08:47:37 2016 -0500

xfree86: Make xf86SetDDCproperties work more than once (v2)

We can call this more than once via xf86OutputSetEDID since hotplug is actually a thing in RANDR 1.2, but xf86RegisterRootWindowProperty merely adds the data to a list to be applied to the root at CreateWindow time, so calls past the first (for a given screen) would have no effect until server regen.

Once we've initialised pScrn->pScreen is filled in, so we can just set the property directly.

v2: Removed pointless version check, deobfuscate math (Walter Harms)

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8be83fff04a009109a956837ca983a96fd279711
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 6 08:35:43 2016 -0500

xfree86: Remove some leftovers from DisplayID support

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0cd2a24b61ef1583fc6b3fec7d01c7481cc97d52
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 6 08:30:07 2016 -0500

xfree86: Unexport xf86Initialising, remove xf86ServerIsInitialising

Neither of these are used from outside the server.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e70ee11a39b957141fbc565d79d128a46fac5f34
Author: Adam Jackson <ajax@redhat.com>
xfree86: Create VT atoms from the root window callback (v2)

v2: Fix swapped callback args

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dd9ee1edd65d00788cef8a3bea2168
Author: Adam Jackson <ajax@redhat.com>
Date:    Tue Jan 5 16:27:41 2016 -0500

xfree86: Create seat atom from the root window callback (v2)

v2: Fix swapped callback args

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2c3a3af5104714b637c1c4aea195df73e0fa918
Author: Adam Jackson <ajax@redhat.com>
Date:    Tue Jan 5 16:11:42 2016 -0500

dix: Add RootWindowFinalizeCallback

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8437955515ad59b0bfc6598248e7f0f7e706370
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:    Thu Mar 17 09:53:58 2016 +0100

glamor: fix wrong offset on composite rectangles

When using PictOpSrc, the destination is wrongly shifted back to (0, 0).

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94568
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit e8e5d839968e22cf42a6e1982a07b02c6f4a4562
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:    Fri Apr 1 13:38:11 2016 +0200

xwayland: Fix compiler warning in GLAMOR Xv

XvWindowMask is defined as 0x00020000 and cannot fit in the XvAdaptor
type which is defined as an unsigned char, thus causing a compiler warning:

xwayland-glamor-xv.c: In function ‘xwl_glamor_xv_add_adaptors’:
xwayland-glamor-xv.c:339:16: warning: large integer implicitly truncated to unsigned type [-Woverflow]

This XvWindowMask value is actually not used for XvAdaptor itself but by the server in its xf86xv implementation, so we don't even need that mask in our xwayland-glamor-xv implementation.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit f9b5bbad3a7f1ea4efb2084b8d9d82b98d4ee83
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 8 15:42:42 2016 +1000

xkb: fix SlowKeys release/reject beeps

Wrong use of the mask here caused a beep whenever a key was rejected but also when it was released after being accepted. Fix the mask to check for the correct enabled controls.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit a6288f0954cf97499e7849a87847062ee962c17
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Nov 3 19:07:43 2015 +0000

hw/xwin: xcbify internal window manager

Convert the code for the multiwindow mode internal window manager to xcb

xcb conversion avoids xlib/xserver namespace collision and _XSERVER64 type sizing issues

v2: Various fixes
v3: Don't include X11/extensions/windowswmstr.h, which uses the Display type and thus depends on Xlib.h, just for _WINODWSWM_NATIVE_HWND
v4: Fix indentation, add some error handling.
   Fix a bug with ConfigureNotify handling
v5: Fix a bug which prevented WM_NORMAL_HINTS from being checked

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 8114b8127f01fc81390fc13e3d09bccc50e41a66f
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Wed Jul 1 16:30:36 2015 +0100

hw/xwin: In multiwindow mode, do window minimization entirely in the WM

Remove winMinimizeWindow(), implement as UpdateState() in the WM instead, which uses getHwnd() to map a Window XID to a HWND (like everything else in the WM), rather than peering into the servers internal data structures.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6a64b9d7a70dc7ff2cac8b35a1f7b0797823733
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 17:55:19 2015 +0000

hw/xwin: xcbify code for converting X11 icon to Win32 icon

Convert the code for converting an X11 icon to Win32 icon from Xlib to xcb.

v2: some warning fixes in winXIconToHICON()
v3: declaration-after-statement warning fixes
v4: printf format fixes
v5: convert in place rather than in a library

This also avoids the xlib/xserver namespace collision issues, so winmultiwindowicons.h can be included everywhere it should be, which fixes compilation with -Werror=implicit-function-declaration

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0a69c1e2f2fa0ea63b02f88e68d956a369e882b
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Wed Mar 30 18:31:38 2016 +0100

xwin/glx: Build fix for warnings about missing WGL extensions

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

commit b08526eeccf1e165ed9ec2e6b571a5a616a9b696e
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 16 11:38:13 2016 -0400

glx: Implement GLX_EXT_libglvnd (v2)
For the dri2 backend, we depend on xfree86 already, so we can walk the options for the screen looking for a vendor string from xorg.conf. For the swrast backend we don't have that luxury, so just say mesa. This extension isn't really meaningful on Windows or OSX yet (since libglvnd isn't really functional there yet), so on those platforms we don't say anything and return BadValue for the token from QueryServerString.

v2: Use xnf* allocators when parsing options (Eric and Emil)

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2e8781ead3067b195baec2e76a28091575679383
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 23 15:41:24 2016 -0400

    glx: Compute the GLX extension string from __glXScreenInit

Now that the enable bits are in the screen base class we can compute this in one place, rather than making every backend do it.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e21de4bf3c5ff8cb9c5ea023d04162e5e56b3df
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 23 15:36:52 2016 -0400

    glx: Move glx_enable_bits up to the GLX screen base class

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 23cce73221c0b96e7778da34616f8c3f4d6aa819
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 23 15:13:51 2016 -0400

    xquartz/glx: Remove unused fields from the glx screen subclass

dmt:~/git/xserver% git grep -E '~/<(index|num_vis)\'> hw/xquartz/GL
hw/xquartz/GL/indirect.c:    int index;
hw/xquartz/GL/indirect.c:    int num_vis;

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 36bcbf76dcc7e88cac093f8b656c525bfefaf65d
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 23 15:26:23 2016 -0400

glx: Enable GLX 1.4 unconditionally

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2a72b89e8e88f612df48eb46b9f2edca795d
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 16 16:28:13 2016 -0400

xwin/glx: Drop GLWIN_NO_WGL_EXTENSIONS hack

This doesn't seem very useful, and we're about to implement 1.4 across the board, so some WGL extensions will become required.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 77bd41313aa5191b49ec73c1e377928ca294fe
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 22 14:40:37 2016 -0400

glx: Use __glXInitExtensionEnableBits in all backends (v2)

On xquartz this enables SGI_make_current_read, which is a mostly harmless lie as CGL doesn't implement it, as well as SGIX_pbuffer, which is fine because no pbuffer-enabled configs are created.

On xwin this enables SGIX_pbuffer and ARB_multisample in all cases. Again this is harmless if the backend doesn't support the features, since no fbconfigs will be created to expose them.

It also adds SGIX_visual_select_group to both xquartz and xwin. Amusingly, both were filling in the appropriate field in the fbconfig already.

v2: Warn about missing WGL extensions (Emil)

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 15af78fc56569dc3b6a7f2c5a6a49ed6b02111b7
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 23 15:19:15 2016 -0400

glx: Enable GLX_SGI_make_current_read in the core

GLX 1.3 implies equivalent functionality, so this is safe to enable unconditionally, and bindContext always takes both drawable and readable arguments in any case. Mesa stopped exporting the __DRI_READ_DRAWABLE extension in 8.0 (when the DRI1 drivers were removed) so this will restore the extension string.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9b2fc6d986919666f1c9186edad956f78c31f3698
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 23 14:57:25 2016 -0400

xwin/glx: Enable GLX_SGI_make_current_read unconditionally (v2)

This seems to be fairly universal these days, and if it doesn't exist the only thing you break is separate drawable and readable, which is a rare feature to use. So pretend it's always there and just throw an error on MakeCurrent if it isn't, and don't consider it when computing the GLX version number.

v2: Fix type-o for glxWinScreen (Jon Turney)

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b2ef7df476af619903ef7f6b6962b371ae14306c
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Mar 19 13:44:10 2016 -0400

xquartz/glx: Error out for MakeContextCurrent(draw != read)

CGL doesn't have a way to express this directly, unlike EGL WGL and GLX. It might be implementable, but it's never actually worked, and it's a fairly niche feature so we're better off throwing an error if someone attempts it.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f95645c6f70019316f8ad77b7beb84530fc0505f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 22 14:37:19 2016 -0400

glx: Don't enable EXT_texture_from_pixmap unconditionally

Not all backend servers implement this. Those that don't happen to not use __glXInitExtensionEnableBits, but we'd like that to change, so fix it up before we switch them over.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 410aec82556def5395f51299bcefebeb7d0bda604
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 22 14:29:06 2016 -0400

glx: Remove server-side mention of GLX_MESA_swap_control

This extension is direct-only and has no GLX protocol. We don't even track an enable bit for it, trying to turn it on is pointless.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3a21da59e59cf11a9113d71e3431c4bd394ff1e8
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 16 19:05:17 2016 -0400

glx: Remove default server glx extension string

This existed only to be strdup'd and then immediately freed.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Emil Velikov <emil.velikov@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 44e1c97ca6fe992bbb6e9ecb0b82a113adfa57e
Author: Olivier Fourdan <sofourdan@redhat.com>
Date:   Mon Mar 21 09:53:17 2016 +0100

xwayland: Pretend we support viewport in vidmode
Some games (namely openttd) will raise an XError and fail with a BadValue if their request to XF86VidModeSetViewPort fails.

Support only the default zoom and viewport, fail for everything else.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 6e3a6e30a6ac66942a0756a5d079993181f02e34
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Mar 17 14:39:45 2016 +0100

xwayland: do not include frequency in mode name

Some applications (e.g. using lwjgl) try to parse the output of the xrandr command and get confused with the mode name returned by Xwayland, because it contains "@[frequency]" (e.g. "1024x640@60.0Hz").

Remove the @[frequency] part of the mode name to match what is found in usual mode names on regular X servers to please those applications.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94589

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 418fe365b45a143680d3b4143dc60f7ced5a3507
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Mar 24 17:34:23 2016 +0900

xfree86/modes: Make sure the HW cursor is hidden when it should be

When the HW cursor is hidden (e.g. because xfs6CursorResetCursor triggers a switch from HW cursor to SW cursor), the driver isn't notified of this for disabled CRTC. If the HW cursor was shown when the CRTC was disabled, it may still be displayed when the CRTC is enabled again.

Prevent this by explicitly hiding the HW cursor again after setting a mode if it's currently supposed to be hidden.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94560

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit adefbaee499b9679c6cac21f52ec6545af2b36b5
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 28 18:11:09 2016 +0900
os: Treat ssh as a non-local client (v4)

By the time we get to ComputeLocalClient, we've already done
NextAvailableClient ReserveClientIds DetermineClientCmd (assuming
we're built with #define CLIENTIDS), so we can look up the name of the
client process and refuse to treat ssh's X forwarding as if it were
local.

v2: (Michel Dänzer)
* Only match "ssh" itself, not other executable names starting with
  that prefix.
* Ignore executable path for the match.

v3: (Michel Dänzer)
* Use GetClientCmdName (Mark Kettenis)
* Perform check on Windows as well, but only ignore path on Cygwin
  (Martín Peres, Emil Velikov, Jon Turney)

v4: (Michel Dänzer)
* Cut of any colon and whatever comes after it. (Adam Jackson)
* Add bugzilla reference.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=93261

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 1e90797565385426ad63bd2108085c8466695c0b
Author: Sonny Jiang <sonny.jiang@amd.com>
Date:   Mon Mar 28 16:36:50 2016 +0900

DRI2: add Polaris PCI IDs

Signed-off-by: Sonny Jiang <sonny.jiang@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com> (Polaris10)
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com> (Polaris11)

(Ported from Mesa commit f00c840578a70e479ffbb99f6b64c73dc420179fa)

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 3b385105b2d19a1c55e9779ae88d775185e8a231
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Mar 24 17:42:47 2016 +0900

present: Only requeue for next MSC after flip failure

This code was added to deal with the driver present hook failing, in
which case we need to wait for the next MSC before executing the presentation.

However, it could also take effect in cases where the driver incorrectly thinks the current MSC matches the target one (e.g. due to the kernel interface only supporting 32-bit MSC values), in which case it could result in the presentation getting requeued over and over.

To prevent such issues, check specifically for the target MSC immediately following the current MSC.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94596
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8ac0e05cc6c6e87b223ba7cb31d8856771c5d41a
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 23 14:42:08 2016 -0400
vfb: Re-add LD_EXPORT_SYMBOLS_FLAG to LDFlags

Accidentally removed, breaks Xvfb on cygwin.

Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a288cf58a0dc0f965a6f964c76bb86bb1989d797
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Mar 16 10:45:54 2016 +1000

glamor: swizzle RED to 0 for alpha textures

I'm pretty sure Eric suspected this could cause a problem, and we couldn't find a test. Well loading feedly in firefox seems to trigger badness that this solves.

bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94554
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Timo Aaltonen <tjaalton@ubuntu.com>

commit 4583fa9a6cd3095d7497c075d68e7430ea3c5cb0
Author: Ángel González <ingenit@zoho.com>
Date: Mon Oct 15 22:04:22 2012 +0200

security: Fix reversed comment

Commit 6045506be0cebeca4ebbe943ae77f020aafa703d4 changed back
the behavior to only allow the trusted extensions to the untrusted clients, but left the comment intended for Security*Un*trustedExtensions saying that "untrusted clients shouldn't have access to these".

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ángel González <ingenit@zoho.com>

commit b78897d0a04a833720698901fba9535570875e4
Author: Evgeny M. Zubok <evgeny.zubok@tochka.ru>
Date: Thu Apr 8 03:58:21 2010 -0700

xfree86: Change VBE version early-out to 1.2. (#22672)

Reporter has an S3 Trio with DDC and VESA 1.2.

Signed-off-by: Corbin Simpson <MostAwesomeDude@gmail.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 184fbf7541012090b8716c7eaf00895efd16d0ac
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 14 11:37:32 2016 -0400

xfree86: Finish removing font modules

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 69d1528bc35073331e281448dfb04eb4240ff472
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 26 16:42:20 2012 -0400

xfree86: Font modules aren't a real thing

There are no longer any loadable font modules (not that they ever did much in the first place), so stop pretending they're a defined ABI surface.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 4f8151c7a4bdf2d55848e70c83b2f9ce458cf316
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 14 11:20:39 2016 -0400

Fix the typo from the previous patch, d'oh

Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 75eeef28ae3709181a51571132b0accd9cae316e
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Sun Mar 13 13:54:01 2016 +0000

Xext/vidmode: Reduce verbosity of GetModeLine debug messages

In commit f175cf45aebeccda53f3ae49c0eaf27da1f194e92
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Feb 10 09:34:34 2016 +0100

vidmode: move to a separate library of its own

the verbosity of some old debug messages (which print the reply to every
GetModeLine client request and others) was increased leading to lots of
log spam. Downgrade the logging back to DebugF.

[ajax: Fix a typo so it compiles.]

Reviewed-by: Adam Jackson <ajax@redhat.com>
References: https://bugs.freedesktop.org/show_bug.cgi?id=94515
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Olivier Fourdan <ofourdan@redhat.com>

commit 744c292ae49dd1f9d33b860d2b4f0ae27023809b
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 11 13:50:32 2016 -0500

vidmode: Remove stray vidmodeproc.h from EXTRA_DIST

Was removed from the tree in:

commit f175cf45aebeccda53f3ae49c0eaf27da1f194e92
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Feb 10 09:34:34 2016 +0100

vidmode: move to a separate library of its own

but not removed from the Makefile, which broke 'make dist'.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47be7fca567b0d9e2627b4a21b112e96f81725b
Author: Dave Airlie <airlied@gmail.com>
Date: Tue Feb 9 16:54:22 2016 +1000

present: fail flipping if we have any slave outputs

Due to the way present currently works, we don't ever check with the
secondary adapters if we can flip at all.

We shouldn't flip if the secondary adapters are attached to the pixmap currently, however using the current check_flip callback isn't possible as it passes the Window to the driver (something we shouldn't be doing), so the slave driver can never get it's own screen ptr back.

For now to fix the problem just block flips if we have any slaves configured. We can fix the ABI up later, but this fix can be backported to stable.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 316948734c2bba72d42c4cf4530932b5862c109f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Mar 11 12:21:06 2016 +0900

    glamor: Make context current in glamor_pixmap_fbo_cache_put

    Without this, we may be manipulating the context of another screen.

    In a system with two GPUs using glamor, this fixes lots of

    (EE) glamor256: GL error: GL_INVALID_OPERATION in glBindTexture(non-gen name)

    spew since 0b4c0c75 ('glamor: Replace "finish access" shader with texture
    swizzling').

    Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
    Reviewed-by: Dave Airlie <airlied@redhat.com>

commit ef3005da3d5de92b3ee5a0ee78164e739a3216dc
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 21 12:47:57 2016 -0500

    glx: Implement GLX_EXT_fbconfig_packed_float

    The tokens for this are already defined by GLX_ARB_fbconfig_float, which
    we already support, so just add the extension to the list and let the
    driver provide those configs if it wants.

    Reviewed-by: Eric Anholt <eric@anholt.net>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d15cb654b6ba365daec9a62064e277adebde2fdab
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon May 18 13:00:02 2015 -0400
glx: Implement GLX_EXT_stereo_tree

This is correct as it is, but only because we know no DRI drivers implement stereo.

v2: Use new ATTRIB macro

Reviewed-by: James Jones <jajones@nvidia.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a18238877bbf9a9b95843d849a6f434275e9cd6c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 3 16:50:02 2016 -0500

glx: Add GLX_SCREEN to the GetDrawableAttributes response

libglvnd would like to use this to map from drawable to screen, so it can know which driver to dispatch to. Refer to the spec proposal here:


Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47c1d6b7abc0abc01c6b478367bbc2e869c91485bc0
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 10 12:29:34 2016 -0500

glx: Macroize building the attribute list in DoGetDrawableAttributes

No functional change, just a little easier to read and harder to get wrong.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c01094e5312fbd84146dd83122c5256a8e57d092
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 1 13:58:15 2016 -0800

ephyr: Fix redisplay with glamor on GLES.

glamor_transfer.c is still totally broken, though.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
commit 0b4c0c75d06f3dbe92be1a26a637e9f05529cb3d
Author: Eric Anholt <eric@anholt.net>
Date:    Mon Feb 1 13:58:14 2016 -0800

    glamor: Replace "finish access" shader with texture swizzling.

    For pictures without alpha, and for most other formats for GLES2, we
    would make a temporary FBO, make another temporary texture, upload our
    GLAMOR_MEMORY pixmap to the texture, then run the "finish access" shader
    across it to swizzle its values around into the temporary FBO (which we
    would use for a single Render operation and then throw away).

    We can simplify everything by using GL_ARB_texture_swizzle (or its
    GLES3 counterpart). It's just not worth the complexity to try to
    improve the performance of this already low-performance path (SHM
    pixmaps + Render) on GLES2.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit b0cc04992ced5d96bb5e52fc1e5c868797cc0a17
Author: Eric Anholt <eric@anholt.net>
Date:    Mon Feb 1 13:58:13 2016 -0800

    glamor: Drop dead large-pixmap handling code in temp picture uploads.

    The glamor_pixmap_ensure_fbo() in glamor_pixmap_upload_prepare() will
    always fail on a large pixmap, so we can just be explicit about
    bailing out here and then dump the rest of this garbage.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit 094b1bea8bd08eecc029e4d61ba40d81441c37905
Author: Eric Anholt <eric@anholt.net>
Date:    Mon Feb 1 13:58:12 2016 -0800

    glamor: Drop unused PBO code in temporary picture uploading.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit 6112fecc3a4fd7dfb0ef77a98cfd1f7c91ccea0c
Author: Eric Anholt <eric@anholt.net>
Date:    Mon Feb 1 13:58:11 2016 -0800

    glamor: Generalize the a1-to-a8 conversion path.
Pixman is quite qualified to allocate our temporary memory, and all we need to do is decide what formats to convert from and to.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 8f1411c3847a742f84ff07c4a0bb610801f5bfee
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:10 2016 -0800

glamor: Drop the REVERT_UPLOADING_1_5_5_5 path.

There was only a pretty special case that could have even worked -- you've got a GLES2 renderer, you've got a SHM pixmap, it's 1555 (not the usual 565 for 16-bit), and you're little endian (BE was broken, since GL's 5_5_5_1 picks the 1 bit from the lowest bit of the short, and on BE we weren't doing the conversion path that swaps around the channels). This is just not worth the complexity.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 2cc7a0815e5e2c2b1b1267cae9c348a8e95b1082
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:09 2016 -0800

glamor: Drop the GLES2 REVERT_UPLOADING_2_10_10_10 paths.

These just smash your 2_10_10_10 data into 8888, despite what the comments said. That's not valid rendering, so just ditch this path and fall back to software. One might also note in the code being removed here that the REVERT_UPLOADING_10_10_10_2 path wasn't even connected.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit f667d5177024d3fdffcb1b51694bdaeba6cee67962
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:08 2016 -0800

glamor: Merge the two GL-type-from-pictformat paths.

It clarifies what the difference is between the two paths, and would potentially encourage us to handle GLES extensions that expose additional types.
glamor: Propagate that is_upload is always true.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit c7574ce63c618d3a017105c380542eb04341b04a2
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:07 2016 -0800

glamor: Drop dead fbo handling from GLAMOR_MEMORY pict uploads.

The previous commit asserts that we don't have one.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 1bed5ef2b80c77c1bb9b62971367bea864fd8f66
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:06 2016 -0800

glamor: Make sure that GLAMOR_MEMORY pixmaps don't retain an FBO.

glamor_composite_choose_shader() may upload our scratch pixmaps to get
a Render operation completed. We don't want to hang onto GL memory
for our scratch pixmaps, since we'll just have to reallocate them at a
new w/h next time around, and the contents will be updated as well.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit ee7ca670b1695d64bc12cb37302913acc066a569
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 1 13:58:05 2016 -0800

glamor: Simplify temporary picture uploading call stack.

glamor_upload_sub_pixmap_to_texture() only had the one caller, so we
can merge it in, fix its silly return value, and propagate a bunch of
constants.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 25ce263fd88684be9370025f93ba3a2bfc72ff1a
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Mar 9 16:45:18 2016 +0100

glamor: do not build Xv support when --disable-xv

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit da7724d3d277c6c8a814881785b716896802629a
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Mar 9 16:21:18 2016 +0100

xwayland: add glamor Xv adaptor

This adds an Xv adaptor using glamor.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit d11fdff50c91575e977a63617806a61bca98c3d35
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Fri Jan 3 13:21:40 2014 +0000

hw/xwin: Tidy-up of winmsg.h

- winVMsg() has no uses, so remove
- winMsgVerb() has only one use, with default verbosity, so remove
- winMsg() is identical to LogMessage()
- Put winDrvMsg() and winDrvMsgVerb() under XWIN_XF86CONFIG
- Include what you use Xfuncproto.h for _X_ATTRIBUTE_PRINTF

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 519b98765f0c7d083a744ae7beb641753e4eb751
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Thu Mar 3 22:32:28 2016 +0000

hw/xwin: Remove GC privates, unused since native GDI engine removal

Unused since native GDI engine removal in commit 8465ee78

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 9d28f2a9be86662f56463aa1fd46d12988e30fa
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Jul 31 20:23:59 2015 +0100

hw/xwin: Use NULL rather than NoopDDA for unimplemented engine functions

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a309085a56de4d30dfbc44d9ff5302c7d9fdbf73
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Jul 31 20:20:00 2015 +0100

hw/xwin: Remove unused FinishCreateWindowsWindow engine function

This only ever had an (unused) implementation in the DDNL engine, which was removed in commit 57bbf6e2.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit fa6f9d06a3d1a90134d9349f5ce4ec5b4eef5e3
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Jul 31 20:12:37 2015 +0100

hw/xwin: Remove unused HotKeyAltTab engine function

This was only ever used by the primaryfb engine, removed in commit c79f824b

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 7bd25aa8437ec410e7a7de1b0636ba33298fc8d6
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Fri Jul 31 19:44:34 2015 +0100

hw/xwin: Return FALSE to indicate failure in winSetEngine()

Return FALSE to indicate failure in winSetEngine(), if it couldn't find a drawing engine to use

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 52e05b9282f0f220d7c762793ce0b8f606a45deb
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Feb 23 23:09:43 2016 +0000
hw/xwin: Remove WM_WM_MAP message, which is now unused

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c42217aa3d372acaa5ca7c64895edbfbd20c8475
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 20:24:33 2015 +0000

hw/xwin: Remove WM_(UN|)MANAGE messages, which are now never sent

Remove fAnotherWMRunning which tracks this message (although since it was never initialized, I doubt this worked reliably), and the only use of that, which was to prevent winMWExtWMRestackWindows() from being used when the internalwm is running

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b6bdf368420355332e41c604c523584bd39933f9
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 20:51:51 2015 +0000

hw/xwin: Remove allowOtherWM, which is now always FALSE

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8407d3096287868b5c5e50ca5a98d470918c85a9
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 20:34:09 2015 +0000

hw/xwin: Remove winIsInternalWMRunning(), which now always returns FALSE

Also remove then unused variables and IsRaiseonClick()

v2:
Also remove unused pScreenInfo variable in winMWExtWMRestackFrame()

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 2779a28a6a13831b334e8678cd4e838b3b38472
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 20:07:04 2015 +0000

hw/xwin: Remove fInternalWM flag

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33425
Remove the fInternalWM flag as it is now always FALSE after removing the
-internalwm option

v2:
Also remove then unused pRLWinPriv local from pRLWinPriv()

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 98238ece5756801a8a67b9235e42eb9ab2318633
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 19:37:40 2015 +0000

hw/xwin: Ignore the obsolete, undocumented -internalwm option

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cdeaebad9889d81d2698b8a10fec5e55d8dec7a1
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Mar 1 21:37:05 2016 +0000

hw/xwin: Remove the long-broken -silent-dup-error option

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 24042b4e367803dd64f3fcdc1be7bf2bf36c4145
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Dec 21 17:54:08 2015 +0900

modesetting: Allow CRTC transforms to actually take effect

Setting crtc->transformPresent to FALSE was preventing the transform
from actually taking effect and putting RandR into a confused state.

Now that the RandR 1.2 cursor code handles transforms correctly, we can
allow them to properly take effect.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit b04767c84dea4c44993723add4b1c5163fc11711
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Oct 21 18:33:46 2015 +0900

xfree86: Re-set current cursor after RandR 1.2 CRTC configuration change

Add xf86CursorResetCursor, which allows switching between HW and SW
cursor depending on the current state.

Call it from xf86DisableUnusedFunctions, which is called after any CRTC configuration change such as setting a mode or disabling a CRTC. This makes sure that SW cursor is used e.g. while a transform is in use on any CRTC or while there are active PRIME output slaves, and enables HW cursor again once none of those conditions are true anymore.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit a4ffa8721debb34bd36fd4624890d9c26886c618
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Dec 24 12:56:03 2015 +0900

xfree86/modes: Check for CRTC transforms in xf86_use_hw_cursor(_argb) (v2)

We currently don't handle transforms for the HW cursor image, so return FALSE to signal a software cursor must be used if a transform is in use on any CRTC.

v2: Check crtc->transformPresent instead of crtc->transform_in_use. The latter is TRUE for rotation as well, which we handle correctly.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit c3e4e9fc5d84bfc17b3ed63f67488ea25ba150ce
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Dec 24 16:20:49 2015 +0900

xfree86/modes: Refactor xf86_use_hw_cursor_argb to use xf86_use_hw_cursor (v2)

This reduces code duplication.

v2: No functional change this time.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit a3e681eafa5355b88bb3b099d47983f14f0d5e197
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Feb 23 17:19:03 2016 +0900

glamor: Source pictures are always depth 32

We were using the destination pixmap depth to determine the source picture format.

Fixes incorrect text rendering with some MATE desktop GTK3 themes.
glamor: Factor out `glamor_set_color_depth` from `glamor_set_color`

The former takes explicit screen and depth parameters instead of deriving them from a pixmap.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit b05ae79ee3bebef9790c97eedc033d1ffb3ec39a
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Feb 23 17:19:02 2016 +0900

glamor: Factor out `glamor_set_color_depth` from `glamor_set_color`

The former takes explicit screen and depth parameters instead of deriving them from a pixmap.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 947e94e341fa153258e986060b83af95934672b
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Feb 10 16:40:43 2016 +0100

glamor: Fix XvPutImage when src_y != 0

We already take src_y into account when uploading the src data by starting at the top line of the src data when uploading.

Adjust src_y accordingly when rendering.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 40a164b8f4c720b0d6ebf228ee175eb397fleeec2
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Fri Mar 4 16:24:48 2016 +0100

build: Enable vidmode independently from Xorg

This allows building Xwayland without Xorg and still include the vidmode extension.

v2: Use `PKG_CHECK_EXISTS` instead of `PKG_CHECK_MODULES`

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 2be527b1d4ce2b0412c4484539a8c9607645ec6d
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Mar 7 23:20:34 2016 +0100

xfixes: avoid double free if AddResource fails
pChc is already freed through CursorFreeHideCount deleteCursorHideCount.

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 4217db89ecd480fda2ee74feca06c6713c2a0f0
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:33 2016 +0100

render: free already allocated formats in PictureInit failure case

Probably pointless, if this fails you're not likely to get far...

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 054f80717812d4781741cd05393623fe6f6c627f
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:32 2016 +0100

record: don't call RecordDeleteContext when AddResource fails

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit d0c1a5bcf61a3d151f2234aa3820862f16c0f00c7
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:31 2016 +0100

xwin: no need to free auth data if AddResource fails

This is taken care of by SecurityDeleteAuthorization

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit acf263df81ad6813e0233033610fb44521cab1b4
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:30 2016 +0100

modesetting: avoid double free if AddResource fails

ms_dri2_frame_event_client_gone or ms_dri2_frame_event_drawable_gone
already free the resource.

Reviewed-by: Rémi Cardona <remi@gentoo.org>
dmx/glxProxy: don't free the glx pixmap twice if AddResource fails

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 164753f158e78f615f903467bf6d234d7c58244ef
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:29 2016 +0100

glx: don't call pGlxDraw->destroy() if AddResource fails

AddResource will have called DrawableGone, which takes care of the
destruction.

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 59b9c3d5e4bf05aeaaac2ee4ea12c301a67aee2c
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:28 2016 +0100

dri3: return an error if AddResource fails

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit ac97fb2b804809c39b12fe0032d96fb076657258
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:27 2016 +0100

xvmc: Fix unchecked AddResource

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 119d5c0e2f800737c949ef760c5fe25d963200bf
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Mar 7 23:20:26 2016 +0100

xwayland: Correctly detect whether posix_fallocate exists

We had HAVE_POSIX_FALLOCATE checks, but no such macros were ever
defined anywhere. This commit makes it so that this macro is defined if the posix_fallocate is detected during configure.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 939ce0bae68b682b57675f65c901653c1a094ebb
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Mar 1 21:39:01 2016 +0100

xv: fix double free in AddResource failure case

XvdiDestroyVideoNotifyList already frees the list if AddResource fails, so don't do it twice. And set tpn->client to NULL explicitly to avoid confusing uninitialized memory with a valid value.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 05e1bcf56e1c511a1ef539ace11e37727e1179e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 1 14:09:30 2016 -0500

dri1: Fix unchecked AddResource

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 093f9505c12565cc19bd6e33b263f31d104c3ef
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 1 14:09:29 2016 -0500

xv: Fix unchecked AddResource

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ac4d8c7cee13947b688ebb26035f06f7744db201
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Mar 1 17:03:44 2016 +0100

vidmode: build without xf86vidmodeproto

git commit f175cf45:

vidmode: move to a separate library of its own

introduced a regression where the xserver would not build when
xf86vidmodeproto is not installed even if the configure option
"--disable-xf86vidmode" is specified.

Fix build failure when xf86vidmodeproto is not installed.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 9c88cb9b05911e0531852f3fa8fa571c0306f57
Author: Laércio de Sousa <laerciosousa@sme-mogidasruzes.sp.gov.br>
Date:   Thu Feb 25 16:37:57 2016 -0300

drive/ephyr: map host X server's keymap into Xephyr, if supported

Currently Xephyr doesn't inherit host X server's keymap, which
may lead to keymap mismatches when using a non-US keyboard in a
window inside Xephyr. This patch makes Xephyr change its keymap
to match host X server's one (unless XKB support is disabled),
using xcb-xkb to retrieve the needed XKB controls.
This implementation is analogous to Xnest one at commit 83fe4235.

Supersedes: https://patchwork.freedesktop.org/patch/67504

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidasruzes.sp.gov.br>

commit daa6d2d58f65b9301b1b1f3c6df07719ecb5c03d
Author: Laércio de Sousa <laerciosousa@sme-mogidasruzes.sp.gov.br>
Date:   Fri Feb 12 14:18:02 2016 -0200

config/udev: distinguish between real keyboards and other key devices

This patch introduces a new flag ATTR_KEY for hotplugged input devices,
so we can better distinguish between real keyboards (i.e. devices with
udev property ID_INPUT_KEYBOARD="1") and other key input devices like
lid switches, power buttons, etc.

All supported hotplug backends (udev, hal, and wscons) will set both
flags ATTR_KEY and ATTR_KEYBOARD for real keyboards, but udev backend
will set ATTR_KEY, but not ATTR_KEYBOARD, for non-keyboard key input
devices (hal and wscons will set both flags in any case). With this
distinction, kdrive input hotplugging mechanism will be allowed to only
grab real keyboards, as other key input devices are currently not
supported.

In order to don't break current behaviour, this patch will replace all
ATTR_KEYBOARD occurrences with ATTR_KEY in hw/xfree86/common/xf86Xinput.c.
ephyr: enable option -sw-cursor by default in multi-seat mode

Option -seat passed to Xephyr requires -sw-cursor to be passed as well, otherwise the mouse cursor will remain invisible for the given seat. This patch takes care of enabling -sw-cursor if -seat is passed.

kdrive: add options to set default XKB properties

This patch introduces convenient command-line options -xkb-rules, -xkb-model, -xkb-layout, -xkb-variant, and -xkb-options, to set default values for these properties.

These options can be handful for cases in which compile-time default values don't match user locale, since kdrive doesn't support InputClass matching rules yet and not all Linux distros provide default rules to store these values in udev properties (which by the way is a discouraged practice).

kdrive: introduce input hot-plugging support for udev and hal backends (#33140)

This patch introduces input hot-plugging support for kdrive-based applications in multi-seat context. This feature is enabled by passing -seat option with desired seat name. All keyboard/mouse devices assigned to that seat will be automatically grabbed by kdrive.
It supports udev and hal backends for input hot-plugging support. Another patches may be required for wscons backend.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=33140

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>

commit 2116f03be04240e961649ca750a7a5438b8446c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Mon Feb 8 17:48:26 2016 +0100

xwayland: fix a crash on output removal

On output removal, the CRTC that was added in xwl_output_create() is not removed in xwl_output_destroy() and would cause a segmentation fault later on in ProcRRGetMonitors():

(EE) Segmentation fault at address 0x100000001
(EE) 10: ? (?+0x29) [0x29]
(EE) 9: /usr/bin/Xwayland (_start+0x29) [0x423299]
(EE) 8: /lib64/libc.so.6 (__libc_start_main+0xf0) [0x7fdd80e7f580]
(EE) 7: /usr/bin/Xwayland (dix_main+0x3b3) [0x544ef3]
(EE) 6: /usr/bin/Xwayland (Dispatch+0x31e) [0x54109e]
(EE) 5: /usr/bin/Xwayland (ProcRRGetMonitors+0x9b) [0x4ca18b]
(EE) 4: /usr/bin/Xwayland (RRMonitorMakeList+0x269) [0x4e9ba9]
(EE) 3: /usr/bin/Xwayland (RRMonitorSetFromServer+0x118) [0x4e9198]
(EE) 2: /usr/bin/Xwayland (MakeAtom+0x30) [0x530710]
(EE) 1: /lib64/libc.so.6 (__restore_rt+0x0) [0x7fdd80e93b1f]
(EE) 0: /usr/bin/Xwayland (OsSigHandler+0x29) [0x5792d9]

Remove the output CRTC in xwl_output_destroy() to avoid the crash.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 1bee4e254ca0305cb23e574b4c8b250d276ee998
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Feb 18 17:33:19 2016 +0900

present: Call present_restore_screenPixmap from present_set_abort_flip

After present_set_abort_flip, the screen pixmap will be used for all screen drawing, so we need to restore the current flip pixmap contents to the screen pixmap here as well.

Improves flashing / stutter e.g. when something like a popup menu appears
on top of a flipping full-screen window or when switching out of full-screen.

Note that this means present_set_abort_flip now relies on screen->root being non-NULL, but that's already the case in other present code.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 4611e902c291b8a789f374cffe3300f74645bc2b2
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Feb 18 17:20:45 2016 +0900

present: Factor code for restoring screen pixmap out of present_unflip (v2)

The following fix will use the refactored function.

The logic in the refactored function is slightly simplified, exploiting the fact that this function is only ever called with a valid flip pixmap.

v2: Assert that flip_pixmap is non-NULL instead of testing and bailing on NULL, preserve test for flip_window being non-NULL before calling present_set_tree_pixmap for it (Keith Packard)

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk> (v1)
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 72328e5eb98a3f27e1f0a0e17beae6db447bd87c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Feb 18 18:23:47 2016 +0900

present: Only update screen pixmap from flip pixmap once per unflip

present_unflip may be called several times from present_check_flip_window during the same unflip. We can only copy to the screen pixmap the first time, otherwise we may scribble over other windows. The flip pixmap contents don't get updated after the first time anyway.

Fixes at least the following problems, which were introduced by commit 806470b9 ("present: Copy unflip contents back to the Screen Pixmap"): On xfwm4 without compositing, run glxgears and put its window into full-screen mode to start flipping. While in full-screen, open the xfwm4 window menu by pressing Alt-Space. The window menu was invisible most of the time because it was getting scribbled over by a repeated unflip copy.
When switching a flipping window out of fullscreen, a repeated unflip copy could leave artifacts of the flip pixmap on the desktop.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=94325

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 43eb5b6047e9b35c337e553ec054f08bdc835abb
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Dec 8 12:52:17 2015 +0900

dri3: Refuse to work for remote clients (v2)

Prevents clients forwarded via SSH from hanging while waiting for the reply from the DRI3Open request.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=93261

v2: Return BadMatch instead of BadRequest (Keith Packard)

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6070a749d953951bacbfb149c5c36451293aad35
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Feb 10 09:35:39 2016 +0100

xwayland: add partial xvidmode extension support

Older games (mostly those based on SDL 1.x) rely on the XVidMode extension and would refuse to run without.

Add a simple, limited and read-only xvidmode support that reports the current mode used so that games that rely on xvidmode extension can run on XWayland.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=87806
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit b430f53bb753f9b064ba62d014820c1c3c76a841
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Feb 5 09:48:25 2016 +0100

vidmode: remove redundant DIX function

The API signature of the DIX xf86VidModeGetGammaRampSize() is now identical to the xf86cmap's xf86GetGammaRampSize() and all it does is
actually call xf86GetGammaRampSize() so we can save one vfunc.

Remove unneeded xf86VidModeGetGammaRampSize() function.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 48fccde2bf60efdbf45a96fa53bcd9a6570bf89
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Feb 5 09:48:24 2016 +0100

vidmode: remove redundant check

The DIX already checks for VidModePrivateKey to get the vfunc, so checking for this again in the DDX is redundant.

Remove the redundant function xf86VidModeAvailable() from the DDX.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit f175cf45aebcdda53f3ae49c0eaf27da1f194e92
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Feb 10 09:34:34 2016 +0100

vidmode: move to a separate library of its own

XVidMode extension might be useful to non hardware servers as well (e.g. Xwayand) so that applications that rely on it (e.g. lot of older games) can at least have read access to XVidMode.

But the implementation is very XFree86 centric, so the idea is to add a bunch of vfunc that other non-XFree86 servers can hook up into to provide a similar functionality.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=87806
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit 17097e083b2392ce8989474f6e0da8cc234329e9c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Feb 5 09:48:22 2016 +0100

vidmode: rename DDX functions

To avoid confusion as to what belongs on the DDX and what not.

Reviewed-by: Adam Jackson <ajax@redhat.com>
vidmode: move display mode definitions

To be able to reuse the VidMode extension in a non-hardware server, the display mode definitions need to be accessible from DIX.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

vidmode: remove mode access from public API

The mode access functions (namely VidModeCreateMode(), VidModeCopyMode(), VidModeGetModeValue() and VidModeSetModeValue()) are used only in xf86VidMode code and do not need to be available anywhere else.

Remove these functions from the public VidMode API and move them as static where they are used.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

vidmode: use appropriate DisplayModePtr type

The API uses an untyped pointer (void *) where a DisplayModePtr is expected.

Clean up the API to use the appropriate type, as DisplayModePtr is really all that will be passed there.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
vidmode: remove VidModeGetMonitor()

VidModeGetMonitor() is used solely in ProcXF86VidModeGetMonitor() to
get a untyped monitor pointer that is passed back straight again to
VidModeGetMonitorValue().

This is actually useless as VidModeGetMonitorValue() could as well get
the monitor from the ScreenPtr just like VidModeGetMonitor() does.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

vidmode: use ScreenPtr instead of screen index

New code passes ScreenPtr instead of the screen index.

Change the VidMode functions to take a ScreenPtr.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

vidmode: get rid of the CloseScreen wrapper

As we rely on dixRegisterPrivateKey() to allocate the memory for us that
will be free automatically, we do not need the CloseScreen wrapper
anymore.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

dixRegisterPrivateKey() can allocate memory that will be freed when the
screen is teared down.
No need to calloc() and free the memory ourself using a broken ref counting method.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>

commit d8882954570aba656d5a7be7d357feaba21cb099
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Feb 12 11:59:53 2016 +0000

dri2: Allow many blocked clients per-drawable

This patch was motivated by the need to fix the use-after-free in
dri2ClientWake, but in doing so removes an arbitrary restriction that
limits DRI2 to only blocking the first client on each drawable. In order
to fix the use-after-free, we need to avoid touching our privates in the
ClientSleep callback and so we want to only use that external list as
our means of controlling sleeps and wakeups. We thus have a list of
sleeping clients at our disposal and can manage multiple events and
sources.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit bc3634010c096dffdd1935c0e6cf8ba37534ae3d8
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Feb 12 11:59:52 2016 +0000

dix: Add ClientSignalAll()

This is a variant of ClientSignal() that signals all clients with an
optional matching sleeping client, function and closure.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 9fecc4cd571641f8920f25473ce5abb3fdca8b40
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Tue Jan 12 16:18:35 2016 +0000

xwin: Remove unhelpful debug about WM message queue size

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f7d1e5acdf5ed4ab4ed5c18727aa6f3d379ef560
Author: Jon Turney <jon.turney@dronecode.org.uk>
xwin: Add SKIPTASKBAR hint to _NET_WM_WINDOW_TYPE_DOCK type windows

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

xwin: In multiwindow mode, look up the HWND for the parent window

Rather than only looking at the foreground window to see if it matches
the WM_TRANSIENT_FOR window XID, lookup that XID and fetch the HWND from
the window privates.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

xwin: Factor out MessageName() debug helper

Factor out the MessageName() debug helper for message id -> text, and
use it on message queue and dequeue.

Reorder in numerical order to match winwindow.h

Add missing WM_WM_ICON_EVENT

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

xwin: Keyboard layout updates

layout zh_TW doesn't exist (anymore), try something else for that.

layout it variant mac doesn't seem to exist anymore, try to handle
Macintosh keyboards (running under Parallels on Mac) and other oddities
in a more generic way, by falling back to matching only on the language
identifier part of the input locale identifier.
v2:
Fix typo of 0xa0000 for 0xa000

Signed-off-by: Jon Turney <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8c97a0078e7fe22e6159fa53490dfca2f4d267a9
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Nov 19 22:33:39 2014 +0000

xwin: Add a tentative entry for the Korean keyboard to the list of known keyboard layouts

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon Turney <jon.turney@droncode.org.uk>

commit a4d8a64c4ba467964476c4a1486da698bd6aed9e
Author: Jon Turney <jon.turney@droncode.org.uk>
Date:   Tue Feb 10 14:36:37 2015 +0000

xwin: Update to XRANDR 1.2 internal interface to ensure an output is reported by XRANDR

If using the X server internal XRANDR 1.0 interface, it seems we must register a display size with RRRegisterSize() in order to make RRGetInfo() call RRScanOldConfig() to generate an output and crtc for us.

Without this, the following GDM bug means that an XDMCP session to GDM cannot be started.

https://bugzilla.gnome.org/show_bug.cgi?id=736054

Instead, use the more recent XRANDR 1.2 internal interface to explicitly create the output and crtc, and maintain a single mode which represents the current display size.

Also don't emit a RRScreenSizeNotify when a RRScreenSizeSize is done which has no effect, this seems to throw the GDM greeter into a loop...

v2: Maintain reference count for the mode we maintain more correctly, to avoid double free causing a crash on shutdown

Connect crtc to output, so a subsequent RRSetCrtcConfig request doesn't change anything, so we don't fail due to our lack of rrSetConfig or rrCrtcSet hooks.

See https://cygwin.com/ml/cygwin-xfree/2015-02/msg00032.html
v3:
Raise limit on X display size from 4Kx4K to 32Kx32K

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 008efebda801b9b80e2ab3f2e95aeeff8c82102ee
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:    Sat Oct 18 17:31:57 2014 +0100

xwin: Use WM_CLIPBOARDUPDATE clipboard API

Windows Vista and later have a saner clipboard API where the clipboard viewer linked list is no longer maintained by applications. Use it where available.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit de7f1fd6f8f10f07b366ae5428a8c65a22bda98
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Wed Jul 9 14:26:54 2014 +0100

xwin: Check that window position is visible on non-rectangular virtual desktops

Improve the check that window position is visible to work correctly for non-rectangular virtual desktops

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a9e73131b6453e0fa2da5360e84af7a2eae3b205
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Thu May 8 11:40:39 2014 +0100

xwin: Correctly interpret WM_HINTS, WM_NORMAL_HINTS properties on x86_64

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d7cef6fbe23381b31c163468f349feee2f1b1eba
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Thu Mar 13 18:04:17 2014 +0000

xwin: Improve handling of no-decoration motif hint

When motif decoration hint asks for no decoration, don't add sysmenu, minimize or maximize controls.
(This fixes a problem with e.g. fbpanel having a minimize control, but
gtk's panel_configure_event() doesn't like the state we put the window
into when we minimize it, causing it to spin)

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f75404be3ad94c8da493688397712c6e6a66c90
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Fri Mar 28 16:57:48 2014 +0000

xwin: XGetWMNormalHints() returns non-zero on success

XGetWMNormalHints() doesn't actually return a Status value. On success
it returns a non-zero value, not Success.

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9dc32746f2cd161b512c5c41e59f39c95287bdf1a3a3
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date: Tue Nov 10 10:27:07 2015 +0000

xwin: Fix format warnings when ./configured --enable-debug --enable-windowswm

Fix format warnings (mainly pointer format fixes) which show up when
./configured --enable-debug --enable-windowswm

Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b4ac7b142fa3c536e9b283cf3d4b94d82c03aac6
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Feb 24 16:52:59 2016 +0900

present: Only requeue if target MSC is not reached after an unflip

While present_pixmap decrements target_msc by 1 for present_queue_vblank,
it leaves the original vblank->target_msc intact. So incrementing the
latter for requeuing resulted in the requeued presentation being
executed too late.

Also, no need to requeue if the target MSC is already reached.

This further reduces stutter when a popup menu appears on top of a
flipping fullscreen window.
present: Requeue if flip driver hook fails and target MSC not reached

For flipping, we wait for the MSC before the target MSC and then call the driver flip hook. If the latter fails, we have to wait for the target MSC before falling back to a copy, or else it's executed too early.

Fixes glxgears running at unbounded framerate (not synchronized to the refresh rate) in fullscreen if the driver flip hook fails.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 1a9f8c4623c4e6b6955cb6d5f44d29c244df32a
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Feb 24 16:52:57 2016 +0900

present: Move msc_is_(equal_or_)after to the top of present.c

To make them usable from any other function in the file. No functional change.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 0461bca0eb2f7918c77ed45d2cbc756cf65021be
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Mon Feb 22 16:04:12 2016 -0300

kdrive/evdev: update keyboard LEDs (#22302)

Implement missing parts in kdrive evdev driver for correct update of evdev keyboard LEDs.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=22302

[ajax: Fixed deref-before-null-check bug]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Fix build on Cygwin by ensuring WIN32 check triggers only on MinGW

The type of fd_mask was changed in Cygwin 2.4.0 headers from 'long' to 'unsigned long'. This exposes an existing problem with winauth.c, which includes Xwindows.h (which includes windows.h, which defines WIN32), before including osdep.h, which causes the now conflicting definition of fd_mask in osdep.h to be exposed:

In file included from ../os/osdep.h:198:18: error: conflicting types for ‘fd_mask’ typedef long int fd_mask; /usr/include/sys/select.h:46:23: note: previous declaration of ‘fd_mask’ was here typedef unsigned long fd_mask;

Adjust the include guards in osdep.h to make sure we only use WIN32 guarded code when not compiling for Cygwin (i.e. WIN32 && !_CYGWIN_)

This isn’t a very elegant, but unfortunately appears to be the best solution, since it doesn’t seem to be possible to write the test in a positive form.

Future work: Should also audit of all the other uses of WIN32 in xserver, and make sure they are correct.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>

xwayland: Prefix shm tmp file names with xwayland

Prefix the temporary file names used for allocating pixmaps with "xwayland-" instead of "weston-". This makes it less confusing while looking at the file names of the currently open fds of the Xwayland process.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jonas Ådahl <jadahl@gmail.com>

xwayland: Prefix shm tmp file names with xwayland

Prefix the temporary file names used for allocating pixmaps with "xwayland-" instead of "weston-". This makes it less confusing while looking at the file names of the currently open fds of the Xwayland process.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
dri2: add virtio-gpu pci ids

Add virtio-gpu legacy + 1.0 pci ids, allowing them to use modesetting + glamor with dri2.

Signed-off-by: Marc-André Lureau <marcandre.lureau@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit e957a2e5dd288f515f3e93724823542e20333f6a
Author: Daniel Stone <daniels@collabora.com>
Date: Fri Feb 12 16:36:59 2016 +0000

dix: Add hybrid full-size/empty-clip mode to SetRootClip

216bdcb735 removed the SetRootClip call in the XWayland output-hotplug handler when running rootless (e.g. as a part of Weston/Mutter), since the root window has no storage, so generating exposures will result in writes to invalid memory.

Unfortunately, preventing the segfault also breaks sprite confinement. SetRootClip updates winSize and borderSize for the root window, which when combined with RRScreenSizeChanged calling ScreenRestructured, generates a new sprite-confinement area to update it to the whole screen.

Removing this call results in the window geometry being reported correctly, but winSize/borderSize never changing from their values at startup, i.e. out of sync with the root window geometry / screen information in the connection info / XRandR.

This patch introduces a hybrid mode, where we update winSize and borderSize for the root window, enabling sprite confinement to work correctly, but keep the clip emptied so exposures are never generated.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit dbe8d03c42f01332b3dc41fe9290aed142f1436f
Author: Keith Packard <keithp@keithp.com>
Date: Tue Feb 16 20:03:57 2016 -0800

randr: Send ConfigNotify when manual monitor list changes

This lets clients know that the layout of the monitors on the screen has changed so they can adapt appropriately.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
open source used in field network director for virtual machine installation 4.7.1 33448

commit eddf848c44349c7ebc7da9957bfb3630f3faba9
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 10 11:13:04 2016 -0500

dri2: Use the work queue to manage client sleeps

In  commit e43abdcf964f5ed9689cf908af8c305b39a5dd36
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Wed Feb 3 09:54:46 2016 +0000

dri2: Unblock Clients on Drawable release

we try to wake up any blocked clients at drawable destruction. But by the time we get there, CloseDownConnection has already torn down state that AttendClient wants to modify.

Using ClientSleep instead of IgnoreClient puts a wakeup function on a workqueue, and the queue will be cleared for us in CloseDownClient before (non-neverretain) resource teardown.

Tested-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b3e9c534e2b0dc2e9acdf2e9b942e1fc5227339b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 8 17:36:03 2016 -0500

os: unifdef STREAMSCONN

Removed from xtrans in 2012, and never wired up in the modular build anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit e43abdcf964f5ed9689cf908af8c305b39a5dd36
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Wed Feb 3 09:54:46 2016 +0000

dri2: Unblock Clients on Drawable release

If the Window is destroyed by another client, such as the window manager, the original client may be blocked by DRI2 awaiting a vblank event. When this happens, DRI2DrawableGone forgets to unblock that client and so the wait never completes.
Note Present/xshmfence is also susceptible to this race.

Testcase: dri2-race/manager
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Ville Syrjälä <ville.syrjala@linux.intel.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@linux.intel.com>

commit a722d617a092f08f69086630f5cfb598d4a21cc7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Dec 9 09:10:13 2015 -0500

autogen: Set a default subject prefix for patches

Per discussion at XDC2015, we want this so we can easily distinguish which module a patch is for. There's no way to set this in the server-side config, so setting a default at autogen time is about the best we can do.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7bb64d8c1de9659f11da791777291b071e9db82
Author: Jan Burgmeier <jan.burgmeier@unicon-software.com>
Date:   Thu Feb 4 14:06:43 2016 +0100

Fix XineramaQueryScreens for reverse prime

Make sure we account for slave CRTC when building the monitor list, since that's what rrxinerama uses to fake Xinerama geometry.

[ajax: Slightly more informative commit message.]

Bugzilla: https://bugs.freedesktop.org/92313
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 87d5534f701242d7c23aa20545a6292a0779e89c
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Wed Feb 3 16:14:09 2016 +0100

xwayland: Clear pending cursor frame callbacks on pointer enter

The last cursor frame we committed before the pointer left one of our surfaces might not have been shown. In that case we'll have a cursor surface frame callback pending which we need to clear so that we can continue submitting new cursor frames.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Bryce Harrington <bryce@osg.samsung.com>
commit b7d392931a309d0fe754869efb456ccd0385f3aa
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Wed Feb 3 09:54:43 2016 +0000

dri2: Only invalidate the immediate Window upon SetWindowPixmap

All callers of SetWindowPixmap will themselves be traversing the Window
heirarchy updating the backing Pixmap of each child and so we can forgo
doing the identical traversal inside the DRI2SetWindowPixmap handler.

Reported-by: Loïc Yhuel <loic.yhuel@gmail.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Ville Syrjälä <ville.syrjala@linux.intel.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@linux.intel.com>

commit da69f2f15a9917c3ed04e305061683c41338126e
Author: Laércio de Sousa <laerciosousa@sme-mogidasruez.sp.gov.br>
Date:   Fri Dec 11 11:43:14 2015 -0200

ephyr: don't load ephyr input driver if -seat option is passed

When used for single-GPU multi-seat purposes, there's no need to enable
ephyr virtual input devices, since Xephyr is supposed to handle its own
hardware devices.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidasruez.sp.gov.br>

commit 7213e99c838a60f0076bc2115b144798ea4c3ba
Author: Laércio de Sousa <laerciosousa@sme-mogidasruez.sp.gov.br>
Date:   Fri Dec 11 11:43:13 2015 -0200

eyphy: ignore Xorg multiseat command line options

Multi-seat-capable display managers commonly pass command-line options
like "-novtswitch", "-sharevts", or "-layout seatXXXX" to Xorg server,
but Xephyr currently refuses to start if these options are passed to it,
which may break Xephyr-based single-GPU multiseat setups.

[ajax: shortened summary]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidasruez.sp.gov.br>
commit edd443f69ea385a957b8eae0b066ad8e77fb947b
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Fri Dec 11 11:43:11 2015 -0200

kdrive: don't let evdev driver overwrite existing device names

KDrive evdev driver deliberately name grabbed devices as "Evdev mouse"
or "Evdev keyboard". This patch will make it skip this step if grabbed
devices are already named (i.e. from udev).

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>

commit 0b80da0d18713df4712c05973388b6226bb0227f
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Fri Dec 11 11:43:07 2015 -0200

kdrive: set "evdev" driver for input devices automatically, if available.

If kdrive input driver "evdev" is available, no other driver was
explicitly set for a given input device, and its kernel device node is
/dev/input/event*, this patch will make kdrive set "evdev" driver
automatically for such device.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>

commit 6d6fd688efc9f5f2e84f2af276d681ff42f9d5610
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Fri Dec 11 11:43:06 2015 -0200

kdrive: fix up NewInputDeviceRequest() implementation

This patch simplifies NewInputDeviceRequest() implementation in
kinput.c, making use of improved KdParseKbdOptions() /
KdParsePointerOptions() and merging several "if (ki)="/"if (pi)" clauses.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>

commit 2c3e8768443caa66d78775ea79bb16a5faae3a3c
Author: Eric Anholt <eric@anholt.net>
Date: Wed Jan 27 11:26:16 2016 -0800

glamor: Flip around conditionals in RepeatNone fixups.

Signed-off-by: Eric Anholt <eric@anholt.net>
glamor: Cut down a bunch of conditional handling for RepeatFix.

For hardware that doesn't do actual jumps for conditionals (i915, current vc4 driver), this reduces the number of texture fetches performed (assuming the driver isn't really smart about noticing that the same sampler is used on each side of an if just with different coordinates).

No performance difference on i965 with x11perf -magpixwin100 (n=40).
Improves -magpixwin100 by 12.9174% +/- 0.405272% (n=5) on ve4.

glamor: Clarify how the repeat values being passed around work.

All sorts of weird indentation, and some cuddled conditional statements deep in the if tree.
glamor: Clarify some logic in RepeatFix handling.

wh ratios are != 1.0 only when large, so with that we can simplify
down how we end up with RepeatFix being used.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 07f0d90e4a8b05ef968b1ef47acda7e9f4580340
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 17:29:48 2016 -0800

glamor: Simplify the pixmap box looping.

We had a double loop across h and w, and passed the current x and y
out to callers who then used w to multiply/add to an index. Instead,
just single loop across w * h.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 0dbce65b08f4812dcaaa4b77cd37aebac334c47a2
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 15:56:27 2016 -0800

glamor: Reuse the glamor_program_alpha_* enums for Render.

This is a step toward using glamor_program.c for Render acceleration.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 9b676786dc32f06a6df9d4c9535c10fda247335a
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 15:47:01 2016 -0800

glamor: Drop extra SHADER_IN type for no mask present.

We can just hand in a constant mask and the driver will optimize away
the multiplication for us.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
commit 03f34f85563c81e1655626e10f75fd7e21393c92
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 15:19:50 2016 -0800

glamor: Convert XV to using glamor_program.c.

One less custom path! By following the common glamor_program.c use
pattern, we get the ability to handle large pixmaps as the
destination. It's also one less place where glamor_utils.h coordinate
transformation happens.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit f368a0ba3aa58e5260d839d11d2f3ae75feaeaf
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 14:52:08 2016 -0800

glamor: Simplify XV vertex setup.

We were clipping the drawn rectangle to each clip box, then expanding
the box to a big triangle to avoid tearing, then drawing each triangle
to the destination through a scissor. If we're using a scissor for
clipping, though, then we don't need to clip the drawn primitive on
the CPU in the first place.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 294e45b60d99cf7d11c657288b5e2670b56775f3
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 14:18:48 2016 -0800

glamor: Set up XV sampler uniforms once at program build time.

No sense doing it on every draw.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 5d7bef2eefdf965359dd4e6ab6ab806cdad5b83f
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jan 26 13:39:18 2016 -0800
glamor: Drop dead glamor_pict_format_is_compatible().

This hasn't been used since 2f80c7791bb0b11f261cb1e3e0d89163dcdd0342 (GLAMOR_SEPARATE_TEXTURE removal).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 4494a450405cf539743cbcf6907bf5b8d2d80cb
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 26 15:08:17 2016 -0800

glamor: Drop comment about dead yInverted flag.

Wait long enough, and you don't need to think about it at all.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit f7c24e6ac345aab91df5f959f239a33f37113b1
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 26 13:34:00 2016 -0800

glamor: Rename the *y_inverted helpers to not say "inverted".

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 1fc6f4ecbf3d6514716435a0e79c0e6d53c31a3a
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 26 13:31:59 2016 -0800

glamor: Drop dead *_.from_x_coord_y() functions.

They've been dead since the yInverted removal (e310387f443b6333edf02c8980daa303505382b4).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 9ef11f13af7f552dadbd4a90c248e525a257e0a2c
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jan 21 16:01:14 2016 -0800
glamor: Clarify when Render fallbacks happen due to an unsupported op.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit b8229cc5f5298a37a4735dd002b0e0ebfc8bc75a
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jan 27 11:35:03 2016 -0800

glamor: Label programs before linking them.

i965 does most of its compiling at link time, so our debug output for its shaders didn't have the name on.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 68f236ebd4b268a9e525d623986999d230feb453
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jan 27 16:11:17 2016 -0800

ephyr: Make sure we have GLX_ARB_create_context before calling it.

This should fix aborts()s from epoxy on old software stacks.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 623ff251dd025929f5bb6174ca86580c5e707261
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 17:41:38 2015 -0500

xephyr: Remove DRI1

This only worked if the backend server supported DRI1, which is stunningly unlikely these days.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 953b71270cf12c59c8a836e9be403d07fb01fa22
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 17:41:37 2015 -0500

xfree86: Build parser for DRI config file subsection unconditionally
This applies regardless of which DRI you're asking for. Worse, leaving it out means breaking the config file syntax in a pointless way, since non-DRI servers can safely just parse it and ignore it.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1a48a5863e4bceee6b99c1fed41b21584ff3657c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 17:41:36 2015 -0500

xfree86: Remove ancient DRI build instructions

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d8e3be563991cc689e95a8cb9d510e920eaceea0
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 27 16:46:06 2016 -0800

ephy: catch X errors if we try to create a core context and fail.

This stops Xephyr failing on GLXBadFBConfig.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 50ca286d79f6304b972ea744487308e7794a170fb
Author: Timo Aaltonen <tjaalton@ubuntu.com>
Date:   Wed Jan 27 14:18:50 2016 +0200

dri2: Sync i915_pci_ids.h and i965_pci_ids.h from mesa

Adds Skylake, Kabylake and Broxton allowing them to use modesetting + glamor with dri2.

Signed-off-by: Timo Aaltonen <timo.aaltonen@canonical.com>
Reviewed-by: Andreas Boll <andreas.boll.dev@gmail.com>

commit bf23db42a4e5943129501223a47b48884cdeb62f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 27 11:50:13 2016 -0500

modesetting: Require sufficiently new libdrm

Bugzilla: https://bugs.freedesktop.org/93883
Signed-off-by: Adam Jackson <ajax@redhat.com>
xwayland: add support for use core profile for glamor. (v2)

This adds support to Xwayland to try and use OpenGL core profile for glamor first.

v1.1: use version defines.
v2: let glamor work out core profile itself.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 79c3925532bc0d098c9a4da6d5117bdada56e0af
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jan 19 07:59:59 2016 +1000

glamor: add core profile support to EGL glamor. (v2)

v1.1: use version defines.
v2: let glamor work it out itself

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 98c3504dcfcec227b9c7798a0bd287941eec0691
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 10 19:05:08 2014 -0700

ephyr: Create 3.1 core profile context if possible (v3)

On desktop GL, ask for a 3.1 core profile context if that's available, otherwise create a generic context.

v2: tell glamor the profile is a core one.
v2.1: add/use GL version defines
v3: let glamor work out core itself

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 564d9f0f8c17bb3c13aa3ca36da7825454dc5de3
Author: Dave Airlie <airlied@redhat.com>
Date:    Mon Jan 11 14:00:35 2016 +1000

glamor: add core profile support. (v2)

Glamor works out from the profile if it is core.

This flag is used to disable quads for rendering.

v1.1: split long line + make whitespace conform (Michel)
v1.2: add GL 3.1 version defines
v2: move to having glamor work out the profile.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit e6754dcb59ee21abb42421a28f4e467295584f67
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 10 19:02:55 2014 -0700

glamor: Use GL_RED instead of GL_ALPHA if we have texture_swizzle (v3)

GL_RED is supported by core profiles while GL_ALPHA is not; use GL_RED for one channel objects (depth 1 to 8), and then swizzle them into the alpha channel when used as a mask.

[airlied: updated to master, add swizzle to composited glyphs and xv paths]

v2: consolidate setting swizzle into the texture creation code, it should work fine there. Handle swizzle when setting color as well.
v3: Fix drawing to a8 with Render (changes by anholt, reviewed by airlie).

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 5042b0652b9fe5fed57a233880c3429ba390d86d
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jan 20 12:33:25 2016 -0800

glamor: Drop duplicated GLAMOR_DEFAULT_PRECISIONs in render accel.

We only need it once at the top of the shader, so just put it there.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
commit 1fd82c764d5b24107e60f2173e30e5d24a2f2667
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jan 19 02:01:09 2016 +0000

glamor: don't do copy if we have 0 boxes to copy.

This happens if you run twm + mplayer + xclock and drag the clock over the mplayer. If we don't catch it, we cause an illegal draw elements command to be passed to GL.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit e7308b6c77561df44c04f81509f8ada678705d94
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jan 12 18:13:46 2016 +1000

glamor: Add support for CA rendering in a single pass.

It's been on the list to add dual source blending support to avoid the two pass componentAlpha code. Radeon has done this for a while in EXA, so let's add support to bring glamor up to using it.

This adds dual blend to both render and composite glyphs paths.

Initial results show close to doubling of speed of x11perf -rgb10text.

v2: Fix breakage of all of CA acceleration for systems without GL_ARB_blend_func_extended. Add CA support for all the ops we support in non-CA mode when blend_func_extended is present. Clean up some comments and formatting. (changes by anholt)

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit cab14a9a08ff06bc4cbe179c7be8f1d07c07ebf9
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jan 21 12:01:02 2016 -0800

glamor: Drop the composite_with_copy path entirely.

I originally inherited this from the EXA code, without determining whether it was really needed. Regular composite should end up doing the same thing, since it's all just shaders anyway. To the extent that it doesn't, we should fix composite.

Signed-off-by: Eric Anholt <eric@anholt.net>
glamor: Fix copy-like Render operations between 15 and 16 depth.

Reading and writing to 16-depth pixmaps using PICT_x1r5g5b5 ends up failing, unless you're doing a straight copy at the same bpp where the misinterpretation matches on both sides.

Fixes rendercheck/blend/over and renderhceck/blend/src in piglit.

Please cherry-pick this to active stable branches.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

---

glx: Fix GLX_EXT_create_context_es2_profile support

As of v4 of this extension, any GLES version number may be requested (to enable GLES3 and later). To comply with this, simply remove the API version checks and leave it to the DRI driver to validate. This happens to also enable using GLES1 in direct contexts, so if that's the dire situation you find yourself in, your client driver at least stands a chance of working.

v4 also specifies that both extension strings should be advertised for compatibility with clients written against v1 of the extension spec, so add the es_profile bit to the extension list and enable it whenever we would enable es2_profile.

Reviewed-by: Ilia Mirkin <imirkin@alum.mit.edu>
Signed-off-by: Adam Jackson <ajax@redhat.com>

---

glamor: Use vertex array objects

Core contexts require the use of vertex array objects, so switch both glamor and ephyr/glamor over.
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d99204fb5e09c7be36485d4226f7ad66eb24cc
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jan 19 10:34:14 2016 +1000

glamor/xv: add vbo support (v2.1)

This converts the Xv code to using VBOs instead of client ptrs. This is necessary to move towards using the core profile later.

v2: put all boxes into single vbo, use draw arrays to offset things. (Eric)
  v2.1: brown paper bag with releasing vbo.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5582ad1b9b29934498cf3fe305d3a988130cd52
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Jan 11 14:00:04 2016 +1000

glamor: use vbos in gradient/picture code.

This converts two client arrays users to using vbos, this is necessary to move to using core profile later.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 25eca80265654cfbf8768024e027426fede0918
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Jan 15 18:22:21 2016 +0900

present: Handle wraparound when comparing MSC values

When a window moves from one CRTC to another, present_window_to_crtc_msc updates window_priv->msc_offset according to the delta between the current MSC values of the old and new CRTC:

  window_priv->msc_offset += new_msc - old_msc;

window_priv->msc_offset is initially 0, so if new_msc < old_msc, window_priv->msc_offset wraps around and becomes a large number. If the
window_msc parameter passed in is small (in particular if it's 0, such as is the case when the client just wants to know the current window MSC value), the returned CRTC MSC value may still be a large number. In that case, the existing MSC comparisons in pixmap_present weren't working as intended, resulting in scheduling a wait far into the future when the target MSC had actually already passed. This would result in the client (e.g. the Chromium browser) hanging when moving its window between CRTC.

In order to fix this, introduce msc_is_equal_or_after helper functions which take the wraparound into account for comparing two MSC values.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Martin Peres <martin.peres@linux.intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1db6de7b6a6ee240eb50a13fe1fa1e135d7cb93b
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Jan 12 15:42:47 2016 +0900

        glamor: Disable debugging messages other than GL API errors

        According to Nicolai Hähnle, the relevant specification says "All messages are initially enabled unless their assigned severity is DEBUG_SEVERITY_LOW", so we need to explicitly disable the messages we don't want to get. Failing that, we were accidentally logging e.g. shader stats intended for shader-db.

        Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=93659
        Tested-by: Laurent Carlier <lordheavym@gmail.com>
        Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>
        Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
        Reviewed-by: Eric Anholt <eric@anholt.net>

commit 8116fd8a760b5935645def1b2c3b155e05927850
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jan 12 14:19:24 2016 +1000

        glamor: store old fonts in double width textures.

        There is a problem with some fonts that the height necessary to store the font is greater than the max texture size, which causes a fallback to occur. We can avoid this by storing two macro columns side-by-side in the texture and adjusting the calculations to suit.

        This fixes
        xfd -fn _*..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*_..*
falling back here, when it picks

-reviewed-arabic-newspaper-medium-r-normal--32-246-100-100-p-137-iso10646-1

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 64081d0eacf3e53a029b8e8b63096cc153e98549
Author: Dave Airlie <airlied@redhat.com>
Date: Mon Jan 11 17:02:57 2016 +1000

glamor: fallback if font is too large for FBO size.

running xfontsel on haswell here, with a max texture size
of 8kx8k, one font wants 9711 height. This fallsback to
sw in this case.

A proper solution probably involves using an array texture.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 6dcb73375e0ce389315d55587623eb84e9d13543
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jan 6 10:03:23 2016 -0500

os: Failure to remove a non-existent log file is not an error

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 862cbf4c870c9ed913206c6ef4988bdfb470e1c39
Author: Thomas Klausner <wiz@NetBSD.org>
Date: Wed Nov 11 13:32:05 2015 +0100

Fix build when XSERVER_PLATFORM_BUS is not defined.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Thomas Klausner <wiz@NetBSD.org>

commit 63f83d1b7f7f496d05b409352749cde6674d71cf80
Author: Thomas Klausner <wiz@NetBSD.org>
Date: Tue Jan 5 12:51:41 2016 -0500

Fix uninitialized variable warnings reported by clang

v2: Move initializing pos into the first clause of the for statement. We
have to keep this macro equivalent to a plain for statement from the
user's perspective, otherwise callers need to {} things to keep control
Avoid segfault in CloseWellKnownConnections when using -displayfd

When -displayfd is looping through the possible display ids to use, if it can't open all the listening sockets for one (say when :0 is already in use), it calls CloseWellKnownConnections to close all the ListenTransConns entries before the point that ListenTransFds was allocated & initialized, so CloseWellKnownConnections would segfault trying to read entries from a NULL ListenTransFds pointer.

Introduced by commit 7b02f0b8

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

Use unique logfile names when starting server with -displayfd

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=93212

Previously all X servers started with -displayfd would overwrite Xorg.0.log - now a temporary name of Xorg.pid-<pid>.log is used until after -displayfd finds an open display - then it is renamed to the traditional Xorg.<display>.log name.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

modesetting should not reference gbm when it's not defined

Fixes build errors of:

present.c: In function 'ms_do_pageflip':
present.c:410:17: error: 'drmmode_bo' has no member named 'gbm'
new_front_bo.gbm = glamor_gbm_bo_from_pixmap(screen, new_front);

^ present.c:412:22: error: 'drmmode_bo' has no member named 'gbm'
if (!new_front_bo.gbm) {
    ^
present.c: In function 'ms_present_check_flip':
present.c:536:36: error: 'drmmode_bo' has no member named 'gbm'
    if (drmmode_crtc->rotate_bo.gbm)
    ^
Introduced by commit 13c7d53d

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 792176417f7e62a99c4f078017f4f804d6080de2
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jan 5 12:03:54 2016 -0500

Revert "Fix uninitialized variable warnings reported by clang"

Crashes at startup:

dmt:~/git/xserver% ./hw/kdrive/ephyr/Xephyr :1
(EE) Backtrace:
(EE) 0: ./hw/kdrive/ephyr/Xephyr (OsSigHandler+0x29) [0x47c8f9]
(EE) 1: /lib64/libc.so.6 (__restore_rt+0x0) [0x7f38d4de6b1f]
(EE) 2: ./hw/kdrive/ephyr/Xephyr (InitNotifyFds+0x17) [0x478697]
(EE) 3: ./hw/kdrive/ephyr/Xephyr (OsInit+0x1e) [0x47c99e]
(EE) 4: ./hw/kdrive/ephyr/Xephyr (dix_main+0x11c) [0x446efc]
(EE) 5: /lib64/libc.so.6 (__libc_start_main+0x1f0) [0x7f38d4dd2580]
(EE) 6: ./hw/kdrive/ephyr/Xephyr (_start+0x29) [0x427099]
(EE) 7: ? (?+0x29) [0x29]
(EE)
(EE) Segmentation fault at address 0x0

This reverts commit a221d4737c167589da44595c795d54f2c36b439a.

commit a221d4737c167589da44595c795d54f2c36b439a
Author: Thomas Klausner <wiz@NetBSD.org>
Date: Wed Dec 16 08:36:24 2015 +0100

Fix uninitialized variable warnings reported by clang

Signed-off-by: Thomas Klausner <wiz@NetBSD.org>
Acked-by: Michel Dänzer <michel.daenzer@amd.com>

commit f3593918a0507cc080875788b2776ebe4f57c694
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 16 09:21:39 2015 +1000

xfree86: move check for driver->PreInit up

No real change, but if the driver is broken and doesn't provide a PreInit function, then we don't need to worry about logind.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit fc4fbe8224fde8d7774120b6e978c652a70a50ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 11 09:31:30 2015 +1000

xfree86: add NoMatchFoo directives for InputClass sections

InputClass sections use various MatchFoo directives to decide which device to apply to. This usually works fine for specific snippets but has drawbacks for snippets that apply more generally to a multitude of devices.

This patch adds a NoMatchFoo directive to negate a match, thus allowing snippets that only apply if a given condition is not set. Specifically, this allows for more flexible fallback driver matching, it is now possible to use a snippet that says "assign driver foo, but only if driver bar wasn't already assigned to it". For example:

Section "InputClass"
  Identifier "libinput for tablets"
  MatchIsTablet "true"
  NoMatchDriver "wacom"
  Driver "libinput"
EndSection

The above only assigns libinput to tablet devices if wacom isn't already assigned to this device, making it possible to select a specific driver by installing/uninstalling it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <benjamin.tissoires@gmail.com>

commit eb671b804e902011ba901d0833a215799177bad0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 11 07:26:02 2015 +1000

xfree86: whitespace fix

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
vfb: add randr support (v2)

The motivation for getting this is chrome remote desktop that runs under Xvfb and wants to use RANDR to adjust screen size according to the remote desktop client screen size. Apparently there are other use cases as well, the bug mentions gnome-settings-daemon testing.

[ajax: massaged commit message]

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=26391
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Lambros Lambrou <lambros@lambrou@gmail.com>
Signed-off-by: Mike Frysiniger <vapier@gentoo.org>
Signed-off-by: Michal Srb <msrb@suse.com>
Signed-off-by: Siim Pöder <siim@p6drad-teel.net>

commit e98b36bc69d805ab52aba95b070a614427d46e05
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 8 16:22:16 2015 -0500

randr: Silence unused variable warning

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michel Dänzer <michel.danzer@amd.com>

commit 8c49c883dc196ea57e3f64425c2a5b0a8ce3ba75
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 8 15:08:34 2015 -0500

sync: Don't allow creating a system counter before sync is initialized

It probably doesn't work very well since there's other extension setup we're not doing on this path, and in any event it's not a thing that happens currently.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b5f04a79df8b5aah8b558461261d14721f0b3e41
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 8 15:56:17 2015 -0500

glxproxy: Silence shadowed-variable warnings
glxproxy: Silence set-but-unused-variable warnings

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bc996fa4e3c06f65eafe0a88ef491dbf01f31422
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 16:04:44 2015 -0500

dmx: Run `doxygen -u` to upgrade the doxygen config file

Also change the dot font setting back to the default of Helvetica as doxygen no longer ships FreeSans.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a55e0bc56fd8f9da8f066dc344af19535dd092ca
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 16:00:19 2015 -0500

dmx: Silence unused variable warning in dmxcompat

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2730ccb803c55af74dbdd1bf92fe23e643554d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 8 15:37:12 2015 -0500

dmx: Silence lex/yacc-related config parser warnings

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 718223d27452862eecedf1bee6278eae6040d45ea
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date:   Thu Dec 3 08:05:59 2015 -0200

systemd-logind.c: don't parse VT settings for non-seat0 X servers
Since non-seat0 X servers no longer touch VTs, I believe these settings are unnecessary.

Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidasrues.sp.gov.br>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 7c0ba32d5f1d5e65279365fa307dec3433caf3
Author: Bob Ham <bob.ham@collabora.com>
Date: Fri Dec 4 12:30:47 2015 +0000

xserver: Fix configure.ac check for libsystemd/-daemon

The configure script looks for the libsystemd-daemon pkg-config module. If the configure script finds it, the script will add libsystemd-daemon to a list of modules which are used to consolidate CFLAGS and LIBS.

The check for libsystemd-daemon was altered to fallback to libsystemd if libsystemd-daemon was not found (libsystemd-daemon was brought into libsystemd). Unfortunately, the configure script still adds "libsystemd-daemon" to the list of modules to consolidate, instead of "libsystemd". With this patch, we set a variable depending on which pkg-config module is found and add that to the module list instead.

Changes since v1:
- Rearranged logic so that we do a versioned check for libsystemd first, then look for libsystemd-daemon.
- Cleaned up the check a bit, only performing the module checks if we don't have --with-systemd-daemon=no, in a similar style to --with-dtrace.
- Changed the variable name to LIBSYSTEMD_DAEMON as per feedback.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Bob Ham <bob.ham@collabora.com>

commit 530d3e5ca0a02039b04ec6a677bb4e05b78e5f4
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Dec 3 17:04:09 2015 +0900

prime: Damage full destination rectangle when we start dirty tracking

This makes sure that the destination pixmap contents will be fully initialized. Without this, a PRIME output starts out with garbage.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 2a52c06e235bd79f91851121f53f7c1808fde321
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 7 17:03:02 2015 -0500

x86emu: Squash a warning

Apologies, should have caught this one when applying the previous x86emu patch.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 59b618227ebd024e57720aaea17596953f5b80e
Author: Julian Pidancet <julian.pidancet@gmail.com>
Date: Sun Jul 1 18:49:25 2012 +0100

x86emu: Correctly handle 0x66 prefix for some instructions

(Sorry for double posting)

I repost this patch because I havn't got any replies from maintainers since I posted the initial patch back in March.

Some instructions are not emulated correctly by x86emu when they are prefixed by the 0x66 opcode.
I've identified problems in the emulation of these intructions: ret, enter, leave, iret and some forms of call.

Most of the time, the problem is that these instructions should push or pop 32-bit values to/from the stack, instead of 16bit, when they are prefixed by the 0x66 special opcode.

The SeaBIOS project aims to produce a complete legacy BIOS implementation as well as a VGA option ROM, entirely written in C and using the GCC compiler.

In 16bit code produced by the GCC compiler, the 0x66 prefix is used almost everywhere. This patch is necessary to allow the SeaBIOS VGA option ROM to function with Xorg when using the vesa driver.

SeaBIOS currently use postprocessing on the ROM assembly output to replace the affected instruction with alternative unaffected instructions. This is obviously not very elegant, and this fix in x86emu would be more appropriate.

v2: - Decrement BP instead of EBP in accordance with the Intel Manual
   - Assign EIP instead of IP when poping the return address from the stack in 32-bit operand size mode in ret_far_IMM, ret_far, and iret
   - When poping EFLAGS from the stack in iret in 32-bit operand size mode, apply some mask to preserve Read-only flags.
v3: - Rebase

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julian Pidancet <julian.pidancet@gmail.com>

commit 72f0724ed65dc9abbf70b9feb6c7e7c2b9f8a0
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sun Feb 8 09:47:42 2015 +0000

present: Do not replace Pixmaps on redirected Window on unflip

When unflipping, we may find that our flip window has been redirected.
If we replace the redirected Window with the Screen Pixmap we then have
multiple fullscreen Windows believing that their own the Screen Pixmap -
multiple fullscreen Windows that are being flipped by Clients, and so
continue to flip causing popping between e.g. the compositor and the
game.

[ajax: Fix up present_execute() hunk to account for changes introduced
in fe07ec19e212a68076860d243a2935c54589068]

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 180b09912c0d2c4a43b5a08678bcd4b818924e7
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sun Feb 8 09:47:41 2015 +0000

present: When cancelling a pending synchronous flip, requeue it

The vblank event request for a synchronous flip is scheduled for the
vblank before the target flip msc (so that the flip itself appears at
the right frame). If we cancel that flip and so wish to schedule a
copy instead, that copy needs to be postponed by a frame in order for it
be performed at the requested time.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit b2d55338f6b8ff43ebcb49994abad123a797248cf
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sun Feb 8 09:47:40 2015 +0000

present: Requery pending flips with the right sync_flip mode

When verifying whether a pending flip is still valid, we need to pass
down the original sync_flip mode (e.g. if the driver only supports sync
flips, verifying a async flip will falsely fail).

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 548a3d5fd69bb059bbaf26eddede94c212712cd7
Author: Dave Airlie <airlied@gmail.com>
Date:   Mon Nov 16 09:05:27 2015 +1000

modesetting: create entities for pci and old probe. (v2)

This moves the code from the platform case into
a common function, and calls that from the
other two.

v2: Emil convinced me we don't need to lookup pEnt
here, so let's not bother.

Reported-by: Mark Kettenis <mark.kettenis@xs4all.nl>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 771016f0705909c908917b4ccaeafe950ba93c05
Author: Dave Airlie <airlied@gmail.com>
Date:   Mon Nov 16 09:05:26 2015 +1000

modesetting: drop platform_dev pointer.

This isn't used anywhere, so no point storing it until we need it.

Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 19b0249a5e07b9fc008e5d8709d7e489874415de
Author: Arkadiusz Mikiewicz <arekm@maven.pl>
Date:   Mon Nov 16 11:06:57 2015 +0100

Xorg.wrap: activate libdrm based detection for KMS drivers

Xorg.wrap includes code guarded with WITH_LIBDRM for detecting KMS drivers.
Unfortunately it is never activated since code missed to include file
which defines WITH_LIBDRM.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=92894
Signed-off-by: Arkadiusz Mikiewicz <arekm@maven.pl>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
commit 5bcceed749db93296b7784e4cde5e54c4443656c1
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Dec 2 18:21:12 2015 +0900

randr: Stop dirty tracking for shared pixmap being destroyed

Otherwise, we leave a dangling reference to the destroyed pixmap in the
master screen's pixmap_dirty_list.

Fixes regression from commit cf5d6414 ("randr: Factor out shared pixmap
destruction").

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit 2e3d9623a3eaf562f81e513cb183ca1b1bb68f279c
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Dec 2 10:42:36 2015 -0500

Revert "hw/xfree86: Use NotifyFd for device and other input fd wakeups"

Reported to break libinput:


This reverts commit 1df07dc36ca145c59f51176d9ab2651112506d75.

commit 7b02f0b87ec2fa0cc5a65307a1fd55e671ec884
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 11 22:02:17 2015 -0800

os: Use NotifyFd interface for listen descriptors

Replace the custom path for dealing with new incoming connections with
the general-purpose NotifyFd API.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1df07dc36ca145c59f51176d9ab2651112506d75
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 11 22:02:16 2015 -0800

hw/xfree86: Use NotifyFd for device and other input fd wakeups

Remove code in xls6Wakeup for dealing with device and other input and
switch to using the new NotifyFd interface.
render: Use OsTimer for animated cursor timing

This replaces the block/wakeup handlers with an OsTimer. This also avoids problems with performing rendering during the wakeup handler.

os/xdmcp: Replace xdmcp block/wakeup handlers with timer and NotifyFd

This removes the block and wakeup handlers and replaces them with a combination of a NotifyFd callback and timers.

Xext/xselinux: Use NotifyFd interface

Replace block/wakeup handlers with SetNotifyFd. Much nicer now.

hw/xwayland: Use NotifyFd handler to monitor wayland socket

Replace the block/wakeup handler with a NotifyFd callback instead.
commit 8543d4d8bc0526d1c910913b76259e5dee108e74
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 11 22:02:11 2015 -0800

modesetting: Use NotifyFd for drm event monitoring

Replace the block/wakeup handlers with a NotifyFd callback.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 58354fcf472cefc35b9c19cf84bf079cadfa2e1d
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 11 22:02:10 2015 -0800

kdrive/ephyr: Use NotifyFd for XCB connection input [v2]

Eliminates polling every 20ms for device input.

v2: rename ephyrPoll to ephyrXcbNotify and fix the API so it can be
used directly for SetNotifyFd. Thanks to Daniel Martin
<consume.noise@gmail.com>

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Cc: Daniel Martin <consume.noise@gmail.com>

commit 483c2a1adf044ba1da844687b908c1c802060d2d
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 11 22:02:09 2015 -0800

hw/kdrive: Use NotifyFd for kdrive input devices

This switches the kdrive code to use FD notification for input
devices, rather than the block and wakeup handlers.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 21c1680e83865a52d88cf8ec80fb236d212931e5c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 11 22:02:08 2015 -0800

hw/kdrive: Use NotifyFd interface for kdrive/linux APM monitoring

Replace the block/wakeup handlers with a NotifyFd callback
config: Use NotifyFd interface for udev

This uses the NotifyFd interface to monitor the udev file descriptor rather than adding another block/wakeup handler.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

config: Use NotifyFd for dbus interface

This uses the NotifyFd interface to monitor the dbus socket rather than a block/wakeup handler.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

dix: Move InitFonts up above screen initialization

Font initialization was split into two stages, the first was to set up font privates with a call to ResetFontPrivateIndex, then much later the call to InitFonts to set up all of the FPEs. Doing the full font initialization before initializing the video drivers means that we can move the call to ResetFontPrivateIndex inside InitFonts.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

os: Implement support for NotifyFd X_NOTIFY_WRITE
This adds the ability to be notified when a file descriptor is available for writing.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0c41b7af4ab0c8d22b88f201293f59524d1e7317
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 11 22:02:02 2015 -0800

os: Add NotifyFd interfaces

This provides a callback-based interface to monitor file descriptors beyond the usual client and device interfaces.

Modules within the server using file descriptors for reading and/or writing can call

    Bool SetNotifyFd(int fd, NotifyFdProcPtr notify_fd, int mask, void *data);

mask can be any combination of X_NOTIFY_READ and X_NOTIFY_WRITE.

When 'fd' becomes readable or writable, the notify_fd function will be called with the 'fd', the ready conditions and 'data' values as arguments.

When the module no longer needs to monitor the fd, it will call

    void RemoveNotifyFd(int fd);

RemoveNotifyFd may be called from the notify function.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e10ba9e4b52269b2ac75c4802dce4ca47d169657
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 11 22:02:01 2015 -0800

Remove non-smart scheduler. Don't require setitimer.

This allows the server to call GetTimeInMillis() after each request is processed to avoid needing setitimer. -dumbSched now turns off the setitimer.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c7f4ae68f45e500c900d59f68c653477148907ea
Author: agoins <agoins@nvidia.com>
Date: Wed Nov 25 18:39:31 2015 -0800

randr: Cleanup rrSetupPixmapSharing()

protopix is completely redundant with mscreenpix. Get rid of it.

We don't need rrScrPriv, so remove it.

[ajax: also squash an unused variable in RRCrtcDetachScanoutPixmap, though it'll come back when the rest of this series lands]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit 8d3f0e964e399dfca8eb5e85d405217f6c5d9c4d
Author: agoins <agoins@nvidia.com>
Date: Wed Nov 25 18:39:27 2015 -0800

xf86: Bump ABI version to 21

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit 7006b4e7f759c89d5391d7d12db889c69b535
Author: agoins <agoins@nvidia.com>
Date: Wed Nov 25 18:39:26 2015 -0800

randr: Factor out shared pixmap creation

The old version of rrCreateSharedPixmap(), in addition to actually creating a shared pixmap with scanout, also set up pixmap tracking on the source driver.

I will be needing to create multiple shared pixmaps for PRIME double buffering, so factor the part that does shared pixmap creation into its own function, the new rrCreateSharedPixmap(). Rename the old rrCreateSharedPixmap() to rrSetupPixmapSharing(), a function that replicates the old functionality of rrCreateSharedPixmap() using the new rrCreateSharedPixmap().

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit cf5d6414e0c21140f763d618bde1e91ad2b1cb49
Author: agoins <agoins@nvidia.com>
Date: Wed Nov 25 18:39:25 2015 -0800
randr: Factor out shared pixmap destruction

Shared pixmap destruction is done by unrefing the master pixmap twice: once for the original reference, and once for the reference implicitly added by `PixmapShareToSlave`. Then, unrefing the slave pixmap once.

When I add PRIME double buffering and synchronization, I will need to do this in multiple places. To avoid duplication of code and comments explaining it everywhere, factor it out into its own function and use that in place of where it was before.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alex Goins <agoins@nvidia.com>

commit ab9837cc6a11f46b9df780f131b69de3822c3dd9
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Dec 1 17:16:03 2015 +0100

xwayland: Update screen size on output removal

When unplugging an output, it's still listed in `xrandr` and the size of the root window still includes the removed output.

The RR output should be destroyed when its Wayland counterpart is destroyed and the screen dimensions must be updated in both the done and the destroy handlers.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=92914
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Marek Chalupa <mchqwerty@gmail.com>

commit 07941a50a547f2ca094e242588298695f48903ed
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Wed Oct 7 12:01:53 2015 +0800

xwayland: Always update the `wl_pointer` cursor on pointer focus

In Wayland, a client (in this case XWayland) should set the cursor surface when it receives pointer focus. Not doing this will leave the cursor at whatever it was previously.

When running on XWayland, the X server will not be the entity that controls what actual pointer cursor is displayed, and it won't be notified about the pointer cursor changes done by the Wayland compositor. This causes X11 clients running via XWayland to end up with incorrect pointer cursors because the X server believes that, if the cursor was previously set to the cursor C, if we receive Wayland pointer focus over window W which also has the pointer cursor C, we do not need to update it. This
will cause us to end up with the wrong cursor if cursor C was not the same one that was already set by the Wayland compositor.

This patch works around this by, when receiving pointer focus, getting the private mipointer struct changing the "current sprite" pointer to an invalid cursor in order to trigger the update path next time a cursor is displayed by dix.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jonas Ådahl <jadahl@gmail.com>

commit 51a4399b94f9adfac5f7718d4cbf73f793dcca56
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Mon Nov 23 08:51:48 2015 +0100

xwayland: Do not set root clip when rootless

Otherwise the server may try to draw onto the root window when closing down, but when running rootless the root window has no storage thus causing a memory corruption.

Thanks to Adam Jackson <ajax@redhat.com> for helping tracking this down!

Reviewed-by: Adam Jackson <ajax@redhat.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=93045
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Marek Chalupa <mchqwerty@gmail.com>

commit 5b2ca3413203210d112a08a4e20d14382abae437
Author: Marek Chalupa <mchqwerty@gmail.com>
Date: Fri Nov 27 14:27:46 2015 +0100

xwayland: check if creating xwl_output succeeded

check return values of RR.*Create calls

v2. do not bail out if we don't have any output

Signed-off-by: Marek Chalupa <mchqwerty@gmail.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit 646ebeca456b4e5251ae997eab8d9b971f97de836
Author: Marek Chalupa <mchqwerty@gmail.com>
Date: Fri Nov 27 14:59:27 2015 +0100

xwayland: fix memory leaks on error paths in xwl_realize_window

don't leak memory when realizing window fails
v2. take care of all memory allocation and return values, not just one leak

Signed-off-by: Marek Chalupa <mchqwerty@gmail.com>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit e6b106715f24112d1dc7a84c6e37df4b5debb2d0
Author: Richard PALO <richard@NetBSD.org>
Date: Tue Nov 17 07:02:07 2015 +0100

Replace 'sun' with ' __sun'

Globally replace #ifdef and #if defined usage of 'sun' with ' __sun' such that strict ISO compiler modes such as -ansi or -std=c99 can be used.

Signed-off-by: Richard PALO <richard@NetBSD.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 44d0fd435a4eaf45e252b4f00409152a6d599dfc
Author: Egbert Eich <eich@suse.de>
Date: Tue Nov 24 17:37:36 2015 +0100

kdrive/UnregisterFd: Fix off by one

The number of FDs has been decremented already, therefore the number contained the index of the top one that is to me moved down.

This problem was introduced by:
commit 1110b71e360195aab040d835b54540ab558638c5
Author: Chris Clayton <chris2553@googlemail.com>

kdrive: fix build error on gcc 4.8 for out-of-bounds array access

The reason for the warning was likely a confused compiler. Hoping to reduce the confusion by moving the decrement behind the end if the copy loop.

Signed-off-by: Egbert Eich <eich@suse.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eb36924ead40564325aa56d54a973dc8fb4eae83
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Nov 24 08:31:21 2015 -0500

dix: Remove redundant ChangeWindowProperty

Use dixChangeWindowProperty(serverClient, ...) instead.
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4affa75a90d2455c81087b930126ad7adfd019f0
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Nov 19 12:21:08 2015 -0500

xnest: Fix needless build dependency on xcb-util-keysym

This was added in:

  commit 43014795087a0a8774dd9687f5967329b15f06a2
  Author: Olivier Fourdan <ofourdan@redhat.com>
  Date: Mon Jan 5 16:44:22 2015 +0100

  Synchronize capslock in Xnest and Xephyr

  Which is fine if you're building both, but if you don't happen to have
  xcb-util-keysym's headers installed Xnest will configure as enabled but
  fail to build.

  Fortunately <X11/X.h> has a corresponding #define, so use that instead.

  Signed-off-by: Adam Jackson <ajax@redhat.com>
  Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

  commit fee0827a9a695600765f3d04376fc9babe497401
  Author: Daniel Stone <daniels@collabora.com>
  Date: Fri Nov 20 15:37:31 2015 +0000

  XWayland: Use FocusIn events for keyboard enter

  wl_keyboard::enter is the equivalent of FocusIn + KeymapNotify: it
  notifies us that the surface/window has now received the focus, and
  provides us a set of keys which are currently down.

  We should use these keys to update the current state, but not to send
  any events to clients.

  Signed-off-by: Daniel Stone <daniels@collabora.com>
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

  commit 816015648ffe660ddaa0f7d4d192e555b723c372
  Author: Daniel Stone <daniels@collabora.com>
  Date: Fri Nov 20 15:37:30 2015 +0000
Input: Add focus-in event source

Add a new event source type for keypress events synthesised from focus notifications (e.g. KeymapNotify from the parent server, when running nested). This is used to keep the keys-down array in sync with the host server's, without sending actual keypress events to clients.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c378394e9190130a8eed44c5c93eeb93c2a9893
Author: Daniel Stone <daniels@collabora.com>
Date: Fri Nov 20 15:37:29 2015 +0000

Input: Add DeviceEventSource enum

Add a flag to DeviceEvents, giving the source of the event. Currently this only supports a 'normal' flag, but will be used later to add a 'focus-in' flag, noting events synthesised from key/button arrays on focus-in notifications.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2e61901e46d28ce2f436219ad1a495aa0dcd0fba
Author: Daniel Stone <daniels@collabora.com>
Date: Fri Nov 20 15:37:28 2015 +0000

XKB: Split filter execution into a separate function

Move the giant state machine which maps from a key action to actually running the filters into a separate function, to be used when adding KeyFocusIn.

Signed-off-by: Daniel Stone <daniels@collabora.com>
Tested-by: Giulio Camuffo <giuliocamuffo@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 71ba82690158f46d50a455e69a83ee0d685bb274
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Nov 23 07:59:24 2015 +1000

xfree86: fix minor memory leak

xf86*StrOption returns a strdup
glamor: Delay making pixmaps shareable until we need to.

If a pixmap isn't getting exported as a dmabuf, then we don't need to make an EGLImage/GBM bo for it. This should reduce normal pixmap allocation overhead, and also lets the driver choose non-scanout formats which may be much higher performance.

On Raspberry Pi, where scanout isn't usable as a texture source, this improves x11perf -copypixwin100 from about 4300/sec to 5780/sec under xcompmgr -a, because we no longer need to upload our x11perf window to a tiled temporary in order to render it to the screen.

v2: Just use pixmap->usage_hint instead of a new field. Drop the changes that started storing gbm_bos in the pixmap priv due to lifetime issues.
v3: Fix a missing gbm_bo_destroy() on the pixmap-from-fd success path.

glamor: Make glamor_get_name_from_bo static.

This GBM import path was introduced in 10.2, which we already require.
commit 1b8f16d8e659fb483453e1123a9fa876adb758ff
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jun 18 11:21:10 2015 -0700

glamor: Use real types for glamor_egl's public gbm functions.

I think void * was just used to avoid needing to #include gbm.h, but we can just forward-declare the structs and be fine.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit f8075bf32a7b922baf8fbf3ac6d8e9aae5fea1c4
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jun 18 11:15:40 2015 -0700

glamor: Use the GBM function for getting an FD from a GBM BO.

We were rolling ioctl calls ourselves, when there's a nice interface for it.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit ff2850424c99652506d0d6bc43506b4c16bf2ad5
Author: Eric Anholt <eric@anholt.net>
Date: Sun Oct 18 19:26:14 2015 -0700

glamor: Hook up EGL DestroyPixmap through the normal wrap chain.

One less layering violation (EGL should call glamor, if anything, not the other way around).

v2: Move glamor.c's DestroyPixmap wrapping up above the glamor_egl_screen_init() call, since glamor.c's DestroyPixmap needs to be the bottom of the stack (it calls fb directly and doesn't wrap). Caught by Michel.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit e91fd30049ba9ebf6ee8aded74ebee006af3f57
Author: Eric Anholt <eric@anholt.net>
Date: Sun Oct 18 21:34:45 2015 -0700

glamor: Unexport glamor_destroy_textured_pixmap().

This is just a bit of the DestroyPixmap chain.
glamor: Remove glamor_egl_destroy_textured_pixmap().

The DestroyPixmap chain and CloseScreen chain all do pixmap teardown already, and calling it manually would be redundant.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 3dd202933fd94615aeaeec7e4cfd05a68954a3f3
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Oct 18 21:28:19 2015 -0700

glamor: No need to glFlush before destroying a pixmap.

I assume this was a workaround for an old, broken, closed driver. The
driver doesn't get to throw away rendering just because the rendering
context's shared-across-processes render target is getting freed from
the local address space. If the rendering isn't to a shared render
target, then we *do* want to throw away the rendering to it.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 9a5972801f7789833062e5711e77483b643ee92
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Nov 5 16:35:56 2015 -0800
glamor: Fix segfault in fallback picture uploading.

If the source/mask pixmap is a pixmap that doesn't have an FBO attached, and it doesn't match the Render operation's size, then we'll composite it to a CPU temporary (not sure why). We would take the PictFormatShort from the source Picture, make a pixmap of that depth, and try to look up the PictFormat description from the depth and the PictFormatShort. However, the screen's PictFormats are only attached to the screen's visuals' depths. So, with an x2r10g10b10 short format (depth 30), we wouldn't find the screen's PictFormat for it (associated with depth 32).

Instead of trying to look up from the screen, just use the pFormat that came from our source picture. The only time we need to look up a PictFormat when we're doing non-shader gradients, which we put in a8r8g8b8.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit e7aa4d3c7420d45cca2b7e1e69e22cebe64d5b74
Author: Eric Anholt <eric@anholt.net>
Date: Thu Nov 5 16:03:14 2015 -0800

glamor: Fix assert failures when fallback picture upload alloc fails.

If the glTexImage (or glTexSubImage) out-of-memories, error out cleanly so that we can fall back to software.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit ff8ef975d9cd99ec6f0b88b8047445091bf35ef0
Author: Eric Anholt <eric@anholt.net>
Date: Thu Nov 5 15:13:55 2015 -0800

glamor: Fix rendering when core font texture allocation fails.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit a6b05d10da2fe476f46e6dc4ad8a603964735905
Author: Eric Anholt <eric@anholt.net>
Date: Thu Nov 5 15:05:11 2015 -0800

glamor: Fix crashes when the glyph atlas allocation fails.

We already have a fallback path, so we just need to jump to it when we
hit the failure.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit de959ec939b262cb1cb40b6146826e3092843f9
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Nov 5 14:47:42 2015 -0800

glamor: Handle GL_OUT_OF_MEMORY when allocating texture images.

The spec allows general undefined behavior when GL_OOM is thrown. But
if the driver happens to throw the error at this point, it probably
means the pixmap was just too big, so we should delete that texture
and have this pixmap fall back to software.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 74be466d40080545117628c376cb59b696db33bc
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Nov 9 15:47:05 2015 -0800

glamor: Avoid GL errors from mapping with size == 0.

GL 4.5 / GLES 3.0 require throwing GL errors at map time, and Mesa
before that might throw errors accidentally if a malloc(0) call was
made to return the mapping.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Rob Clark <robdclark@gmail.com>

commit a6cddb8c04ddc3c48aae3f3611ad9f336feeb09d
Author: Michael Stapelberg <stapelberg@google.com>
Date:   Tue Nov 3 03:51:48 2015 -0800

Also dump passive grabs on XF86LogGrabInfo

Signed-off-by: Michael Stapelberg <stapelberg@google.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f2ceb683c2da1ec08c8e07d7ec146f14864f2386
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 9 16:22:12 2015 -0500

Post-release version bump for 1.19
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 43fb888bd01cf9d3d277e77a52a3d0c93ccff8bd
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 9 16:00:26 2015 -0500

xserver 1.18.0

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2203735887ab548b3ee004400d1b89149aae412c
Author: Axel Davy <axel.davy@ens.fr>
Date: Wed Nov 4 18:42:42 2015 +0100

present: Fix Async swap logic

According to the spec, PresentOptionAsync should only trigger a different behaviour when the target msc has been reached.

In this case if the driver is able to do async swaps, we use them to avoid a screen copy.

When the target msc hasn't been reached yet, we want to use sync swaps.

v2: Fix indentation and simplify checks for Async flips

Signed-off-by: Axel Davy <axel.davy@ens.fr>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 3f35909acba117de8934920d788c7ce612bce444
Author: Jammy Zhou <Jammy.Zhou@amd.com>
Date: Wed Oct 28 18:39:10 2015 +0800

present: Execute right away if target_msc equals current_msc

It is according to the protocol:

"If 'options' contains PresentOptionAsync, and the 'target-msc' is less than or equal to the current msc for 'window', then the operation will be performed as soon as possible, not necessarily waiting for the next vertical blank interval."

Signed-off-by: Jammy Zhou <Jammy.Zhou@amd.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Axel Davy <axel.davy@ens.fr>

commit 7d1e4783853f9830344d101ceab087feb19995be
Author: Daniel Martin <consume.noise@gmail.com>
modesetting: Remove XF86_CRTC_VERSION checks

The ifdef checks for XF86_CRTC_VERSION >= 3/5 are remnants from the out-of-tree driver. Within the tree, we can rely on:

    xf86Crtc.h:#define XF86_CRTC_VERSION 6

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Emil Velikov <emil1.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 45c83a266d18eb515313aa3f1a4d7ff6af53be5d
Author: Daniel Martin <consume.noise@gmail.com>
Date: Thu Oct 29 14:58:10 2015 +0100

modesetting: Free output_ids in drmmode_set_mode_major()

We calloc() output_ids. Let's free() it, too.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Emil Velikov <emil1.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 2674d424020bd71d4f99b8d8de8b0b21aa490d54
Author: Daniel Martin <consume.noise@gmail.com>
Date: Thu Oct 29 14:58:09 2015 +0100

modesetting: Handle failures in setting a CRTC to a DRM mode properly

This fixes a bug where running the card out of PPLL's when hotplugging another monitor would result in all of the displays going blank and failing to work properly until X was restarted or the user switched to another VT.

[Michel Dänzer: Pass errno instead of -ret to strerror()]
[Daniel Martin: Add \n to log message]

Picked from xf86-video-ati
    7186a87 Handle failures in setting a CRTC to a DRM mode properly

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Emil Velikov <emil1.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 250666586e2b6f3ed1371340452dc2be2d094d40
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 29 10:08:17 2015 -0400
vidmode: Drop the unused event code

As the code says, this is "far from complete". So far, in fact, that it's been basically untouched for twenty years (XFree86 3.1!). As far as I can tell it was never enabled in any XFree86 build, and certainly has never been enabled since Xorg 7.0.

Also, K&R.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 478efe285a440c33b053bd0bfbfdd482f429f01
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Oct 27 19:44:28 2015 -0700

Xserver.man: document more transports for -nolisten & -listen options

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 8fc295bde9a736f3c8c047031a6698d140d5266f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Oct 27 19:44:27 2015 -0700

Xorg.man: update to reflect -nolisten tcp becoming default

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 75157b7dbf4ed4db0492328a44e4e67dda83f769
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Oct 27 19:44:26 2015 -0700

Xorg.man: move XLOCAL details to X(7) man page instead

These settings affect clients, not server, so belong there, next to the information about how to set $DISPLAY.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 50c167164700e8ead9b7ccf9f9eafc7541baac75
Author: Martin Peres <martin.peres@linux.intel.com>
Date:   Mon Jul 20 10:37:30 2015 +0300

os: make sure the clientsWritable fd_set is initialized before use
In $\text{WaitForSomething()}$, the $\text{fd\_set\ clients\Writable}$ may be used uninitialized when the boolean $\text{AnyClientsWriteBlocked}$ is set in the $\text{WakeupHandler()}$. This leads to a crash in $\text{FlushAllOutput()}$ after x11proto's commit 2c94cdbe453be641246cc8b9a876da9799bee1ce7.

The problem did not manifest before because both the $\text{XFD\_SIZE}$ and the maximum number of clients were set to 256. As the $\text{connection\Translation\table}$ was initialized for the 256 clients to 0, the test on the index not being 0 was aborting before dereferencing the client #0.

As of commit 2c94cdbe453be641246cc8b9a876da9799bee1ce7 in x11proto, the $\text{XFD\_SIZE}$ got bumped to 512. This lead the $\text{Output\Pending\ fd\_set}$ to have any fd above 256 to be uninitialized which in turns lead to reading an index after the end of the $\text{Connection\Translation\table}$. This index would then be used to find the client corresponding to the fd marked as pending writes and would also result to an out-of-bound access which would usually be the fatal one.

Fix this by zeroing the $\text{clients\Writable\ fd\_set}$ at the beginning of $\text{WaitForSomething()}$. In this case, the bottom part of the loop, which would indirectly call $\text{FlushAllOutput}$, will not do any work but the next call to select will result in the execution of the right codepath. This is exactly what we want because we need to know the writable clients before handling them. In the end, it also makes sure that the fds above $\text{MaxClient}$ are initialized, preventing the crash in $\text{FlushAllOutput()}$.

Thanks to everyone involved in tracking this one down!

Reported-by: Karol Herbst <freedesktop@karolherbst.de>
Reported-by: Tobias Klausmann <tobias.klausmann@mni.thm.de>
Signed-off-by: Martin Peres <martin.peres@linux.intel.com>
Tested-by: Tobias Klausmann <tobias.klausmann@mni.thm.de>
Tested-by: Martin Peres <martin.peres@linux.intel.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=91316
Cc: Ilia Mirkin <imirkin@alum.mit.edu>
Cc: Olivier Fourdan <ofourdan@redhat.com>
Cc: Adam Jackson <ajax@redhat.com>
Cc: Alan Coopersmith <alan.coopersmith@oracle.com>
Cc: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit bb78c464609f155db157182a458b12b63e3b52d7
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 27 13:28:37 2015 -0400

build: Remove stale miext/cw include paths
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 524844c8c18e226aad30feb371b19ef491d83449
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Oct 27 13:23:13 2015 +0100

Xext: fix build with --disable-xace

Regression from 990cf5b2828f73dc7a07f1e38f608af39acfd81d

Signed-off-by: Julien Cristau <jcristau@debian.org>
Cc: Andrew Eikum <aeikum@codeweavers.com>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Andrew Eikum <aeikum@codeweavers.com>

commit ac2f27f1a9fa8cd88c5dbe7e0f96238eeef2c3e
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Oct 27 11:51:49 2015 +0900

DRI2: Sync radeonsi_pci_ids.h from Mesa

Fixes DRI2 client driver name mapping for newer AMD GPUs with the modesetting driver, allowing the DRI2 extension to initialize.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit d8b7a900cf912cadb5915b3924dd6ce5a74505e7
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 26 13:47:04 2015 -0400

xserver 1.17.99.902 (1.18 RC2)

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47b00fa4bf3b67736957296492310f7fd6e0a25
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 21 12:15:34 2015 -0400

xfree86: Use same inb/outb asm code for i386 amd64 and ia64

This matches the GCCUSESGAS path from the old monolith build (where that macro was actually set), and fixes the build on modern OSX.

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
xf86: don't add gpus from udev if autoAddGPU is set

At startup the server wasn't adding devices, but nothing was blocking hotplug devices by the look of it.

bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=91388
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

Xv: Only stop the adaptors when the Pixmap is finally destroyed

Pixmaps are reference counted and DestroyPixmap is called for the removal of every reference. However, we only want to stop the adaptors writing into the Pixmap just before the Pixmap is finally destroyed, similar to how Windows are handled.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Ville Syrjälä <ville.syrjala@linux.intel.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@linux.intel.com>

present: Fix missed notify MSC computation

Only treat divisor==0 as async to immediately report the actual vblank. If the user species a non-zero divisor, we should compute the missed vblank properly or else we report too early.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Mario Kleiner <mario.kleiner.de@gmail.com>

randr: make RROutputChanged change the main protocol screen not the gpu screen

We only set changes on the main protocol screen as, for example
in RRSetChanged() and RRTellChanged(), therefore we should follow the same logic when reporting that an output changed in RROutputChanged().

This means that RRTellChanged() will then update the relevant timestamps also when events come from gpu screens.

[ajax: Fix mixed code and decls]

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Alberto Milone <alberto.milone@canonical.com>

commit 2092f12a243b9f7682f542b593b77c96d455ec89
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Oct 21 11:36:06 2015 +0200

linux: Do not call FatalError from xf86CloseConsole

FatalError ends up calling xf86CloseConsole itself, so calling FatalError from within xf86CloseConsole is not a good idea.

Make switch_to log errors using xf86Msg(X_WARNING, ...) and return success (or failure).

This makes switch_to match the other error checking done in xf86CloseConsole which all logs warnings and continues.

Add checking of the return value in xf86OpenConsole and call FatalError there when switch_to fails, to preserve the error-handling behavior of xf86OpenConsole.

BugLink: https://bugzilla.redhat.com/show_bug.cgi?id=1269210
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit ee06f674bbcd796324d6daf69bfb5d8856e94008
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Oct 15 22:28:49 2015 -0700

Xi: Silence some tautological warnings

xichangehierarchy.c:424:23: warning: comparison of constant 536870911 with expression of type 'uint16_t' (aka 'unsigned short') is always false [-Wtautological-constant-out-of-range-compare,Semantic Issue]
  if (stuff->length > (INT_MAX >> 2))
  ~~~~~~~~~~~~~~ ^ ~~~~~~~~~~~~~~~

xichangehierarchy.c:438:26: warning: comparison of constant 536870911 with expression of type 'uint16_t' (aka 'unsigned short') is always false [-Wtautological-constant-out-of-range-compare,Semantic Issue]
  if ((any->length > (INT_MAX >> 2)) || (len < (any->length << 2)))
hurd: fix xorg-wrapper build

hurd does not have any PATH_MAX limitation. misc.h provides a default value which is fine here.

fonts: Continue when font calls return Suspended more than once

Patch 3ab6cd31ebd8095b2948034fcej5b645422d8da fixed Xinerama interactions with font servers by not putting clients to sleep multiple times. However, it introduced additional changes dealing with libXfont routine returning Suspended more than once for the same request. This additional change was to abandon processing of the current request and free the closure data by jumping to 'xinerama_sleep' in each of the functions.

Font library functions shouldn't return Suspended more than once, except for ListFontsWithInfo, which produces multiple replies, and thus ends up returning Suspended many times during processing.

With the jump to xinerama_sleep occurring after the first reply was processed, the closure for the request was freed and future calls into the ListFontsWithInfo callback resulted in dereferencing freed memory.

This patch removes the added branches, reverting the code to its previous behaviour, which permitted multiple Suspended returns and simply waited for the client to be signaled again so that the callback could continue processing the request.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

33498

commit 5b582a4a0350c253d729efb31b710851ae9a958e
Merge: 1d4a67242 27ad21254f
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Oct 19 12:23:22 2015 -0400

Merge remote-tracking branch 'jeremyhu/master'

commit 1d4a672424d8b1629fda11400b88607b5066965
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Oct 19 15:42:30 2015 +0200

xorg-wrapper: when starting the server as root, reset its environment

When the server is privileged, we shouldn't be passing the user's environment directly.

Clearing the environment is recommended by the libdbus maintainers, see https://bugs.freedesktop.org/show_bug.cgi?id=52202

v2: rename envp to empty_envp (Jeremy)
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=83849
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 08c4912406b965bbac0a3a52413c374a073c051b
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Mon Oct 19 14:47:43 2015 +0200

xorg-wrapper: fix build without libdrm

Signed-off-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit a4cd8ee5f8e8de776c7f764656770311cdbde0d2
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Mon Oct 19 14:47:42 2015 +0200

hurd: disable detecting drm

Signed-off-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 27ad21254f257bac6c647315d749ee69f20c24e0
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sun Oct 18 23:01:53 2015 -0700

XQuartz: Cleanup formatting of DarwinEQInit that was butchered by automation a few years ago
XQuartz: Make sure that darwin_all_modifier_mask_additions is 0-terminated

Found by ASan

X.Org X Server 1.17.99.901 Build Date: 20151018

================================================================
==40471==ERROR: AddressSanitizer: global-buffer-overflow on address 0x000101fed7a4 at pc 0x000101584030 bp 0x70000029f920 sp 0x70000029f918
READ of size 4 at 0x000101fed7a4 thread T7
  #0 0x010158402f in DarwinEQInit darwinEvents.c:377
  #1 0x10157f3bc in InitInput darwin.c:566
  #2 0x1011be87ad in dix_main main.c:268
  #3 0x10159131b in server_thread quartzStartup.c:66
  #4 0x7fff8a535c12 in _pthread_body (/usr/lib/system/libsystem_pthread.dylib+0x3c12)
  #5 0x7fff8a535b8f in _pthread_start (/usr/lib/system/libsystem_pthread.dylib+0x3b8f)
  #6 0x7fff8a533374 in thread_start (/usr/lib/system/libsystem_pthread.dylib+0x1374)

0x000101fed7a4 is located 0 bytes to the right of global variable 'darwin_all_modifier_mask_additions' defined in 'darwinEvents.c:181:12'
(0x101fed7a0) of size 4

SUMMARY: AddressSanitizer: global-buffer-overflow darwinEvents.c:377 DarwinEQInit
Shadow bytes around the buggy address:
 0x1000203fda0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fdab0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fdac0: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fda0: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fda1: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fda2: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fda3: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000203fda4: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
 0x1000203fda0: f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9 f9
Shadow byte legend (one shadow byte represents 8 application bytes):
  Addressable: 00
  Partially addressable: 01 02 03 04 05 06 07
  Heap left redzone: fa
  Heap right redzone: fb
  Freed heap region: fd
  Stack left redzone: f1
  Stack mid redzone: f2
Stack right redzone: f3
Stack partial redzone: f4
Stack after return: f5
Stack use after scope: f8
Global redzone: f9
Global init order: f6
Poisoned by user: f7
Container overflow: fc
Array cookie: ac
Intra object redzone: bb
ASan internal: fe
Left alloca redzone: ca
Right alloca redzone: cb
Thread T7 created by T0 here:
#0 0x10242ee99 in wrap_pthread_create
(/Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/lib/clang/7.0.0/lib/darwin/libclang_rt.asan_osx_dynamic.dylib+0x37e99)
  #1 0x101591089 in create_thread quartzStartup.c:78
  #2 0x101590ed9 in QuartzInitServer quartzStartup.c:95
  #3 0x1015697eb in X11ApplicationMain X11Application.m:1277
  #4 0x101575dc0 in X11ControllerMain X11Controller.m:984
  #5 0x10159171a in server_main quartzStartup.c:127
  #6 0x101540fc0 in do_start_x11_server bundle-main.c:436
  #7 0x101544869 in _Xstart_x11_server mach_startupServer.c:189
  #8 0x101545c96 in mach_startup_server mach_startupServer.c:398
  #9 0x7ff8d1b70f3 in mach_msg_server (/usr/lib/system/libsystem_kernel.dylib+0x110f3)
  #10 0x1015416e7 in main bundle-main.c:774
  #11 0x7ff8bd975ac in start (/usr/lib/system/libdyld.dylib+0x35ac)
  #12 0x0 (<unknown module>)

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ec6294116cc41ff1c3be081b626952fb7e614244
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 18 23:12:52 2015 -0700

osinit: Silence -Wunused-variable warnings

osinit.c:161:24: warning: unused variable 'devnull' [-Wunused-variable,Unused Entity Issue]
 static const char *devnull = "/dev/null";
 ^

osinit.c:162:10: warning: unused variable 'fname' [-Wunused-variable,Unused Entity Issue]
 char fname[PATH_MAX];
 ^

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
commit 0a5d54f721de7e3ab3b6f4b080190a92b6be3429b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 18 23:12:51 2015 -0700

dix: Silence -Wunused-variable warning by moving window.c off of legacy region defines

window.c:223:15: warning: unused variable 'pScreen' [-Wunused-variable,Unused Entity Issue]
  ScreenPtr pScreen = pWin->drawable.pScreen;
  ^

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit e09875701b980b8c4578fb310a922c9934c34eef
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 18 23:12:50 2015 -0700

glx: Fix header length error checking in __glXDisp_RenderLarge

glxcmds.c:2206:46: warning: comparison of unsigned expression < 0 is always false [-Wtautological-compare,Semantic Issue]
  if ((cmdlen = safe_pad(hdr->length)) < 0)
        ~~~~~~~~~

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 5dc415048e4091b18cd7d123ebeae8f95ed5a4f5
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 18 23:12:49 2015 -0700

randr: Silence -Wshift-negative-value warnings

rrtransform.c:199:23: warning: shifting a negative signed value is undefined [-Wshift-negative-value,Semantic Issue]
  rot_cos = F(-1);
  ^~~~~

rrtransform.c:114:14: note: expanded from macro 'F'
  ^~~~~~~~~
../render/picture.h:200:24: note: expanded from macro 'IntToxFixed'
    ^~~~~~~~~
/opt/X11/include/pixman-1/pixman.h:130:56: note: expanded from macro 'pixman_int_to_fixed'
     ^

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 9a2a05a9a7ba02921fa29844c4cad41243c41326
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Oct 14 15:13:42 2015 -0700

xdmcp: Declare XdmcpFatal __X_NORETURN

xdmcp.c:1404:1: warning: function 'XdmcpFatal' could be declared with attribute 'noret urn'
[-Wmissing-noreturn,Semantic Issue]

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit a7a00e4bd8153e0386c7e58d6b30a7a96f15fd6b0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Oct 14 15:13:39 2015 -0700

security: Silence some benign -Wformat warnings

XID may be either 'unsigned long' or 'unsigned int' depending on:

typedef unsigned long CARD64;
typedef unsigned int CARD32;
typedef unsigned long long CARD64;
typedef unsigned long CARD32;
typedef unsigned long XID;
typedef CARD32 XID;

so when building with -Wformat, we get some warnings that are benign. This silences them.

security.c:215:52: warning: format specifies type 'int' but the argument has type 'XID' (aka 'unsigned long')
[-Wformat,Format String Issue]
SecurityAudit("revoked authorization ID %d\n", pAuth->id);
  ^~~~~~~~~
%lu
CC  dpmsstubs.lo
security.c:553:25: warning: format specifies type 'int' but the argument has type 'XID' (aka 'unsigned long')
[-Wformat,Format String Issue]
client->index, pAuth->id, pAuth->trustLevel, pAuth->timeout,
  ^~~~~~~~~
security.c:553:55: warning: format specifies type 'int' but the argument has type 'CARD32' (aka 'unsigned long')
[-Wformat,Format String Issue]
client->index, pAuth->id, pAuth->trustLevel, pAuth->timeout,
  ^~~~~~~~~~~
security.c:554:10: warning: format specifies type 'int' but the argument has type 'XID' (aka 'unsigned long')
[-Wformat,Format String Issue]
pAuth->group, eventMask);
  ^~~~~~~~~
security.c:554:24: warning: format specifies type 'int' but the argument has type 'Mask' (aka 'unsigned long')
security.c:781:19: warning: format specifies type 'unsigned int' but the argument has type 'Mask' (aka 'unsigned long')

security.c:781:30: warning: format specifies type 'unsigned int' but the argument has type 'XID' (aka 'unsigned long')

security.c:863:23: warning: format specifies type 'unsigned int' but the argument has type 'XID' (aka 'unsigned long')

security.c:893:31: warning: format specifies type 'unsigned int' but the argument has type 'XID' (aka 'unsigned long')

security.c:915:39: warning: format specifies type 'unsigned int' but the argument has type 'XID' (aka 'unsigned long')

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit a73d587fece225753d8e6b8773a9c8b85823bd9
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Oct 14 15:13:38 2015 -0700

xres: Silence -Wunused-function warnings when building !COMPOSITE or !RENDER

xres.c:422:1: warning: unused function 'ResFindCompositeClientWindowPixmaps' [-Wunused-function,Unused Entity Issue]
ResFindCompositeClientWindowPixmaps (void *value, XID id, void *cdata)
^
xdmauth: Correct miscall of abs() to instead call labs()

xdmauth.c:230:13: warning: absolute value function 'abs' given an argument of type 'long' but has parameter of type 'int'
    which may cause truncation of value [-Wabsolute-value,Semantic Issue]
    if (abs(now - client->time) > TwentyFiveMinutes) {
    ^
    if (abs(now - client->time) > TwentyFiveMinutes) {
    ^~~
    labs

xdmauth.c:302:9: warning: absolute value function 'abs' given an argument of type 'long' but has parameter of type 'int' which
    may cause truncation of value [-Wabsolute-value,Semantic Issue]
    if (abs(client->time - now) > TwentyMinutes) {
    ^
xdmauth.c:302:9: note: use function 'labs' instead [Semantic Issue]
    if (abs(client->time - now) > TwentyMinutes) {
    ^~~
    labs

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 9f0fcd14b52f8481cbb3b3b9c6e06f64ff003cc8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Oct 14 15:13:35 2015 -0700

randr: Correct a miscall of abs() to instead call fabs()

rrtransform.c:124:22: warning: using integer absolute value function 'abs' when argument is of floating point type [-Wabsolute-value,Semantic Issue]
    if ((v = abs(f_transform->m[j][i]) > max)
    ^
    if ((v = abs(f_transform->m[j][i]) > max)
    ^~~
    fabs

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 610dd8a58a75bb6a5b7d7abbae476d1cc4be519e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Oct 14 15:13:34 2015 -0700
mi: Correct a miscall of abs() to instead call fabs()

miarc.c:1714:9: warning: using integer absolute value function 'abs' when argument is of floating point type [-Wabsolute-value, Semantic Issue]
  if (abs(parc->angle2) >= 360.0)
  ^

miarc.c:1714:9: note: use function 'fabs' instead [Semantic Issue]
  if (abs(parc->angle2) >= 360.0)
  ^~~
  fabs

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 4513f924a7065edbd267cf96837af94ce5a58af6f
Author: Ken Thomases <ken@codeweavers.com>
Date:   Mon Oct 12 16:45:41 2015 -0700

XQuartz: Fix how we calculate the height of the OSX menu bar

+[NSScreen mainScreen] does not mean the primary display. It used to mean the one with the key window. When "Displays have separate spaces" is enabled, it means the active screen, the one whose menu bar is mostly opaque. As such, it may not be the screen whose lower-left corner is located at (0, 0). That's why its max-Y is not necessarily comparable to its height. That only works for the primary display.

This code could use [[NSScreen screens] firstObject]. This is always the primary display, the one whose lower-left corner is at (0, 0).

Once that's done, the above change should be reverted. The height of the visible frame would be the full height of the screen minus the menu bar _and_ the Dock _if_ the Dock is along the bottom of the screen.

Actually, there's a theoretically-simpler approach: use -[NSMenu menuBarHeight]. That replaces a long-deprecated method +[NSMenuView menuBarHeight]. However, there was a bug in Tiger that led to the former not working while the latter still worked. I haven't actually checked recently.

CrossOver's still-kicking X server code uses this code, which tries all of the above:

```
NSScreen* primaryScreen = [[NSScreen screens] objectAtIndex:0];
aquaMenuBarHeight = [[NSApp mainMenu] menuBarHeight];
if (!aquaMenuBarHeight) aquaMenuBarHeight = [NSMenuView menuBarHeight];
```
if (!aquaMenuBarHeight) aquaMenuBarHeight =
NSHeight([primaryScreen frame]) - NSMaxY([primaryScreen visibleFrame]);

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Ken Thomases <ken@codeweavers.com>

commit 6e6827aac33eddeacfb37ef3d7b0397b1446bf66
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Oct 12 02:06:10 2015 -0700
XQuartz: Remove InfoPlist.strings

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit df80c2649aa47957986554928e6bf41b86c15240
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Oct 12 02:04:11 2015 -0700
XQuartz: Relax App Transport Security for communicating with the update server

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 880d4e78b1823bc0e66e68270af1a475f097bb5
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Wed Oct 7 12:02:39 2015 +0800
xwayland: Set physical screen size to something

When we have a single output, just set it to the physical size of that
output. Otherwise try to approximate it calculating a mean m.m. per
dot. Last fallback is to default to 96 DPI.

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 216bdbc7351e2078d94857a3323f6cd8f0d2f191
Author: Jonas Ådahl <jadahl@gmail.com>
Date:   Wed Oct 7 12:02:38 2015 +0800
xwayland: Update actual screen and root window size on output hot plug

When a new output is hot-plugged we need to not only update our internal
screen dimensions, but also the dix screen dimensions, screenInfo
dimensions and the root window dimensions.

https://bugs.freedesktop.org/show_bug.cgi?id=92273

Signed-off-by: Jonas Ådahl <jadahl@gmail.com>
render: Propagate allocation failure from createSourcePicture()

All the callers were already checking for failure, except that createSourcePicture() itself was failing to check whether it successfully allocated the Picture.

[ajax: Rebase, fix line wrap of preceding line]

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 8a26a4af570744347a8bed19f693bf631be464e
Author: Alexandr Shadchin <alexandr.shadchin@gmail.com>
Date:   Sun Nov 27 02:49:02 2011 +0600

bsd: Remove LINKKIT

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>

commit ab3e34bf99dfff90261ffbe0e2604887459cd70ad
Author: Alexandr Shadchin <alexandr.shadchin@gmail.com>
Date:   Sun Nov 27 02:49:01 2011 +0600

xfree86: Remove 386BSD

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>

commit c877048c8509a03f6aa69e533ab86c1039cfb6df
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 30 15:30:40 2011 +0100

glx: Synchronize Xserver glx/rensize.c with mesa src/glx/compsize.c

noticed while investigating https://bugs.freedesktop.org/show_bug.cgi?id=30102

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit d08ac3660651c8614a1780750b76c48e8b0870b7
Author: Jamey Sharp <jamey@minilop.net>
Date: Thu May 12 15:21:52 2011 -0700

kdrive: Delete unused TOUCHSCREEN define.

There's nothing in configure to enable this, and KdTsPhyScreen isn't defined anywhere.

[ajax: Rebase, also clean up Xfbdev]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jamey Sharp <jamey@minilop.net>

commit e31fe8115ee080b58b2e96a5106f38e64944ce5e
Author: Olivier Fourdan <ofourdan@redhat.com>
Date: Wed Sep 23 15:35:58 2015 +0200

xwayland: Adjust screen size with rotation

bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=92076
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Tested-by: Artem Chudinov <arzeth0@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit f6cc23f9bfe8804204fa103f98b9447387b94040
Author: Fredrik Höglund <fredrik@kde.org>
Date: Thu Sep 10 23:33:20 2015 +0200

present: Don't stash the MSC value when present_get_ust_msc fails

Otherwise we stash an uninitialized value, and later use it to compute
the msc_offset for the window. Also initialize ust and crtc_msc so we
never use uninitialized values when present_get_ust_msc fails.

This fixes clients getting stuck waiting indefinitely for an idle
event when a CRTC is turned off.

Reviewed-by: Fredrik Höglund <fredrik@kde.org>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit c1f5f9022f31ca4d662cc125fa80cb25386da6d1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Sep 27 18:41:35 2015 -0700

glamor: Get rid of an extraneous ; at the end of a C source line

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
xwayland-input: Always set the xkb group index on modifiers events

While we have keyboard focus, the server’s xkb code is already locking and latching modifiers appropriately while processing keyboard events.

Since there is no guaranteed order between wl_keyboard key and modifiers events, if we got the modifiers event with a locked or latched modifier and then process the key press event for that modifier we would wrongly unlock/unlatch. To prevent this, we ignore locked and latched modifiers while any of our surfaces has keyboard focus.

But we always need to set the xkb group index since this might be triggered programatically by the wayland compositor at any time.

Reviewed-by: Daniel Stone <daniels@collabora.com>

xkb: Keyboard mouse button emulation should not suppress other keyboard events

With this change, when a key mapped to an action to emulate mouse button presses and releases is held down, other keys pressed during that time are still processed normally. This is a prerequisite for proper support of ISOLock.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xkb: Suppress autorepeat for Set and Lock of Mods, Groups, and Controls

The autorepeat for these actions was not correctly implemented, as the key repeat would be mistakenly interpreted as key releases. Rather than fixing this, this change simply disables autorepeat for Set/Lock actions, for two reasons:
- Autorepeating Set/Lock keys make complicate the interactions of actions.

- Autorepeating Set/Lock keys have no apparent benefit, but hurt in the real world for layouts such as de(neo): Neo has a Level5 shift on the LSGT key, and a Level5 lock on Level5 of the same key. This is unusable if LSGT autorepeats. However, disabling autorepeat for key LSGT completely is not ideal for users that have a "usual" layout besides Neo, where LSGT carries symbols.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit fbac451724f7e1b8ce6b6e0505cc33ccd41c5158
Author: Arcady Goldmints-Orlov <arcadyg@nvidia.com>
Date:   Thu Oct 4 14:22:13 2012 -0700

Fix alphamap interactions with wfb

Set a destructor function on pixman images and call fbFinishAccess() from there, rather than directly from free_pixman_pict(). This ensures that fbFinishAccess() gets called even if pixman still has a reference to the image after free_pixman_pict(), as is the case for alphamaps.

[ajax: Squash an unused variable warning in the non-wfb build]

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Arcady Goldmints-Orlov <arcadyg@nvidia.com>
Reviewed-by: Søren Sandmann <ssp@redhat.com>

commit 19a87257f92e7f57a167fc03fba014ee22d8e1ab
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Fri Sep 25 14:04:34 2015 +0100

glamor: move 'dri3_capable' extension checks after eglMakeCurrent

Otherwise we'll fail and/or crash as no context is bound.

Fixes: 64e6124f27e (glamor: move GL_OES_EGL_image check next to EGL_EXT_image_dma_buf_import)
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=92105
Cc: Michel Dänzer <michel@daenzer.net>
Cc: Nick Sarnie <commendsarnex@gmail.com>
Reported-by: Nick Sarnie <commendsarnex@gmail.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Tested-by: Nick Sarnie <commendsarnex@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit dca5770af9e20bb1148374ebfd60931a81b148a2
Merge: a31bfc450a 21f384b7b8
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 25 10:23:28 2015 -0400

Merge remote-tracking branch 'mchalupa/output-bugs'

commit a31bb450a08622aad02c64b3e57e465eaceb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Sep 22 19:25:43 2015 -0700

protocol.txt: Add MIT-SHM 1.2 requests

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 424ba5de56e2ddf173bb0d26d821f12897f18f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Sep 22 19:25:42 2015 -0700

protocol.txt: Add DRI3 1.0 requests

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7e6b7c799455fdeac082cf2a064fe1ba432e92ca
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Sep 22 19:25:41 2015 -0700

protocol.txt: Add Present 1.0 requests

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit fd653194be731e4e32f95f38446e0dcfbf56d04c9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Sep 22 19:25:40 2015 -0700

protocol.txt: Add RANDR 1.5 requests

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 1ea8fb96bc6a95d98dd67fc9d4c4e4b858383d34
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Sep 22 19:25:39 2015 -0700

protocol.txt: Remove extensions that died before Xorg was born

Adobe-DPS-Extension, DEC-XTRAP, X3D-PEX, XIE
xwayland: do not add output into output_list multiple times

text: output.done event can be sent even on some property change, not only when announcing the output. Therefore we must check if we already have it otherwise we may corrupt the list by adding it multiple times.

This fixes bug when xwayland looped indefinitely in output.done handler and that can be reproduced following these steps (under X without multi-monitor setup):
1) run weston --output-count=2
2) run xterm, move it so that half is on one output and half on the other
3) close second output, try run weston-terminal

weston sends updated outputs which trigger this bug.

v2. factor out common code into function
move expecting_events into right branch

Signed-off-by: Marek Chalupa <mchqwerty@gmail.com>

commit 95014ad2a7815282efdecc895bf14742b4b3ccb3
Author: Dima Ryazanov <dima@gmail.com>
Date: Tue May 12 10:21:18 2015 -0700

xwayland: Remove the output from the list after destroying it

[Marek Chalupa]: rebased to master

Signed-off-by: Dima Ryazanov <dima@gmail.com>

commit 550984c95ef0bee1886dbb54e35edc0852772e2f
Author: Dima Ryazanov <dima@gmail.com>
Date: Fri May 15 22:38:28 2015 -0700

xwayland: Destroy xwl_output when wl_output gets removed

This makes Xwayland correctly handle a monitor getting unplugged.

[Marek]: use xorg_list_for_each_entry_safe
Signed-off-by: Dima Ryazanov <dima@gmail.com>
Signed-off-by: Marek Chalupa <mchqwerty@gmail.com>

commit 6ca496b7c3ccfd677c8c1bee88cc509a5e3c9e04
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Sep 21 22:36:41 2015 -0700

dri2: better checks for integer overflow in GetBuffers*

Check for integer overflow before using stuff->count in a multiplication, to avoid compiler optimizing out due to undefined behaviour, but only after we've checked to make sure stuff->count is in the range of the request we're parsing.

Reported-by: jes@posteo.de
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 6c2c6fb5a7b4f50811722eb8621af272aff2e8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 21 07:16:14 2015 +0100

Xext, os: Remove OS-internal usages within XACE and XSELinux

These extensions were accessing internal OS functions and structures. Expose the necessary functionality to them and remove their use of osdep.h

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9af111fe045d82192bacc722940e1d92a8ba4cb
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 21 07:16:13 2015 +0100

Xext/xselinux: Warning fixes

There's a 'const char *' adventure here that I'm mostly ignoring: some client information gets const poisoned. Worked around by adding a couple of casts. Ick.

Added an _X_ATTRIBUTE_PRINTF to SELinuxLog.

Ignore a couple of unused return values.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 9ee05c8987245350976ebc0df4953c60da6bcc70
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Aug 13 13:11:31 2015 +0100

debug output format fix in RRMonitorCrtcName()

xorg/xserver/randr/rrmonitor.c:35:5: error: format ‘%x’ expects argument of type ‘unsigned int’, but argument 3 has type ‘RRCrtc’ [-Werror=format=]

RRCrtc is XID is CARD32, which inside the server is unsigned long or int depending on architecture, so a cast is required.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit fe253296035277f7a3adfad6eb239fee41714d22
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Aug 13 13:11:37 2015 +0100

debug output format fix in xf86Helper.c

xserver/hw/xfree86/common/xf86Helper.c:1834:12: error: format ‘%ld’ expects argument of type ‘long int’, but argument 3 has type ‘Atom’ [-Werror=format=]
xserver/hw/xfree86/common/xf86Helper.c:1834:12: error: format ‘%ld’ expects argument of type ‘long int’, but argument 4 has type ‘Atom’ [-Werror=format=]

Atom is unfortunately unsigned long or unsigned int depending on the architecture, so a cast is required.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit dc2998bf060957b1fddd6bd2ea4f76c5154233a1b
Author: Dima Ryazanov <dima@gmail.com>
Date:   Tue May 12 10:21:19 2015 -0700

xwayland: Remove a useless out-of-memory check

snprintf does not allocate memory, so we can never get an out-of-memory error.

(Also, the error handler would free xwl_output after it was already registered as an event listener.)

Signed-off-by: Dima Ryazanov <dima@gmail.com>
Reviewed-by: Marek Chalupa <mchqwerty@gmail.com>
commit b469fc72d2dd0cf60760fa0828ed73771c2a0512
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 25 16:03:13 2015 -0500

composite: Factor out backing store transition

No functional change.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6da3f5d04f6a1cda0c858280f9561f9fbc323275
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Sep 23 11:19:00 2015 +1000

glx: fix regression with copy sub buffer disappearing

So copy sub buffer isn't a core extensions it's a driver extension which means we are using totally the wrong interface to query for it here, which means bad things happen when you roll out this code, for instance MESA_copy_sub_buffer stops working.

This is just the hack I'm sticking in Fedora to avoid the regression for now, but hopefully will inspire us.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5e9457c41c05b65da7e39bd8944ec761479f19dd
Author: Eric Anholt <eric@anholt.net>
Date:   Mon May 5 11:10:07 2014 -0700

fbdevhw: Fix a const qualifier warning

We're passing string literals to these functions.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 88355cedfc9b3940b9fe1599fbbf6e0272c57f8a9
Author: Eric Anholt <eric@anholt.net>
Date:   Mon May 5 11:10:08 2014 -0700

kdrive: Remove dead debug arrays.

These have never been used in the history of the tree, and were producing string literal const loss warnings.
x86emu: Fix some set-but-not-used warnings.

libxf86config: libxf86config_internal -> libxf86config

Now since the installable libxf86config is gone, rename libxf86config_internal to libxf86config.

The library used by the Xserver to read and parse the configuration file could be built so that it could be installed as a separate lib and used by external programs.

Apparently there has not been any interest in this for quite a while as this library has been broken for a long time now in the sense that it was calling functions provided by the Xserver which were not implemented for the external library.

Since this library is useless as it is anyway when built let's drop support for it.
render: Fix leak of filter params

```
==11097== 2,048 (+1,640) bytes in 32 (+26) blocks are definitely lost in loss record 1,570 of 1,719
==11097== at 0x4C2A2DB: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==11097== by 0x225EF3: SetPicturePictFilter (filter.c:339)
==11097== by 0x22DF4F: ProcRenderSetPictureFilter (render.c:1773)
==11097== by 0x15D25D: Dispatch (dispatch.c:432)
==11097== by 0x14C7B9: main (main.c:298)
```

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

```
commit 98e179071c6b06d64a5bc7418bf6ae6ae985a3ae
Author: Ville Syrjälä <ville.syrjala@linux.intel.com>
Date:   Mon Oct 14 17:07:29 2013 +0300

xfree86: Fix the 1792x1344-75 EST III mode

The correct refresh rate for this mode is 75, not 85.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ville Syrjälä <ville.syrjala@linux.intel.com>
```

commit 91c7acfc3447a0073dd1db260cf05115d94ce7e8
Author: Michal Srb <msrb@suse.com>
Date:   Mon Oct 7 17:57:14 2013 +0300

```
randr: Allow RRSelectInput for ProviderChange and ResourceChange events

[ajax: To be clear, we already have code to emit these events, and it
looks like it works, but to get them you'd have had to also ask for one
of the other notify types. This makes it possible to listen for e.g.
ProviderChange alone.]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michal Srb <msrb@suse.com>
```

commit 5437949a51fa6d9e9c83336d46ae57398f390ee3
Author: Egbert Eich <eich@freedesktop.org>
Date:   Sat Oct 5 13:57:13 2013 +0200

```
fbdevhw: Disable FBIOBLANK ioctl if not supported

Some ioctls may not be supported by the kernel however their failure
is non-fatal to the driver. Unfortunately we only know once we try
```
to execute the ioctl however the semantics of the fbdev driver API doesn't allow upper layers to disable the call.
Instead of changing the fbdevHW driver API just disable the call to this ioctl on the module level when detecting such a case.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Egbert Eich <eich@freedesktop.org>

commit 49fe4ee7b7085b616028d6afe67767a60a8adf82
Author: Matt Turner <mattst88@gmail.com>
Date: Thu Feb 7 17:29:00 2013 -0800

compiler.h: Remove dead STANDALONE_MMIO

The only drivers I can find that used this are the r128 and radeon DRI drivers. r128 is dead and the radeon driver wasn't including Xorg's compiler.h and still worked.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit d2a696247497843754120ebc1fcfb909d901d55
Author: Andy Ritger <aritger@nvidia.com>
Date: Wed Jun 20 11:52:34 2012 -0700

mi: Log an error if mieqProcessInputEvents() recurses.

v2:

Uses BUG_WARN_MSG to also provide a stack trace. (Peter Hutterer)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Andy Ritger <aritger@nvidia.com>

commit cc57ab44fc8b9dc15531f00dd9f5b352fa99a80cd0
Author: Andy Ritger <aritger@nvidia.com>
Date: Wed Jun 20 11:52:33 2012 -0700

Remove static qualifier on mieqProcessInputEvents()'s 'event'

This isn't necessary.

Signed-off-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 44ea291b78b39ed5fd03f9693ac9525b866e183b
Author: Tomas Carnecky <tomas.carnecky@gmail.com>
Date: Mon May 21 19:47:01 2012 +0000
Remove NO_LIBCWRAPPER define

I'll just refer to 1faa79 (Death to libcwrapper., 2007-12-03).

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Tomas Carnecky <tomas.carnecky@gmail.com>

commit 1e95a7df5f2e919ce59c5188d2ad1b30c3ac8595
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 15 13:46:56 2012 +1000

dix: put warning in for scroll increments of 0

If the increment is 0 but this is a scroll axis, it's definitely a bug. Nonetheless, it has happened, so put a warning in and a return statement that we avoid the infinite loop and hopefully be able to reproduce later.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 63efa2e7e91349dfecc849d30c5de84b3c911fe9
Author: Bryce Harrington <bryce@canonical.com>
Date:   Wed Nov 30 12:54:29 2011 -0800

test: Fix typo and drop documentation references to glib.

The X server doesn't use glib for the tests any more.

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4c7cefe24001279a558dd875949d40ede49ef702
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Oct 20 11:44:28 2011 +0100

exa: initialise mask_off_x and mask_off_y

These get used at the end of the function in a calculation, even though the result isn't used its not pretty.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 668cce3f5a175109442f0ef9b50354db95e66b44
dmx: fix typo in the title

[ajax: fix typo in the commit message]

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7ed0c3912e1cbab960df308b9d4ea618be757fd2
Author: Andrea Canciani <ranma42@gmail.com>
Date:   Wed Jul 27 10:52:31 2011 +0200

render: Allow single-stop gradients

The Render specification allows single-stop gradients and pixman 0.22 (X server requires >= 0.27.2 now) can rasterize them correctly.

[ajax: update commit message]

Signed-off-by: Andrea Canciani <ranma42@gmail.com>
Reviewed-by: Soren Sandmann <ssp@redhat.com>

commit 3d9f578e6f0d13ecada7dc677fe61a4dd3d05e18
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Jun 6 02:25:11 2011 +0200

doc: Convert an \IP pair into appropriate tags.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit d97ffe1ab95546634a74618ed2661cf6d6d980b1
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Jun 6 02:25:10 2011 +0200

doc: Try to avoid repetitions.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 2cce6fffc350d3840337a4d045d5cf14bb7bf2b32
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Jun 6 02:25:08 2011 +0200

doc: Fix punctuation.
Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit c7e3320098cad585d46f74d8a0c6946a080b0263
Author: Cyril Brulebois <kibi@debian.org>
Date: Mon Jun 6 02:25:07 2011 +0200

doc: Fix extraneous &gt;

It looks like it serves no special purpose.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 9b4f10d7490f6610a65d401958296ec95ce891c8b
Author: Cyril Brulebois <kibi@debian.org>
Date: Mon Jun 6 02:25:06 2011 +0200

doc: Fix grammar and typos.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 5b92a0a84a067b653cc457d8ec0fe5736a9d207
Author: Cyril Brulebois <kibi@debian.org>
Date: Mon Jun 6 02:25:05 2011 +0200

doc: Fix alignment.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 0b8fca667b45f0249a3dd9ee79d2a77a4177b24
Author: Cyril Brulebois <kibi@debian.org>
Date: Mon Jun 6 02:24:59 2011 +0200

doc: Fix typo.

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 1226f7ddd78da5dce8b6f6442600ac2deb3986e8d
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Jun 6 02:25:01 2011 +0200

doc: Get rid of RCS tags.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 4803f7139f131cee7bbf50b32d667d6e60302df09
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 23:32:26 2011 +0200

man: Fix case for MIT-unspecified.

include/site.h says that COMPILEDDISPLAYCLASS is MIT-unspecified, rather
than MIT-Unspecified. Fix the manpage accordingly.

Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 593270038d8983b99aa0aa24509da3cb944be5c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Sep 7 15:50:26 2010 +0300

dix: remove dead extensions to protocol.txt

lbx and mbe.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 3cd56dd2efbfcce6ba68c22450d51139208993ab
Author: Robert Hooker <sarvatt@ubuntu.com>
Date:   Fri Dec 3 23:42:27 2010 -0500

Add new GLX events errors and requests to protocol.txt

Based off of glproto 1.4.11.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Robert Hooker <robert.hooker@canonical.com>

commit 272ba9f021c6d08ebd6a2d96da3737f5630bcbd5
Author: Robert Hooker <sarvatt@ubuntu.com>
Date:   Fri Dec 3 23:39:51 2010 -0500

Add DRI2 2.2/2.3 events and requests to protocol.txt
glamor: move GL_OES_EGL_image check next to EGL_EXT_image_dma_buf_import

We're using the former only as the latter is present. Thus in some cases we might incorrectly error out if it's missing.

Namely - glamor_glx, glamor_egl without gbm, EGL_KHR_gl_texture_2D_image or EGL_EXT_image_dma_buf_import.

Fixes 58d54ee82df (glamor: explicitly check for GL_OES_EGL_image)
Cc: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Suggested-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

Make configure test for LD_NO_UNDEFIRED_FLAG on Solaris work w/autoconf 2.69

After upgrading from autoconf 2.68 to 2.69, this test started failing with "confitest.c", line 149: undefined symbol: NULL
so use a raw 0 pointer to avoid header dependencies in the autoconf generated test case.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

rootless: Fix bogus handling of broken root clip

gcc quite correctly complains about this:

In file included from ../../../include/scrnintstr.h:51:0,
    from rootlessValTree.c:98:
    In function 'RegionUninit.isra.1',
        inlined from 'RegionEmpty' at ../../../include/regionstr.h:194:5,
        inlined from 'RootlessMiValidateTree' at rootlessValTree.c:490:9:
So that'd crash if you ever got there. RegionNull will do almost the same thing only without the free(), so let's do that instead; it might still not be an entirely sane way to recover, but it at least won't crash.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

This is ofourdan/xwayland, minus:

xwayland: Always update the wl_pointer cursor on pointer focus

which was rejected for ABI and design issues.

os/xdmcp: Just send XDMCP keepalive packets once every three minutes

There was a complicated scheme to increase the time between keepalives from 3 minutes up to as much as 24 hours in an attempt to reduce network traffic from idle X terminals. X terminals receiving X traffic, or receiving user input would use the 3 minute value; X terminals without any network traffic would use a longer value.

However, this was actually broken -- any activity in the X server, either client requests or user input, would end up resetting the keepalive timeout, so a user mashing on the keyboard would never discover that the XDMCP master had disappeared and have the session terminated, which was precisely the design goal of the XDMCP keepalive mechanism.

Instead of attempting to fix this, accept the cost of a pair of XDMCP packets once every three minutes and just perform keepalives regularly.
This will also make reworking the block and wakeup handler APIs to eliminate select masks easier.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a3a40291330bad10401fe2bcedc097ce742b026a
Author: Keith Packard <keithp@keithp.com>
Date: Mon Sep 21 07:16:16 2015 +0100

os/xdmcp: Remove dead 'restart' code

The X server used to wait for the user to hit a key or move the mouse before restarting the session after a keepalive failure. This, presumably, was to avoid having the X server continuously spew XDMCP protocol on the network while the XDM server was dead.

Switching into this state was removed from the server some time before XFree86 4.3.99.16, so the remaining bits of code have been dead for over a decade, and no-one ever noticed.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3cd7d33380953f2a315dd79ab74d7340c83fd80a
Author: Egbert Eich <eich@freedesktop.org>
Date: Tue Mar 31 09:06:46 2015 +0200

randr: Remove senseless checks for xf86RandR12Key

When xf86RandR12Key is not set we will not get to the places where these tests are done as the functions in question are not called.
In most cases we would have crashed before these checks anyway.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 245040f0d0b937efe14d947468a641a95398776a
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Mon Oct 6 10:02:22 2014 +0100

randr/prime: Don't stop on the first pipe when disabling ReplaceScanoutPixmap

As we define sizeFits based on whether a CRTC is active, and skip trying to redirect the scanout on a disable pipe, we then attempt to undo it later and fail because crtc->scanout_pixmap != DRI2_Pixmap and !sizeFits. Paper over this failure by skipping unredirected CRTC when disabling.
v2: Unwind upon failure

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=84653
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Dave Airlie <airlied@redhat.com>
Reported-by: Christoph Haag <haagch@frickel.club>
Tested-by: Christoph Haag <haagch@frickel.club>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 9d65a0de95a20632f2a6a04ba596dcdd76d9f5e2
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Sep 18 08:44:07 2015 -0700

Remove DECnet from Xserver.man

DECnet support died in modularization (X11R7.0)

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 82eb490b0a341729f25d0c42a937fe29d99da521
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Sep 17 16:04:33 2015 -0700

privates: Clear screen-specific keys during CloseScreen

The modesetting driver corrupts memory when used after a server regeneration
because not enough memory is allocated for its pixmap privates. This happens
because its call to dixRegisterScreenSpecificPrivateKey() does nothing because
key->initialized is still TRUE from the first server generation. However, the
key is not in the screen's linked list of screen-specific privates because
that's freed and reallocated during the server generation loop in dix_main().

Fix this by clearing key->initialized before CloseScreen and add a call to
dixFreeScreenSpecificPrivates() for GPU screens.

v2: Just set key->initialized to FALSE and move dixFreeScreenSpecificPrivates()
calls to after CloseScreen.

v3: Move dixFreeScreenSpecificPrivates() calls back to just before CloseScreen.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 18a93da9b1f429bc54a8b236fcdd38dab58375cd
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Wed Feb 18 12:41:25 2015 -0800
test/xi1: Update .gitignore

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cdd1d58159140759052ec043bc9828d94ba97bc7
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jul 6 17:15:44 2015 +0100

mingw: Fix NO_LOCAL_CLIENT_CRED build

Commit 4b4b9086 "os: support new implicit local user access mode [CVE-2015-3164 2/3]" carefully places the relevant code it adds under !NO_LOCAL_CLIENT_CRED, but unfortunately doesn't notice that NO_LOCAL_CLIENT_CRED is defined as a side-effect in the middle of GetLocalClientCreds(), so many of these checks precede its definition.

Move the check if NO_LOCAL_CLIENT_CRED should be defined to configure.ac, so it always occurs before it's first use.

v2:
Move check to configure.ac

v3:
Use AC_CACHE_CHECK and name cache varaible appropriately

[ajax: Massaged commit message]

Reviewed-by: Ray Strode <rstrode@redhat.com>

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit f8a2c087c89ed5b638a2e62987f255d3f04f914e
Author: Javier Jardón <jjardon@gnome.org>
Date: Sun Mar 22 03:52:03 2015 +0000

configure.ac: Add support for new versions of systemd

... that only provide a unique libsystemd.pc file

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Javier Jardón <jjardon@gnome.org>

commit 67dd34fa734085ed67ba7790820fe4743d48b60f
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jun 10 13:20:59 2015 -0400

render: Simplify SProcRenderScale
Since ProcRenderScale throws BadImplementation anyway it's pointless to waste time carefully swapping the request.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit a579e6ba7763749d51d16e3a54941e06939df07a
Author: Ian Scott <ian.scott@arteris.com>
Date: Thu May 21 16:13:12 2015 -0700

Xephyr: Paint with subimage for non-Glamor & non-XSHM case

This improves the case for when we paint an area without SHM.
xcb_image_subimage() is used to create a subimage for the damaged area, which is converted to native format if necessary.

Signed-off-by: Ian Scott <ian.scott@arteris.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>

commit a6c0564f7f00aa66fd19180f75b6b09904444f06
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Mon Mar 23 10:58:03 2015 -0300

ephyr: move host_has_extension() implementation to hostx.c

This is a trivial patch that moves host_has_extension() implementation from ephyr.c to hostx.c so that it can be called by hostx.c internal functions. Also rename function to hostx_has_extension() for consistency.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>

commit 9414ba3683231afe9beef941c53998dea218615
Author: Jürg Billeter <j@bitron.ch>
Date: Sun Feb 8 11:34:18 2015 +0100

ephyr: fix -no-host-grab argument processing

Signed-off-by: Jürg Billeter <j@bitron.ch>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Commit 94ab7455 added SA_RESTART to the SIGALRM handler. However, the
Popen code tears down and recreates the SIGALRM handler via OsSignal(), and this flag is dropped at this time.

Clean the code to use just a single codepath for creating this signal handler, always applying SA_RESTART.

[ajax: Fixed commit id]

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Drake <drake@endlessm.com>

commit 94ab7455abc213fc96760e29ab2e943ec682f22
Author: Daniel Drake <drake@endlessm.com>
Date:   Tue May 12 16:39:22 2015 -0600

Allow system call restarts upon signal interruption

The X server frequently deals with SIGIO and SIGALRM interruptions. If process execution is inside certain blocking system calls when these signals arrive, e.g. with the kernel blocked on a contended semaphore, the system calls will be interrupted.

Some system calls are automatically restartable (the kernel re-executes them with the same parameters once the signal handler returns) but only if the signal handler allows it.

Set SA_RESTART on the signal handlers to enable this convenient behaviour.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Daniel Drake <drake@endlessm.com>

commit 1ba4fde1015fc6da19dfbfdf0f77f1071416e215
Author: Boyan Ding <stu_dby@126.com>
Date:   Mon Aug 4 21:16:34 2014 +0800

xwayland: Activate and enable device on first capability reporting

Commit 2172714c changed behavior of capability handling, but it only solved part of the problem. If Xwayland is launched without a capability (e.g. no pointer device is connected when Xwayland was spinned up), and later that capability comes, the device added will not be automatically initialized. This patch initializes the device when the capability is reported for the first time, thus avoiding the problem.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=81819
Signed-off-by: Boyan Ding <stu_dby@126.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
commit f1995de1c43733a9e586605674c4071357a58e78
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 28 14:28:11 2015 +1000

xwayland: call through to miPointerWarpCursor on warp_cursor

This is (eventually) called during
InitializeSprite() *pScreen->SetCursorPosition miPointerSetCursorPosition
when a device is set to floating. We don't do anything special ourselves, but
we need to pass on to the next layer to make sure the device is initialized
properly. Otherwise, pScreen stays NULL and eventually crashes the server when
we try to clean up behind us.

Test case: grab a device  floats it, ungrab again  crash

Reported-by: Jason Gerecke <killertofu@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit 373599ab008f0ec8f3f62455a5474f5ec8f499
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 28 14:28:10 2015 +1000

xwayland: fix crash on enter/leave for a grabbed slave device

When grabbed, the slave device is floating, i.e. the master device is NULL.
CheckMotion() isn't happy with NULL. Make sure we pass the right device in,
either the master device when the device is attached, or the device itself
when it is floating.

Reported-by: Jason Gerecke <killertofu@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit f1ba8858d5baa63cde6361492e6d349ce1b38d21
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 28 14:28:09 2015 +1000

xwayland: use the device pointer we already have

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit 44f250a7e8eb86d3f41da5d186d839e7a14648a3
Author: Carlos Garnacho <carlosg@gnome.org>
xwayland: Remove related touchpoints when unrealizing windows

These sequences are forgotten to all purposes.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit b7cd48f71d269101e28ae6855b895057378715f9
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Wed May 27 18:41:59 2015 +0200

xwayland: Implement the wl_touch interface

A DeviceIntPtr with touch valuators is also created in order to deliver
the translated touch events. The lifetime of xwl_touch structs is tied
to the wayland ones, finishing in either wl_touch.up() or wl_touch.cancel()

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit d96eccc057094be31c1ee4e3b3246675934cb19d
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Wed May 27 18:41:58 2015 +0200

xwayland: Add x wl_touch struct

This struct holds information about each individual, ongoing touchpoint.
A list of these is held by the xwl_seat.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Olivier Fourdan <ofourdan@redhat.com>

commit c1565f3ca663aa4ba4316d7248737ab817116fbd
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date: Sat Feb 21 11:53:59 2015 -0800

xwayland-input: Remove our XYToWindow handler

This was built as a hack for simple Wayland compositors like Weston
which were lazy and didn't want to configure windows server-side when
moved.

Since comboboxes and menus are separate toplevel O-R windows, this hack
breaks input as it needs to be traced normally, not simply sent to the
focused window.
X11 toolkits really do need their windows to be configured correctly for their O-R windows comboboxes or menus other things, so let's fix the lazy compositors and remove this.

I have tested this patch with both Weston and Mutter and neither of them require any changes, and it fixes comboboxes and menus.

If somebody then wants to revert 73698d4, that's fine by me, so we reduce the amount of API that DDXen have.

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 58d54ee8d2f9e5486bc09d04d2760c922d54d631
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Wed Sep 16 22:10:22 2015 +0100

glamor: explicitly check for GL_OES_EGL_image

Otherwise we'll fail miserably later on as we try to use glEGLImageTargetTexture2DOES.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 139e36dd5cbab80a9296129f3d253790e01442b3
Author: Ilia Mirkin <imirkin@alum.mit.edu>
Date:   Fri Sep 4 18:56:19 2015 -0400

modesetting: fix up output naming convention

A user on a nouveau-driven card ran into a problem where DVI-D-1 and DVI-I-1 were aliasing. The simplest fix is to provide the full connector names. While we're at it, rename the output names to match what is in the kernel, and start counting the connectors from 1 rather than 0. The only deviation is HDMI vs HDMI-A, which kept its original name.

This will break backwards compatibility with existing xorg.conf's that reference output names, but the alternative is to create a separate counting system, further disconnecting from the kernel names.

Signed-off-by: Ilia Mirkin <imirkin@alum.mit.edu>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit a907ead7864ac5720854fa3333b66fd51875eaf
Author: Marek Chalupa <mchqwerty@gmail.com>
Date:   Thu Aug 20 07:43:51 2015 +0200
xwayland: implement repeat_info event

xwayland windows ignored any key repeating settings advertised by a compositor

v2. don't hardcode version 4 of seat
   use AutoRepeatModeOn/Off

v3. use min(version, 4) when binding seat

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Marek Chalupa <mchqwerty@gmail.com>

commit e8e3368298e97a1292bb1c727e2f3d56539e2eac
Author: Felix Janda <felix.janda@posteo.de>
Date:   Mon Aug 17 20:25:53 2015 +0200

On linux use <termios.h> instead of <termio.h>

<termio.h> is obsolete. Using <termios.h> instead fixes building with musl libc.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Felix Janda <felix.janda@posteo.de>

commit dfa8b37cfb2589f2474f6f6c755dde77bfdd6fed
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 29 11:30:15 2015 -0400

glxproxy: Fix an obvious thinko in QueryExtensionsString

gcc 5.1 throws a rather amusing warning here:

```
glxcmdsswap.c: In function '__glXSwapQueryExtensionsString':
glxcmdsswap.c:439:1: warning: function might be candidate for attribute
'noreturn' [-Wsuggest-attribute=noreturn]
__glXSwapQueryExtensionsString(__GLXclientState * cl, GLbyte * pc)
```

This is entirely accurate, albeit curiously phrased: swapping some bits hanging off the end of a null pointer will make Xdmx crash, so from the perspective of code generation the function will indeed not return.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 75ee874e432d959a70fbc2e9208d20dbfa5c6c5f
Author: Jon TURNLEY <jon.turney@dronencode.org.uk>
Date:   Fri May 1 17:06:47 2015 +0100
Build fix for DMX

../dix/lib/libdix.a(pixmap.o): In function `PixmapStartDirtyTracking':
xorg/xserver/dix/pixmap.c:194: undefined reference to `RRTransformCompute'

I'm not quite sure how 0db457b fixes this

Move RANDR_LIB to after DIX_LIB, so the reference to RRTransformCompute in DIX_LIB is satisfied.

Signed-off-by: Jon TURNERY <jon.turney@droncode.org.uk>
Tested-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 634e357be2ec400f63bd5c42f706b709b6ddabc3
Author: Ingo Schwarze <schwarze@usta.de>
Date:   Sun Aug 30 15:26:40 2015 +0200

remove bogus \ escapes

some X manuals use then escape sequence \ when they want to render a slash. That's bad because \ is not a slash but an italic correction, never producing any output, having no effect at all in terminal output, and only changing spacing in a minor way in typeset output.

Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c74c074d8e4981eb4509e120e14d15387bde94ef
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Aug 31 08:18:59 2015 +0200

dix: export ResourceClientBits()

ResourceClientBits() might be used by the modules as well, need to mark the symbol as visible to that the linker can resolve it at run time.

/usr/bin/X: symbol lookup error:
/usr/lib64/xorg/modules/extensions/libglx.so: undefined symbol: ResourceClientBits

bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=91763
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Bump version to 1.17.99.901 (1.18 RC1)

debug output format fix in TouchEventHistoryPush()

debug output format fix in ephyrProcessMouseMotion()

This looks like a genuine bug, and ephyrCursorScreen->myNum was meant here rather than ephyrCursorScreen

v2:
Insert a ":" as well

debug output format fix in DRISwapContext()
xorg/xserver/hw/xfree86/dri/dri.c:1695:19: error: format ‘%x’ expects argument of type ‘unsigned int’, but argument 4 has type ‘DRIContextPrivPtr’ [-Werror=format=
^  xorg/xserver/hw/xfree86/dri/dri.c:1695:19: error: format ‘%x’ expects argument of type ‘unsigned int’, but argument 5 has type ‘DRIContextPrivPtr’ [-Werror=format=

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 27cf5840272810ae20fdae550db71ec48cf1b02d
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Jul 7 23:29:51 2015 +0100

debbug output format fix in TI.c

xserver/hw/xfree86/ramdac/TL.c:118:12: error: format ‘%d’ expects argument of type ‘int’, but argument 4 has type ‘long unsigned int’ [-Werror=format=
  xserver/hw/xfree86/ramdac/TL.c:118:12: error: format ‘%d’ expects argument of type ‘int’, but argument 5 has type ‘long unsigned int’ [-Werror=format=
  xserver/hw/xfree86/ramdac/TL.c:118:12: error: format ‘%d’ expects argument of type ‘int’, but argument 6 has type ‘long unsigned int’ [-Werror=format=

Use %lu for an unsigned long

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6cc0f3d95d62e33a5d86f865159cc3526d3a9dc5
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Jul 7 23:20:29 2015 +0100

debbug output format fix in xf86Events.c

xserver/hw/xfree86/common/xf86Events.c:183:5: error: format ‘%x’ expects argument of type ‘unsigned int’, but argument 3 has type ‘void *’ [-Werror=format=

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d206c240c0b85c4da44f073d6e9a692af6b6b96d2
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Tue Jul 7 18:19:50 2015 +0200

configurable maximum number of clients

Make the maximum number of clients user configurable, either from the command line or from xorg.conf
This patch works by using the MAXCLIENTS (raised to 512) as the maximum allowed number of clients, but allowing the actual limit to be set by the user to a lower value (keeping the default of 256).

There is a limit size of 29 bits to be used to store both the client ID and the X resources ID, so by reducing the number of clients allowed to connect to the X server, the user can increase the number of X resources per client or vice-versa.

Parts of this patch are based on a similar patch from Adam Jackson <ajax@redhat.com>

This now requires at least xproto 7.0.28

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7ecdfbf0af3547295b245efa754123db65cabb43
Merge: bca4f4b56c a0b4f30b1f
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 17 18:53:25 2015 -0700

    Merge remote-tracking branch 'airlied/modesetting-zaphod'

commit bca4f4b56c7619d17f9df46f7aac392ea01a9429
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 17 18:37:10 2015 -0700

    mi: Always initialize edge1 and edge2 in miLineArc

This eliminates a warning generated when miLineArcD is inlined and the compiler can't figure out that edge1 and edge2 are always initialized before being used.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 5daf1295cb4f71510da595721d10f7ea3b74d1b9
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 17 18:35:20 2015 -0700

dixfont.h: Include fontutil.h before GetGlyphs is #defined

This eliminates the duplicate declaration of dixGetGlyphs when fontutil.h gets included after dixfont.h has defined GetGlyphs as dixGetGlyphs.
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit d4710004367ab8eab794a12385ca7ed3ace9a0e0
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Aug 13 09:25:37 2015 +1000

rootless: rename w->_w to avoid shadow warnings

fixes:
In file included from rootlessWindow.c:51:0:
rootlessWindow.c: In function 'RootlessResizeWindow':
rootlessCommon.h:198:19: warning: declaration of ‘w’ shadows a parameter [-Wshadow]
    WindowPtr w = pWin;
   ^
rootlessWindow.c:1292:9: note: in expansion of macro 'HUGE_ROOT'
    HUGE_ROOT(pWin);
   ^
rootlessWindow.c:1262:35: note: shadowed declaration is here
    unsigned int w, unsigned int h, WindowPtr pSib)
   ^
In file included from rootlessWindow.c:51:0:
rootlessCommon.h:207:19: warning: declaration of ‘w’ shadows a parameter [-Wshadow]
    WindowPtr w = pWin;
   ^
rootlessWindow.c:1296:9: note: in expansion of macro 'NORMAL_ROOT'
    NORMAL_ROOT(pWin);
   ^
rootlessWindow.c:1262:35: note: shadowed declaration is here
    unsigned int w, unsigned int h, WindowPtr pSib)
   ^

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7f506b8099d23c2f045ad26cc5cf00109b69d7b
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Aug 13 09:25:36 2015 +1000

rootless: fix warnings due to lack of const keeping.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b923443816320d0636d6fd40c3e1125b93332907
mioverlay.c: remove shadowed pScreen.

This is already defined at the function entry.

fixes warning:
CC mivaltree.lo
mioverlay.c: In function 'miOverlayWindowExposures':
mioverlay.c:993:23: warning: declaration of 'pScreen' shadows a previous local [-Wshadow]
    ScreenPtr pScreen = pWin->drawable.pScreen;
    ^
mioverlay.c:986:15: note: shadowed declaration is here
    ScreenPtr pScreen = pWin->drawable.pScreen;

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a0b4f30b1f584d2957c9e99e430da5740d2d4ab2
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:  Wed Aug 5 00:08:40 2015 +0200

modesetting: Add more missing options to man page.

Descriptions for Options PageFlip and SWCursor.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 19e1dc8f6ea6d7f5ba4a5caaa0e2f40a47879408
Author: Dave Airlie <airlied@redhat.com>
Date:  Wed Jul 22 03:56:13 2015 +0100

modesetting: add zaphod support (v3)

This adds zaphod and ZaphodHeads support to the the in-server modesetting driver.

this is based on a request from Mario, and on the current radeon driver, along with some patches from Mario to bring things up to the state of the art in Zaphod.

v2: fixup vblank fd registring.
v3: squash Mario's fixes.
modesetting: Allow/Fix use of multiple ZaphodHead outputs per x-screen.
modesetting: Take shift in crtc positions for ZaphodHeads configs into account.
modesetting: Add ZaphodHeads description to man page.

Reviewed-and-tested-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 533fb627398e20f863234d780f4463e37007515b
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 4 13:17:02 2015 -0400

xwayland: Don't (double) destroy input resources in CloseScreen

By the time we get here we've already done CloseDownDevices, so on the second regeneration you get:

Invalid read of size 4
   at 0x43402A: RemoveDevice (devices.c:1125)
      by 0x427902: xwl_seat_destroy (xwayland-input.c:568)
      by 0x42649C: xwl_close_screen (xwayland.c:116)
      by 0x4B7F67: CursorCloseScreen (cursor.c:187)
      by 0x536003: AnimCurCloseScreen (animcur.c:106)
      by 0x539831: present_close_screen (present_screen.c:64)
      by 0x43E486: dix_main (main.c:351)
      by 0x30D70206FF: (below main) (libc-start.c:289)
Address 0x980e1a0 is 64 bytes inside a block of size 904

   at 0x4A07D6A: free (in /usr/lib64/valgrind/vgpreload_memcheck-amd64-linux.so)
      by 0x434158: RemoveDevice (devices.c:1157)
      by 0x42F77B: CloseDeviceList (devices.c:1017)
      by 0x430246: CloseDownDevices (devices.c:1047)
      by 0x43E3EB: dix_main (main.c:333)
      by 0x30D70206FF: (below main) (libc-start.c:289)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 11f4cc47a815c5d6284b1338e748e2605b2dd779
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 4 13:17:01 2015 -0400

xwayland: Don't (double) destroy RANDR resources in CloseScreen

By the time we get here we've already been through FreeAllResources, which has already torn down the RANDR objects, so on the second
Invalid read of size 4
at 0x51C6F0: RRCrtcDestroy (rrcrtc.c:659)
by 0x4285F5: xwl_output_destroy (xwayland-output.c:191)
by 0x426464: xwl_close_screen (xwayland.c:112)
by 0x4B7F77: CursorCloseScreen (cursor.c:187)
by 0x536013: AnimCurCloseScreen (animcur.c:106)
by 0x539841: present_close_screen (present_screen.c:64)
by 0x43E496: dix_main (main.c:351)
by 0x30D70206FF: (below main) (libc-start.c:289)
Address 0x4cc6640 is 0 bytes inside a block of size 728 free'd
at 0x4A07D6A: free (in /usr/lib64/valgrind/vgpreload_memcheck-amd64-linux.so)
by 0x51BCCF: RRCrtcDestroyResource (rrcrtc.c:689)
by 0x45CD91: doFreeResource (resource.c:872)
by 0x45DE56: FreeClientResources (resource.c:1138)
by 0x45DF06: FreeAllResources (resource.c:1153)
by 0x43E3BD: dix_main (main.c:321)
by 0x30D70206FF: (below main) (libc-start.c:289)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea03e314f98e5d8ed7bf7a508006a3d84014bde5
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jul 27 13:54:00 2015 -0700

glamor: Don't try to free the pixmap priv if we fail to allocate FBO.

Fixes a regression since a2a2f6e34bd49e7ac31779274d52e800595660bc. I missed this in testing on x86, because we never fail to allocate an FBO. We do hit this path on VC4, though.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 6916d32ab36c1aa922094abce7fac22884e4e83
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jul 19 08:24:39 2015 -0700

Xserver.man: -retro is used when starting the server, not the stipple

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 0a458a908ec071a4da5d22c760581e0c5ec885ce
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Jul 22 15:37:23 2015 +0900

glamor: Make our EGL context current before calling into GL in `glamor_init`

Without this, the context of another screen may be current, or no context
at all if `glamor_egl_init` failed for another screen.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

Commit a8a0f6464a33c12c1de495d74fd478c0d952643e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 16 15:12:52 2015 -0700

`xfree86`: Bump video driver ABI version to 20

Commit 90db5edf119187f8b1b9207c8c384d6cd7ef9edc modified the signature of
`StartPixmapTrackingProcPtr`, so drivers implementing that need to use the updated
definition.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

Commit 2fcfa532532f1be4a7f668556808e6245ff4e36bc
Merge: cb695b0f3b7b0f940625
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jul 17 10:15:01 2015 -0700

  Merge remote-tracking branch 'ajax/xserver-next' into master

Commit cb695b0f3b8def4d1ac02458fe630b65f6a5a3e6
Author: Armin K <krejzi@email.com>
Date:   Thu Jul 16 14:54:48 2015 +0200

  `xfree86/os-support/linux`: Fix make distcheck

  Header was added in 1dba5a0b194653b0effb01a918bd7338b0c6bcb9
  but not in `Makefile.am`, resulting in missing header in the
distribution tarball.

  Signed-off-by: Eric Anholt <eric@anholt.net>

Commit 29efa905ec1e22d66b517378c6e5ad47a09d6977
Author: Robert Ancell <robert.ancell@canonical.com>
Date:   Thu Jul 16 12:26:05 2015 +1200
modesetting: Use correct types for return values of glamor BO exports.

glamor_name_from_pixmap and glamor_fd_from_pixmap return CARD16 and CARD32 values via pointers. The current code uses uint16_t and uint32_t which will probably be the same but it's safer to use the datatypes as specified by the function.

Signed-off-by: Robert Ancell <robert.ancell@canonical.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit db5337af2b248e6f81087cf8d74006fc496d70589
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jul 15 17:56:11 2015 +1000

glamor: make current in prepare paths

Lots of the accel paths only make current once they start doing someting, so a lot of them call the bail paths without make current, which means on PRIME systems for example we end up in the wrong context.

Add a prepare pixmap in the prepare fallback path.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=90667
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1a18513a4eb3fa22459d9f7d8f0e275aff679cc
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Jul 10 15:28:52 2015 +0900

glamor: Use glamor_prepare_access_box() for PutImage/GetImage fallback

Fixes slow text display in xdvi.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=91260
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit fde13565c1b2462ee38f2a446ad3c9157261afa2
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 2 13:57:05 2015 -0700
glamor: Drop unused box translation/bounds code.

These are dead since the glamor_copy.c replacement.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit ab5aa270c79d70f095bc7abadeef227b4062027c
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 2 13:52:05 2015 -0700

   glamor: Move cache_format to glamor_fbo.c, where it's used.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 0ca783e8ee5dfb086fbfa64d26173bc78b4010
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 2 13:50:42 2015 -0700

   glamor: Drop another dead function.

This hasn't been used since the format swap/revert stuff for pictures
was added back in 2012.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit c1111710628cc2a9dfae0d74ea9fcee990095b
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jul 2 13:33:01 2015 -0700

   glamor: Take transforms into account when preparing for a fallback.

This function takes the start x/y and the destination's width/height,
so it only works if there's no transform. We could potentially
transform this box and take its bounds with some rounding, but this at
least gets us to read out enough data.

Note that this does the same overshoot on destination pictures with a
transform attached, but that seems unlikely to be used any way.

v2: Add XXX comment for the commit message note (Suggested by Michel).

Signed-off-by: Eric Anholt <eric@anholt.net>
commit c16e086dace81151f399485e5c686617a43d5b94
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 13:25:40 2015 -0700

 glamor: Drop dead drm_stride field.

 Signed-off-by: Eric Anholt <eric@anholt.net>
 Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
 Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 8097c887023b72744eb2cb943c2deca7ca0c404a
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 13:11:20 2015 -0700

 glamor: Drop tracking of the last picture attached to pixmaps.

 Signed-off-by: Eric Anholt <eric@anholt.net>
 Acked-by: Michel Dänzer <michel.daenzer@amd.com>
 Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 0dbdb83b0d0254ac67fb33da8bf9ebc0ef4e8081
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 12:55:27 2015 -0700

 glamor: Use the actual picture's format when uploading memory pixmaps.

 The pixmap->picture is just the *last* picture attached to the pixmap, so
 you'd potentially be looking at the wrong one when trying to
 temporarily upload to avoid a composite fallback.

 There's some trickiness in glamor_render.c when we're dealing with the
 upload of a GLAMOR_MEMORY pixmap as both the source and mask using
 different formats, where we smash the source's format to a new value
 so that the mask can use the same uploaded bits. Dropping most of
 that should be safe, since it will be uploaded as the source first, so
 the smashed format will still be used.

 Signed-off-by: Eric Anholt <eric@anholt.net>
 Acked-by: Michel Dänzer <michel.daenzer@amd.com>
 Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 1fd11c46aa086e4b80cb1bafa87c6b19a8014fd1
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 12:49:36 2015 -0700
glamor: Move glamor_render.c pict handling to glamor_picture.c

These functions aren't used by anything else, and are specific to the temporary-upload-as-a-weird-format path of glamor_render.c, called through glamor_upload_picture_to_texture().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 53aed06fb45aed4145754cd622508563ad262c4a
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 12:48:01 2015 -0700

glamor: Drop dead glamor_upload_bits_to_pixmap_texture() proto.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit b51e079e1877411fde72372c3953d71e42ac1d6e
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 12:40:05 2015 -0700

glamor: Use the new upload/download interface for XV uploads.

We don't need any of its weird handling of picture formats, since our XV pixmaps don't have any pictures attached.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 1bd966d16d87ed908547144c68850f2cdee05469
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 12:21:41 2015 -0700

glamor: Ignore picture formats when choosing color for core rendering.

Attaching a picture to a pixmap doesn't change its GL format, so it doesn't change how core rendering should be assigning colors to it.

(Imagine XCreatePixmap(), optional XCreatePicture(pixmap) with various formats, XFillRectangle, XGetImage(). If the XGetImage results changed, this would be wrong).

Fixes all failures in "rendercheck -t fill" and, as a result, the remaining failures in "rendercheck -t blend -o src -f"
a8r8g8b8,x2r10g10b10"

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 5a81de8284f851751a8943aa6a905377be315c7b
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jul 8 12:18:28 2015 -0700

glamor: Don't try to do rendering with unsupported formats.

I'm amazed we've made it as far as we have without these checks: if you made an unusual format picture that wasn't the normal a8r8g8b8 or x8r8g8b8 or a8, we'd go ahead and try to render with it, ignoring that the sampler would fetch totally wrong bits.

Fixes 260 tests in rendercheck -t blend -o src -f a8r8g8b8,x2r10g10b10

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 0d7cbd6f5a2b5c9c6909799da9c1483e8f6133903
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Fri Jul 3 20:42:48 2015 +0200

glamor_egl: Properly free resources on init-error and exit

glamor_egl_init() was not undoing any of the init steps on init error, add an glamor_egl_cleanup() function and use this both on error and on exit to cleanup the various resources.

Even on a clean exit eglTerminate() was not being called, causing the fd dup()-ed by eglInitialize() to stay open, call eglTerminate() from the new glamor_egl_cleanup() to fix this.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 80b6652c9fb9cdff91e92fa16c07e2cc63b06f44
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jul 7 17:21:55 2015 -0700

glamor: Drop a bunch of glamor_priv == NULL checks.

Now that it's always non-null when the pixmap is non-null, we don't
need so much of this.  glamor_get_pixmap_private() itself still accepts a NULL pixmap and returns NULL, because of glamor_render.c

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a2a2f6e34bd49e7ae31779274d52e800595660bc
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 16:20:18 2015 -0700

glamor: Ask the server to always allocate our private.

This avoids a lot of screwing around to attach our privates later.  It means that non-glamor pixmaps now gain 120 bytes of glamor privates on 64-bit (which has quite a bit of fixable bloat), and glamor pixmaps take one less pointer of storage (not counting malloc overhead).

Note that privates start out zero-filled, which matches the callocs we were doing when making our own privates, and in the case of an fb pixmap that has a priv where it didn't before, the type ends up being GLAMOR_MEMORY as we would want.

v2: Clarify that the GLAMOR_MEMORY enum must be 0 (as it was previously), so that the new pixmap private behavior is as expected.  Suggested by keithp.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com> (v1)
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d278c30e68d79e86a3e2207b629d1e461856f907
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 20:35:59 2015 -0700

glamor: Drop dead glamor_is_large_picture().

It died as of keithp's new glyphs code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cd608a516d2c59ebfb95fadf6d2f827888c0e4e
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 20:25:06 2015 -0700

glamor: Reuse the glamor_is_memory helper.
atom: make FreeAtom static

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

atom: Bump initial table size

We're always creating ~230 atoms at startup, might as well tune it so we don't hit the realloc path before Dispatch.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: Implement GLX_ARB_context_flush_control

This extension allows clients to opt out of the implicit glFlush on context release, which is quite nice for performance for clients using multiple contexts. The server doesn't really need to be aware of the client's decision, at least for direct contexts, but it does need to not reject the context attribute out of hand.

This patch won't do anything unless built against a Mesa that defines the __DRI2_FLUSH_CONTROL extension (and a new enough glxext.h, but that's been there since 10.3 at least).

Reviewed-by: James Jones <jajones@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx/swrast: Do more GLX extension setup

This gets you nice things like core contexts when using Xvfb.

Also, no, MESA_copy_sub_buffer is not enabled automatically.

Reviewed-by: James Jones <jajones@nvidia.com>
Reviewed-by: Jon Turney <jon.turney@dronecode.org.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cb3cfbad3f07b20e90ea9498110f255813eb441
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:58:30 2015 -0400

dix: Restore PaintWindow screen hook

Removes the last cpp conditional on ROOTLESS from dix code.

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 74d64ceea02bffad1caf3d1a727edbd38d968059
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:58:30 2015 -0400

mi: Remove questionable optimization from the rootless path

This is effectively a revert of 7b506f6dc840aebed6b5acb91437a2cb620b5bdcc
except the coding style reindent broke that. The code makes no sense in
any case. drawable can never be null since it's the first member of
WindowRec, and we're never called with a null window. Neither can it be
an UNDRAWABLE_WINDOW since those are InputOnly windows; the rootless
code does not set the root window to either UNDRAWABLE or InputOnly, so.

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 315661a425018a546f7bce18ad3e5f4578473ca6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:58:30 2015 -0400

fb: Make rootless-agnostic

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1594fb912996e9776d9e36383bd1d9f5dd2877eb
rootless: Build unconditionally

It's not a lot of code, and if you're doing things to the core that affect rootless you should be alerted early.

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bdc917a41691250701cc9a0b087448b50892fa9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:58:30 2015 -0400

rootless: Genericize the config header a bit

ROOTLESS_RESIZE_GRAVITY is an optimization, so let's default it to off unless the backing window system is known to support it.

ROOTLESS_PROTECT_ALPHA looks like it has different values for xquartz and win32, but hilariously rootlessGC.c merely checks if it is defined, not what the value is. It's effectively the more conservative path anyway, so let's just turn it on.

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6f3332b9f411fd7ac9cab0085faa56f6c2ff3323
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:58:30 2015 -0400

dix: unifdef pWin->rootlessUnhittable

No reason to vary the dix ABI over this.

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 36fac0dd1a9a9cf41b631cf7e1ea015bcf920db7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 23 13:23:20 2014 -0400

xfixes: Unexport xfixes.h

There's nothing a driver could want to use this for.

Acked-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4da66d9e0399141fefd5f002e4195a438fe5020
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 14:27:02 2014 -0400

vidmode: Hide implementation details

Also remove vidmodeproc.h from the SDK since no drivers are using it.

Acked-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 49d7bae7f4c6a93f92df828440e3478513f930f4
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 14:18:07 2014 -0400

xge: Hide some implementation details

Acked-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2377690709de11087edc9d1116e9feae8f118ed
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 14:03:13 2014 -0400

dga: Hide a bunch of implementation details

Acked-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b5fbe9c6327fac88c09afce598238a7534521b69
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 13:37:34 2014 -0400

xfree86: Hide some pre-randr mode validation details

Acked-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 70b402be2626d4f4afb02b6f5baa543262548bd7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 30 16:19:08 2014 -0400

render: Hide/unexport some implementation details
One of the lacking features with output offloading was that screen rotation didn't work at all.

This patch makes 0/90/180/270 rotation work with USB output and GPU outputs.

When it allocates the shared pixmap it allocates it rotated, and any updates to the shared pixmap are done using a composite path that does the rotation. The slave GPU then doesn't need to know about the rotation and just displays the pixmap.
rewrite the sync dirty helper to use the dst pixmap, and
avoid any strange hobbits and rotations.

This breaks ABI in two places.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 991712f1e8deeb6289ee0abd9910e279d6396246
Merge: 0cd228073a 3c859112d3
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jul 8 10:43:31 2015 -0700

Merge remote-tracking branch 'ofourdan/for-keith'

commit 0cd228073ad3b7eb72cef8b61128324895ee6cd4
Author: Jon TURNLEY <jon.turney@droncode.org.uk>
Date: Mon Jun 29 15:08:51 2015 +0100

hw/xwin: printf format fixes for Pixel type

Pixel is CARD32, so inside the server has type unsigned int (x86_64) or unsigned
long (x86)

Cast to unsigned int and use a %u format

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e3cfeb949a9e9363beacd800acdd9723ed54fac2
Author: Jon TURNLEY <jon.turney@droncode.org.uk>
Date: Fri Feb 6 20:22:11 2015 +0000

hw/xwin: printf format fixes for WPARAM and LPARAM types

Some Win32 API types are different fundamental types in the 32-bit and 64-bit

This problem is then further compounded by the fact that whilst both 32-bit
Cygwin and 32-bit MinGW use the ILP32 data model, 64-bit MinGW uses the LLP64
data model, but 64-bit Cygwin uses the LP64 data model.

This makes it impossible to write printf format specifiers which are correct for
all those targets, so we use some macros to provide the correct specifier for
the target.

LPARAM and WPARAM are integer types which can contain a pointer
LPARAM is long in ILP32 and long long in LLP64
WPARAM is unsigned int in ILP32 and unsigned long long in LLP64

Generally, these are just used to pass integer parameters, so for simplicity,
cast to int and use an int-compatible format

In the specific case of WM_CHANGECHAIN, they are used to pass HWND, so cast to
that type and print using an appropriate format.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 4f8661fac985306c56330cae69fcef19e5dd0af61
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Feb 6 19:19:41 2015 +0000

hw/xwin: printf format fixes for LONG type

Some Win32 API types are different fundamental types in the 32-bit and 64-bit
versions.

This problem is then further compounded by the fact that whilst both 32-bit
Cygwin and 32-bit MinGW use the ILP32 data model, 64-bit MinGW uses the LLP64
data model, but 64-bit Cygwin uses the LP64 data model.

This makes it impossible to write printf format specifiers which are correct for
all those targets

In the Win32 API, DWORD is an signed, 32-bit type. It is defined in terms of a
long, except in the LP64 data model, where it is an int.

It should always be safe to cast it to int and use %d.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit aa83c61f510121da20b56e8f7de700193f7d16b5
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Feb 6 19:46:45 2015 +0000

hw/xwin: printf format fixes for DWORD type

Some Win32 API types are different fundamental types in the 32-bit and 64-bit
versions.

This problem is then further compounded by the fact that whilst both 32-bit
Cygwin and 32-bit MinGW use the ILP32 data model, 64-bit MinGW uses the LLP64
data model, but 64-bit Cygwin uses the LP64 data model.
This makes it impossible to write printf format specifiers which are correct for all those targets.

In the Win32 API, DWORD is an unsigned, 32-bit type. It is defined in terms of an unsigned long, except in the LP64 data model, where it is an unsigned int.

It should always be safe to cast it to unsigned int and use %u or %x.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 487f2595c9dd9a5c3e600168a108963e87602561
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 6 20:48:26 2015 +0000

hw/xwin: printf format fixes in xevents.c

Window and Atom types derive from XID, which is always unsigned long in client code, so use %ld format specifier

XTextProperty.nitems is of type unsigned long, so use %lu format specifier

ulReturnBytesLeft is of type unsigned long, so use %lu format specifier

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 98798fcf0d1dc66c539abb2ecec0acc676d0b574
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 6 20:42:54 2015 +0000

hw/xwin: printf format fix in winProcessXEventsTimeout()

remainingTime is computed as a long int, so use %ld format specifier

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5b6f511c2fcad4edacedbeb9842680cf3aeffb1
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 6 20:40:46 2015 +0000

hw/xwin: printf format fix in winCreateDefColormap()

Use %lu for unsigned long

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit eb679671560b21206a47476dfbc23518d8d46588
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Feb 6 20:38:26 2015 +0000

hw/xwin: printf format fixes in winAllocatePrivates()

serverGeneration is of type unsigned long, so use %lu format specifier

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0d6c499b9976d305e13685eb79b4bb7cd4250f58
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Feb 6 20:27:11 2015 +0000

hw/xwin: printf format fixes in winConfigKeyboard()

struct winInfoRec.keyboard members are of type long, not type int

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ba468e003e32c406f4885c8cb3deeb1c8175cd45
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Mon Jun 29 14:25:49 2015 +0100

hw/xwin: printf format fixes for XID type

XID inside the server has type unsigned int (x86_64) or unsigned long (x86)

Follow the example of the rest of the server and cast to unsigned int and use a %u or %x format.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit dcb797b31f0affdc4b08b000dd92ec38fa261953
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 14:28:46 2014 +0100

hw/xwin: printf format fixes for HWND type

HWND derives from HANDLE, a pointer type, so we should use the %p format

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit f1d14266672c8130e992dd9d0c08fd1cef0f08cb
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Oct 1 22:12:26 2014 +0100

hw/xwin: Ensure format warnings in winclipboard/

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 38f340b13e693a0d456a9ab22a6474c8f55375fa
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jun 29 15:30:36 2015 +0100

hw/xwin: Remove GetTickCount() from various pieces of debugging output

The use of %d format for the DWORD return value of GetTickCount() isn't portable, but it doesn't seem to be worth fixing it when this information isn't very useful (and is redundant to the timestamping of log messages we now have)

Instead just remove these uses of GetTickCount()

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 732e3b9c08532f40656010ec9d128601cc88c3f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Jul 6 18:45:51 2015 -0700

Instead of one glTexImage2D call for each glyph.

This significantly reduces the amount of time it takes for xterm to start up on a fresh X server with the radeonsi driver.

v2: Use GLYPHWIDTHBYTESPADDED instead of hardcoding 4 bytes glyph alignment (Keith Packard)

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ac94cdb9d94dd26688de6d3d9143ac48f7b3c7b
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jul 2 20:16:21 2015 +0200

mi: fix typo in warning about overflowing queue

Debian bug#726041
xserver: fix build with glamor disabled.

This fixes modesetting when glamor is disabled.

glamor: Use GL_ARB_debug_output to log GL errors.

This should help people debugging when glamor does something stupid on their driver.

glamor: Add an assert to catch the previous bug.

Fixes regressions since Eric's "don't make an FBO for the glyph atlas" change. The al upload was a fallback, as expected. However, fallback
reads use glReadPixels() because there's no glGetTexSubImage2D() to match glTexSubImage2D(). We were just binding the 0 FBO value, so the glReadPixels() would throw a GL error instead of getting any data. After the fallback was done we'd write back the undefined data to the atlas, blowing away the entire rest of the atlas because we didn't specify any bounds on our prepare.

To fix the fallbacks to actually work, we'd need a prepare path that allocates some memory do a full glGetTexImage() into, then memcpy out of that. Instead, just dodge the general fallback by implementing the specific upload we need to do here, which should also be *much* faster at uploading all glyphs since it's not readpixels/texsubimaging back and forth.

v3: Use CopyPlane to a temp pixmap for the upload
v4: Rewrite anholt's commit message to be from keithp's perspective
    (changes by anholt)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 5c440817f7c128c9a9d78ef9672f22641dbeeaa1
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 15:01:53 2015 -0700

glamor: Use ARRAY_SIZE in a couple more places for consistency.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 7b6ed52435f474c43130f6ac4c6b2d2b28814f5
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:59:55 2015 -0700

glamor: Mark a bunch of single-file data static.

This gives the compiler a chance to optimize when the data is never changed -- for example, with pict_format_combine_tab, the compiler ends up inlining the 24 bytes of data into just 10 more bytes of code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 3fe6731b17ae953d49db4c1bf95e0022244513e1
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:50:43 2015 -0700
glamor: Make a bunch of single-file glamor functions static.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit a8e84e8c3b2047775fe2da9371329290eee23655
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:45:43 2015 -0700

glamor: Drop dead glamor_es2_pixmap_read_prepare().

It's been unused since I killed glamor_download_pixmap_to_cpu().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit cad56dc62dbf2ba097cc0fa61217897ba40d8d66
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:41:27 2015 -0700

glamor: Restore the hook to glamor_composite_rectangles().

It was apparently accidentally dropped in keithp's removal of _nf
functions in 90d326f6c687e6d64b308f6272edecf8145a17.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 7adb38a0d18de2e8b0762d9dd82b851883ad75fe
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:25:16 2015 -0700

glamor: Fix up some weird formatting in _glamor_create_fbo_array().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 835067a4095e5e48703aa6561f83ee95923e832
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Jun 30 14:14:50 2015 -0700

glamor: Drop a redundant check.

Above, we've already checked for ->fbo && ->fbo->fb and returned.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit 47b868492c7ff090ff71e3e1aaa79ddaade513
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 5 12:34:41 2015 -0800

    glamor: Simplify some temp pixmap extents calculations.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit bfb6a290afabe492d93ec8024fac6b28f672d7d0
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 5 11:46:32 2015 -0800

    glamor: Drop a dead flag to glamor_create_fbo_array().

    v2: Don't forget to set priv->block_w/block_h like the wrapper used to.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Kenneth Graunke <kenneth@whitecape.org> (v1)

commit fe3fedf280596c2c2e69dddb30b89ff17dbe611e
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 5 11:33:54 2015 -0800

    glamor: Drop dead GLAMOR_FBO_DOWNLOADED flag.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 447274094147f31025700a2ff6f94e3b0c96fa17
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 5 11:20:50 2015 -0800

    glamor: Move doxygen for private structs into the structs.

    This should hopefully keep the comments more up to date with the
structure comments. While I'm here, I've reworded a few of them to be
more accurate, and dropped a bunch of stale comments.

    Signed-off-by: Eric Anholt <eric@anholt.net>
    Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 33d6384b29db1b28a9da035dc7cc82dafa33c99
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 5 11:18:24 2015 -0800

    glamor: Drop the dead "PBO" field in an FBO cache struct.
PBOs are only used at the whole pixmap level.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 1734aa285663d83070e6313bb976f976aa2bea4c
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Feb 4 18:07:06 2015 -0800

glamor: Remove dead gl_tex flag in the fbo struct.

This used to be used in the old copy_area path.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 82d23fc7290a2986efbc2982eaa0de0ad5ad0d1
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Feb 4 18:02:34 2015 -0800

glamor: Propagate the fact that pbo_valid is never set.

The code to set it was deleted in keithp's big rewrite.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>

commit 0e3f1252dacdc3194a99a2d090b5c13f070f8799
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 18:40:47 2015 -0700

glamor: Avoid using GL_QUADS on VC4.

Improves text rendering from about 284k glyphs per second to 320k glyphs per second. There's no GL extension for probing this, because of the philosophy of "Don't expose whether things are really in hardware or not."

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit f47e3f539568d19e22d10d7dd4ec09c7d570e716
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 18:36:28 2015 -0700

glamor: Use proper Bools for some boolean values.
commit 4001a7465e6fb27fc82fa20ea5a65283d33a5e2e
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 16:56:35 2015 -0700

glamor: Provide a fallback path for using an index buffer to do quads.

    Improves x11perf -aa10text performance by 1377.59% +/- 23.8198% (n=93)
on Intel with GLES2.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit e8fc929d4a140666420a6d592371f5d3eb10cca
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 17:26:46 2015 -0700

glamor: Use GL_EXT_map_buffer_range if present.

    We were only looking for the desktop GL version of the extension, so
    GLES2 missed out.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 4fc4cde0ce7d1a35bab3b3bbd787d688cd415d78
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 16:34:55 2015 -0700

glamor: Use the normal GL_QUADS drawing helper in the render code.

    We use this for all of our other performance-sensitive rendering, too.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit c5e6ffbd8d8ad714454b9de1ac1c3eb9f6bf196
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jun 19 17:05:28 2015 -0700

glamor: Drop CloseScreen-time GL resource cleanup code.

    These will all be freed when the context is freed.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
commit 3d6dcd00d67bff407385ad37c7efde7b73ba719
Author: Eric Anholt <eric@anholt.net>
Date: Fri Jun 19 19:04:16 2015 -0700

glamor: Fix text rendering on GLES2.

The GL_QUADS helper takes a number of quads, not a number of vertices.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit b4061cf5f76241157b2de81dec053012075311c0
Author: Peter Harris <pharris@opentext.com>
Date: Tue May 12 14:19:15 2015 -0400

Fix border tile origin when background is ParentRelative

According to http://www.x.org/releases/X11R7.7/doc/xproto/x11protocol.html#requests:CreateWindow
"The border tile origin is always the same as the background tile origin."

ChangeWindowAttributes goes to some effort to make sure it repaints
the border tile whenever the background origin may have changed, but
miPaintWindow was ignoring the background origin.

Found by xts XChangeWindowAttributes-3

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8a8d51358ceaa782147bb9b5b2e0902ba1e47cf4a
Merge: b22534d8e6 13c7d53df8
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 29 21:04:53 2015 -0700

Merge remote-tracking branch 'airlied/for-keithp'

commit b22534d8e653575196180970292eaade33c090a8
Merge: 0a625adeec 780a69aff0
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 29 21:04:11 2015 -0700

Merge remote-tracking branch 'jwrdecoede/for-keith'

commit 0a625adeec465d6c7dcdb8622c53157b4e932bb0
Merge remote-tracking branch 'anholt/glamor-next'

commit 84128c10bb6d34f78f7a4148b3e640748efe58e1
Merge: 9003a3e5c5 8c86d5160
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 29 20:59:31 2015 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 13c7d53df8dac45ea2a685826cd45a39bcb51657
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Mon Jan 26 21:29:23 2015 -0800

modesetting: Implement page flipping support for Present.

Based on code by Keith Packard, Eric Anholt, and Jason Ekstrand.

v2:
- Fix double free and flip_count underrun (caught by Mario Kleiner).
- Don't leak flip_vblank_event on the error_out path (Mario).
- Use the updated ms_flush_drm_events API (Mario, Ken).

v3: Hack around DPMS shenanigans. If all monitors are DPMS off, then
there is no active framebuffer; attempting to pageflip will hit the
error_undo paths, causing us to drmModeRmFB with no framebuffer,
which confuses the kernel into doing full modesets and generally
breaks things. To avoid this, make ms_present_check_flip check that
some CRTC's are enabled and DPMS on. This is an ugly hack that would
get better with atomic modesetting, or some core Present work.

v4:
- Don't do pageflipping if CRTC's are rotated (caught by Jason Ekstrand).
- Make pagelfipping optional (Option "PageFlip" in xorg.conf.d), but
  enabled by default.

v5: Initialize num_crtcs_on to 0 (caught by Michel Dänzer).

[airlied: took over]

v6: merge async flip support from Mario Kleiner
free sequence after failed vblank queue
handle unflip while DPMS'ed off (Michel)
move flip tracking into its own structure, and
fix up reference counting issues, and add comments.
Signed-off-by: Dave Airlie <airlied@redhat.com>
Acked-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>

commit 4342369e843ca2c6ca0a8c42475893cffb077a54
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jun 26 09:20:13 2015 +1000

modesetting: don't try and load dri2

Since we are shipped with the server and the server has it built-in, don't bother trying to load it.

Don't remove or invert the if statement on purpose as a later patch adds stuff in here.

  Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Dave Airlie <airlied@redhat.com>

commit edec6394a47be590f3133f6a90186356afd00829
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jun 26 09:19:37 2015 +1000

modesetting: drop unused struct in vblank.c

this isn't used anywhere here.

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Dave Airlie <airlied@redhat.com>

commit bf262b43007050180d336defd48251de80894801
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Mon Jan 26 21:25:58 2015 -0800

modesetting: Implement an ms_drm_abort_seq() function.

This is a specialization of ms_drm_abort that matches based on the drm event queue's sequence number.

Based on code by Keith Packard.

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Dave Airlie <airlied@redhat.com>
  Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>

commit b8ccc5d36b0436bac57f07969ff3eb8d479a8511
Author: Jason Ekstrand <jason.ekstrand@intel.com>
Date: Tue Jan 13 17:00:28 2015 -0800

glamor: Add a new glamor_gbm_bo_from_pixmap() function.

v2: Rebase on commit e0788a03144 (drop "base").

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit f2171d0a20d3b3858a282e51c1561432de1b29ef
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Tue Jan 6 21:02:44 2015 -0800

modesetting: Make ms_crtc_on non-static.

I want to use this in present.c.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>

commit f6853baebe6a68078fa7f90486a9547d59dcbd
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Sun Feb 8 17:21:58 2015 -0800

modesetting: Improve the ms_flush_drm_events() API.

Previously, ms_flush_drm_events() returned a boolean value, and it was very easy to interpret the meaning incorrectly. Now, we return an integer value.

The possible outcomes of this call are:
- poll() raised an error (formerly TRUE, now -1 - poll's return value)
- poll() said there are no events (formerly TRUE, now 0).
- drmHandleEvent() raised an error (formerly FALSE, now the negative value returned by drmHandleEvent).
- An event was successfully handled (formerly TRUE, now 1).

The nice part is that this allows you to distinguish errors (< 0), nothing to do (= 0), and success (1). We no longer conflate errors with success.

v2: Change ms_present_queue_vblank to < 0 instead of <= 0, fixing an unintentional behavior change. libdrm may return EBUSY if it's received EINTR for more than a second straight; just keep retrying in that case. Suggested by Jasper St. Pierre.

Reviewed-by: Dave Airlie <airlied@redhat.com>
modesetting: reverse prime support (v1.1)

This adds support for reverse prime to the modesetting driver.

Reverse prime is where we have two GPUs in the display chain, but the second GPU can't scanout from the shared pixmap, so needs an extra copy to the on screen pixmap.

This allows modesetting to support this scenario while still supporting the USB offload one.

v1.1:
fix comment + ret = bits (Eric)

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 1f10ee221edb87561900f5d2b1336db1c4a9f05c
Author: Dave Airlie <airlied@gmail.com>
Date:   Wed Jun 10 13:38:39 2015 +1000

glamor: egl: add function to back a pixmap with a dma-buf. (v1.1)

Rather than create the pixmap, this uses the file descriptor to change an existing pixmaps backing store.

This is required for reverse prime slaves, where we create the slave pixmap, then set the backing store.

v1.1: use local pScreen (Eric)

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a79fbfd707e1d745b670def08287241c87e11c28
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Jun 9 17:15:44 2015 +1000

modesetting: add output master support

This allows a glamor enabled master device to have slave USB devices attached.
Tested with modesetting on SNB + USB.

It relies on the previous patch to export linear buffers from glamor.

Acked-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ea0e4d752b778c1f2132f8d29542f7dabc296415
Author: Dave Airlie <airlied@gmail.com>
Date:   Wed Jun 10 14:46:22 2015 +1000

glamor: add support for allocating linear buffers (v2)

We need this for doing USB offload scenarios using glamor and modesetting driver.

unfortunately only gbm in mesa 10.6 has support for the linear API.

v1.1: fix bad define
v2: update the configure.ac test as per amdgpu. (Michel)
set linear bos to external to avoid cache. (Eric)

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5c555605386c76be2f02193d434a4617218b67be
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jun 11 14:29:48 2015 +1000

xf86: restrict when we auto add devices as gpu devices.

Michel pointed out I broke Zaphod with the initial auto add gpu devices change,

Fix this, by only auto adding GPU devices if we are screen 0 and there are no other screens in the layout. Anyone who wants to assign GPU devices can specify it in the xorg.conf for this use case.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit 5064ec276fe0f6cebc33ea08e57f1de91f092d88
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jun 12 15:13:47 2015 +1000
xf86Rotate: remove unused macros.

These macros aren't used anywhere.

v1.1: drop comment (Aaron)

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 8218dadd30eb0c87efbac6db5d8e3862a236b6a4
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 9 15:30:22 2015 +1000

cursor: drop ARGB_CURSOR

I doubt anyone builds with this turned off or has done for a long time.

It helps my eyes bleed slightly less when reading the code, I've left the define in place as some drivers use it.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3c859112d38860764bd8b205ab461d00db502f45
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Tue Jun 23 15:05:31 2015 +0200

xwayland: keep temp files out of the client mask

Xwayland opens anonymous files for its sharing buffers, move these file descriptors out of the range of the client select mask to avoid reaching the maximum number of clients prematurely.

https://bugs.freedesktop.org/show_bug.cgi?id=91072

Tested-by: Olivier Fourdan <fourdan@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 8c86dd51606486f4794ec503b9c05e6875bde693a
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date:   Tue Jun 23 08:41:57 2015 -0300

configure.ac: fix code misplacing for KDRIVE_{KBD, MOUSE, EVDEV} auto-detection

KDrive input drivers "kbd", "mouse", and "evdev" should be automatically built
for linux systems. However, due to a code misplacing in configure.ac, the auto-detection test is being performed AFTER the corresponding AC_DEFINEs' calls, so that the drivers are NOT being built, regardless the test result.

This bug should be affecting previous xorg-server releases. Please consider backporting this patch to all maintained ones!

Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 780a69aff0ff57ef813179a2f09556eaf488c8fc
Author: David Herrmann <dh.herrmann@gmail.com>
Date:   Mon Jun 22 21:13:05 2015 +0200

systemd-logind: do not rely on directed signals

Right now, Xorg does not install DBus matches for "PauseDevice" / "ResumeDevice". Therefore, it should usually not receive those DBus signals from logind. It is just a coincidence that systemd-logind sends those signals in a directed manner right now. Therefore, dbus-daemon bypasses the broadcast matches.

However, this is not ABI and Xorg should not rely on this. systemd-logind is free to send those signals as broadcasts, in which case Xorg will freeze the VT. Fix this by always installing those matches.

Cc: Hans de Goede <hdegoede@redhat.com>
Cc: Keith Packard <keithp@keithp.com>
Reported-by: Jan Alexander Steffens <jan.steffens@gmail.com>
Signed-off-by: David Herrmann <dh.herrmann@gmail.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Tested-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit d3352d098724e96be8fb8538a3640ce271d8f8b9
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Jun 22 13:51:21 2015 +0200

Xorg.wrap.man: Fix spelling mistake in Xorg.wrap.1

This commit fixes a small mistake in Xorg.wrap.1.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 790311cec30ac3d35e580b9f1266236f558033d4
Author: Eric Anholt <eric@anholt.net>
glamor: Don't try to disable attrib divisors without the extension.

Fixes epoxy assertion failures on vc4.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9c679d06055cc62aa9209318705e87dc33fba4c8
Author: Eric Anholt <eric@anholt.net>
Date:   Sun May 31 16:07:01 2015 -0700

glamor: Skip actual FBO setup in our glyph atlas.

VC4 (and many GLES2 renderers) can't render to GL_ALPHA, so our pixmap would end up as GLAMOR_MEMORY and our dereference of the FBO would setfault. Instead, tell the pixmap creation that we don't need an FBO at all. Our glyph upload path was already glTexImage for non-a1, and a more general software fallback for a1 (since the glyph is also in system memory).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 077bb1bdea0fa9af846c02896df680293cf9e25c
Author: Eric Anholt <eric@anholt.net>
Date:   Sun May 31 15:46:55 2015 -0700

glamor: Clean up some declarations in glyph rendering.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit bf7a3bcb00d0dce22ff3fe42fe6236beeab4403b
Author: Eric Anholt <eric@anholt.net>
Date:   Sun May 31 15:28:39 2015 -0700

glamor: Actually allow glyphs of dimension 65 to 128 in the cache.

The cache was trying to allow glyph_max_dim in, but since we were putting over 64x64 into HW memory, it would end up in the single-glyph-per-render bail_one path.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f4c3cac010cffe0980905e6edd8ed7baf0aff91b
Xi: call UpdateDeviceState() even when the client is missing

The client window can be closed in the middle of a touch sequence, e.g. Qt 4 closes popup windows on MousePress and Qt 5.5 will do it on TouchBegin. In this case the state of mouse buttons will not be updated on TouchEnd because ProcessTouchEvent() calls UpdateDeviceState() only when the event has been sent to the client. It results in a stuck left mouse button.

This patch leads to calling UpdateDeviceState() in case the client can't be found.

Signed-off-by: Alexander Volkov <a.volkov@rusbitech.ru>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9003a3e5c55903ce4e371b2d5cb5030b5f97ae0e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue Jun 9 23:41:12 2015 -0700

XQuartz: Silence -Wformat-security for NSRunAlertPanel

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 3a6fa115759c787ec34483437021ad1e55c52423
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue Jun 9 23:34:50 2015 -0700

XQuartz: Silence -Wunused-function

quartzKeyboard.c:741:1: warning: unused function 'macroman2ucs' [-Wunused-function,Unused Entity Issue]
macroman2ucs(unsigned char c)
^ 1 warning generated.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 9fe7f5ccada37e2d2a2fa92064b92a0334a3fcdd
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue Jun 9 23:30:50 2015 -0700

XQuartz: Silence -Wunused-variable

X11Controller.m:939:9: warning: unused variable 'remain' [-Wunused-variable,Unused Entity Issue]
    int remain;
XQuartz: Silence -Wpointer-bool-conversion

X11Controller.m:417:17: error: address of function 'asl_log_descriptor' will always evaluate to 'true'
    [-Werror,-Wpointer-bool-conversion,Value Conversion Issue]
    if (asl_log_descriptor) {
        ~~~~~~~~~~~~~~~~~~
    }^ ~~~~~~~~~~~~~~~~~~~
X11Controller.m:417:17: note: prefix with the address-of operator to silence this warning [Semantic Issue]
    if (asl_log_descriptor) {
        ~
    }

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 77611066397747411f348e4a77871da5cf3b71e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Jun 1 04:29:19 2014 -0700

XQuartz: GLX: Use __glXEnableExtension to build extensions list

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 990cf5b2828f73dc7a07f1e38f608af39acfd81d
Author: Andrew Eikum <aeikum@codeweavers.com>
Date:   Thu Jun 4 13:24:53 2015 -0500

dix: Send KeyPress and KeyRelease events to the XACE_KEY_AVAIL hook

While it's documented in the XACE spec, the XACE_KEY_AVAIL hook is currently never actually invoked by the xserver.

This hook was added in 13c6713c82 (25 Aug 2006), but as the keyboard processing was moved into XKB, the hook was forgotten and silently dropped. The code calling this hook was removed by 7af53799e (4 Jan 2009), but it was probably already unused before that.

This patch re-adds support for this hook. The "count" hook parameter is unused.

Signed-off-by: Andrew Eikum <aeikum@codeweavers.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 5dc2a9ae46352f1f35d3ba122da04727789a15d
Author: Andrew Eikum <aeikum@codeweavers.com>
Date: Thu Jun 4 13:23:19 2015 -0500

xace: Add XaceHookIsSet helper function

Signed-off-by: Andrew Eikum <aeikum@codeweavers.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c88a325899381d1133e63e6c33ec29db079e20a87
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Jan 21 10:13:20 2015 +0100

systemd-logind: Only use systemd-logind integration together with keepTTY

systemd-logind integration does not work when starting X on a new tty, as
that detaches X from the current session and after that systemd-logind revokes
all rights any already open fds and refuses to open new fds for X.

This means that currently e.g. "startx -- vt7" breaks, and breaks badly,
requiring ssh access to the system to kill X.

The fix for this is easy, we must not use systemd-logind integration when
not using KeepTTY, or iow we may only use systemd-logind integration together
with KeepTTY.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Aaron Plattner <aplattner@nvidia.com>

commit 81bcada14e339fe2a2f3f3a040566d94dc20bad
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed May 13 13:17:09 2015 +0200

linux: Add a may_fail parameter to linux_parse_vt_settings

linux_parse_vt_settings() was split out of xf86OpenConsole so that it can
be called earlier during systemd-logind init, but it is possible to run
the xsxserver in such a way that xf86OpenConsole() is never used.

The FatalError calls in linux_parse_vt_settings() may stop the Xorg xsxserver
from working when e.g. no /dev/tty0 is present in such a setup.

This commit adds a may_fail parameter to linux_parse_vt_settings() which
can be used to make linux_parse_vt_settings() fail silently with an error
return in this case, rather than calling FatalError().

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1dba5a0b194653b0effb01a918bd7338b0e6bcb9
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Jan 21 09:31:39 2015 +0100

linux: Add linux_parse_vt_settings and linux_get_keeptty helpers

systemd-logind integration does not work when starting X on a new tty, as
that detaches X from the current session and after that systemd-logind revokes
all rights on any already open fds and refuses to open new fds for X.

This means that currently e.g. "startx -- vt7" breaks, and breaks badly,
requiring ssh access to the system to kill X.

The fix for this is easy, we must not use systemd-logind integration when
not using KeepTty, or iow we may only use systemd-logind integration together
with KeepTty.

But the final KeepTty value is not known until the code to chose which vtno to
run on has been called, which currently happens after initializing
systemd-logind.

This commit is step 1 in fixing the "startx -- vt7" breakage, it factors out
the linux xf86OpenConsole bits which set xf86Info.vtno and keepTty so that
these can be called earlier. Calling this earlier is safe as this code has
no side effects other than setting xf86Info.vtno and keepTty.

Note this basically only moves a large chunk of xf86OpenConsole() into
linux_parse_vt_settings() without changing a single line of it, this is
hard to see in the diff because the indentation level has changed.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fa12f2c150b2f50de9dac4a2b09265f13af353af
Author: Dave Airlie <airlied@redhat.com>
Date: Thu May 28 16:21:37 2015 +1000

glamor: don't do render ops with matching source/dest (v3)

XRender defines this, GL really doesn't like it.

kwin 4.x and qt 4.x seem to make this happen for the
gradient in the titlebar, and on radeonsi/r600 hw
this draws all kinds of wrong.

v2: bump this up a level, and check it earlier.
(I assume the XXXX was for this case.)
v3: add same code to large pixmap paths (Keith)

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit cbb7eb73b5399e31a7af800363504d539df0ecf
Author: Rui Matos <tiagomatos@gmail.com>
Date:   Wed May 27 12:08:45 2015 +0200

xwayland: Throttle our cursor surface updates with a frame callback

In some extreme cases with animated cursors at a high frame rate we
could end up filling the wl_display outgoing buffer and end up with
wl_display_flush() failing.

In any case, using the frame callback to throttle ourselves is the
right thing to do.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 806470b9f623089dc81b985f250f0c3a4e8edbe8
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Feb 6 08:25:42 2015 +0000

present: Copy unflip contents back to the Screen Pixmap

As we unflip after the flip Window no longer passes the pixel ownership
test for the full Screen Pixmap, we can no longer utilize that Window to
copy the contents back to the backing pixmap. To first flip means that
the Window was originally backed by the Screen Pixmap and wholly covered
the Pixmap, thus we need to copy the last frame contents to the Screen
Pixmap when the flip chain is complete.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-and-Tested-by: Michel Dänzer <michel.daenzer@amd.com>

commit baa50f60acd9e9f4293107435645ab072b6110e1
Author: Vicente Olivert Riera <Vincent.Riera@imgtec.com>
Date:   Mon Jan 12 17:10:02 2015 +0000

backtrace.c: Fix word cast to a pointer
backtrace.c uses a word size provided by libunwind. In some architectures like MIPS, libunwind makes that word size 64-bit for all variants of the architecture.

In the lines #90 and #98, backtrace.c tries to do a cast to a pointer, which fails in all MIPS variants with 32-bit pointers, like MIPS32 or MIPS64 n32, because it's trying to do a cast from a 64-bit wide variable to a 32-bit pointer:

Making all in os
make[2]: Entering directory `/home/test/test/1/output/build/xserver_xorg-server-1.15.1/os'
   CC    WaitFor.lo
   CC    access.lo
   CC    auth.lo
   CC    backtrace.lo
backtrace.c: In function `xorg_backtrace':
backtrace.c:90:20: error: cast to pointer from integer of different size [-Werror=int-to-pointer-cast]
   if (dladdr((void *)(pip.start_ip + off), &dlinfo) &&
   dlinfo.dli_fname &&
^   backtrace.c:98:13: error: cast to pointer from integer of different size [-Werror=int-to-pointer-cast]
   (void *)(pip.start_ip + off));
^ cc1: some warnings being treated as errors
make[2]: *** [backtrace.lo] Error 1
make[2]: *** Waiting for unfinished jobs....

Making the cast to a pointer-sized integer, and then to a pointer fixes the problem.

Related:
https://bugs.freedesktop.org/show_bug.cgi?id=79939

Signed-off-by: Vicente Olivert Riera <Vincent.Riera@imgtec.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 76636ac12f2d1dbdf7be08222f80e7505d53c451
Author: Ray Strode <rstrode@redhat.com>
Date:   Tue May 5 16:43:44 2015 -0400

xwayland: default to local user if no xauth file given. [CVE-2015-3164 3/3]

Right now if ":-auth" isn't passed on the command line, we let
any user on the system connect to the Xwayland server.

That's clearly suboptimal, given Xwayland is generally designed to be used by one user at a time.

This commit changes the behavior, so only the user who started the X server can connect clients to it.

Signed-off-by: Ray Strode <rstrode@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4b4b9086d02b80549981d205fb1f495edc373538
Author: Ray Strode <rstrode@redhat.com>
Date:   Tue May 5 16:43:43 2015 -0400

os: support new implicit local user access mode [CVE-2015-3164 2/3]

If the X server is started without a `-auth` argument, then it gets started wide open to all local users on the system.

This isn't a great default access model, but changing it in Xorg at this point would break backward compatibility.

Xwayland, on the other hand is new, and much more targeted in scope. It could, in theory, be changed to allow the much more secure default of a "user who started X server can connect clients to that server."

This commit paves the way for that change, by adding a mechanism for DDXs to opt-in to that behavior. They merely need to call

LocalAccessScopeUser()

in their init functions.

A subsequent commit will add that call for Xwayland.

Signed-off-by: Ray Strode <rstrode@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c4534a38b68aa07fbb82318040dc8154fb48a9588
Author: Ray Strode <rstrode@redhat.com>
Date:   Tue May 5 16:43:42 2015 -0400
xwayland: Enable access control on open sockets [CVE-2015-3164 1/3]

Xwayland currently allows wide-open access to the X sockets it listens on, ignoring Xauth access control.

This commit makes sure to enable access control on the sockets, so one user can't snoop on another user's X-over-wayland applications.

Signed-off-by: Ray Strode <rstrode@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ad02d0df75318660c3f7cd6063eac409327fe560
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 6 15:25:28 2015 +1000

test: add tests for new valuator mask features

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit da10d0cb4283ad5a9c4290555751f61795d11b49
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue May 5 14:48:41 2015 +1000

dix: hook up the unaccelerated valuator masks

If present, access the unaccelerated valuator mask values for DGA and XI2 raw events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 4c2f2cb4e8ca1ab894a65828fdd39ae9b014f69
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue May 5 14:18:54 2015 +1000

dix: Add unaccelerated valulators to the ValuatorMask

Allows a mask to carry both accelerated and unaccelerated motion at the same time.

This is required for xf86-input-libinput where the pointer acceleration happens in libinput already, but parts of the server, specifically raw events and DGA rely on device-specific unaccelerated data.
To ease integration add this as a second set to the ValuatorMask rather than extending all APIs to carry a second, possibly NULL set of valuators.

Note that a valuator mask should only be used in either accel/unaccel or standard mode at any time. Switching requires either a valuator_mask_zero() call or unsetting all valuators one-by-one. Trying to mix the two will produce a warning.

The server has a shortcut for changing a mask with the valuator_mask_drop_unaccelerated() call. This saves us from having to loop through all valuators on every event, we can just drop the bits we know we don't want.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commits from 9ff89a2e469ab0ac5af57d0fc115127feb1c0d99
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

config: remove 10-evdev.conf, let the evdev driver install that file

Now that we have two likely drivers that fight for control over the input devices (evdev and libinput) let's move the respective driver assignment to each package. So you get what you install.

https://bugs.freedesktop.org/show_bug.cgi?id=89023
Revert "glx/dri2: Disable AIGLX if indirect GLX is disabled"

This reverts commit d61ae18074e53c2edfb13cc37693b526160d6ca7.

If the DRI2 provider is disabled, then we don't advertise the correct
GLX extensions to clients, and things like GLES fail.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=90442
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

New composite glyphs code uses the updated glamor program
infrastructure to create efficient shaders for drawing render text.

Glyphs are cached in two atlases (one 8-bit, one 32-bit) in a simple
linear fashion. When the atlas fills, it is discarded and a new one
constructed.

v2: Eric Anholt changed the non-GLSL 130 path to use quads instead of
two triangles for a significant performance improvement on hardware
with quads. Someone can fix the GLES quads emulation if they want to
make it faster there.

v3: Eric found more dead code to delete

This extends the existing API to support options needed for render
accleration, including an additional fragment, 'combine', (which provides a place to perform the source IN mask operation before the final OP dest state) and an additional 'defines' parameter which provides a way to add target-dependent values without using a uniform.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ff3195aadde95c8e89f77f389a7dfb418dd2426c
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 20 21:31:56 2014 -0700

glamor: Compute GLSL version from GL_SHADING_LANGUAGE_VERSION (v3)

Use code from Piglit project to compute GLSL version for either GL or GLES. The Piglit code was originally written by Chad Versace.

v2: bail if the parse fails (requested by Eric Anholt)
v3: Use version 1.20 for GLES until we fix our programs (Eric Anholt)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit dcb3d74ba8861e7b0a592e92b5b2247b84e843f3
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 13 12:35:40 2014 -0700

glamor: Remove destination drawable argument from glamor_set_texture

This argument wasn't used at all.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2bf34fe8d9b7628d164392c2d1ace78f7cf17b9
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 13 12:32:27 2014 -0700

glamor: Pass depth to glamor_pm_is_solid and glamor_set_planemask

Instead of passing the destination drawable, just pass the depth, as the underlying functions need only that to check whether the planemask is going to work.

This API change will allow higher level functions to not need the destination pixmap.

Signed-off-by: Keith Packard <keithp@keithp.com>
Xephyr: Fix broken image when endianess of client machine and host-Xserver differ

The image is created in the native byte order of the machine Xephyr is rendered on however drawn in the image byte order of the Xephyr server. Correct byte order in the xcb_image_t structure and convert to native before updating the window.
If depths of Xephyr and host server differ this is already taken care of by the depth conversion routine.
It is a terrible waste to always convert and transmit the entire image no matter of the size of the damaged area. One should probably use sub-images here. For now we leave this as an exercise.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Xephyr: Fix screen image draw for the non-Glamor & non-XHSM case
xcb_image_put() prints the entire image, therefore don't use an offset.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Xephyr: Fix compile when debugging is enabled

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33586
Xephyr: Print default server display number if none is specified

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5af73f490870da9265eeb9b3ce59a2be026be0c8
Author: Egbert Eich <eich@suse.de>
Date:   Tue Mar 31 09:14:25 2015 +0200

Xephyr: Don't crash when no command line argument is specified

The DDX specific command line parsing function only gets called if command line arguments are present. Therefore this function is not suitable to initialize mandatory global variables. Replace main() instead.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 00f79416b19f0cde68291aced44ab07b9b76f7bd8
Author: Jonathan Gray <jsg@jsg.id.au>
Date:   Wed Apr 15 21:29:58 2015 +1000

glamor: fix build when DRI3 is not defined

Signed-off-by: Jonathan Gray <jsg@jsg.id.au>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7c609c911a3a33b7e4ddad46b8fc42878a073ee7
Author: Jonathan Gray <jsg@jsg.id.au>
Date:   Wed Apr 15 21:29:07 2015 +1000

glamor: remove const from the return type of glamor_get_drawable_location()

Fixes a build error with gcc 4.2.1 on OpenBSD due to -Werror=return-type from xorg-macros.
	error: type qualifiers ignored on function return type

Signed-off-by: Jonathan Gray <jsg@jsg.id.au>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 145ae03814cb3b700b6fe1fd19f8fb15da84d1c8
Author: Michel Dänzer <michel.daenzer@amd.com>
modesetting: Include dix-config.h from dumb_bo.c

Fixes mmap failures with 32-bit builds.

Signed-off-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4962c8e08842d9d3ca66d254b1ce4cacc4fb3756
Author: Michel Dänzer <michel.danzer@amd.com>
Date:   Tue Mar 17 10:21:12 2015 +0900

Add AC_SYS_LARGEFILE defines to dix-config.h

Without this, AC_SYS_LARGEFILE doesn't actually have any effect.

Signed-off-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0409b6e6d63e9cfb5dc71bb27de4b1ed0152dd9b
Merge: c39c3a9750 23702dd268
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 11 16:50:43 2015 -0700

Merge remote-tracking branch 'evelikov/master'

commit c39c3a9750dc384c0757a0990c07b5d7b2fe97a
Merge: 6b65e96189 7470578520
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 11 16:34:48 2015 -0700

Merge remote-tracking branch 'ajax/xserver-next'

commit 6b65e961894b9ed53066d22cfd218b12c3f361ca
Author: Robert Ancell <robert.ancell@canonical.com>
Date:   Wed May 6 15:07:21 2015 +1200

xwayland: Fix error strings

Fix missing newlines from error string and fix grammar.

Signed-off-by: Robert Ancell <robert.ancell@canonical.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
The code in `drmMode_set_cursor` does not properly handle the case where `drmModeSetCursor2` returns any other error than EINVAL and silently fails to set a cursor.

So only return when the `drmModeSetCursor2` succeeds (i.e returns 0) and disable the cursor2 usage on EINVAL.

References: https://bugzilla.redhat.com/show_bug.cgi?id=1205725
Signed-off-by: Adel Gadllah <adel.gadllah@gmail.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

We don't even need to simulate button clicks; it's done automatically. This also fixes scrolling in Qt5 apps.

Signed-off-by: Dima Ryazanov <dima@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

If a device does not have any valuators, it makes no sense to set the device transformation. Return a BadMatch error to let the caller know that they're trying something stupid.
Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fa62ca68ef8be7f63cd0b899d9fae3366ca9350cf
Author: Rui Matos <tiagomatos@gmail.com>
Date:  Sat Apr 25 21:19:25 2015 +0200

dix/events: Set currentTime to the given time stamp in NoticeTime

The refactoring in commit efc1035ca958f2c9d266338a308518a0834b1773
removed the actual update of currentTime.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 26e50e8b2cb0d050b5ecc02d47488b53ecc08b
Merge: 28ff661e73 c7b49bdbb9
Author: Keith Packard <keithp@keithp.com>
Date:  Mon May 11 15:36:53 2015 -0700

    Merge remote-tracking branch 'jturney/mingw-build-fixes'

commit 7470578520e90b6402b2509cd0c51fd4fd84849f
Author: Brent Collins <bcollins@trustedcs.com>
Date:  Thu May 7 15:10:19 2015 -0400

    shm: Fix xselinux resource initialization for xinerama pixmaps

    This is necessary to avoid a NULL pointer deference when the pixmap is
    used later.

    [ajax: massaged commit message, fixed it to compile]

    Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=89748
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Brent Collins <bcollins@trustedcs.com>

commit bcec9f867d19e954a46c2654a79782bff6c6f6c
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:  Sat Feb 14 10:36:44 2015 +0000

    shm: Fix use-after-free in ShmDestroyPixmap
We pass the pPixmap->drawable.id to the ShmDetachSegment function after
the pPixmap is freed. Fortunately, we don't use the value inside
ShmDetachSegment and can simply pass zero instead.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Michel Dänzer <michel@daenzer.net>

commit d61ae18074e53c2cdefb13cc37693b526160d6ca7
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Wed Mar 4 12:16:29 2015 +0000

glx/dri2: Disable AIGLX if indirect GLX is disabled

There is no point in setting up the acceleration for indirect GLX if
indirect GLX is itself disabled.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 1af15aa278edcf6f6de94774350e34a80883c24
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Apr 10 10:07:38 2015 +0200
dix: Fix image byte order on big endian hardware

Make sure X_BIG_ENDIAN/X_LITTLE_ENDIAN are defined before actually using
them.

Otherwise, image byte order could be wrong on big endian hardware even
though endianess detection is correct.

Reported-by: Tim Waugh <twaugh@redhat.com>
Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 28159eff6badf6181b255f26d1f444abe81c05b7
Author: Jason Gerecke <killertofu@gmail.com>
Date:   Thu Apr 30 18:06:14 2015 -0700
xfree86: Return NULL from xf86CompatOutput if no compat_output is defined

If no compat_output is defined, we inadvertently (attempt to) return
whatever data is at index -1. Instead, return NULL since that's what
callers are expecting.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jason Gerecke <jason.gerecke@wacom.com>
commit cad831f39861435cb94f4e90a73f7f0b62d1a4a1
Author: Robert Ancell <robert.ancell@canonical.com>
Date: Wed May 6 15:07:21 2015 +1200

xwayland: Fix error strings

Fix missing newlines from error string and fix grammar.

Signed-off-by: Robert Ancell <robert.ancell@canonical.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>

commit 8fb8bb3062f1a06621ab7030a9e89d5e8367b35
Author: Dave Airlie <airlied@redhat.com>
Date: Mon Mar 23 11:33:23 2015 +1000

modesetting: add tile property support (v2.1)

This adds tiling support to the server modesetting driver, it retrieves the tile info from the kernel and translates it into the server format and exposes the property.

v2.1: fix resetting tile property (Chris)

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9257b1252da9092dd676fec9aabe2b33dfad272
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jan 28 17:35:21 2015 +1000

modesetting: add dynamic connector hotplug support (MST) (v3)

This is ported from the same code in the ati and intel drivers,

It uses the same option name as nvidia and the other DDXes to disable tearing down outputs as it is hard to avoid racing with clients.

v2: address two issues with DeleteUnusedDP12 enabled, reported by Daniel Martin,
  a) check we have a mode_output before destroying it
  b) only delete *unused* displays (thanks Aaron for clarifying)
  so we check if the output has a crtc and if it does we don't delete it.

v3: drop the option to delete unused displays, just encode behaviour into the randr spec.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 33422d160bff3117b413a62d82b168e84f1aa8f6
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 28 17:25:00 2015 +1000

modesetting: stop caching mode resources

There is no need to cache the mode resources and with dynamic
connectors for mst support we don't want to. So first clean that
up before adding dynamic connector support.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a9ac02f6949357619684dd98ff6cf05489e62e55
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Apr 1 12:13:51 2015 +1000

xf86Crtc/monitors: create initial monitors for tiled outputs

This creates an automatic monitor for a tiled monitor at startup.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit afd18bce6a81106a12fd750d5fa09d05c09d37a8
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Apr 1 14:32:00 2015 +1000

xf86Crtc: setup tiled monitors correctly in right of

This puts the tiles of the monitor in the right place at
X server startup.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit e472dd89420f671685c11b06d376ff146d54c3b8
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 28 11:07:13 2009 -0400

xf86Crtc: right-of placement by default.

Change the X server default to do right-of placement
at startup. This gives an option to allow drivers to
override this placement, which has been used for server
drivers where both heads are not in the same physical
place.
Been in Fedora for a few years, but for tiled monitors we really want something along these lines.

This is an ABI break.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 69e4b8e602e7b69c75988a447ec5b509b22402
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Mar 31 16:56:42 2015 +1000

xfree86: attempt to autoconfig gpu slave devices (v3)

This allows us to skip the screen section, the first Device section will get assigned to the screen, any remaining ones will get assigned to the GPUDevice sections for the screen.

v2: fix the skipping unsuitable screen logic (Aaron)
v3: fix segfault if not conf file (me, 5s after sending v2)

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3b6930c5d02d8fc0d22fe7955e1ef2af61727705
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Mar 31 16:42:36 2015 +1000

xserv: add xorg.conf support for gpu devices. (v2.1)

This allows gpu devices to be specified in xorg.conf Screen sections.

Section "Device"
  Driver "intel"
  Identifier "intel"
  Option "AccelMethod" "uxa"
EndSection

Section "Device"
  Driver "modesetting"
  Identifier "usb0"
EndSection

Section "Screen"
  Identifier "screen"
  Device "intel0"
This should allow for easier tweaking of driver options which currently mess up the GPU device discovery process.

v2: add error handling for more than 4 devices, (Emil)
fixup CONF_.defines to consistency
add MAX_GPUDEVICES define
(yes there is two defines, this is consistent with everywhere else).
remove braces around s1p (Mark Kettenis)
man page fixups (Aaron)
v2.1: fixup whitespace (Aaron)

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit c7b49bd8b9321fe9a7dc35f47b91cac85516988f
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 20 14:25:17 2015 +0000

os/utils.c: Fix prototype for Win32TempDir()

xorg/xserver/os/utils.c: In function 'Win32TempDir':
xorg/xserver/os/utils.c:1643:1: warning: old-style function definition [-Wold-style-definition]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit a9b4b7b79682dd367ce26c29a5de85807201851
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 20 14:25:53 2015 +0000

os/utils.c: Don't try to build os_move_fd() for WIN32

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 2b114d6a516ee584ff89b96b12ac91799b6d677
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Mar 20 14:29:58 2015 +0000

hw/xnest: Fix build for MinGW

Include the wrapped windows.h via X11/Xwindows.h before xcb_keysyms.h to avoid type clashes caused by the unwrapped windows.h that includes.
Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5bf3e5c8326f81655827dbd4c527f1a2ba09511
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Wed Mar 18 13:29:22 2015 +0000

hw/xwin/winclipboard: Link xwinclip with -lpthread

Link xwinclip with -lpthread to fix build for MinGW

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8363ef2764fe9c6877d1cb21d3ce7b6cf86f00d
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Mar 20 14:06:49 2015 +0000

os/xdmcp.c: Include Xtrans.h when building for WIN32

Xtrans.h must be included on WIN32 to prototype _XSERVTransWSAStartup()

xserver/os/xdmcp.c: In function ‘get_addr_by_name’:
xserver/os/xdmcp.c:1483:5: error: implicit declaration of function ‘_XSERVTransWSAStartup’ [-Werror=implicit-function-declaration]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 28ff661e73f4bdf0a9b7c84e70fa08fd30e482
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Apr 3 19:06:21 2015 -0700

Remove empty stub of $host_cpu case statement in configure.ac

Left behind when commit 5c12399b6c3a8d moved the xorg_bus_* settings elsewhere.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Thomas Klausner <wiz@NetBSD.org>

commit d4e85afac6578d5babc8bf97e00e85b00746fca9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Apr 3 19:01:40 2015 -0700

Accept x86_64 as well as i*86 for $host_cpu in Solaris on x86

Needed when using a compiler that defaults to 64-bit output when
configure is checking for $host_cpu.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Thomas Klausner <wiz@NetBSD.org>

commit 0018784c6de19444a8f970bc414796fe2a523a51
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 17:59:13 2015 -0700

Convert hw/dmx to new *allocarray functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit dc5aca28ab9ed091f087e56046400d63f1f192a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 17:30:05 2015 -0700

Convert hw/kdrive to new *allocarray functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit ae2dc01c7a371d69d5deb987f4185e7c3ccedd
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 17:23:33 2015 -0700

Convert hw/xnest & hw/vfb to new *allocarray functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 4cb1034906eeec8e8442d70918beaf4eb1f6e44
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 17:12:06 2015 -0700

Convert hw/xfree86 to new *allocarray functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit f59236c2865d22ec6f0b2d1ba303213af10cd02e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 15:05:30 2015 -0700

Convert glamor & glx to new *allocarray functions

v2: fixup whitespace
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 7ac280287491fe06127d9f6efc504217e21c780e6
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 14:58:50 2015 -0700

Convert mi & miext to new *allocarray functions

v2: remove now useless parentheses

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 70f4a0e6bd18055cc9cb6685253bf5e07b125657
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 14:40:39 2015 -0700

Convert exa & fb to new *allocarray functions

v2: fixup whitespace

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 4fe6b03b97ab8d8dbb32e4908e46be350d7f7d336f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 14:36:07 2015 -0700

Convert XKB to new *allocarray functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Acked-by: Daniel Stone <daniels@collabora.com>

commit 1c56ac63e040280498c4a9d67b48c35b60070821
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 21 13:42:12 2015 -0700

Convert top level extensions to new *allocarray functions

v2: remove now useless parentheses

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
commit b9e665c8b2f048feb3064ce412e0b3e9eb6797b0
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Mar 21 10:52:29 2015 -0700

Convert dix/* to new *allocarray functions

v2: remove now useless parentheses

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit df4e41f6d47cdeab5155824557ed8ab4ec4dc659
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Mar 21 10:08:25 2015 -0700

Convert os/* to new *allocarray functions

v2: remove now useless parentheses

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit ae75d50395fd77a6bc382ba73e923e460764c702
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Mar 21 09:28:07 2015 -0700

Add no-fail equivalents of allocarray & reallocarray

v2: Remove extra ‘s’ from comment

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit c213b929d14aaf2f4523d638abc762eaaa873cf83
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Mar 21 08:58:04 2015 -0700

Add xallocarray() helper macro

Uses reallocarray to perform integer overflow detection when allocating
an array, using NULL as the previous pointer to force a new allocation.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 0887c9463fc7d36d7874e7f978df4109542f7307
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Import reallocarray() from OpenBSD

Wrapper for realloc() that checks for overflow when multiplying arguments together, so we don't have to add overflow checks to every single call. For documentation on usage, see:
http://www.openbsd.org/cgi-bin/man.cgi/OpenBSD-current/man3/calloc.3

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Matt Turner <mattst88@gmail.com>

Add XNFcallocarray() to allow xnfcalloc() to check for overflow

The xnfcalloc() macro took two arguments but simply multiplied them together without checking for overflow and defeating any overflow checking that calloc() might have done. Let's not do that.

The original XNFcalloc() function is left for now to preserve driver ABI, but is marked as deprecated so it can be removed in a future round of ABI break/cleanup.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

Let calloc handle multiplication

It's going to multiply anyway, so if we have non-constant values, might as well let it do the multiplication instead of adding another multiply, and good versions of calloc will check for & avoid overflow in the process.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

Remove remaining doc references to Xalloc, Xrealloc, and Xfree
Functions were removed in commit cad9b053d52f62432

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 2af6d253b3f2ec4775412b4ae96a96b0b668ec827
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Feb 28 10:04:09 2015 -0800

Remove apSolaris.shar (old "aperture" kernel driver for Solaris)

Modern Solaris releases provide this functionality in the OS via the xsvc driver. Since the move to libpciaccess, nothing in Xorg uses this aperture driver any more.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit b1029716e41e252f149b82124a149da180607c96
Author: Ray Strode <rstrode@redhat.com>
Date: Thu Apr 16 11:28:16 2015 -0400

systemd-logind: don't second guess D-Bus default timeout

At the moment, the X server uses a non-default timeout for D-Bus messages to systemd-logind. The only timeouts normally used with D-Bus are:

1) Infinite
2) Default

Anything else is just as arbitrary as Default, and so rarely makes sense to use instead of Default.

Put another way, there's little reason to be fault tolerant against a local root running daemon (logind), that in some configurations, the X server already depends on for proper functionality.

This commit changes systemd-logind to just use the default timeouts.

Downstream-bug: https://bugzilla.redhat.com/show_bug.cgi?id=1209347
Signed-off-by: Ray Strode <rstrode@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 792e9251670ce94210df5c6d354059b6b97f4478
Author: Ray Strode <rstrode@redhat.com>
Date: Thu Apr 16 11:28:15 2015 -0400
systemd-logind: filter out non-signal messages from message filter

It's possible to receive a message reply in the message filter if a previous message call timed out locally before the reply arrived.

The message_filter function only handles signals, at the moment, and does not properly handle message replies.

This commit changes the message_filter function to filter out all non-signal messages, including spurious message replies.

Downstream-bug: https://bugzilla.redhat.com/show_bug.cgi?id=1209347
Signed-off-by: Ray Strode <rstrode@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 41932dfbc841a1adc6512d41085ea3f8ebebc42c
Author: Keith Packard <keithp@keithp.com>
Date: Wed Apr 8 07:45:28 2015 -0700

mi: Partial pie-slice filled arcs may need more space for spans

The mi filled arc code estimates that a filled arc will produce no more spans than the arc is tall. This is true for most arcs except for pie-slice arcs strictly between 180 and 360 degrees where the missing portion of the arc faces up or down such that we get two spans on some scanlines.

For those, we need to reserve room for another height/2 spans. This patch just does it for all partial pie-sliced arcs to make the test easier to understand; it's just over-allocating a bit of memory, so that's safe.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 21e7d2bb5cd810688bb905b6ed092497ca8a2c59
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Apr 8 14:07:52 2015 +0200

Re-enable non serverfd input devices immediately on vtenter

Non serverfd input devices will never get a systemd-logind dbus resume signal, causing them to never get re-enabled.

This commit changes xf86VTEnter() to enable them immediately, fixing this.

BugLink: https://bugs.freedesktop.org/show_bug.cgi?id=89756
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f1da6bf5d94911e78d2e27e6accf0c6e3aebf331
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 31 17:07:43 2015 -0700

Require randrproto version 1.5.0 or newer

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit e36236eade412dd3894f75f78a7b3d7c1037e6c3
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Dec 30 09:13:16 2014 -0800

xfree86: Add GPU screens even if there are no active GDevs

xf86platformProbeDev creates GPU screens for any platform devices that were not matched by a GDev in the loop above, but only if there was at least one device. This means that it's impossible to configure a device as a GPU screen if there is only one platform device that matches that driver.

Instead, create a GPU screen (if possible) for any platform device that was not claimed by the GDev loop.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Maarten Lankhorst <maarten.lankhorst@ubuntu.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit 4ecda6b594d771f401de467c2d58c0f552227a8
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Dec 30 09:13:15 2014 -0800

xfree86: Fix xf86_check_platform_slot's handling of PCI

If a PCI entity is found, xf86_check_platform_slot performs a device ID check against the xf86_platform_device passed in. However, it just returns immediately without checking the rest of the entities first. This leads to this situation happening:

1. The nvidia driver creates an entity 0 with bus.type == BUS_PCI
2. The intel driver creates entity 1 for its platform device, opening /dev/dri/card0
3. xf86platformProbeDev calls probeSingleDevice on the Intel platform device, which calls doPlatformProbe, which calls xf86_check_platform_slot.
4. xf86_check_platform_slot compares the Intel platform device against the
NVIDIA PCI entity. Since they don't have the same device ID, it returns TRUE.

5. doPlatformProbe calls xf86ClaimPlatformSlot, which creates a duplicate entity for the Intel one.

Fix this by only returning FALSE if the PCI ID matches, and continuing the loop otherwise. In the scenario above, this allows it to continue on to find the Intel platform device that matches the second entity.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Maarten Lankhorst <maarten.lankhorst@ubuntu.com>
Acked-by: Alex Deucher <alexander.deucher@amd.com>

commit e608f3521ea9b972a33ee62aa04a65958351c1c
Merge: d3b9c47c84 5de1383070
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 31 09:06:08 2015 -0700

    Merge remote-tracking branch 'airlied/for-keithp'

commit d3b9c47c849d0394935e0ca5c3af8affe738746
Author: Jon Turney <jon.turney@dronecode.org.uk>
Date:   Sun Mar 29 23:18:49 2015 +0100

    Fix XQuartz build

    Fix XQuartz build since commit e036cbfc "Make PseudoramiXExtensionInit() prototype more generally available"

    Add #include "nonsdk_extinit.h" to xprScreen.c

    Add #include "nonsdk_extinit.h" to miinitext.c under INXQUARTZ to provide declarations used under INXQUARTZ

    Signed-off-by: Jon Turney <jon.turney@dronecode.org.uk>
    Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
    Tested-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5de13830709a7f2d4d112d71e062f710ef466ab6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 16 09:56:50 2014 -0800

    randr: Use Monitor list for Xinerama

    This replaces the CRTC-based Xinerama implementation with one which uses Monitors instead, allowing clients to manipulate the Xinerama configuration through the RandR Monitor list.
Randr: Add Monitor support (v1.1)

Store the user-defined monitors in the RandR screen private.

Generate a list of monitors from both the user-defined ones and from any outputs not mentioned in one of the user-defined monitors. This list covers both the outputs in the main screen as well as any slaves.

v1.1: airlie: fix up primary skipping bug,
fix wrong height initialiser
add get_active flag from updated protocol.

xf86Crtc: add tile prop setting

Add support for drivers to set the tiling property. This is used by clients to work out the monitor tiles for DisplayID monitors.

Merge remote-tracking branch 'anholt/glamor-next'

Merge: 95e83ff87a e977b404d7
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 27 06:45:56 2015 -0700
glamor: * 1/size is faster than / size in VS

Pass the inverse of the texture size to glamor vertex shaders so that we multiply by that instead of dividing by the size as multiplication is generally faster than division.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 82634d2b69950e7e9a066c8c96bf2624ac26193a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Feb 9 13:45:44 2015 +0000

eyphr: Avoid a segfault with 'DISPLAY= Xephyr -glamor'

eyphr_glamor_connect() returns NULL if we failed, but applying xcb_connection_has_error() to NULL is not permitted.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Daniel Martin <consume.noise@gmail.com>

commit 391bcf77db96ff227e504c213aa5d5db09b6a050
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 23 11:58:59 2015 -0500

glamor: Fix up indentation

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 0669babf2b5b50cfc185b0f714671b2c2b368778
Author: Matt Turner <mattst88@gmail.com>
Date:   Wed Mar 4 13:42:48 2015 -0800

glamor: Perform texture2D() separately from swizzle.

The texture2D() happens in each branch, so we may as well do it as early as possible and hide some of its latency in the branching instructions. Moving it outside the (uniform) control flow reduces the number of instructions in the fs_source shader from 64 to 46 and in the set_alpha_source shader from 69 to 47 on Haswell.

Signed-off-by: Eric Anholt <eric@anholt.net>
glamor: Add a helper function for the common GL_QUADS fallback pattern.

We should do better than this with an index buffer, but for now at least make it so that we don't have to copy the same code to new places.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 909a406aa239b8d231d6f63ce05a3e4a2bc3cb07
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Dec 28 19:39:45 2014 -1000

glamor: Don't optimize out scissor updates in CopyArea.

This possibly is a minor hit for immediate mode renderers (no difference on copypixin100 on my hsw, n=12), but it gives important information about drawing bounds to a deferred renderer (3.1x improvement in copypixwin100 on vc4).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6ba6cc57e17ae5b7db020a1f3180ab55076eb48
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Dec 27 09:00:58 2014 -1000

glamor: Just set the logic op to what we want at the start of all rendering.

By dropping the unconditional logic op disable at the end of rendering, this fixes GL errors being thrown in GLES2 contexts (which don't have logic ops). On desktop, this also means a little less overhead per draw call from taking one less trip through the glEnable/glDisable switch statement of doom in Mesa.

The exchange here is that we end up taking a trip through it in the XV, Render, and gradient-generation paths. If the glEnable() is actually costly, we should probably cache our logic op state in our screen, since there's no way the GL could make that switch statement as cheap as the caller caching it would be.

v2: Don't forget to set the logic op in Xephyr's drawing.
glamor: Fix build when configured --enable-glamor --disable-xshmfence

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Signed-off-by: Eric Anholt <eric@anholt.net>
 Reviewed-by: Eric Anholt <eric@anholt.net>

commit 8102927282d5134493e5009a876a6b01a68d1f97
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Feb 5 12:52:02 2015 +0000

glamor: Fix build when configured --enable-glamor --disable-xshmfence

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Signed-off-by: Eric Anholt <eric@anholt.net>
 Reviewed-by: Eric Anholt <eric@anholt.net>

commit 4218a1e066cf39bb980ebbc9f69536c85232da5c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Thu Feb 5 11:59:22 2015 +0100

glamor: check max native ALU instructions

When using glamor (either in Xephyr or Xwayland) on hardware with too
low instructions limit, glamor fallbacks to sw due to large shaders.

This makes glamor unbearably slow on such hardware.

Check reported value for GL_MAX_PROGRAM_NATIVE_ALU_INSTRUCTIONS_ARB
and fail in glamor_init() if the limit is lower than 128.

 Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=88316
 Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
 Signed-off-by: Eric Anholt <eric@anholt.net>
 Reviewed-by: Eric Anholt <eric@anholt.net>

commit e0788a03144186522fd0ef0e9c954e2744b40275
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 29 23:47:23 2014 -0700

glamor: Eliminate GLAMOR_TEXTURE_LARGE pixmap type

Initialize full pixmap private for all pixmaps, including block
dimensions and counts so that no checks are needed when walking the
fbos.

 Signed-off-by: Keith Packard <keithp@keithp.com>
 Signed-off-by: Eric Anholt <eric@anholt.net>
 Reviewed-by: Eric Anholt <eric@anholt.net>

commit cc731ce0ca4d6c5e8d9e1130864e652a814644b4
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 29 23:20:11 2014 -0700

glamor: Create inline tests for small/large pixmaps

This will let us eliminate the pixmap types shortly

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 020fcc582837b80b20843a09c1e28fa96096fe6b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 29 23:08:57 2014 -0700

glamor: Eliminate separate 'large' pixmap private structure

Just embed the large elements in the regular pixmap private and collapse the union to a single struct.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9ef5cbf8ab8a51941d469bfccaca6cbfb7838d1ef
Author: Keith Packard <keithp@keithp.com>

glamor: Remove unused glamorPixmap_private_atlas_t

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit af687396f1875de0a45683aad4fd5a9a2e00f10d
Author: Keith Packard <keithp@keithp.com>

glamor: Remove screen private and pixmap ptrs from pixmap private and fbo

There's no reason to waste memory storing redundant copies of the same pointer all over the system; just pass in pointers as necessary to each function.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
glamor: Remove remaining support for FBOs not matching pixmap size

The core rendering code already requires that FBOs be allocated at exactly the pixmap size so that tiling and stippling work correctly. Remove the allocation support for that, along with the render code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: Eliminate GLAMOR_TEXTURE_PACK pixmap type

This is not used anywhere

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: Eliminate GLAMOR_SEPARATE_TEXTURE pixmap type

This was only used to signal when we couldn't ask the DDX to draw to a pixmap; now that we have no DDX-based fallbacks, we don't need to have this type.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: Remove ddx fallback check functions

With no DDX-based fallback support, we can remove these functions as
they are no longer called.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 90d326fcc687e6d6d4b308f6272edecf8145a17
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 29 20:40:21 2014 -0700

glamor: Remove _nf rendering functions

These were used by the non-standard glamor implementation in the intel driver.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 697f8581e04a93862a6049cc982d01d25f9a0410
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 29 20:30:12 2014 -0700

glamor: Eliminate GLAMOR_USE_SCREEN and GLAMOR_USE_PICTURE_SCREEN

Remove these defines as we start to remove support for non-standard glamor layering as used by the intel driver.

v2: Rebase on the blockhandler change and the Xephyr init failure change (by anholt), fix stray NO_DRI3 addition to xwayland.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 28ff815c4b32c88bd9007fd79f2acf3682a4b4db
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 29 20:20:29 2014 -0700

glamor: Eliminate GLAMOR_CREATE_PIXMAP_MAP and GLAMOR_MEMORY_MAP

GLAMOR_MEMORY_MAP was only used with GLAMOR_CREATE_PIXMAP_MAP, and GLAMOR_CREATE_PIXMAP_MAP doesn't appear to be used anywhere, so just remove both of them.

v2: Fix a stray whitespace bug that was introduced (change by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
glamor: GL_TEXTURE_MAX_LEVEL is not available on GLES2

Remove the calls to GL_TEXTURE_MAX_LEVEL. Setting the filtering is a sufficient hint to the driver about texture mipmap allocation.

glamor: Use GL_FRAMEBUFFER instead of GL_READ_FRAMEBUFFER

The latter might not be available on GLES2.

glamor: do not check for gl errors in glamor_build_program

According to Eric Anholt the check for glGetError is not needed here. Because a opengl error might be set before this function is called keeping the check could result in glamor_build_program returning failure when building the shader succeeded.
glamor: only use (un)pack_subimage when available

Check for GL_EXT_unpack_subimage and GL_NV_pack_subimage to check if GL_(UN)PACK_ROW_LENGTH is available. Set the offsets manually to prevent calls to GL_(UN)PACK_SKIP_*.

v2: Check support for GL_NV_pack_subimage as suggested by Matt Turner.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@ubuntu.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 4f534c26c64cc1edd33b04d30e4df818b7ae55d9
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Jan 28 16:08:26 2015 +0100

xwayland: Add dependency on glamor libs

So that Xwayland gets re-linked each time glamor is modified.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 251a067993658fd02f158efef36476f898ec238e3c
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Feb 2 10:41:06 2015 +0100

ephyr: Fail if glamor is requested but not usable

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 23702dd2689e2e1e65be5767ac0303a985bb04a0
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Mar 19 12:26:29 2015 +0000

randr: coding style fixes

In most of xserver code-base we define new functions at column 0, with their return type provided on the previous line. Two functions did not follow this rule so update them, and get them wrapped up to 80 as an added bonus.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit 739e8fac0e9d8d4c1653e53a8f3ce2d38b3de320
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:    Thu Mar 19 12:22:18 2015 +0000

randr: wrap long line

Also make use of total_name_len variable for consistency.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 363cd0e0b499ea8c32b2aa5cf7ea0f0a56b4c3ef
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:    Thu Mar 19 12:19:23 2015 +0000

randr: use local variables where possible

This will allow us to make the code more readable, and the lines will
fit within 80 columns.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 93ef0e580e9cdbc739046a0873971d402525ef00
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:    Thu Mar 19 12:40:06 2015 +0000

randr: use randr: prefix in ErrorF()

To provide some information about the origin of the message.

Cc: Dave Airlie <airlied@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit a08ee773983c44ebb893f10a1dcfa443f2734277
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:    Thu Mar 19 12:36:50 2015 +0000

randr: remove chatty error messages

All of these seem like left over from developments stage. Remove them as
they can cause excessive flood in the logs.

Cc: Dave Airlie <airlied@redhat.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit a34d29c2edd786f0bba0e7c334f4174eeeb71d2
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Sun Mar 8 17:56:58 2015 +0000

configure.ac: remove remaining TLS references

No longer used with the removal of the GL dispatch (glapi) from libglx a
few releases ago.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 95e83ff87ab0149ab01e9299524dfbe37d9b21a2
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jul 12 02:00:43 2012 +0100

Don't allow both RandR XINERAMA and pseudoramiX XINERAMA extensions to register

Prevent RRXinerama from activating if PseudoramiX is, so we don't get XINERAMA
listed twice in the list of extensions. I think this is otherwise benign, as
the PseudoramiX XINERAMA gets registered first and thus handles all requests.

Perhaps AddExtension() ought to warn us if the extension name is already
registered?

This appears to be a long-standing bug seen in XQuartz, and now in XWin as well.

Future work: Perhaps since RRXinerama isn't actually doing anything useful but
faking it when we have one screen, it seems that the PseudoramiX code could be
also used in that case.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 234fe391802b114e96d60a6630f71f8e4fb726c
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Nov 7 13:38:20 2014 +0000

hw/xwin: Report OS version in log

Report OS version in log
Report if WoW64 is in use
Manifest for compatibility with Windows versions, so we don't get lied to by GetVersionEx()
Also, make the description in the manifest a bit more generic

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
hw/xwin: Remove Shadow DirectDraw engine

Maybe a long time ago this made some kind of sense, but now there's no good reason to ever use this, rather than the Shadow DirectDraw NonLocking engine.

Also remove screen private data members used by other removed engines.

Also remove no longer needed OS version check in winDetectSupportedEngines()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

hw/xwin: Only set native positions if XINERAMA is enabled

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

hw/xwin: Register native screens with pseudoramiX

Update man page to document pseudo-xinerama

v2: Make the use of PseudoramiXExtensionInit() match the prototype
v3: Update for nonsdk_extinit.h

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Make PseudoramiXExtensionInit() prototype more generally available

Make PseudoramiXExtensionInit() prototype available to hw/xwin
Rather than avoiding a reference to it being pulled in to Xorg by sddsyms by hiding this prototype behind the INXQUARTZ define, which is only defined when building Xquartz, introduce nonsdk_extinit.h and move it there.

(The only remaining use of INXQUARTZ is in mi/miiniext.c, in order to do PseudoramiXExtensionInit() at the point apparently needed by Xquartz)

Also remove duplicate declaration of noPseudoramiXExtension from pseudoramiX.h

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3aad9b7556391b0f55e46ba13ced5e58d8fd47f7
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Nov 7 20:54:10 2011 +0000

hw/xwin: Turn on -hostintitle by default

Turn on -hostintitle by default
Provide -nohostintitle to disable if needed

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b2aaf69e62f4109fbb8aa9f39e9bd2571abb29dfb
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Jun 28 14:22:07 2012 +0100

hw/xwin: Report Cygwin version information in log

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d02f9f611c8d3ba7ca4be17ce65eq2ca3c5527f71c2
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Mar 16 16:29:29 2015 +0000

hw/xwin/glx: Improve code generator to deal with latest Khronos OpenGL registry XML

Improve the parsing of the <proto> XML element

Include all text from the param element, in the order it appears in the xml document, as part of the formal parameter declaration

This is needed to correctly handle the XML description added in svn r27498 of glPathGlyphIndexRangeNV()'s baseAndCount parameter of type GLuint[2]
This fixes the way the parameter declaration is generated so it is in the correct form 'GLuint baseAndCount_[2]' and not 'GLuint baseAndCount[2]' .

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

$ fgrep -r "\%\.*\*s" *
hw/dmx/config/scanner.l: fprintf(stderr, "parse error on line %d at token \"\%\.*\*s\"\n",
hw/dmx/dmlog.c: ErrorF("\%s\ ddm\[i%\d/\%\.*\*s]\: ", type,
hw/dmx/input/dmxinputinit.c: dmxLogCont(dmxInfo, "\d\[i%\d/\%\.*\*s",
os/access.c: ErrorF("Xserver: siAddMatch(): type = %s, value = %\.*\*s -- %\*n",
os/access.c: (\"Xserver: siCheckAddr(): type = %s, value = %\.*\*s, len = %d -- %\*n",
os/xdmcp.c: FatalError("XDMCP fatal error: %\%\.*\*s\n", type,

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

See also:
https://bugs.freedesktop.org/show_bug.cgi?id=66862
https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=758574

"\%\.*\*s" is also currently used in a few other places, so teach vpnprintf() how to handle it
os: XDMCP options like -query etc. should imply -listen tcp

In X server 1.17, the default configuration is now -nolisten tcp. In this configuration, XDMCP options don't work usefully, as the X server is not listening on the port for the display that it tells the display manager to connect to.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f42520c5f151bda25e52ae8b0408a421c3fba7e5
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Wed Feb 4 17:04:45 2015 +0000

ephyr: Avoid a segfault with 'DISPLAY= Xephy -glamor'

ephyr_glamor_connect() returns NULL if we failed, but applying xcb_connection_has_error() to NULL is not permitted.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0a78b599b34cc8b5fe6fe82f90e90234e8ab7a56
Author: Jürg Billetter <j@bitron.ch>
Date: Sat Feb 7 18:13:21 2015 +0100

int10: Fix error check for pci_device_map_legacy

pci_device_map_legacy returns 0 on success.

Signed-off-by: Jürg Billetter <j@bitron.ch>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 21b896939e5bb242f3aacc37baf12379e43254b6
Author: Egbert Eich <eich@freedesktop.org>
Date: Tue Mar 3 16:27:05 2015 +0100

symbols: Fix sdksyms.sh to cope with gcc5

Gcc5 adds additional lines stating line numbers before and after __attribute__() which need to be skipped.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Clear ListenTransConns entries in CloseWellKnownConnections

Since _XSERVTransClose frees the connection pointer passed to it, remove that pointer from the array, so we don't try to double free it if we come back into CloseWellKnownConnections again.

Should fix https://bugzilla.yoctoproject.org/show_bug.cgi?id=6665 in which the shutdown section of the main() loop called CloseWellKnownConnections() and then moved on to ddxGiveUp(), which failed to release the VT and thus called AbortServer(), which called CloseWellKnownConnections() again.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

autogen.sh: use quoted string variables

Place quotes around the $srcdir, $ORIGDIR and $0 variables to prevent fall-outs, when they contain space.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Exposé GetMaster to modules.

Add _X_EXPORT to GetMaster function. It is required by tigervnc's VNC module.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Drop valuator mask argument from GetKeyboardEvents

Nothing was using it and if anyone had they would've gotten a warning and noticed that it doesn't actually work. Drop this, it has been unused for years.

Input ABI 22

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 9d9bd38fe1454590c303dc936ddac913808bf881
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Feb 17 14:40:27 2015 +1000

os/access: fix regression in server interpreted auth

This was reported on irc on Fedora when rawhide went to 1.17.1.

regression occured in: 2566835b4374edeb3e5a8353d4f7e9e7e4c851e57
os: Eliminate uninitialized value warnings from access.c

siAddrMatch doesn't need addr to be a useful value, it checks some things like localuser without having an address at all.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3a06faf3fcdb7451125a46181f9152e8e59e9770
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Feb 10 22:16:49 2015 -0800

Mark development version for 1.18

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4a758f59a8a65c313244eo6852745c8e180ff247
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 22:38:26 2014 -0800

dmx: include header for DMXExtensionInit() in dmx.c

 Gets rid of gcc 4.8 warning:

dmx.c:1193:1: warning: no previous prototype for ‘DMXExtensionInit’ [-Wmissing-prototypes]
DMXExtensionInit(void)
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a0e44ddf0b0c641e7896a55abf26621ae3d17e337
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 22:33:54 2014 -0800

dmx: constify GCOps & GCFuncs pointers

Gets rid of 16 instances of gcc 4.8 warnings:

In file included from dmxgc.c:41:0:
dmx.h:327:23: warning: assignment discards ‘const’ qualifier from
pointer target type [enabled by default]
   (_saved)->_entry = (_actual)->_entry; \
   ^
dmxgc.h:80:5: note: in expansion of macro ‘DMX_WRAP’
   DMX_WRAP(funcs, &dmxGCFuncs, _pGCPriv, (_pGC)); \
   ^
dmxgc.c:192:5: note: in expansion of macro ‘DMX_GC_FUNC_EPILOGUE’
   DMX_GC_FUNC_EPILOGUE(pGC);
   ^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9682c47e228962e4008855c4da74677487426785e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 22:20:24 2014 -0800

dmx: Mark glxIsExtensionSupported as a const char *

Gets rid of 9 instances of gcc 4.8 warning:

glxcmds.c: In function ‘CreateContext’:
glxcmds.c:378:13: warning: passing argument 1 of ‘glxIsExtensionSupported’
discards ‘const’ qualifier from pointer target type [enabled by default]
   else if (glxIsExtensionSupported("GLX_SGIX_fbconfig")) { \
   ^
In file included from glxserver.h:49:0,
   from glxcmds.c:41:
glxscreens.h:53:12: note: expected ‘char *’ but argument is of type
   ‘const char *’
   extern int glxIsExtensionSupported(char *ext);
dmx: remove redundant redeclarations of variables from other headers

Gets rid of these gcc 4.8 warnings:

dmxcb.c:50:12: warning: redundant redeclaration of ‘PanoramiXPixWidth’ [-Wredundant-decls]
extern int PanoramiXPixWidth;
^ In file included from dmxcb.c:49:0:
./Xext/panoramiXsrv.h:12:22: note: previous declaration of ‘PanoramiXPixWidth’ was here
extern _X_EXPORT int PanoramiXPixWidth;
^
dmxcb.c:51:12: warning: redundant redeclaration of ‘PanoramiXPixHeight’ [-Wredundant-decls]
extern int PanoramiXPixHeight;
^ In file included from dmxcb.c:49:0:
./Xext/panoramiXsrv.h:13:22: note: previous declaration of ‘PanoramiXPixHeight’ was here
extern _X_EXPORT int PanoramiXPixHeight;
^
dmxcb.c:52:12: warning: redundant redeclaration of ‘PanoramiXNumScreens’ [-Wredundant-decls]
extern int PanoramiXNumScreens;
^ In file included from dmxcb.c:49:0:
./Xext/panoramiXsrv.h:11:22: note: previous declaration of ‘PanoramiXNumScreens’ was here
extern _X_EXPORT int PanoramiXNumScreens;
^

dmxpict.c:60:12: warning: redundant redeclaration of ‘RenderErrBase’ [-Wredundant-decls]
extern int RenderErrBase;
^ In file included from ./render/glyphstr.h:29:0,
from ./render/picturestr.h:28,
from dmx.h:65,
from dmxpict.c:42:

../render/picture.h:176:22: note: previous declaration of ‘RenderErrBase’
was here

extern _X_EXPORT int RenderErrBase;
^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

dmx: remove redundant declaration of dmxFontPrivateIndex from dmxfont.h

Gets rid of 8 instances of gcc 4.8 warning:

In file included from glxcmds.c:38:0:
../hw/dmx/dmxfont.h:57:12: warning: redundant redeclaration of
‘dmxFontPrivateIndex’ [-Wredundant-decls]
extern int dmxFontPrivateIndex;
^

In file included from glxcmds.c:35:0:
../hw/dmx/dmx.h:388:12: note: previous declaration of
‘dmxFontPrivateIndex’ was here
extern int dmxFontPrivateIndex; /**< Private index for Fonts */
^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

dmx: glxproxy prototype cleanup

Gets rid of 107 -Wmissing-prototypes & -Wredundant-decls warnings
from gcc 4.8

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit bd563fd48f909094d6660854e97811ad7e676ddf
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
dmx: more unshadowing of variables

Gets rid of gcc 4.8 warnings:

dmixininputinit.c: In function ‘dmxInputScanForExtensions’:
dmixininputinit.c:877:14: warning: declaration of ‘display’ shadows a global declaration [-Wshadow]
   Display *display;
^
In file included from ../../../include/windowstr.h:60:0,
   from dmixininputinit.c:72:
   ../../../include/opaque.h:52:30: warning: shadowed declaration is here [-Wshadow]
   extern _X_EXPORT const char *display;
   ^

glxcmds.c: In function ‘__glXCreatePbuffer’:
glxcmds.c:3397:21: warning: declaration of ‘pc’ shadows a parameter [-Wshadow]
   CARD32 *pc = (CARD32 *) (be_req + 1);
^

__glXCreatePbuffer(__GLXclientState * cl, GLbyte * pc)
   ^

glxscreens.c: In function ‘CalcServerVersionAndExtensions’:
glxcmds.c:139:35: warning: declaration of ‘req’ shadows a previous local [-Wshadow]
   xGLXQueryServerStringReq *req;
^

xGLXQueryServerStringReply reply;
   ^

xGLXQueryVersionReply reply;
   ^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 57e08fae82f733304200a473f55b86e689404c13
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 21:07:12 2014 -0800

   dmx: attempt to untangle nested loops using same index variable
This doesn't just make gcc sad, it makes my brain sad.

Change from:
```
for (i = 0; i < dmxNumScreens; i++) {
    int i;
    for (i = 0; i < nconfigs; i++) {
        for (j = 0; j < dmxScreen->beNumVisuals; j++) {

        }
    }
}
```

to the easier to follow:
```
for (i = 0; i < dmxNumScreens; i++) {
    for (j = 0; j < nconfigs; j++) {
        for (k = 0; k < dmxScreen->beNumVisuals; k++) {

        }
    }
}
```

Gets rid of gcc 4.8 warning:
```
dmxinit.c: In function ‘InitOutput’:  
dmxinit.c:765:17: warning: declaration of ‘i’ shadows a previous local [-Wshadow]  
    int i;  
    ^  
dmxinit.c:608:9: warning: shadowed declaration is here [-Wshadow]  
    int i;  
    ^
```

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commits 0fbebad72428abbc9fc3fa9f406f7a7e1b9d95b2
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Dec 12 20:53:33 2014 -0800

dmx: remove unused variables

Gets rid of gcc 4.8 warnings:
```
dmxscrinit.c: In function ‘dmxBEScreenInit’:  
dmxscrinit.c:83:15: warning: unused variable ‘gcvals’ [-Wunused-variable]  
    XGCValues gcvals;  
    ^
```

```
dmxwindow.c: In function ‘dmxResizeWindow’:  
dmxwindow.c:860:19: warning: variable ‘pSibPriv’ set but not used [-Wunused-but-set-variable]  
    dmxWinPrivPtr pSibPriv;  
    ^
```

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit f358f0d50cadaf10f7d97e21da00419a4a37c4e1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 19:09:36 2014 -0800

dmx: fix printf format argument warnings

Gets rid of these gcc 4.8 warnings:

dmxinit.c: In function ‘dmxErrorHandler’:
dmxinit.c:167:16: warning: format ‘%x’ expects argument of type ‘unsigned int’,
but argument 3 has type ‘XID64’ [-Wformat=]
ev->resourceid);
^
dmxinit.c:171:16: warning: format ‘%x’ expects argument of type ‘unsigned int’,
but argument 3 has type ‘XID64’ [-Wformat=]
ev->resourceid);
^
dmxinit.c:175:16: warning: format ‘%x’ expects argument of type ‘unsigned int’,
but argument 3 has type ‘XID64’ [-Wformat=]
ev->resourceid);
^
dmxinit.c:181:12: warning: format ‘%d’ expects argument of type ‘int’,
but argument 3 has type ‘long unsigned int’ [-Wformat=]
ev->serial);
^
dmxinit.c:183:12: warning: format ‘%d’ expects argument of type ‘int’,
but argument 3 has type ‘long unsigned int’ [-Wformat=]
dpy->request);
^
dmxinit.c: In function ‘InitOutput’:
dmxinit.c:637:9: warning: format ‘%d’ expects argument of type ‘int’,
but argument 3 has type ‘long unsigned int’ [-Wformat=]
  dmxLog(dmxInfo, "Generation: %dn", dmxGeneration);
^  

dmxprop.c: In function ‘dmxPropertyCheckOtherWindows’:
dmxprop.c:223:24: warning: format ‘%lu’ expects argument of type ‘long
unsigned int’, but argument 4 has type ‘Window’ [-Wformat=]
  dmxScreen->name, win, tp.value);
^  

dmxprop.c: In function ‘dmxPropertyWindow’:
dmxprop.c:364:16: warning: format ‘%lu’ expects argument of type ‘long
unsigned int’, but argument 5 has type ‘Window’ [-Wformat=]
  other->index, other->name, other->scrnWin);
^  
dmxprop.c:364:16: warning: format ‘%lu’ expects argument of type ‘long
unsigned int’, but argument 8 has type ‘Window’ [-Wformat=]
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 11af200b004b4810c9267e3e16449c3175c64d4a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 18:58:01 2014 -0800

dmx: move format strings inline so gcc can check

Gets rid of gcc 4.8 warnings:

dmxprint.c: In function 'dmxConfigPrintPair':
dmxprint.c:284:25: warning: format not a string literal,
argument types not checked [-Wformat-nonliteral]
    p->ysign < 0 ? '-' : '+' , p->y);
   ^
dmxprint.c:289:9: warning: format not a string literal,
argument types not checked [-Wformat-nonliteral]
    dmxConfigOutput(addSpace, 0, p->comment, format, p->x, p->y);
   ^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5e01eac10e915568324aff81b51d3af558757042
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 12 18:52:05 2014 -0800

dmx: Add _X_ATTRIBUTE_PRINTF to dmxConfigLog() & dmxConfigOutput()

Gets rid of gcc 4.8 warnings:

dmxparse.c: In function 'dmxConfigLog':
dmxparse.c:61:5: warning: function might be possible candidate for
'gnu_printf' format attribute [-Wsuggest-attribute=format]
    vprintf(format, args);  /* RATS: All calls to dmxConfigLog from
   ^

dmxprint.c: In function 'dmxConfigOutput':
dmxprint.c:149:9: warning: function might be possible candidate for
'gnu_printf' format attribute [-Wsuggest-attribute=format]
    pos += vfprintf(str, format, args);  /* assumes no newlines */

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Get rid of const warnings in XSERVER_INPUT_EVENT dtrace probe calls

Use typedefs to work around dtrace dropping const qualifiers from probe arguments when generating Xserver-dtrace.h. Add new probes.h header to avoid having to replicate these typedefs in every file with dtrace probes.

Gets rid of these warnings from gcc 4.8:
getevents.c:1096:9:
   warning: passing argument 6 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1096:9:
   warning: passing argument 7 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1651:9:
   warning: passing argument 6 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1651:9:
   warning: passing argument 7 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1791:9:
   warning: passing argument 6 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1791:9:
   warning: passing argument 7 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1921:9:
   warning: passing argument 6 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]
getevents.c:1921:9:
   warning: passing argument 7 of '__dtrace_Xserver___input__event' discards 'const' qualifier from pointer target type [enabled by default]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xkb: Check strings length against request size

Ensure that the given strings length in an XkbSetGeometry request remain
within the limits of the size of the request.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 81c90dc8f0aae3b65730409b1b615b5fa7280ebd
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Fri Jan 16 20:08:59 2015 +0100

xkb: Don't swap XkbSetGeometry data in the input buffer

The XkbSetGeometry request embeds data which needs to be swapped when the
server and the client have different endianess.

_XkbSetGeometry() invokes functions that swap these data directly in the
input buffer.

However, ProcXkbSetGeometry() may call _XkbSetGeometry() more than once
(if there is more than one keyboard), thus causing on swapped clients the
same data to be swapped twice in memory, further causing a server crash
because the strings lengths on the second time are way off bounds.

To allow _XkbSetGeometry() to run reliably more than once with swapped
clients, do not swap the data in the buffer, use variables instead.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 28f6427aec1f5a1982e1c01eff45af0d401bf659
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 2 07:41:06 2015 +0100

Update to version 1.17.0

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 697b696e5e24d0679f133183a3bb0852025377c2
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jan 30 09:59:49 2015 +1000

config/udev: Respect seat assignments when assigned devices

Jonathan Dieter posted a few patches to do this inside the Xorg
server but it makes no sense to do it there, just have the code
we use to probe the device list at startup check seat assignments
using the same code we check at hotplug time.
Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1183654
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Hans de Goede <hdegoede@redhat.com>
Tested-by: Jonathan Dieter <jdieter@lesbg.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit df1b401f57ad4b4925bad66684445b476562f26f
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 7 09:19:27 2015 +1000

randr: attempt to fix primary on slave output (v2)

If the user wants to set one of the slave devices as
the primary output, we shouldn't fail to do so,
we were returning BadMatch which was tripping up
gnome-settings-daemon and bad things ensues.

Fix all the places we use primaryOutput to work
out primaryCrtc and take it into a/c when slave
gpus are in use.

v2: review from Aaron, fix indent, unhide has_primary from
macro. I left the int vs Bool alone to be consistent with
code below, a future patch could fix both.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 62fcd364ac8c71a2db1db84b17b17cade6832492
Author: Adel Gadllah <adel.gadllah@gmail.com>
Date:   Sat Jan 3 21:12:25 2015 +0100

dri2: Set vdpau driver name if ddx does not provide any driver name

Currently when the ddx does not set any driver name we set DRI2 driver but
not the VDPAU driver name. The result is that VDPAU drivers will not get found
by libvdpau when the modesetting driver is being used.

Just assume that the VDPAU driver matches the DRI2 driver name, this is true
for nouveau, r300, r600 and radeonsi i.e all VDPAU drivers currently supported
by mesa.

Signed-off-by: Adel Gadllah <adel.gadllah@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
os: Fix timer race conditions

Fixing following kind of race-conditions -

```
WaitForSomething()

|        // timers -> timer-1 -> timer-2 -> null
while (timers && (int) (timers->expires - now) <= 0)
    // prototype - DoTimer(OsTimerPtr timer, CARD32 now, OsTimerPtr *prev)
    DoTimer(timers, now, &timers)

|        // timer-1 gets served and scheduled again;
|        // timers -> timer-2 -> timer-1 -> null

*prev = timer->next;
timer->next = NULL;   // timers -> null
// timers list gets corrupted here and timer-2 gets removed from list.
```

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=86288
Signed-off-by: Nikhil Mahale <nmahale@nvidia.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

v2: Apply warning fixes from Keith Packard <keithp@keithp.com>

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
modesetting: Return the crtc for a drawable even if it's rotated

All of our checks for what crtc we are on take rotation into account so we select the correct crtc. The only problem is that we weren't returning it we were rotated. This caused X to think DRI3 apps were not on any crtc and limit them to 1 FPS.

Signed-off-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3dcd591fa9b71a3dce58d612ca5970209d8386eb
Author: Jason Ekstrand <jason@jlekstrand.net>
Date:   Tue Jan 13 15:08:37 2015 -0800

modesetting: Add support for using RandR shadow buffers

This replaces the stubs for shadow buffer creation/allocation with actual functions and adds a shadow_destroy function. With this, we actually get shadow buffers and RandR now works properly. Most of this is copied from the xf86-video-intel driver and modified for modesetting.

v2 Jason Ekstrand <jason.ekstrand@intel.com>:
- Fix build with --disable-glamor
- Set the pixel data pointer in the pixmap header for dumb shadow bo's
- Call drmmode_create_bo with the right bpp

v2 Jason Ekstrand <jason.ekstrand@intel.com>:
- Make shadow buffers per-crtc and leave shadow_enable alone

Signed-off-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7c656bfcae1d68aeefd5e202b3c1569885f5d13d
Author: Jason Ekstrand <jason@jlekstrand.net>
Date:   Tue Jan 13 15:08:36 2015 -0800

modesetting: Add drmmode_bo_has_bo and drmmode_bo_map helper function

Signed-off-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b4703a5a6e529b78810db8d8782317f0b4e2f265
Author: Jason Ekstrand <jason@jlekstrand.net>
Date:   Tue Jan 13 15:08:35 2015 -0800
modesetting: Refactor drmmode_glamor_new_screen_pixmap

The original drmmode_glamor_new_screen_pixmap function was specific to the primary screen pixmap. This commit pulls the guts out into a new, more general, drmmode_set_pixmap_bo function for setting a buffer on a pixmap. The new function also properly tears down the glamor bits if the buffer being set is NULL. The drmmode_glamor_new_screen_pixmap function is now just a 3-line wrapper around drmmode_set_pixmap_bo.

v2 Jason Ekstrand <jason.ekstrand@intel.com>:
- Re-arranged code in drmmode_set_pixmap_bo and drmmode_glamor_handle_new_screen_pixmap so that glamor_set_screen_pixmap only gets called for the screen pixmap
- Guard the call to glamor_set_screen_pixmap with a drmmode->glamor check

Signed-off-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bb23f6f5bb278113c9e481875423b4d128180972
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jan 5 16:48:11 2015 -0500

dix: make RegionInit legal C++

The CVE fix in:

    commit 97015a07b9e15d8ec5608b95d95ec0eb51202acb
    Author: Alan Coopersmith <alan.coopersmith@oracle.com>
    Date:   Wed Jan 22 22:37:15 2014 -0800


offended the C++ demons:

    ./include/regionstr.h:147:45: error: invalid conversion from 'void*' to 'pixman_region16_data_t* {aka pixman_region16_data*}' [-fpermissive]

Normally this isn't a problem, because around here we have the sense and common decency to not use C++, but this does make tigervnc fail to build, which is a little rude of us.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 082931014811e587a9734cbf4d88fd948979b641
Author: Chris Wilson <chris@chris-wilson.co.uk>
dri2: SourceOffloads may be for DRI3 only

As a DDX may declare offload support without supporting DRI2 (because it is using an alternative acceleration mechanism like DRI3), when iterating the list of offload_source Screens to find a matching DRI2 provider we need to check before assuming it is DRI2 capable.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=88514
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Avoid possible null pointer dereference.

Signed-off-by: Carlos Olmedo Escobar <carlos.olmedo.e@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

randr: swap num-preferred field on RRGetOutputInfo reply

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=88614
Signed-off-by: Carlos Sánchez de La Lama <csanchezdll@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

drivers/modesetting: Save current BlockHandler on return in msBlockHandler

If the BlockHandler chain is modified while it is active, we need to re-fetch the current value and store it in our private for use the next time through.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit b3e496c6d21058147de9a11b78860e73c74db3cb
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jan 23 16:28:28 2015 +1000

glamor: use screen blockhandler rather than dix one (v3)

This adds glamor into the block handler call chain
in the correct place.

This should fix interactions between glamor and drivers
requiring damage from glamor.

v2: okay don't consolidate, just leave things wierd for now
remove blocokhandler in screen close.

v3: block handler wrapping the right way.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5af2f5b7d2f955586d0cb40eb30812f1893db22e
Author: Markus Wick <markus@selfnet.de>
Date:   Thu Jan 15 22:03:18 2015 +0100

xwayland: Set glamor filter to nearest

glEGLImageTargetTexture2DOES only set the first level.
Mesa handles this new texture as incomplete and renders a black screen.
We also want to prevent linear filtering.

https://bugs.freedesktop.org/show_bug.cgi?id=81800

Signed-off-by: Markus Wick <markus@selfnet.de>
Reviewed-and-Tested-by: Michel Dänzer <michel.danzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5f2e8ac51ccbf7c02f25c8cb7617df0238418cd1
Merge: 4e12d7b6f4 4301479508
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Jan 10 14:51:57 2015 +1300

Merge remote-tracking branch 'whot/for-keith'

commit 4e12d7b6f4489fa06475465993a3e1e1d896390b
Author: Jasper St. Pierre <jspierre@mecheye.net>
Date:   Sun Jan 4 23:27:32 2015 -0800
modesetting: Update the cursor without hiding it

In the new KMS APIs, the legacy drmModeSetCursor ioctl actually waits for a vblank after changing the cursor image before returning, meaning that the X server, in attempting to hide the cursor before updating its image, actually makes that hide *visible* for a full vblank.

It's unknown why the X server does this by default, but turn it off.

If we're with a legacy driver that doesn't support the modern drmModeSetCursor by waiting for a vblank before returning, we're going to get a tiny bit of tearing on the cursor plane. But between tearing with a new cursor image and tearing with a blank cursor image, I'd rather the former.

The only proper solution to this is an atomic ioctl that page flips all planes, including the cursor plane, at vblank time and at the same time.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 43014795087a0a8774dd9687f5967329b15f06a2
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Jan 5 16:44:22 2015 +0100

Synchronize capslock in Xnest and Xephyr

In Xnest or Xephyr, pressing CapsLock when focus is on another window does not update the state in the nested X server.

This is because when synchronizing the lock modifier, sending a keypress or a key release only is not sufficient to toggle the state, unlike regular modifiers, one has to emulate a full press/release to lock or unlock the modifier.

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 24b943132f90bc72ce8bd5dc954fe9ee8484edfc2
Author: Olivier Fourdan <fourdan@xfce.org>
Date:   Fri Jan 2 18:50:17 2015 +0100

Fix subwindow in Xi emulated events

Bug: 70790
Signed-off-by: Olivier Fourdan <fourdan@xfce.org>

commit b058dec281568d6a9c5b5e230c20eed096cbdc6d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 5 11:19:46 2015 +1000

mi: fix accidental x/y coordinate swap

Reported-by: Adam Greenblatt <adam.greenblatt@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 23a11fd85e12e94d29ee6d33715ac49684867b16
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jan 4 19:13:35 2015 -0800

doc: Create a script to filter xmlto output

This reduces the build log spam while still preserving the xmlto status to catch build failures correctly.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1c01633877caa4239f901f02fbe113926318d030
Merge: 3573855514 e774663fa5
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jan 4 17:02:25 2015 -0800

    Merge remote-tracking branch 'ajax/xserver-next'

commit 3573855514557a518de40a93b3c578f28c7d9c2b
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Wed Dec 3 13:49:37 2014 +0100

    Remove explicit dependency on $(WAYLAND_LIBS)

    Xwayland Makefile explicitly set its dependencies on WAYLAND_LIBS. If the libaries are installed in a non-standard path, WAYLAND_LIBS contains '-L/path/to/the/lib' which will fail at build time with:

    "No rule to make target '-L/path/to/the/lib', needed by 'Xwayland'.
    Stop"

    Remove that explicit dependency to avoid the problem (LDADD ought
to be enough to get the right libraries linked).

Signed-off-by: Olivier Fourdan <ofourdan@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit de89c6b8c6e81bad131c7f432e355cb42d233e87
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Dec 16 13:59:45 2014 +1000

xfree86: rename Xorg.bin to Xorg

If the suid wrapper is enabled, /usr/bin/Xorg is just a shell script that
execs either /usr/libexec/Xorg.bin directly or the Xorg.wrap binary which then
execeve's /usr/libexec/Xorg.bin.

Either way, we end up with Xorg.bin, which is problematic for two reasons:
* ps shows the command as Xorg.bin
* _COMM and _EXE in systemd's journal will both show Xorg.bin as well

There's not much we can do about the path, but having the actual command stay
as Xorg means better compatibility to existing scripts. And, the reason for
this path: the command
  journalctl _COMM=Xorg
works universally, regardless of whether the wrapper is used or not.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Acked-by: Hans de Goede <hdegoede@redhat.com>

commit ee21be132d4de1d6ef14e529fed7b75992e971beb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 11 10:32:45 2014 +1000

dix: offset touch root coordinates by ScreenRec origins (#86655)

For two ScreenRecs abs pointer positioning was working fine, but touch events
stuck to the lower/right edge on any screen but the one with a 0/0 origin.
Cause is a missing offset by the screen coordinates, causing the root
coordinates in the event to desktop-wide, not screen-wide.

Offset properly, just like we do for pointer events.

X.Org Bug 86655 <http://bugs.freedesktop.org/show_bug.cgi?id=86655>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dc777c346d5d452a53b13b917c45f6a1bad2f20b
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Jan 3 08:46:45 2015 -0800

dix: Allow zero-height PutImage requests

The length checking code validates PutImage height and byte width by
making sure that byte-width \( \geq \) INT32_MAX / height. If height is zero,
this generates a divide by zero exception. Allow zero height requests
explicitly, bypassing the INT32_MAX check.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 924996c41c419dda0f02a96aafdf52f7670ff4ea
Author: Michele Baldessari <michele@redhat.com>
Date:   Wed Dec 3 11:53:10 2014 -0500

ephyr: Implement per-screen colormaps

Xephyr's pseudocolor emulation added in:

    commit 81a3b6fe27567bf4f91033ece69996a6bf8d01a3
    Author: Matthew Allum <breakfast@10.am>
    Date:   Mon Nov 8 22:39:47 2004 +0000

      Add support to Xephyr for lower depths than hosts

only tracks one global colormap for the whole (Xephyr) display. Move
this to per-screen state so each screen's colormap can be correct.

[ajax: rebased to 1.17, cleaned up commit message]
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Michele Baldessari <michele@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7b076f0dfc0e7a98430b6cb1c43079c137d7d3a6c
Author: Carl Worth <cworth@cworth.org>
Date:   Thu Dec 11 19:09:48 2014 -0800

os/xsha1.c: Add license and copyright attribution.

I'm interested in copying this code to the mesa project, but before
doing that it seems prudent to have the license and copyright
attributions in place before copying that. To get this list of names I
went through:

    git log -- os/xsha1.c

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33640
and:

git log -- render/glyph.c

Signed-off-by: Keith Packard <keithp@keith.com>

commit 66726064204b869a24e5a8dc6e24daa5acb92bab
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Tue Dec 30 11:51:43 2014 -0800

modesetting: Fix build with --disable-glamor.

present.c: In function 'ms_present_flush':
present.c:204:9: error: implicit declaration of function 'glamor_block_handler'

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=87858
Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keith.com>

commit d723928870eea9fc2554abe137d6e57f7ad29e98
Author: Keith Packard <keithp@keith.com>
Date: Sat Dec 27 09:11:33 2014 -0800

glamor: Fix nlines in glamor_xv_put_image when src_y is odd

The number of lines of video to update in the texture needs to be computed from the height of the updated source, not the full height of the source.

Signed-off-by: Keith Packard <keithp@keith.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 09230a2d435aa7f893ad5022220e3eb39ff6db5
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Thu Dec 11 13:37:14 2014 -0800

modesetting: Add vblank synchronization support when using Present.

modesetting hooked up vblank support for DRI2, but was missing support for vbanks in Present.

This is mostly copy and pasted from Keith's code in the intel driver.

v2: Use ms_crtc_msc_to_kernel_msc in ms_present_queue_vblank to hook up the vblank_offset workaround for bogus MSC values (which the
DRI2 code already did).

Also simplify the ms_present_get_crtc function. vblank.c already implements the functionality; we just need to convert types.

v3: Fix ms_flush_drm_events return code. I'd copied code where 0 meant success into a function that returned a boolean, so the return code was always backwards.

Also add DebugPresent calls in ms_present_vblank_{handler,abort}.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3b5be33fc55b3090d996014fa56603ed9c1d411
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Thu Dec 11 13:48:04 2014 -0800

modesetting: Include glamor.h from driver.h.

We basically want it throughout the driver.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7d1fc04d27857c999bd732d54a0b36f5079449b8
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Thu Dec 18 17:58:18 2014 -0800

modesetting: Check DPMS mode in ms_covering_crtc().

crtc->enabled is insufficient; we should also make sure DPMS is on.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8affaade2c127ea08989c86e7d71cc9da3db1824
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Thu Dec 18 17:55:29 2014 -0800

modesetting: Track the CRTC's DPMS mode.
We don't want to try to vblank synchronize to monitors which are off.

In order to handle that properly, we need to know the CRTC's DPMS mode.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b51f804b1ca826699296aff9de27d19257d78dae
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Thu Dec 18 17:22:00 2014 -0800

present: If present_queue_vblank() fails, do present_execute().

Previously, if present_queue_vblank() failed, we simply dropped the present request on the floor, and returned an error. This was rather mean to clients - after presenting, they wait for a PresentComplete event to come back. But since the present never happens, they end up waiting forever, and lock up in poll().

This patch falls back to present_execute if present_queue_vblank fails. We still print a debugging message to warn when queueing fails, which allows us to continue debugging problems, but makes Present robust enough to not lock up people's compositing manager when vblank bugs happen.

v2: Don't do present_queue_vblank() /and/ present_execute() (a bug that snuck in during last minute tidying).

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f9e22cefc9684bf495ada3ec4b0231ab2dc6cfe
Author: Dima Ryazanov <dima@gmail.com>
Date: Mon Dec 22 11:35:29 2014 -0800

Fix "Back", "Forward", and other special mouse buttons in XWayland.

Currently, the indexes are off by 4 because of the scroll buttons.

Signed-off-by: Dima Ryazanov <dima@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 70a6f65f9e2b26ef7539dcacfcfe8927bc1f13fd
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Dec 25 11:42:03 2014 +0900

        glamor: Make sure Xvideo source image data is properly aligned

        _glamor_upload_bits_to_pixmap_texture currently ignores the stride
        parameter, but _glamor_upload_pixmap_to_texture uses 4-byte alignment
        via glPixelStorei(GL_UNPACK_ALIGNMENT, 4).

        Also fix up the stride argument passed in though, in case it starts
        being used properly in the future.

        Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=87455
        Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
        Reviewed-by: Keith Packard <keithp@keithp.com>
        Signed-off-by: Keith Packard <keithp@keithp.com>

commit 11b85ab2fc944c0645df43180a6c7e2d6a06483a
    Author: Michel Dänzer <michel.daenzer@amd.com>
    Date:   Wed Dec 24 11:46:46 2014 +0900

        glamor: Make glamor_purge_fbo static

        Only called from glamor_fbo.c now.

        Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
        Reviewed-by: Keith Packard <keithp@keithp.com>
        Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8323d2e90150bb86a12d00a16269c69a24efc896
    Author: Michel Dänzer <michel.daenzer@amd.com>
    Date:   Wed Dec 24 11:46:18 2014 +0900

        glamor: Call glamor_pixmap_destroy_fbo from glamor_set_pixmap_private

        Calling glamor_purge_fbo directly was incorrect for large pixmaps.

        Fixes use-after free with large pixmaps:

         ==2029== Invalid write of size 8
         ~
         ==2029==   at 0x85F93AD: __xorg_list_del (list.h:184)
         ==2029==   by 0x85F93AD: xorg_list_del (list.h:204)
         ==2029==   by 0x85F93AD: glamor_fbo_expire (glamor_fbo.c:280)
         ==2029==   by 0x85F95CA: glamor_pixmap_fbo_cache_put (glamor_fbo.c:159)
         ==2029==   by 0x85D7AB5: glamor_destroy_textured_pixmap (glamor.c:228)
         ==2029==   by 0xC1BDDC4: radeon_glamor_destroy_pixmap (radeon_glamor.c:272)
         ==2029==   by 0x519D00: damageDestroyPixmap (damage.c:1473)
modesetting: Detect whether damage tracking is needed

Call drmModeDirtyFB and check the return value to detect whether the driver support for damage tracking is present, only initialize it in that case.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jason Ekstrand <jason.ekstrand@intel.com>

commit 7804305673ca63720e8736c0e88afa711ebe208a
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 19 19:34:34 2014 -0800

modesetting: Fix damage tracking auto-disable code

display_dirty_region was only returning -EINVAL error codes, otherwise it would return 0. The kernel returns -ENOSYS when the driver doesn't support damage tracking, so dispatch_dirty would never see the error and never disable damage tracking.
Pass all errors back from dispatch_dirty_region and let dispatch_dirty deal with them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jason Ekstrand <jason.ekstrand@intel.com>

Solaris: Move shared declarations to xf86_OSlib.h

Gets rid of gcc 4.8 warnings:
- xf86AutoConfig.c:211:9: warning: nested extern declaration of 'xf86SolarisFbDev' [-Wnested-externs]
- sun_VTsw.c:44:1: warning: no previous prototype for 'xf86VTRelease' [-Wmissing-prototypes]
- sun_VTsw.c:59:1: warning: no previous prototype for 'xf86VTAcquire' [-Wmissing-prototypes]

and ensures caller & definition stay in sync.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Move RTLD_DI_SETSIGNAL code into a separate block to quiet warning

Gets rid of gcc 4.8 warning:
- osinit.c:211:9: warning: ISO C90 forbids mixed declarations and code [-Wdeclaration-after-statement]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

modesetting: Enable Xv when using glamor

This just calls the existing function to create the relevant Xv
modesetting: [v2] Don't re-enable the cursor when loading the image

Hidden cursors also have their image updated; re-enabling the cursor each time the image is set will cause it to re-appear.

* Unifies the code that was in drmMode_load_cursor_argb and drm_mode_show_cursor and moves it to a new drmMode_set_cursor

* Add a new boolean, 'cursor_up', to the per-crtc private data to track whether the cursor should be displayed.

* Call drmMode_set_cursor from drm_mode_show_cursor and, if the cursor should be displayed, from drm_mode_load_cursor_argb.

v2: Call drmModeSetCursor2 when loading a new cursor image if the cursor should be displayed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 0f5fda6f0bbfeada966aca942cb3e347d4efee30
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Dec 11 16:50:40 2014 +0900

glamor: Make sure glamor_egl_close_screen wraps glamor_close_screen

The other way around fails to destroy the screen pixmap EGL image:

==1782== 80 (32 direct, 48 indirect) bytes in 1 blocks are definitely lost in loss record 981 of 2,171
==1782== at 0x4C28C20: malloc (vg_replace_malloc.c:296)
==1782== by 0xF9D4BD2: dri2_create_image_from_dri (egl_dri2.c:1264)
==1782== by 0xF9D4BD2: dri2_create_image_dma_buf (egl_dri2.c:1764)
==1782== by 0xF9D4BD2: dri2_create_image_khr (egl_dri2.c:1798)
==1782== by 0xF9C7937: eglCreateImageKHR (eglapi.c:1494)
==1782== by 0x85D5655: glamor_egl_create_image (glamor_egl.c:134)
==1782== by 0x85D5655: glamor_egl_create_textured_pixmap (glamor_egl.c:302)
==1782== by 0x85D579B: glamor_egl_create_textured_screen (glamor_egl.c:225)
==1782== by 0xC1BE05D: radeon_glamor_create_screen_resources (radeon_glamor.c:67)
==1782== by 0xC1B6153: RADEONCreateScreenResources_KMS (radeon_kms.c:258)
Commit 45b333525e4626523f2b3b7bb360404b6366750d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Dec 11 16:50:37 2014 +0900

glamor: Fix use-after-free in glamor_destroy_textured pixmap

==25551== Invalid read of size 8
==25551== at 0x85D5F2C: glamor_egl_destroyPixmapImage (glamor_egl.c:527)
==25551== by 0x85D7750: glamor_destroyPixmap (glamor.c:235)
==25551== by 0xC1BDD9B: radeon_glamor_destroyPixmap (radeon_glamor.c:278)
==25551== by 0x5098F6: FreePicture (picture.c:1425)
==25551== by 0x85DD7A9: glamor_unrealize_glyph_caches (glamor_glyphs.c:257)
==25551== by 0x85D7B50: glamor_close_screen (glamor.c:586)
==25551== by 0x4B1A82: xf86CrtcCloseScreen (xf86Crtc.c:734)
==25551== by 0x4CFFC7: CursorCloseScreen (cursor.c:187)
==25551== by 0x513A44: AnimCurCloseScreen (animcur.c:106)
==25551== by 0x51529B: present_close_screen (present_screen.c:64)
==25551== by 0x43CA83: dix_main (main.c:351)
==25551== by 0x6CFA44: (below main) (libc-start.c:287)
==25551== Address 0x83dafa0 is 96 bytes inside a block of size 152 free'd
==25551== at 0x4C29E90: free (vg_replace_malloc.c:473)
==25551== by 0x85D76B4: glamor_destroy_textured_pixmap (glamor.c:225)
==25551== by 0x85D7750: glamor_destroy_pixmap (glamor.c:235)
==25551== by 0xC1BD9B: radeon_glamor_destroy_pixmap (radeon_glamor.c:278)
==25551== by 0x5098F6: FreePicture (picture.c:1425)
==25551== by 0x85D7DA9: glamor_unrealize_glyph_caches (glamor_glyphs.c:257)
==25551== by 0x85D7B50: glamor_close_screen (glamor.c:586)
==25551== by 0x4B1A82: xf86CrtcCloseScreen (xf86Crtc.c:734)
==25551== by 0x4CFFC7: CursorCloseScreen (cursor.c:187)
==25551== by 0x513A44: AnimCurCloseScreen (animcur.c:106)
==25551== by 0x51529B: present_close_screen (present_screen.c:64)
==25551== by 0x43CA83: dix_main (main.c:351)

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 913416b718e73e7416c2128a82d5e5cd962d28
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Dec 9 10:15:08 2014 -0800

Solaris: delete undocumented, useless -protect0 flag

Solaris already makes the page at address 0 inaccessible by default to
  catch NULL pointer bugs, we don't need a double secret undocumented flag
to try to make our own hacky attempt at it.

As a bonus, deleting this code removes gcc warning of:

sun_init.c: In function 'xf86OpenConsole':
  sun_init.c:103:17: warning: declaration of 'fd' shadows a previous local [-Wshadow]
      int fd = -1;
      ^
sun_init.c:89:9: warning: shadowed declaration is here [-Wshadow]
      int fd;
      ^

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7b784df51bd6be38238d7101b15f5e320eb4a5b8
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Tue Dec 9 12:43:57 2014 -0800
modesetting: Use GBM for buffer allocations if Glamor supports it.

For performance, Glamor wants to render to tiled buffers, not linear ones. Using GBM allows us to pick the 3D driver's preferred tiling modes.

v2: Declare drmmode->gbm as void * if !GLAMOR_HAS_GBM.
v3: Just use a forward declaration of struct gbm_device.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cfef64b0cabe7677c7584a72d7432c20343d9361
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Dec 9 12:28:38 2014 -0800

glamor: Add an accessor for the GBM device.

(Originally written by Dave Airlie; split into a separate patch by Kenneth Graunke.)

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 980535757d38db5c812e8afa32726d8cc36abfa4
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Tue Dec 9 15:20:44 2014 -0800

modesetting: Create a drmmode_bo wrapper; use it for front_bo.

This code is going to be extended to support GBM BOs soon. This small abstraction removes a lot of direct dumb_bo access, so we can add that support in one place, rather than putting conditionals at every pitch/handle/etc access.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c6388964b079b3828c0b64951ff03008dda8f44a
Author: Kenneth Graunke <kenneth@whitecape.org>
Date: Tue Dec 9 11:26:39 2014 -0800

modesetting: Drop dumb_bo::map_count field and dead unmap code.
The drm kernel API for dumb BOs apparently doesn’t include an unmap ioctl, so we can’t do much here. It looks like this code was copied from libkms, which was also unfinished.

We may as well delete the dead variable that simply gets incremented and never read.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 87cc0c0d317c5eac4fcf9bf4a7ad36454c05f6b8
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Tue Dec 9 11:17:30 2014 -0800

modesetting: Move dumb_bo into its own source files.

Eventually, drmmode_display will be able to use GBM for handling buffers, and won't need dumb_bo. Keeping the display related logic and buffer object abstraction in separate files seems a bit tidier.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit af4f94b08eb8e5961799a8a74a06449fd3fe8ad9
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Tue Dec 9 15:18:39 2014 -0800

modesetting: Create helper for glamor_egl_create_textured_screen call.

This will need to change when we add GBM support; by pulling it into a helper function, we should only have to edit one place.

Signed-off-by: Kenneth Graunke <kenneth@whitecape.org>
Tested-by: Jason Ekstrand <jason.ekstrand@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b4324c6a2382dc96295bdfb061316f699e4ffabb9
Author: Kenneth Graunke <kenneth@whitecape.org>
Date:   Tue Dec 9 14:38:39 2014 -0800

modesetting: Move ModifyPixmapHeader calls out of if/else branches.

Both branches called ModifyPixmapHeader with essentially the same parameters. By using new_pixels in the shadowfb case, we can make them completely the same, and move them out a level, for simplicity.
modesetting: Stop using glamor_egl_create_textured_screen_ext().

The _ext variant takes an additional pointer argument, which it now ignores, thanks to Keith's recent patches.

glamor: Reinstate glamor_(egl_)destroy_textured_pixmap

They are part of the ABI.

ephyr: Implement per-screen colormaps

Xephyr's pseudocolor emulation added in:

Add support to Xephyr for lower depths than hosts

only tracks one global colormap for the whole (Xephyr) display. Move this to per-screen state so each screen's colormap can be correct.
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Michele Baldessari <michele@redhat.com>

commit cadd70c809232e9a6601fb8baab665a7ab10045d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 2 14:52:35 2014 -0500

glx: Add hack for GLX-1.2-style naked windows to GetDrawableAttributes

Some people like to call this on bare Window XIDs and expect reasonable
results. I sure wish they wouldn't, but since they do, if we're given
a window without any glx decoration just fill in as much as we can. This
means you won't actually get an answer for GLX_FBCONFIG_ID and friends,
but there's not much to be done about that, and it matches what NVIDIA's
driver seems to do.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=54080
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f452b4a47b3bebf883e84df804e8d54830ccfe83
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 2 14:47:45 2014 -0500

glx: Dynamically compute attribute slot in GetDrawableAttributes

No functional change.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c1455f76c6b1aa4ecaacb2221a687244285aa44b
Author: Neil Roberts <neil@linux.intel.com>
Date:   Mon Dec 1 16:06:17 2014 -0500

glx: Add implementation of __GLXContext->loseCurrent for direct ctxts

This adds a dummy implementation for the loseCurrent function in
__GLXContext for direct contexts which just returns GL_TRUE. Without
this then the X server can crash if receives a MakeCurrent message for
a direct context because it will attempt to call loseCurrent when
cleaning up the client in the callback for ClientStateGone.

[ajax: added assumed s-o-b line]

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=86531
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Neil Roberts <neil@linux.intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6704bb0ed7a10dabe8e3bb3ad8b8a7f29a78f0
Merge: 8aa23f27c7 1559a94395
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 9 11:47:11 2014 -0800

    Merge remote-tracking branch 'alanc/master'

commit 1559a94395258fd73e369f1a2c98a44bfe21a486
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 9 09:31:00 2014 -0800

    dix: GetHosts bounds check using wrong pointer value [CVE-2014-8092 pt. 6]

    GetHosts saves the pointer to allocated memory in *data, and then
    wants to bounds-check writes to that region, but was mistakenly using
    a bare 'data' instead of '*data'. Also, data is declared as void **,
    so we need a cast to turn it into a byte pointer so we can actually do
    pointer comparisons.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 9802a0162f738de03585ca3f3b8a8266494f7d45
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 9 09:30:59 2014 -0800

    Missing parens in REQUEST_FIXED_SIZE macro [CVE-2014-8092 pt. 5]

    The 'n' parameter must be surrounded by parens in both places to
    prevent precedence from mis-computing things.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 61b17c0f10307e25e51e30e6fb1d3e3127f82d86
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 9 09:30:58 2014 -0800

    glx: Can't mix declarations and code in X.org sources [CVE-2014-8098 pt. 9]

    We're using compiler compatibility settings which generate warnings
    when a variable is declared after the first statement.

    Signed-off-by: Keith Packard <keithp@keithp.com>
Call to DDX SwapBuffers requires address of int, not unsigned int

When the local types used to walk the DBE request were changed, this
changed the type of the parameter passed to the DDX SwapBuffers API,
but there wasn't a matching change in the API definition.

At this point, with the API frozen, I just stuck a new variable in
with the correct type. Because we've already bounds-checked nStuff to
be smaller than UINT32_MAX / sizeof(DbeSwapInfoRec), we know it will
fit in a signed int without overflow.

Free existing EGL image when assigning new one

When reallocating the framebuffer on screen resize, the old EGL image
was getting leaked. Check for an existing EGL image and free it in
this case.

Remove redundant reference to screen pixmap EGL image

There's no reason to store this in the egl screen private as the
screen pixmap will always hold a reference to it anyways.
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Dec 5 10:58:28 2014 -0800

glamor: Always destroy EGL image associated with destroyed pixmap

There were three paths that called eglDestroyImageKHR:

* The front buffer
* The intel driver's flip buffer
* pixmaps under DRI3

This patch unifies the second two by having glamor_destroy_pixmap always destroy any associated EGL image. This allows us to stop storing the back_pixmap pointer in glamor as that was only used to make sure that buffer was freed at server reset time.

v2: check for valid pixmap_priv before using it in glamor_egl_destroy_pixmap_image

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7e7630bbb775573eea2a2335adb9d190c3e1e971
Author: Robert Morell <rmorell@nvidia.com>
Date:   Wed Nov 12 18:51:43 2014 -0800


On a system where sizeof(unsigned) != sizeof(intptr_t), the unary bitwise not operation will result in a mask that clears all high bits from temp_buf in the expression:

```
temp_buf = (temp_buf + mask) & ~mask;
```

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit e883c170c15493ab3637c0a01890f5a7ca4e16a5
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:48 2014 -0500

glx: Pass remaining request length into ->varsize (v2) [CVE-2014-8098 8/8]

v2: Handle more multiplies in indirect_reqsize.c (Julien Cristau)

Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 984583a497c813df5827ae22483133e704fee79c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:47 2014 -0500

glx: Length checking for non-generated single requests (v2) [CVE-2014-8098 7/8]

t2:
Fix single versus vendor-private length checking for ARB_imaging subset
extensions. (Julien Cristau)

t3:
Fix single versus vendor-private length checking for ARB_imaging subset
extensions. (Julien Cristau)

Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 44ba149f28ece93c2fbfc9cc980588de5322dd4b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:46 2014 -0500

glx: Length-checking for non-generated vendor private requests [CVE-2014-8098 6/8]

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit afe177020d1fb776c6163f21eddc82eb185b95ca
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:45 2014 -0500

glx: Request length checks for SetClientInfoARB [CVE-2014-8098 5/8]

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit c91e4abc3b892f42802efa20fef7ada442c2d3f5
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 10 12:13:44 2014 -0500

glx: Top-level length checking for swapped VendorPrivate requests [CVE-2014-8098 4/8]

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit a33a939e6abb255b14d8dbc85fcbd2c55b958bae
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 10 12:13:43 2014 -0500

glx: Length checking for RenderLarge requests (v2) [CVE-2014-8098 3/8]

This is a half-measure until we start passing request length into the
vsize function, but it's better than the nothing we had before.

v2: Verify that there's at least a large render header's worth of
dataBytes (Julien Cristau)

Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 698888e6671d54c7ae41e9d456f7f5483a3459d2
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Nov 10 12:13:42 2014 -0500

glx: Integer overflow protection for non-generated render requests (v3) [CVE-2014-8093 5/6]

v2:
Fix constants in __glXMap2fReqSize (Michal Srb)
Validate w/h/d for proxy targets too (Keith Packard)

v3:
Fix Map[12]Size to correctly reject order == 0 (Julien Cristau)

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit be09e0c988ffdb0371293af49fb4ea8f49ed324a
Author: Julien Cristau <jcristau@debian.org>
Date:    Mon Nov 10 12:13:41 2014 -0500

glx: Length checking for GLXRender requests (v2) [CVE-2014-8098 2/8]

v2:
Remove can't-happen comparison for cmdlen < 0 (Michal Srb)

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 2a5cbe17fc72185bf0fa06fef26d1f782de72595
Author: Adam Jackson <ajax@redhat.com>
Date:    Mon Nov 10 12:13:40 2014 -0500

glx: Add safe_{add,mul,pad} (v3) [CVE-2014-8093 4/6]

These are paranoid about integer overflow, and will return -1 if their
operation would overflow a (signed) integer or if either argument is
negative.

Note that RenderLarge requests are sized with a uint32_t so in principle
this could be sketchy there, but dix limits bigreqs to 128M so you
shouldn't ever notice, and honestly if you're sending more than 2G of
rendering commands you're already doing something very wrong.

v2: Use INT_MAX for consistency with the rest of the server (jcristau)
v3: Reject negative arguments (anholt)

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 13d36923e0ddb077f4854e354c3d5c80590b5d9d
Author: Adam Jackson <ajax@redhat.com>
Date:    Mon Nov 10 12:13:39 2014 -0500

glx: Fix image size computation for EXT_texture_integer [CVE-2014-8098 1/8]

Without this we'd reject the request with BadLength. Note that some old
versions of Mesa had a bug in the same place, and would _send_ zero bytes of image data; these will now be rejected, correctly.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 717a1b37767b41e14859e5022ae9e679152821a9
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:38 2014 -0500

glx: Additional paranoia in __glXGetAnswerBuffer / __GLX_GET_ANSWER_BUFFER (v2) [CVE-2014-8093 3/6]

If the computed reply size is negative, something went wrong, treat it as an error.

v2: Be more careful about size_t being unsigned (Matthieu Herrb)
v3: SIZE_MAX not SIZE_T_MAX (Alan Coopersmith)

Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit ab2ba9338aa5e85b4487bc7fbc69985c76483e01
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 10 12:13:37 2014 -0500

glx: Be more strict about rejecting invalid image sizes [CVE-2014-8093 2/6]

Before this we'd just clamp the image size to 0, which was just hideously stupid; if the parameters were such that they'd overflow an integer, you'd allocate a small buffer, then pass huge values into (say) ReadPixels, and now you're scribbling over arbitrary server memory.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 23fe7718bb171e71db2d1a030505c2ca2988799d9
glx: Be more paranoid about variable-length requests [CVE-2014-8093 1/6]

If the size computation routine returns -1 we should just reject the request outright. Clamping it to zero could give an attacker the opportunity to also mangle cmdlen in such a way that the subsequent length check passes, and the request would get executed, thus passing data we wanted to reject to the renderer.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Michal Srb <msrb@suse.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 2df83bb122debc3c20cfc3d3b0edc85cd0270f79
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Feb 9 21:28:05 2014 -0800

Add request length checking test cases for some Xinput 1.x requests

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a0ece23a88bd300c8be10812d368dc8058c97c63e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Jan 26 20:02:20 2014 -0800
xfixes: unvalidated length in SProcX FixesSelectSelectionInput [CVE-2014-8102]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5d3a788aeb2fbd3ca2812747dc18c94a8b981c63
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 26 19:51:29 2014 -0800

    render: unvalidated lengths in Render extn. swapped procs [CVE-2014-8100 2/2]

    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b5f9ef03df6a650571b29d3d1c1d2b67c6e84336
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Oct 28 10:30:04 2014 +0100

    render: check request size before reading it [CVE-2014-8100 1/2]

    Otherwise we may be reading outside of the client request.

    Signed-off-by: Julien Cristau <jcristau@debian.org>
    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 3df2fcf12499ebdb26b9b67419ea485a42041f33
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 26 19:38:09 2014 -0800

    randr: unvalidated lengths in RandR extension swapped procs [CVE-2014-8101]

    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d155b7a8c38e74aee96bf52c20c8b6a330d7d462
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 26 19:33:34 2014 -0800

    present: unvalidated lengths in Present extension procs [CVE-2014-8103 2/2]

    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 0a6085aaf3581cca558d960ea176dd3a41a2213
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Jan 26 19:28:05 2014 -0800

dri3: unvalidated lengths in DRI3 extension swapped procs [CVE-2014-8103 1/2]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 32a95fb7c7dbe22e9441e62762dfa4a8ec54d6c3
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Jan 26 19:23:17 2014 -0800

Xv: unvalidated lengths in XVideo extension swapped procs [CVE-2014-8099]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7553082b9b883b5f130044f3d53bee2f0b660e52
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Jan 26 17:18:54 2014 -0800

xcmisc: unvalidated length in SProcXCMiscGetXIDList() [CVE-2014-8096]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 73c63afb93e0af1bdf1969bf6e71e9edca586c77
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Jan 26 10:54:41 2014 -0800

Xi: unvalidated lengths in Xinput extension [CVE-2014-8095]

Multiple functions in the Xinput extension handling of requests from clients failed to check that the length of the request sent by the client was large enough to perform all the required operations and thus could read or write to memory outside the bounds of the request buffer.

This commit includes the creation of a new REQUEST_AT_LEAST_EXTRA_SIZE macro in include/dix.h for the common case of needing to ensure a request is large enough to include both the request itself and a minimum amount of extra data following the request header.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2ef42519c41e793579e9cea699c866fee3d9321f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jan 22 23:12:04 2014 -0800
dbe: unvalidated lengths in DbeSwapBuffers calls [CVE-2014-8097]

ProcDbeSwapBuffers() has a 32bit (n) length value that it uses to read from a buffer. The length is never validated, which can lead to out of bound reads, and possibly returning the data read from out of bounds to the misbehaving client via an X Error packet.

SProcDbeSwapBuffers() swaps data (for correct endianness) before handing it off to the real proc. While doing the swapping, the length field is not validated, which can cause memory corruption.

v2: reorder checks to avoid compilers optimizing out checks for overflow that happen after we'd already have done the overflowing multiplications.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6692670fde081bbfe9313f17d84037ae9116702a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jan 22 23:40:18 2014 -0800

dri2: integer overflow in ProcDRI2GetBuffers() [CVE-2014-8094]

ProcDRI2GetBuffers() tries to validate a length field (count). There is an integer overflow in the validation. This can cause out of bound reads and memory corruption later on.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit e0e11644622a589129a01e11e5d105dc74a098de
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jan 22 23:44:46 2014 -0800


Force use of 64-bit integers when evaluating data provided by clients in 32-bit fields which can overflow when added or multiplied during checks.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 97015a07b9e15d8ec5608b95d95ec0eb51202acb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jan 22 22:37:15 2014 -0800


RegionSizeof contains several integer overflows if a large length value is passed in. Once we fix it to return 0 on overflow, we also have to fix the callers to handle this error condition

v2: Fixed limit calculation in RegionSizeof as pointed out by jcristau.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit bc8e20430b6f6378daf6ce432902924a88af08b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jan 6 23:30:14 2014 -0800

dix: integer overflow in GetHosts() [CVE-2014-8092 2/4]

GetHosts() iterates over all the hosts it has in memory, and copies them to a buffer. The buffer length is calculated by iterating over all the hosts and adding up all of their combined length. There is a potential integer overflow, if there are lots and lots of hosts (with a combined length of > ~4 gig). This should be possible by repeatedly calling ProcChangeHosts() on 64bit machines with enough memory.

This patch caps the list at 1mb, because multi-megabyte hostname lists for X access control are insane.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eeae42d60bf3d5663ea088581f6c28a82cd17829
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jan 22 21:11:16 2014 -0800

dix: integer overflow in ProcPutImage() [CVE-2014-8092 1/4]

ProcPutImage() calculates a length field from a width, left pad and depth specified by the client (if the specified format is XYPixmap).

The calculations for the total amount of memory the server needs for the pixmap can overflow a 32-bit number, causing out-of-bounds memory writes
on 32-bit systems (since the length is stored in a long int variable).

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 90cc925e5991fcb203f72d00b04419cd754a9b2c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Jan 17 18:54:03 2014 -0800

unchecked malloc may allow unauthed client to crash Xserver [CVE-2014-8091]

authdes_ezdecode() calls malloc() using a length provided by the connection handshake sent by a newly connected client in order to authenticate to the server, so should be treated as untrusted.

It didn't check if malloc() failed before writing to the newly allocated buffer, so could lead to a server crash if the server fails to allocate memory (up to UINT16_MAX bytes, since the len field is a CARD16 in the X protocol).

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3e7218a6c23354d66f508b18164cac98a346b3ee
Merge: 6f4c398a0e bc71081f0e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 8 18:07:55 2014 -0800

Merge remote-tracking branch 'jturney/indirect-glx-fixes'

commit 6f4c398a0e632b0c92e3cb8ee03ca7f5b5cc018e
Merge: aae6460694 5920433c3a
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 8 18:04:08 2014 -0800

Merge remote-tracking branch 'jturney/master'

commit aae6460694ac3667abb8c34fdef3a7dae524827a4
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Sat Dec 6 05:40:08 2014 +0100

  present: Fix use of vsynced pageflips and honor PresentOptionAsync. (v4)

Pageflips for Pixmap presents were not synchronized to vblank on drivers with support for PresentCapabilityAsync, due to some missing init for vblank->sync_flips. The PresentOptionAsync
flag was completely ignored for pageflipped presents.

Vsynced flips only worked by accident on the intel-ddx, as that
driver doesn't have PresentCapabilityAsync support.

On nouveau-ddx, which supports PresentCapabilityAsync, this
always caused non-vsynced pageflips with pretty ugly tearing.

This patch fixes the problem, as tested on top of XOrg 1.16.2
on nouveau and intel.

v4: Add additional PresentCapabilityAsync caps check, as
suggested by Eric Anholt.

Please also apply to XOrg 1.17 and XOrg 1.16.2 stable.

Applying on top of XOrg 1.16.2 requires cherry-picking
commit 2051514652481a83bd7cf22e57cb0fc40333f33
which trivially fixes lack of support for protocol option
PresentOptionCopy - get two bug fixes for the price of one!

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 32d3100bd78efe41d468f7d66861296aee468b6f
Author: Mario Kleiner <mario.kleiner.de@gmail.com>
Date:   Sat Dec 6 05:40:07 2014 +0100

present: Avoid crashes in DebugPresent(), a bit more info.

DebugPresent() crashed the server when a dri3 drawable
was closed while a pageflipped present was still pending,
due to vblank->window-> Null-Ptr deref, so debug builds
caused new problems to debug.

E.g.,

    glXSwapBuffers(...);
    glXDestroyWindow(...);
    -> Pageflip for non-existent window completes -> boom.

Also often happens when switching desktop compositor on/off
due to Present unflips, or when logging out of session.

Also add info if a Present is queued for copyswap or pageflip,
if the present is vsynced, and the serial no of the Present
request, to aid debugging of pageflip and vsync issues. The
serial number is useful as Mesa’s dri3/present backend encodes its sendSBC in the serial number, so one can easily correlate server debug output with Mesa and with the SBC values returned to actual OpenGL client applications via OML_sync_control and INTEL_swap_events extension, makes debugging quite a bit more easy.

Please also cherry-pick this for a 1.16.x stable update.

Signed-off-by: Mario Kleiner <mario.kleiner.de@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 32ca85c9e075e40b8a4712a79a51702facba0332
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Nov 28 11:20:50 2014 +0100

modesetting: Remove unused params from drmmode_output_init()

drmmode_output_init() doesn’t touch (the int*) num_dvi and num_hmdi.
Remove both parameters.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c0ea476b9bb91f03061b891ff897c438fa03879
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Nov 28 11:20:49 2014 +0100

modesetting: Fix ifdefs s/HAVE_UDEV/CONFIG_UDEV_KMS/

We don’t define HAVE_UDEV, that’s a remnant from xf86-video-modesetting.
But, we have CONFIG_UDEV_KMS.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8a16620dcd7a22fd9b38876ffcc711629c4fba0a
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Fri Nov 28 11:20:48 2014 +0100

modesetting: Create new EGL screen in drmmode_xf86crtc_resize

If we don’t glamor_egl_create_textured_screen_ext() in drmmode_xf86crtc_resize() we end up with a black screen and no client window(s) visible.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0d63fa5850fe9d8b045b8f1a83e72b75f9065a7a
Author: Daniel Martin <consume.noise@gmail.com>
Date: Fri Nov 28 11:20:47 2014 +0100

text

modesetting: Move Bool glamor into drmmode struct

Move the boolean glamor from struct modesetting into struct drmmode for later re-use in drmmode_display.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 62a4eeaa25099872682d6c2f9f13a0e73fe5ce1e
Author: Daniel Martin <consume.noise@gmail.com>
Date: Fri Nov 28 11:20:46 2014 +0100

text

config/udev: Prefix and shift "removing GPU" message

The message "removing GPU device ..." appeared even if the removal was skipped (when path == NULL). Move it below the path check and make it a LogMessage with config/udev prefix.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bc71081f0e3d8ce3aeca2cb168431db9f6a87b
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date: Fri Apr 18 12:17:06 2014 +0100

text

glx: Fix crash when a client exits without deleting GL contexts

With the previous patches applied, we now have crash due to use-after-free when a client exits without deleting all it's GL contexts

On client exit, CloseDownClient first calls glxClientCallback() with ClientStateGone, which calls __glXFreeContext() directly.

Subsequently CloseDownClient() frees all the clients resources, which leads to ContextGone() being called for a context resource where the context has already
been freed.

Fix this by modifiying glXClientCallback() to free the context resource.

Also make __glXFreeContext() static, as calling it directly leads to this problem, instead the context resource should be released.

With the previous patches applied, this can be demonstrated with e.g. glxinfo, which doesn't delete it's context before exit.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5c606c0a89e74fa223a99864be11cc3be60a159b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Apr 18 12:17:05 2014 +0100

glx: Flush context which is being made non-current due to drawable going away

Some sequences of glean tests fail with GLXBadCurrentWindow when using indirect rendering, e.g. glean -t 'fpexceptions getString'.

Flush a context which is being made non-current due to the drawable on which it is current going away. Waiting until another context is made current is too late, as the drawable no longer exists.

v2: Rewrite for direct GL dispatch

v3: Inline FlushContext(), doesn't need to be a separate function

e.g. LIBGL_ALWAYS_INDIRECT=1 ./glean -r results -o --quick -t "fpexceptions getString" fails with a BadContextTag error.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 437b27494f127854d75e59b4e2aa264e9f13e9
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Apr 18 12:17:04 2014 +0100

Revert "glx: Simplify glXDestroyContext"

This reverts commit 7f5adf73a0f9a951a6df201532b4031d38054369.

This seems to miss the whole point of the idExists flag, as it makes the lifetime of that being true the same as the lifetime of the Context resource.

The previously current context tag is always given in a MakeContextCurrent
request, even if that context tag is no longer valid (for example, the context has been deleted), so this leads to BadContextTag errors.

See fd.o bug #30089 for the makecurrenttest.c testcase, and some discussion of previous manifestations of this bug.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4b0d0df34f10a88c10cb23dd50087b59f5c4fece
Author: Peter Harris <pharris@opentext.com>
Date:   Mon Nov 17 14:31:24 2014 -0500

Fix overflow of ConnectionOutput->size and ->count

When (long) is larger than (int), and when realloc succeeds with sizes larger than INT_MAX, ConnectionOutput->size and ConnectionOutput->count overflow and become negative.

When ConnectionOutput->count is negative, InsertIOV does not actually insert an IOV, and FlushClient goes into an infinite loop of writev(fd, iov, 0) [an empty list].

Avoid this situation by killing the client when it has more than INT_MAX unread bytes of data.

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 802932d112a3f6a09420be9e4a13fa78ac43840b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 17 15:28:58 2014 -0500

render: fix ChangePicture when Xinerama is active (v2) (#49170)

ChangePicture takes wire XIDs, but didn't do any Xinerama translation, which meant setting a clip pixmap or a separate alpha picture would result in those elements pointing at the instance of the pixmap on screen 0. Which is, you know, bad.

v2: This one actually builds.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=49170
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
os: "Server terminated successfully" is not an error

ErrorFSigSafe calls LogVMessageVerbSigSafe with the message type set to X_ERROR.
That generates this in the log:

(EE) Server terminated successfully (0). Closing log file.

People periodically report this as an error, sometimes quoting this "error"
rather than an earlier error that actually caused a problem.

v2: Use X_INFO instead of X_NOTICE

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Add -iglx & +iglx to Xserver.man

Covers the current state after commits 99f0365b11bfdfd9238b9f,
d0da0e9c3bb8fe0cd4879, & e3aa13b8d63ea2fba6eb4 were all applied.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: James Jones <jajones@nvidia.com>
Reviewed-by: Robert Morell <rmorell@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

mi: Fix regression in arc drawing

xts' XDdrawArcs/15 regressed (turning into a server-side infinite loop)
after:

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
mi: Fold mifpolycon.c into miarc.c

The reason is miarc.c provided its own definitions (sigh) of min/max, that both accept int arguments and return an int. Since miFillSppPoly uses a double (sigh) and some min-involving math for its loop index variable, things do not go well.

Since the integer versions of min/max are redundant, nuke 'em.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ec0ac8970b508adcb3d104b14a127118e4979d0
Merge: 65cc0982af0f88d4e793
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 24 15:39:51 2014 -0800

Merge remote-tracking branch 'whot/for-keith'

commit 65cc0982af1d47d17e655eaf40d4a82e7574a
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 13 10:31:52 2014 -0700

glamor: Don't insert fbos from external objects into fbo cache

Mark fbos created from external buffers so that when the associated pixmap is destroyed, they aren't put into the fbo cache for later re-use and are instead freed immediately.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 0f88d4e7937116dbc438f98ddf1f3d94cfc5bead
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 12 10:29:36 2014 +1000

mi: fix documentation for miPointerSetPosition

Changed when we added barriers, documentation didn't get updated.

Reported-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 6a117af7e7ef6eac796ff0680a915c866fce4019
Author: John Hunter <zhaojunwang@pku.edu.cn>
Date: Mon Nov 3 15:45:38 2014 +0800

fix an annotation mistake

Signed-off-by: John Hunter <zhaojunwang@pku.edu.cn>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 732fd7e571b81d63aa44d6e4cf55883479e88f2f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:45:12 2014 +1000

Drop trailing whitespaces

    sed -i "s/[ ]+$//g" **/*.(c|h)

    happy reviewing...
    git diff -w is an empty diff.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 96143d6dc35c98cb6b4e409dd89687e4ced3c1f0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:32:35 2014 +1000

dix: silence compiler warning comparing CARD32 to -1

window.c:3246:36: warning: comparison of constant -1 with expression of type 'CARD32' (aka 'unsigned int') is always true
[-Wtautological-constant-out-of-range-compare]
    if (optional->backingBitPlanes != ~0L)
    ~~~~~~~~~~~ ^ ~~~

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Michel Dänzer <michel@daenzer.net>

commit 04ca16997994c7561ed8948b89fc1c922233da13
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:29:33 2014 +1000

dix: silence compiler warning

inpututils.c:243:26: warning: comparison of constant 256 with expression of type 'KeyCode' (aka 'unsigned char') is always false
[-Wtautological-constant-out-of-range-compare]
    if (modkeymap[i] >= MAP_LENGTH)
    ~~~~~~~~~~~~~ ^ ~~~~~~~~~~
MAP_LENGTH depends on MAX_BUTTONS which is somewhat arbitrarily chosen. We don't expect this to ever change, but just in case leave the condition there so the code is correct if we drop the number down.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 79b9d33545034f2952ebc7e444c201693b45f44b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:26:28 2014 +1000

xwayland: declare fatal log handler as noreturn

xwayland.c:661:1: warning: function 'xwl_log_handler' could be declared with attribute 'noreturn' [-Wmissing-noreturn]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit adee4f239b5074d318dfe48beb0ec4e91973b449
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:24:50 2014 +1000

xfree86: drop double-typedef of DBusConnection

Just include dbus.h, it's been typedef'd there since 2003.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 25315ee555dfeb96d9ed83064b1022ed852b612e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 31 09:16:28 2014 +1000

Xext: fix clang compiler warning

shm.c:1150:24: warning: equality comparison with extraneous parentheses [-Wparentheses-equality]
if ((shmdesc->addr == ((char *) -1))) {

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 995ecfb51d4ab8197e4591d5e0957e08a0bd6e59
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 30 09:00:21 2014 +1000

include: change RegionSize() to take a size_t

/usr/include/xorg/regionstr.h:130:36: warning: implicit conversion changes signedness: 'int' to 'unsigned long' [-Wsign-conversion]
return (sizeof(RegDataRec) + ((n) * sizeof(BoxRec)));
Really only just pushes the problem to the caller, but maybe that motivates someone to fix it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3ccec1b5b6a26a30f82ba3aa9c5218dfa336869
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 30 08:56:55 2014 +1000

include: fix documentation for list.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 5920433c3a30ff5f1c0ba1ab39a0c2ff388df6b23
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sat Sep 27 11:50:11 2014 +0100

hw/xwin: Don't allocate one wchar_t too much for unicode text placed on the Windows clipboard

The count of wchar_t returned by MultiByteToWideChar() includes the terminating null character, so don't add one to it.

Also, reduce the scope of various length variables

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit d172cd630daee9c991b84b4c367a4caf8199266ac
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Mon Apr 28 12:48:15 2014 +0100

hw/xwin: Fix hang on shutdown when we own the clipboard.

If we are the clipboard owner when we are shutdown, we recieve a WM_RENDERALLFORMATS, to render the clipboard, so it's contents will remain available to other applications. Unfortunately, this is far too late to do anything useful with, as the server is waiting for the clipboard thread to exit, and so can't process requests to convert clipboard contents.

Change so we just do nothing on WM_RENDERALLFORMATS. (I'm not convinced that WM_RENDERALLFORMATS has ever worked usefully, in any case).

(To make this work, I guess we would need to rearrange the way shutdown works completely: first synchronously stop the clipboard, then stop the X server)
We also then receive a WM_DRAWCLIPBOARD, perhaps telling us that the available clipboard formats have changed (as ones which haven't been rendered are now removed), but the clipboard owner is now the system, not us, which we have to arrange to ignore.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 94d433c8cb64c9167050d02473176f888decf1d8
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 21 23:20:00 2014 +0000

hw/xwin: Fix clipboard thread restart

It seems that the clipboard thread restart mechanism has been broken for a while, which can be demonstrated using XDMCP with KDM (e.g. to a Kubutunu 12.04 host)

KDM kills all attached clients, including the clipboard integration client, which restarts, but then exits on WM_QUIT.

Using PostQuitMessage() in WM_DESTROY is unhelpful, as we may not actually be quitting the thread, if we just destroyed the window because the clipboard thread is about to retry, because he WM_QUIT message sticks around, and is noticed the next time we look at the window message queue and confuses us into thinking we need to quit.

Sending a WM_DESTROY is apparently never correct anyhow, see [1]

So:

1/ Use DestroyWindow() to destroy the clipboard messaging window when cleaning up for retry or exit in winClipboardProc (the clipboard thread main proc)

2/ Send a special WM_WM_QUIT message in winClipboardWindowDestroy() from the X server thread when the X server is resetting.

3/ When processing that WM_WM_QUIT message in the clipboard thread, cause the clipboard window to PostQuitMessage(), which causes the clipboard thread to exit.


Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b4a08e642b977b4bbcb892ff1d96ecc0cf6e2ca54
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
hw/xwin: Improve reliability of clipboard X->Windows pastes

Sometimes, particularly with large clipboard pastes to Windows, we could end up waiting for the timeout to expire, rather than pasting the data.

Various changes to improve reliability:

1. Use XFlush() not XSync() in winProcessXEventsTimeout().

It makes no sense to ensure we have received replies to outstanding requests if we are going to wait for them using select()

2. Add XFlush() to winClipboardProc()

Make sure we have sent any requests before we wait using select()

3. Don't use FD_ISSET() to check which fd is ready

This looks like a Cygwin select() bug in that it sometimes returns 0 with an empty fd set before the timeout expires, but a fd appears to be ready.

Add select() return value to debug output when we are warning that this has happened.

4. Drain event queues before entering select()

Unconditionally drain event queues before entering select(). This seems to be the recommended way of writing select() and X event processing loops.

winClipboardFlushXEvents() checks using XPending(), and winClipboardFlushWindowsMessageQueue() checks using PeekMessage() so this is safe against blocking, but means that may not need to enter select() at all sometimes.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c03f9e23c2b75af410b2fc76ca3f1aa9e979dce4
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Tue Sep 24 15:09:22 2013 +0100

hw/xwin: Add controls for enabling/disabling monitoring of PRIMARY selection

xwinclip: Add -noprimary option
Xwin: Add -primary and -noprimary options and tray-menu control
v2:
Use Bool type for fPrimarySelection
Add -noprimary to usage message
Fix indentation in hw/xwin/winwndproc.c

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 851b504199072766dc781b6be2d42b38849bbd77
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Sep 24 16:02:37 2013 +0100

hw/xwin: Retrieve TARGETS to avoid unnecessary failing conversion attempts


It looks like the change in a9aca218f557c723e637287272819a7c17174e1e had some unforseen consequences.

If the X11 selection contents are not convertable to COMPOUND_TEXT, UTF8_STRING or STRING format (for example, if it is an image), after those conversion attempts have failed, we sit in winProcessXEventsTimeout() until the timeout expires.

It also seems that maybe gnuplot doesn't respond correctly to this sequence of conversion requests and doesn't reply to some of them, which also causes us to sit in winProcessXEventsTimeout() until the timeout expires.

The Windows application which has requested the clipboard contents via GetClipboardContents() is blocked until we return from WM_RENDERFORMAT, so sitting waiting for this timeout to expire should be avoided.

So instead, explicitly request conversion to the TARGETS target, choose the most preferred format, and request conversion to that.

Also: if there is no owned selection, there is nothing to paste, so don't bother trying to convert it.

v2: Fix compilation with -Werror=declaration-after-statement

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 4db1241037e3fe8f0a46888377b8fe40bae9065
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Sep 24 13:30:32 2013 +0100

hw/xwin: In SelectionNotify, don't pointlessly retrieve just the size of the property
Don't pointlessly retrieve just the size of the property, if we are then going to assume we can retrieve the whole property in one request anyhow...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c5ad92077e7eb32590fa92d697cc4173f7e57b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Sep 24 12:23:42 2013 +0100

hw/xwin: In SelectionNotify, delete the property containing returned data after we have retrieved it

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ff018d88b9f0e23ba96c81b5358532baf4df42
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 14:10:50 2014 +0100

hw/xwin: Remove some redundant clipboard externs, now defined in winglobals.h

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 63bb5c5ef16edf652179770294dcca4fc07dc992
Author: Thierry Reding <treding@nvidia.com>
Date: Wed Oct 29 16:59:27 2014 +0100

xv: Add missing gcstruct.h include

Commit ea3f3b0786d5 (xv: Move xf86 XV color key helper to core.) added code that uses internals of struct _GC. This structure is defined in the include/gcstruct.h header which wasn't included by the source file, only gc.h was. That caused the following build failure:

    CC  xvmain.lo
    Xext/xvmain.c: In function 'XvFillColorKey':
    Xext/xvmain.c:1114:13: error: dereferencing pointer to incomplete type
    (*gc->ops->PolyFillRect) (pDraw, gc, nbox, rects);

Fix this by including the correct header file.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Tested-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 882f2d10d99a04a96af0ce0c8937e16bec3afb5
Author: Axel Davy <axel.davy@ens.fr>
Date: Wed Oct 29 13:31:42 2014 +0100

Fix present_notify to return right away when querying current or past msc.

When the target msc is past or is the current one, we want to get immediate feedback. This patch fixes this behaviour.

Signed-off-by: Axel Davy <axel.davy@ens.fr>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 72a0754f4605493fd60471557422f88a97eb356a
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Oct 29 19:19:18 2014 -0700

xfree86: Bump ABI versions (video: 19, extension: 9)

Among other things, commit b851ca968b7ccee6d1a6438c05d3d5c8832249704 added a NameWindowPixmap function pointer to ScreenRec, shifting some of the fields around.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b227d974569b4e315a72b85fe839e5f455396678
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 30 08:54:11 2014 +1000

include: fix compiler warning about casting int to uint16_t

/usr/include/xorg/misc.h:141:30: warning: implicit conversion loses integer precision: 'int' to 'uint16_t' (aka 'unsigned short') [-Wconversion]
  return ((x & 0xff) << 8) | ((x >> 8) & 0xff);
  ~~~~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~

Function sig is a uint16_t, so just force the cast.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e9db7682028bb0464c211c1f7bb6983fcf6f37b
Author: Keith Packard <keithp@keithp.com>
Date: Tue Oct 28 21:32:24 2014 -0700

Update to version 1.16.99.901
1.17 RC1

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5ff74d68b0cce85e041251efdc76595eac3c89e4
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 28 21:31:40 2014 -0700

xfree86: Include 'drivers' directory with distribution

Even if we don't build it locally, make sure it gets included with the release.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f36f16f0551aa091c1ff154875aebe3d29cf51e7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 28 21:30:23 2014 -0700

dri2: Distribute new pci_ids headers

Create hw/xfree86/dri2/pci_ids/Makefile.am which includes all of the new
pci id files in the tarballs. Build that from configure.ac, and run it
from dri2/Makefile.am

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 65dd1ba7b3e00243a76ec691e566ef7c8dd94855
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 22 14:48:10 2014 -0700

dix: Untwist transformAbsolute logic, eliminate uninitialized value warnings

transformAbsolute has a pretty simple job, that of running the X/Y
values from a device through the transformation matrix. The tricky bit
comes when the current device state doesn't include one of the
values. In that case, the last delivered value is back-converted to
device space and used instead.

The logic was twisted though, confusing GCC's uninitialized value
detection logic and emitting warnings.

This has been fixed by changing the code to:

1) Detect whether the ValuatorMask includes X/Y values
2) If either are missing, back-convert the current values into ox/oy
3) When X/Y are present, set ox/oy to the current value
4) Transform
5) Store X/Y values if changed or if they were set before.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0fbbdb37c87b5824729f65c7fbac05223024fd27
Author: Adam Jackson <ajax@redhat.com>

composite: Wrap GetSpans

GetSpans should flush composition from children to parent, just like GetImage and SourceValidate. Fortunately no one is likely to have noticed, since to hit this you're already deep into failure town.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da70c7d556bbf21ad495c26e982e2e0f2d7de6c1
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 22 14:27:26 2014 -0700

xb: Initialize 'bad' Atom in _XkbSetNamesCheck

When _XkbCheckAtoms returns NULL for an error, it always sets the error return code, but GCC can't figure that out, so just initialize the local variable, 'bad', in _XkbSetNamesCheck to eliminate the warning.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2566835b4374edb3e5a8353d4f7c9e7ec4851c57
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 22 14:24:55 2014 -0700

os: Eliminate uninitialized value warnings from access.c

The ConvertAddr function doesn't reliably set the 'addr' return value, and so callers are getting flagged for using potentially uninitialized values. Initialize the value in the callers to NULL and then go ahead and check for NULL values before using them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1b94fd77792310c80b0a2bcf4bf6d4e4c4c23bca
Author: Alex Orange <crazycasta@gmail.com>
fb: Fix Bresenham algorithms for commonly used small segments.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=54168

Fix errors introduced in 863d528a976d0e8f122aebf19f8564a4c67a938. Said patch does indeed remove the problematic writes to bad memory, however it also introduces errors in the algorithm. This patch has the effect of reverting said patch and adding an if in the proper location to catch the out of bounds memory write without causing problems to the overall algorithm.

Signed-off-by: Alex Orange <crazycasta@gmail.com>
Reviewed-by: Peter Harris <pharris@opentext.com>
Tested-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea5b2b0a2e2143ad1414fcbdc081b5d584588346
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Tue Oct 21 15:03:55 2014 +0100

os: -displayfd should check ports up to 65535

-displayfd should check ports up to 65535


Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3a123fbdda56b24dc01a2308137144dc960e0d61
Merge: 9b29fa957a 7ea4a21fee
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 27 15:39:26 2014 -0700

Merge remote-tracking branch 'jturney/master'

Conflicts:
   hw/xwin/winpixmap.c

Adam removed a pile of windows code, including this file.

commit 9b29fa957a397664463c7c78fbc2f34d1993271
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Thu Oct 16 14:09:08 2014 +0100
Xext/shm: Detach SHM segment after Pixmap is released

The GPU may still have a reference to the SHM segment which would only be finally released when the Pixmap is destroyed. So we can only detach the SHM segment (and thereby making the memory inaccessible) after the backend has had a chance to flush any remaining references.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=85058
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reported-and-tested-by: gedgon@gmail.com
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5adc20179e9818d51e1cd79bfc8a8271786c3949
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 27 15:28:14 2014 -0700

modesetting: Skip kernel work-around on error in crtc to kernel msc

ms_crtc_msc_to_kernel_msc attempts to work around kernel inconsistencies in reporting msc values by comparing the expected value with the reported value. If the kernel fails to actually provide its current values, then just skip the work around steps as there's really nothing better we can do.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 59b12c454d9e4b5a26c6ad87c53abc671b15ce37
Merge: 5574a0a07e cac4b064f9
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 27 14:48:55 2014 -0700

Merge remote-tracking branch 'anholt/modesetting-dri2-no-pageflip'

commit 5574a0a07e83ff989e074e44d3ea9db0a819f472
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 27 13:38:21 2014 -0700

composite: Skip SetWindowPixmap when pixmap isn't changing

Check the current window pixmap to see if it matches the new pixmap and avoid calling SetWindowPixmap in that case.

x11perf -ucreate highlights an instance where compCreateWindow reassigns the same Pixmap to the Window. Currently this triggers an expensive invalidation of the entire window hierarchy, making sure that DRI2 clients are kept informed of the handle changes. However, as the backing Pixmap for the Window is actually unchanged, there is no need to
Skip SetCursor when vtSema is FALSE.

Consider below sequence -
1) Cursor is removed : isUp will be FALSE if HW cursor is set.
2) VT switched away from X : vtSema becomes FALSE.
3) xf86CursorSetCursor is called with non-null CursorPtr :
   Saves the passed in CursorPtr, fallbacks to SW cursor and invokes
   spriteFuncs->SetCursor which saves the area under cursor and restores
   the cursor. This sets isUp to TRUE and as vtSema is FALSE saved data
   is garbage.
4) VT switched to X : vtSema becomes TRUE. xf86Cursor enable fb access
   is called which will remove the SW cursor, i.e copies saved data in #3
   to screen.

This results to momentary garbage data on screen. Hence when !vtSema
skip spriteFuncs->SetCursor.

X.Org Bug 85313 <https://bugs.freedesktop.org/show_bug.cgi?id=85313>

modesetting: Add support for DRI2 with glamor.

This is derived from the intel driver DRI2 code, with swapchain and
pageflipping dropped, functions renamed, and vblank event management
shared code moved to a vblank.c for reuse by Present.

This allows AIGLX to load, which means that you get appropriate
visuals exposed in GL, along with many extensions under
direct-rendering that require presence in GLX (which aren't supported
in glxdriswrast.c).
v2: Drop unused header includes in pageflip.c, wrap in #ifdef GLAMOR. Drop triple-buffering, which was totally broken in practice (I'll try to fix this later). Fix up some style nits. Document the general flow of pageflipping and why, rename the DRI2 frame event type enums to reflect what they're for, and handle them in a single switch statement so you can understand the state machine more easily.

v3: Drop pageflipping entirely -- it's unstable on my Intel laptop (not that the normal 2D driver is stable with pageflipping for me), and I won't get it fixed before the merge window. It now passes all of the OML_sync_control tests from Jamey and Theo (except for occasional warns in timing -fullscreen -divisor 2).

v4: Fix doxygen at the top of vblank.c

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7064b00d478646cb428e427df2d3f91d7022c582
Author: Eric Anholt <eric@anholt.net>
Date: Mon Dec 30 00:25:37 2013 -0800

modesetting: Export two functions I want to reuse from DRI2/Present.

This renames dumb_get_bo_from_handle(), since it wasn't using a handle (GEM terminology) but a dmabuf fd.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 34a98c8103a6f725283d0d1ee4084bf387b93019
Author: Eric Anholt <eric@anholt.net>
Date: Wed Oct 8 04:12:49 2014 -0700

dri2: Automatically fill in the driver name if the DDX doesn't provide it.

This will be used by the modesetting driver to support DRI2 across all hardware that can support glamor, and could potentially be used by other drivers that have to support DRI2 on sets of hardware with multiple Mesa drivers.

This logic is the same as what's present in the Mesa driver loader, except for the lack of nouveau_vieux support (which requires a predicate on the device).

v2: Fix duplicated assignment of info->driverName.

Signed-off-by: Eric Anholt <eric@anholt.net>
dri2: Import a copy of Mesa's PCI ID -> driver name mappings.

This comes from Mesa commit acdcef6788beaa2a1532e13ff84c3e246b8025ed

Previously, each driver had to tell DRI2 what GL driver object should be loaded. Originally for a 2D driver that was a matter of giving the constant string for the vendor name, same as the driver's name. For a driver that's trying to handle multiple generations of hardware with different Mesa driver filenames, the driver had to bake in a mapping from PCI ID to the appropriate driver name in Mesa, which seems like a pretty awful layering violation (and one that was fixed with DRI3)

As of January, Mesa now handles the mapping from a DRI fd to the driver name on its own, but the AIGLX loader still relies on DRI2 for choosing the filename. Instead of propagating the PCI ID list from each 2D driver to the modesetting driver, import a central copy of the PCI ID list so that drivers can stop handling this themselves. (Some day, when AIGLX transitions to EGL, we can drop the DRI2 filename setup entirely).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 839f05329ddb6f9b5b988edf3a2c3a1f856727f7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 28 16:35:10 2014 -0500

dix: Retype and repack GC

LP64: 160 bytes before, 128 after.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 73e2383b7350723256894c5076d0c731aec5cd1f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 20 13:31:20 2014 -0400

dix: Always store GC client clip as a region (v2)

Again, this changes FixesCreateRegionFromGC to throw BadMatch when fed a GC with no client clip.
v2: Fix Xnest and some variable names (Keith)

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e7b9295551d55b42b416ba70cce11da79ece5e7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 26 13:41:59 2014 -0400

fb: Hide fbPush{Pattern,Fill]

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e31d16a82d83738740f67743b759c006d9845e79
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 26 13:32:37 2014 -0400

fb: Hide fbDots

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5db0f067ed4ff24c48cde7998e4a52ad80037cb7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 26 13:30:06 2014 -0400

fb: Hide Bresenham line details

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b184a863e111834e28564d963c0733a30833f128
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 8 12:23:48 2014 -0400

fb: Hide some zero-width line details

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 266cd552bd54fd3e7a83ae7178a303285857631e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 8 12:13:13 2014 -0400

fb: Hide glyph implementation details
fb: Remove even/odd tile slow-pathing

Again, clearly meant to be a fast path, but this turns out not to be the case.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

fb: Remove unused fbReduceRasterOp

Appears to have been cargo-culted in from cfb and then never used.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

fb: Move fbStipple*Bits near their only consumer

And remove fbStippleTable since gcc can't figure that out itself.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

fb: Remove even/odd stipple slow-pathing

This is clearly meant to be a fast path, but it appears to be a net loss at this point.

If you really wanted to ricer-tune here, note that the inner loop of fbBltOne is a bit too complicated for gcc (at least 4.8.2), it doesn't...
specialize the loop for the handful of legal values of bitsPerDst, which means computing at runtime what could have been const-propped.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a1983736853814d34450c0a0de1c4f6ee308423d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 17 11:24:06 2014 -0400

fb: FB_SHIFT is 5 (and FB_UNIT is 32)

The other paths don't build or work, PCI and other buses are almost always 32 bit data paths, and X doesn't really support pixels bigger than that anyway.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3d35bd6b79957a3441abd87a377f0beb058997ed
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 24 12:01:54 2014 -0400

fb: Eliminate fbLaneTable, staticize fb{8,16,32}Lane

gcc doesn't appear to be smart enough to fold away the indirection here, even if you make fbLaneTable const.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 86ce6262975a7d53d9331723beb49cbe7bd02b48
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 26 12:39:38 2014 -0400

mi: Fold micursor.c into mipointer.c

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3b63900e90f44cf85a4d3391d23407b3bb6db52b
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 26 12:34:15 2014 -0400

mi: Fold mipolyutil.c into mipoly.c

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 21b041ef48c49ff6fc066f6e4482ffe54cb763493
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 26 12:27:22 2014 -0400

mi: Fold mipoly{con,gen}.c into mipoly.c

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7679af6d4da8b86ae27e5916ba723116a3c8bb4a
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 26 12:01:37 2014 -0400

mi: Fold mifpolycon.c into miarc.c
Also put mifpoly.h on a diet, and stop including it from places that
don't need it.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f307ef10f4c33da4b5e59800931741b0a431d75
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 17:22:07 2014 -0400

mi: Fold mispans.c into miwideline.c

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 707965407a3c907058b89610e73e02989fd0b552
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 23 12:10:29 2014 -0400

mi: Unexport arc fill implementation details

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ce8fff5cd681523088c14b97ce4fb6e4fb658321
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 23 12:06:03 2014 -0400

mi: Unexport subpixel polygon implementation details

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit a085ba82bde375b5c884a40b410b563815c58a9e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 23 11:55:05 2014 -0400

    mi: Unexport span group implementation details

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c15c886ee70f9144bc4603b918310f229312aadc
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 23 11:50:07 2014 -0400

    mi: Unexport polygon edge table implementation details

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9bdc9b0113915de3d536b2b3f025915379e2126f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 23 11:21:28 2014 -0400

    mi: Unexport wide line details

    XAA wanted these, once upon a time, but that's gone now.

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d181e52ceb9ae44e1faa8d5af8805f43328da6c2
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 24 11:56:23 2014 -0700

    glamor: Free converted bits in _glamor_upload_bits_to_pixmap_texture fast path

    When uploading bits to a texture which need reformatting to match a
    supported GL format, a temporary buffer is allocated to hold the
    reformatted bits. This gets freed in the general path, but is not
    freed in the fast path because that includes an early return before
    the call to free.

    This patch removes the early return and places the general case under
    an 'else' block, so that both paths reach the call to free.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit 55b27ed70cf9d9b9dfaf46e9a3191bfda38f7c
Author: Andreas Hartmetz <ahartmetz@gmail.com>
Date: Sat Oct 4 18:13:04 2014 +0200

glamor: Don't free memory we are going to use.

glamor_color_convert_to_bits() returns its second argument on
success, NULL on error, and need_free_bits already makes sure that
"bits" aliasing converted_bits is freed in the success case.
Looks like the memory leak that was supposed to be fixed in
6e50bfa706cd3ab884ec933b1f17c221a6208aa4 only occurred in the error
case.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 16a32c53f6e9ad1f3284d4596edfa33e9efb740e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Oct 9 05:42:09 2014 -0700

If fork fails in System(), don't fallthrough to exec()

In the unlikely event of a failure in creating processes, signal
masks will fall from the panels above you. Secure your mask before
telling your child what to do, since it won't exist, and you will
instead cause the server itself to be replaced by a shell running
the target program.

Found by Coverity #53397: Missing break in switch
Execution falls through to the next case statement or default;
this might indicate a common typo.
In System: Missing break statement between cases in switch statement (CWE-484)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matthieu Herrb <matthieu@herrb.eu>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7e5bc49d1ed2c78c321da79bdcb99b90c5f95b38
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Oct 9 05:42:08 2014 -0700

Allocate enough room for both reset & flags attributes

cntx_attribs had room for 3 pairs of attributes, but if both flags & reset
attributes were being returned it was storing 4 pairs in the array.

Found by Coverity #53442: Out-of-bounds write
This could cause an immediate crash or incorrect computations.
In create_driver_context: Out-of-bounds write to a buffer (CWE-119)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cffd4e4a4ee615d8583eae78b35017e0d1bfa4f0
Author: Adam Jackson <ajax@redhat.com>
Date:    Thu Oct 9 09:58:06 2014 +0200

mi: Mark the span blit routines as _X_COLD

On gcc, __attribute__((cold)) means:

- consider calls to the function to be unlikely for branch prediction
- optimize the function for size
- emit the function in a dedicated cold text section

It's not worth deleting these routines even though there are no longer
in-tree consumers, but we can at least keep them out of i$ at runtime.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit de55aafa8f6a9e0dec364bec920d6f91ef2b39f0
Merge: 462bf87c4d c79f824bf6
Author: Keith Packard <keithp@keithp.com>
Date:    Thu Oct 23 17:28:24 2014 -0700

Merge remote-tracking branch 'ajax/xwin'

commit 462bf87c4d1c2211dd49a5ce62d01ff84ff33970
Author: Adam Jackson <ajax@redhat.com>
Date:    Wed Oct 8 17:20:33 2014 +0200

render: Always store client clip as a region

This does have one semantic change. FixesCreateRegionFromPicture used to
throw BadImplementation if you tried to create a region from a picture
with no client clip. I changed that to BadMatch here since that more
honestly describes what's going on.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3f4edd2e3ff84c38df563b09c2e8c32404db38f7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 8 17:18:32 2014 +0200

xinerama: Fix access mode in GetImage's drawable lookup

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 942e18e17e334d7a25f8c1dcc6f5c3711eeb6a7d
Author: William ML Leslie <william.leslie.ttg@gmail.com>
Date:   Wed May 21 10:28:52 2014 +1000

Xephyr: option to disable grabbing the host

This patch makes it possible to use C-S key combinations within Xephyr without losing access to the host window manager's commands.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 7ea4a21feed5ac5e71cc6d8141c97d6362402c5d
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Fri Sep 19 13:37:50 2014 +0100

configure.ac: Force --disable-libdrm on Cygwin

This is now needed to avoid trying to build the modesetting driver by default when building the Xorg DDX on Cygwin.


Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 883927d2e8733f4070b2a8bcc5ec8cc2d7a661b3
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Tue Sep 30 13:55:59 2014 +0100

configure.ac: Avoid "Your OS is unknown" warning when configuring for Cygwin

Don't emit "Your OS is unknown" warning when configuring with --enable-xorg to build the XOrg DDX for Cygwin.

The list of supported OSes is getting a bit unwieldy, so just remove it.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 549b3175afc46cee6e1b61841f854a5272eaf1f7
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Thu Oct 2 15:37:50 2014 +0100

hw/xwin: Fix unused variable warning in winCreateMsgWindow()

winmsgwindow.c:99:11: warning: variable ‘winClass’ set but not used [-Wunused-but-set-variable]

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5adfb566fe05b5f40b4ade1457862936d6d038
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Fri Oct 3 14:22:30 2014 +0100

hw/xwin: Fix redundant declaration warning in winprefslex.l

winprefslex.l:40:12: warning: redundant redeclaration of ‘yyparse’ [-Wredundant-decls]
winprefsyacc.h:130:5: note: previous declaration of ‘yyparse’ was here

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8f062f73805765f5769dfbd7b738e8dd10062fba6
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Fri Oct 3 14:12:57 2014 +0100

hw/xwin: Fix warning in yyerror()

winprefsyacc.y:257:3: warning: nested extern declaration of ‘yylineno’ [-Wnested-externs]
Promote yylineno declaration to file scope

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f0f0c92a08f0ccf5a7ac447d117eb0341fe136d6
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Fri Oct 3 14:00:06 2014 +0100

hw/xwin: Fix const warning in winPrefsLoadPreferences()

winprefs.c:643:14: warning: assignment discards ‘const’ qualifier from pointer target type [enabled by default]

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 593c6b19349538ec3b89bc48eb3f0bb4c0cebb23
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 15:35:54 2014 +0100

    hw/xwin: Fix const warnings in winprefsyacc.y

    winprefsyacc.y:174:5: warning: passing argument 1 of ‘AddMenuLine’ discards ‘const’ qualifier from pointer target type [enabled by default]
    winprefsyacc.y:67:13: note: expected 'char *' but argument is of type 'const char *'
    winprefsyacc.y:174:5: warning: passing argument 3 of ‘AddMenuLine’ discards ‘const’ qualifier from pointer target type [enabled by default]
    winprefsyacc.y:67:13: note: expected 'char *' but argument is of type 'const char *'
    winprefsyacc.y:175:5: warning: passing argument 3 of ‘AddMenuLine’ discards ‘const’ qualifier from pointer target type [enabled by default]
    winprefsyacc.y:67:13: note: expected 'char *' but argument is of type 'const char *'
    winprefsyacc.y:178:5: warning: passing argument 3 of ‘AddMenuLine’ discards ‘const’ qualifier from pointer target type [enabled by default]
    winprefsyacc.c:1737:9: warning: passing argument 1 of ‘yyerror’ discards ‘const’ qualifier from pointer target type [enabled by default]
    winprefsyacc.y:82:12: note: expected 'char *' but argument is of type 'const char *'
    winprefsyacc.c:1854:3: warning: passing argument 1 of ‘yyerror’ discards ‘const’ qualifier from pointer target type [enabled by default]

    Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 394ad259596801860d32d531408a07b63e469427
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 14:31:35 2014 +0100

    hw/xwin: Fix const warning in winCheckDisplayNumber()

    InitOutput.c:1032:19: warning: assignment discards ‘const’ qualifier from pointer target type [enabled by default]

    Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 701492e5d9487545afeb5ebfeebcc0408ca7bc4
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 14:30:56 2014 +0100

    hw/xwin: Fix warning in winXIconToHICON()

    winmultiwindowicons.c:403:29: warning: passing argument 8 of ‘XGetWindowProperty’ from incompatible pointer type [enabled by default]
    /usr/include/X11/Xlib.h:2688:12: note: expected 'Atom *' but argument is of type 'long unsigned int *'

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33698
Looks like this has been wrong since I added it in 527cf131 :-(

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a14f1d9d4d5bb87055f7e4812e9ef75771ea65bc5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 14:09:40 2014 +0100

hw/xwin: Fix format warnings with debug printing of pointers on 64-bit

Fix various pieces of debug output, mainly under --enable-debug, which use a
"%08x" printf format for a pointer type. Use "%p" format for 64-bit portability.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 03d462dd2cacc92de9e6bad00710d899509387
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 2 12:04:20 2014 +0100

hw/xwin: Fix warnings in glx/glxshim.c

glext.h currently requires GL_GLEXT_PROTOTYPES in order to prototype
glCompressedTexImage* functions

generated_gl_shim.c:2859:6: warning: no previous prototype for 'glCompressedTexImage3DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2866:6: warning: no previous prototype for 'glCompressedTexImage2DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2873:6: warning: no previous prototype for 'glCompressedTexImage1DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2880:6: warning: no previous prototype for 'glCompressedTexSubImage3DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2887:6: warning: no previous prototype for 'glCompressedTexSubImage2DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2894:6: warning: no previous prototype for 'glCompressedTexSubImage1DARB' [-Wmissing-prototypes]
generated_gl_shim.c:2901:6: warning: no previous prototype for 'glGetCompressedTexImageARB' [-Wmissing-prototypes]

Also, explicitly prototype glXGetProcAddressARB(), as glx/glxdrify.c does, as
it's not practical to include glx.h here...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 329e8125aa3b4c8312f8290a5436c2eb4c1cf96
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Oct 1 12:14:43 2014 +0100

hw/xwin: Fix compilation with -Werror=declaration-after-statement

exevents.c: In function 'winClipboardInitMonitoredSelections':
exevents.c:129:5: error: 'for' loop initial declarations are only allowed in C99 mode
    for (int i = 0; i < CLIP_NUM_SELECTIONS; ++i)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 97c3298caab7c5a5396fc6d02d862e5380d7d2e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Oct 1 12:02:04 2014 +0100

hw/xwin: Fix compilation with -Werror=return-type

winshaddnl.c: In function ‘winRedrawScreenShadowDDNL’: 
winshaddnl.c:991:9: error: ‘return’ with no value, in function returning non-void [-Werror=return-type]

Just wrong in 1c34e774

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 61a292ad45405641de1c522a04c148e0a152acd
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 15:17:17 2014 +0200

glx: check return from __glXGetAnswerBuffer

This function can return NULL; make sure every caller tests for that.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d634ecdf82f244ff8ce75d351fc175792d254e5c
Merge: 6622f0cb177edf480f5e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 15:08:31 2014 +0200

Merge remote-tracking branch 'ajax/dead-code'

commit 6622f0cb1761501f3287f8a8d3cbca3fd30f9f0c
Merge: f12e7f49805ecd786f6f
Author: Keith Packard <keithp@keithp.com>
Use unique display name for each xi2 test program [v3]

make -j 8 check was sporadically failing in different xi2 tests.
After adding the asserts in the previous commit to catch xkb failure it became easier to catch the failures and see that multiple tests were running at once trying to write to /tmp/server-(null).xkm and then delete it, and interfering with each other.

Putting a unique string into the display variable let them each write to their own file and not interfere with others.

v2: Fix Linux bits:

Add #include <errno.h> to get a declaration of program_invocation_name on Linux.

Use only the last portion of the pathname so that the resulting display name doesn't contain any slashes.

v3: use program_invocation_short_name on Linux

This is the same as program_invocation_name, except is has stripped off any path prefix.
misc: Fold together some redundant conditionals

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5b07f1db6de9f08f757206454da03ee0ae872bfc
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 18 16:05:40 2014 -0400

fb: fb{Map,Unmap}Window -> fb{Realize,Unrealize}Window

Make the function names match the screen slot name.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9ed83a694b6492e9db226b115ed282cb127e798e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 18 15:36:57 2014 -0400

mi: miSlideAndSizeWindow -> miResizeWindow

Make the function name match the screen slot name.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 939ca767c7603923a91fd37901175a42e802d40e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 18 14:50:28 2014 -0400

dix: Remove an obfuscatory macro

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d138d9ccc62a9472925574089f346bf9aa3dab1f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 15 13:05:24 2014 -0400

dix: Remove some pointless casting of NULL

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 277330075bfbd4343c4efdd136e0be716e1a491f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 15 12:30:44 2014 -0400
dix: Remove an empty if

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 81d76a835b2f647e3051b1d93606e59db7998d76
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 15 12:10:55 2014 -0400

dix: Lower backStorage to a bit instead of a pointer

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 322ba42c23a3a107f7a62fb1c449792b616e5eba
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 15 12:05:26 2014 -0400

dix: Remove DIXsaveUnder bit from the Window

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1e56b2dfc6377234ffcdcdf206528d476b04d13af
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 12 12:51:13 2014 -0400

mi: Move pScreen->SendGraphicsExpose up to dix

No DDX is overriding this and it's fairly absurd to expose it as a screen operation anyway.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5d3bd8a3dc6456ea1ccf7b5f71b972379d7565ec
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 12 11:56:28 2014 -0400

mi: Drop plane argument from miHandleExposures

This existed to be passed to the bs recovery routine; since we back all planes, we don't care.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 7edd80bc4a6c1902746a9fbc79ab553f9fd5821
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 5 14:07:17 2014 -0400

mi: Simplify composite border clip redirection interface

There's not really a good reason for mi to not just call the composite
code directly.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7b35dc9b1533d4b99a3f8f4f460ac66354a6fe347
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 23 10:35:37 2014 -0400

mi: Deobfuscate miOverlayWindowExposures

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fb34f273481b90a98f0f5e5a2d642a5661b8
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 23 10:30:56 2014 -0400

mi: Deobfuscate miWindowExposures

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0d30d44a8cdacfb99d8193f76c133b803464622
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 11 12:44:54 2014 -0400

dix: Drop the third argument from WindowExposuresProcPtr

A careful read shows that it was always NULL. It hasn't always been; as
the DDX spec indicates, it was the "occluded region that has backing
store", but since that backing store code is long gone, we can nuke it.

mi{,Overlay}WindowExposures get slightly simpler here, and will get even
simpler in just a moment.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit aaf5e2d643af590366b2d02ad1c2db05d1fc4131
Author: Eric Anholt <eric@anholt.net>
modesetting: Add support for rendering using glamor.

By default modesetting now tries to enable X acceleration using
 glamor, but falls back to normal shadowfb if GL fails to initialize.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6d41bdb23ca92803e3a51dc317d2b80cdb92f43a
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Aug 26 16:59:37 2014 -0700

modesetting: Deduplicate some scrn setup.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 20a3b482191711bc15be0410ccc3651924271349
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Oct 8 00:41:13 2014 -0700

modesetting: Fix some weird formatting after x-indent-all.sh.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3119acdad9eecff90b8fd99265e2a456e78c8779
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Oct 8 00:39:15 2014 -0700

modesetting: Run x-indent-all.sh.

As I was editing code, the top-level .dir-locals.el was making my new
stuff conflict with the existing style. Make it consistently use the
xorg style, instead.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c79f824bf6617816aaaf10393beec8ddfa591f7b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 25 15:49:26 2014 -0400

xwin: Remove primary DirectDraw engine

Again, as the documentation says, "unsupported, obsolete".
xwin: Remove native GDI engine (v2)

As the man page says, "unsupported, experimental, and barely functional". The last even minor updates to any of this were back in 2004, presumably it's not getting better any time soon.

This is also the only GC ops implementation in the tree that actually falls all the way down to the spans routines for everything, so that's pretty nice to be rid of.

v2: Fix stray break statement (Jon)

rootless: remove redundant RootlessShapedWindowIn

miShapedWindowIn is identical. Which you would expect, since neither one takes an actual WindowPtr argument, so they couldn't possibly make reference to rootlessness.

xquartz: Remove useless DRIWindowExposures

Keith Packard <keithp@keithp.com>
Adam Jackson <ajax@redhat.com>
kdrive: Remove vestigial reference to fbInitValidateTree

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7ebf480f5eb75e06271ee924769e51bdcbdbdc69c
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 28 12:34:49 2014 -0500

xfree86: Remove some can't-happen printf from xf86CreateRootWindow

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3689be96ac125c9bfca9d37de4878f05f4e2f584
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 10 12:54:41 2014 -0400

vfb: Don't reimplement micmap so much

We know we're atop fb which is atop micmap, the only thing we need to
hook is InstallColormap to handle the xwd colormap change.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 692676deb82227054d67078c6442f1ab1811192
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 16 12:35:28 2014 -0400

loader: Remove some baklava code

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c695a1430b80bac0b95e4d7f559e1bd223ecb1ef
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 14:38:34 2014 -0400

input: Remove unused SetKeySymsMap

Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 645063cd9384a26353775e92a79ed8710c6ca66c
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 4 12:51:49 2014 -0500
exa, kdrive: Remove redundant BitsPerPixel macros

We already get this from servermd.h

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cccba52d152a7d233c0b762a548444ecef831483e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Sep 21 09:49:05 2014 -0700

Abort xi2 tests if ActivateDevice() fails

I was getting segfaults in xi2 tests from trying to copy XKB keyboard state to NULL pointers with a stack of:
key=key@entry=0) at xkbActions.c:1189
sendevent=sendevent@entry=0 \'000\') at devices.c:420
at protocol-xiquerydevice.c:338

which turned out to be due to xkbcomp failure, which was logged in the test logs as:
XKB: Failed to compile keymap
Keyboard initialization failed. This could be a missing or incorrect setup of xkeyboard-config.

but which was overlooked because the ActivateDevice() return code wasn't checked and the tests went forward assuming the structures were all correctly initialized. This catches the failure closer to the point of failure, to save debugging time.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 95a5b92e37f73f497d547fd91c543c16d2cc73de
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 2 10:26:53 2014 -0700

xfree86: Remove remaining return FALSE from configServerFlags

Remove the error return path from the FLAG_PIXMAP path and leave the default value in place. There's no point skipping the rest of this function.

Reviewed-by: Keith Packard <keithp@keithp.com>
Merge remote-tracking branch 'ajax/dead-code'

commit 9bc01dfc7070a40f5948588895b3a11dd1636d0e
Author: Axel Davy <axel.davy@ens.fr>
Date: Sat Sep 27 23:17:13 2014 +0200

Fix present_pixmap when using present_notify_msc

Calling present_notify_msc could cancel a pending pixmap presentation.

Signed-off-by: Axel Davy <axel.davy@ens.fr>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b3e9791fd375eb71b6150a77b8009b046b213004
Author: Daniel Martin <consume.noise@gmail.com>
Date: Sat Sep 20 09:07:41 2014 +0200

xfree86: Delete file modinit.h

All references to modinit.h have been remove with:

a1d41e3 Move extension initialisation prototypes into extinit.h

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2aeb9d8f8b22ceb1de883c231a0a75d4c75d3f4a
Author: Daniel Martin <consume.noise@gmail.com>
Date: Sat Sep 20 09:07:40 2014 +0200

security: Remove XpExtension from SecurityTrustedExtensions

There's no XPrint extension (anymore).

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 12c19bbff4b7b2d0b350a7b93b38ebbf69748534
Author: Daniel Martin <consume.noise@gmail.com>
Date: Sat Sep 20 09:07:39 2014 +0200

dix: Remove XpExtension leftovers from protocol.txt
There's no XPrint extension (anymore).

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d3d845ca9e92f0a2ccde93f4242d7769afe14164
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Sep 25 15:27:22 2014 +0900

glamor: Use GL_STREAM_READ also for read/write access to a PBO

Otherwise the CPU may end up reading from non-cacheable memory, which is
very slow.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=84178
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Markus Wick <markus@selfnet.de>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 78c27d12e1f4857bfcfe92aafbb69d5dd989232b9
Merge: 6e50bfa706 1d6334dd0c
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 29 13:04:49 2014 -0700

Merge remote-tracking branch 'jturney/xwin-clipboard-refactoring'

commit 6e50bfa706cd3ab884c933bf1f17c221a6208aa4
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Sep 24 16:48:10 2014 +0900

glamor: Fix leak of converted_bits in _glamor_upload_bits_to_pixmap_texture

==9530== 808,575,600 bytes in 5,904 blocks are definitely lost in loss record 4,602 of 4,602
==9530== at 0x4C28C20: malloc (vg_replace_malloc.c:296)
==9530== by 0xAD29C98: _glamor_upload_bits_to_pixmap_texture (glamor_pixmap.c:771)
==9530== by 0xAD2AE95: glamor_upload_sub_pixmap_to_texture (glamor_pixmap.c:1031)
==9530== by 0xAD2BD55: glamor_upload_pixmap_to_texture (glamor_pixmap.c:1057)
==9530== by 0xAD1C2E6: glamor_composite_choose_shader (glamor_renderer.c:1025)
==9530== by 0xAD1C629: glamor_composite_with_shader (glamor_renderer.c:1174)
==9530== by 0xAD1DA77: glamor_composite_clipped_region (glamor_renderer.c:1542)
==9530== by 0xAD1E849: glamor_composite (glamor_renderer.c:1689)
==9530== by 0xAD1ED90: glamor_composite (glamor_renderer.c:1758)
==9530== by 0x519FD6: damageComposite (damage.c:502)
==9530== by 0xAD27AA3: glamor_trapezoids (glamor_trapezoid.c:147)
==9530== by 0xAD27B51: glamor_trapezoids (glamor_trapezoid.c:101)
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=84176
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4433bc6d53e651b3dc4112099a153c2574f30797
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 1 12:48:15 2014 -0400

x86emu: Undefined _NO_INLINE

Never defined by the server.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1c3cb68d0cd15d29fd3aaa9eeebfa772ec8e3a47
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 29 14:15:24 2014 -0400

xfree86: Remove pointless xf86PrintMarkers

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 30fa6da6f140d713041942a815fd6da6736e4f7f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 29 14:07:39 2014 -0400

xfree86: configServerFlags never fails, make it return void

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2bf9db1930528255a37f9787ae82e2851f814c2
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 29 14:02:01 2014 -0400

xfree86: Remove unused xf86Info.useDefaultFontPathFrom

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fffea07b4cb0992fed2cca33be08440ea94090d9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 29 13:48:10 2014 -0400
xfree86: Remove xf86Info.log (v2)

SUBCLASS ALL THE THINGS

v2: Remove the enum too (anholt)

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2f5cfbee5409b088156d4cd84a3376499e291631
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 8 14:50:22 2014 -0400

xfree86: Remove DisplayID support

Not actually wired up so it's fairly useless.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b56fcce761534d3e28b7ea19e2a13213c3157a1f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 17 10:36:44 2014 -0400

xfree86: Remove useless back-pointer to pScrn from colormap code

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ef22655311efa0d5a5395ba2f19aa20d71a05a4f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 2 13:36:13 2014 -0400

xfree86: Remove spurious xf86ConfigError

READABLE.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 35f0257360fa6e11b9ecc08e467163718e012bb1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 4 11:12:16 2014 -0500

xfree86: Remove Option "TextClockFreq"

No modern driver pays attention to this. Presumably there existed hardw
CRTC.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6755aa2c1244fee11846c1e0b274bd34900e3299
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jul 25 12:31:54 2014 -0400

xfree86: Remove xv clip notify driver hook

Nothing's using it.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e89caca9a1e46d369bb78c71734336d0517975
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 23 10:27:58 2014 -0500

mi: Remove Windows 8-bpp colormap compatibility

Nice, but not something our Windows servers build, and not something
that belongs in mi anyway.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7cd192edc195c089c6df32e9f222ed7a3706b6fd
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 16 11:55:30 2014 -0400

loader: Deobfuscate RTLD_* macro stuff

POSIX requires that these be named correctly, no need to be clever.

Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cc59be38b7eff52a1d003b390f2994c73ee0b3e9
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 12 11:33:48 2014 -0700

os: Don't listen to 'tcp' by default. Add '-listen' option. [v2]

This disables the tcp listen socket by default. Then, it
uses a new xtrans interface, TRANS(Listen), to provide a command line
option to re-enable those if desired.
v2: Leave unix socket enabled by default. Add configure options.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 8ada3fb32cd7d8948e55620de18ba03df6131d
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Sep 20 10:04:11 2014 -0700

Require xtrans 1.3.5 or newer

This version of xtrans offers the TRANS(Listen) function.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 18935b41e13b34571ffda84bde5257b8e84e6d1f
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Sep 20 04:04:43 2014 -0700

XSERVER_DTRACE needs request names from registry too

The dtrace code in the server wants to log the name of each executed
request, which it gets from the registry. Use that as an additional
indication of when that portion of the registry should be included in
the server build.

See:


Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@gmail.com>

commit 28337cb14e4347e1dd7936c5393a222e042866687
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Fri Sep 19 14:22:13 2014 +1000

xserver: Move 'pragma GCC diagnostic' outside functions

$ gcc --version
gcc (Gentoo 4.4.3-r2 p1.2) 4.4.3

/jhbuild/checkout/xorg/xserver/os/log.c: In function 'LogInit':
/jhbuild/checkout/xorg/xserver/os/log.c:199: error: #pragma GCC diagnostic not allowed inside functions
/jhbuild/checkout/xorg/xserver/os/log.c:201: warning: format not a string literal, argument types not checked
/jhbuild/checkout/xorg/xserver/os/log.c:212: error: #pragma GCC diagnostic not allowed inside functions
/jhbuild/checkout/xorg/xserver/os/log.c:214: warning: format not a string literal, argument types not checked
etc.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7e6bd546846964fd9b8c2a06dea4782a552b62d7
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Aug 6 12:58:38 2014 -0700

glamor: Remove shader-based trapezoid implementation. Fixes Bug 76213.

I can’t find any performance benefit to using the GL path and the code renders this trapezoid incorrectly:

```
  top: FIXED   29.50 
  bottom: FIXED   30.00 
   left top: POINT    0.00,   29.50 
   left bottom: POINT    0.00,   30.50 
   right top: POINT -127.50,   29.50 
   right bottom: POINT   52.50,   30.00 
```

This should render a solid line from 0,30 to 52,30 but draws nothing.

The code also uses an area computation for trapezoid coverage which does not conform to the Render specification which requires a specific point sampling technique.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit b2452311bd1d67b4d78612570d4a25c685c78a0c
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Aug 19 12:52:05 2014 -0700

glamor: Check large pixmap users in glamor_large pixmap.

This enables the assertion that all users of the large pixmap member are restricted to pixmaps which are actually large.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5fc3e99f537b10dd9c2adfd37cf2c4ba5ed4bd44
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Aug 19 12:44:41 2014 -0700
glamor: Handle compositing from large to small pixmaps

glamor_composite_largepixmap_region is given the job of dealing with compositing between a mixture of large and small pixmaps. However, it was assuming that the destination pixmap was large and fetching members of the large structure even for small pixmaps.

This manifested with assertion failures when compositing from a large pixmap to a small pixmap.

Fixed by using the pixmap size for the destination block size for small pixmaps.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6e78d7f56e6d56180e2ecfd25300bb2523876ab
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Aug 19 12:41:45 2014 -0700

glamor: Don't abuse large_pixmap members for regular pixmaps

glamor_compute_clipped_regions_ext wants to treat small and large pixmaps uniformly and did that by writing into the large pixmap union member in small pixmaps to construct something that looks like a one texture large pixmap.

Instead of doing that, simply allocate the necessary elements locally on the stack and use them from there.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit bab319763c9734da3c7fbbfb91e582f54989de4cbe
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Aug 19 12:39:07 2014 -0700

glamor: Add macro __glamor_large in glamor_largepixmap.c

For now, this simply fetches the large member of the pixmap private. It will be changed to assert that the pixmap is large once bugs related to that have been fixed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 16e429f1f96f984b1ff575875a7a4d7d29b482e2
glamor: Change SET_PIXMAP_FBO_CURRENT from macro to static inline

This is the last function-like macro in glamor_priv.h; change to static inline like all of the other functions there.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ea7357de90792cbeeca6d8d9fcd144e7d8a0fba
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 10 14:01:59 2014 -0700

present: Clear pending flip pixmaps at CloseScreen

If a flip is active at server reset time, the associated window will get destroyed which will queue an unflip operation. If that isn't synchronous, then it won't have finished by the time CloseScreen is called.

Calling present_flip_idle will signal the fence and remove the reference to the fence and pixmap, freeing these in the X server and allowing a DRM client to clean up as well.

This also rewords other comments in present_flip_destroy, removing scary words about needing synchronous operation (everything in this function is synchronous now) and describing what effect we actually need from present_set_abort_flip.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2051514652481a83bd7cf22e57cb0fcd40333f33
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 10 14:02:13 2014 -0700

present: Support PresentOptionCopy

We added this option to the present protocol before 1.0 but somehow never implemented it in the server. It's pretty simple; just don't ever do flips if the application specifies Copy.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 69d8572ae4cd1bce17223ea8aff87916a974c861
Build required portions of registry.c automatically [v2]

Instead of making the inclusion of the registry code a global
conditional, split the registry into two pieces; the bits required by
the X-Resource extension (the resource names) and the bits required by
the XCSECURITY extension (the protocol names). Build each set of code
if the related extension is being built.

v2: Check for both XCSECURITY and XSELINUX.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a11fc2493e85e4a532f4954805a7c6d1c601b08f
Author: Keith Packard <keithp@keithp.com>
Date: Wed Sep 10 15:04:00 2014 -0700

dix: Close protocol.txt after we're done loading extension names

Don't leave this file open during the whole server execution process;
close it once all of the extensions are initialized.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9e07f3a3d28b01402beeb3280c94fc525bd8075
Author: Keith Packard <keithp@keithp.com>
Date: Wed Sep 10 15:41:08 2014 -0700

test: Only build hashtable tests if building X-Resource extension

The hash table functions are only included in the server when the
X-Resource extension is built, so don't try to build and test them
unless the X-Resource extension is being built.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 670ee0757f2ebf9b65d718f7ce2d5688717def667d
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Sep 16 11:10:58 2014 -0400

ephyr: Properly implement hardware cursors (v3)

When dix hands us a new cursor we proxy it through to the host server;
since we keep the host XID on the cursor bits private we can switch among them with just ChangeWindowAttributes.

v2:
Use xcb-renderutil for argb format lookup (Uli, Keith)
Fall back to core cursors for host RENDER < 0.5 (Keith)
Drop useless ephyrEnableCursor
Consistently create/destroy the cursor image GC on both paths
Treat null cursor from dix as invisible

v3:
Initialize the invisible cursor's image (Keith)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f839caadd4e567bf89f893aa7e5ba1327b712b4b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 17 11:07:22 2014 -0400
loader: Remove compatibility with ancient XFree86 version numbering
Pretty sure I'm guilty of adding this. I think I was thinking of trying to be compatible with some really old binary-only driver that I had vague aspirations of reverse-engineering, but since I haven't gotten around to it in the intervening decade...

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit af40913797e6595fbb546cc2ff3110e9526a37b4f
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Sep 17 07:41:27 2014 +0200
xwayland: always include drm.xml in tarballs
Move drm.xml out of the automake conditional so make dist includes it even if glamor-egl is disabled.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=83960

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit eae6572beefca240c42791f9a3a6e547bedd410
Merge: e3aa13b8d6 b84d25fd53
Author: Keith Packard <keithp@keithp.com>
Date: Wed Sep 17 15:49:24 2014 -0700

Merge remote-tracking branch 'anholt/modesetting-import'

commit e3aa13b8d63ea2fba6eb47ddd0a7dde5a6d2b661
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Wed Sep 17 15:38:39 2014 -0700

Update help text since -iglx is now the default

This should have been part of d0da0e9c3bb8fe0cd4879ecb24d21715bfaa209b

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b84d25fd53e97105b99495af84abaacc4c901967
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:22:02 2014 -0700

modesetting: Drop remaining old-xserver compatibility.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7b0965a826612988dd721ddbd67cfbec392b67b5
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:37:46 2014 -0700

modesetting: Drop use of compat-api.h

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2feda3b6b58f46cef91ea41312aac9021a703777
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:06:23 2014 -0700

modesetting: Connect the driver to the build.

v2: Fix libdrm version check, and use XORG_VERSION_* instead of a static 1.0.0 version for the driver module.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 30dcc10f6c9c4bacbc0e3652917c298ca9fb3898
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 5 11:18:33 2014 -0400

xfree86: Clean up some more alpha awareness

Since the sparse stuff is gone none of these variables get used for anything, they're just dead side-effect-less execution.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2e21c081d34d52ee49ac00a294d2e74caf529818
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 13:00:21 2014 -0400

xfree86: Remove the memory of MTRR awareness

pciaccess does this for us, and none of our internal hooks really remain. This does remove a cleanup pass from the BSD code, but the case it's covering (a previous server leaving MTRRs around) can't happen anymore.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c42712ab4d8eeec56704ad5422d8f54befeb1e886
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 12:58:23 2014 -0400

xfree86: Remove xf86CheckMTRR

Die die die die die.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8686463de7e1ef9814824d46526d8177a7a492a0
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 12:55:37 2014 -0400

xfree86: Remove xf86ReadBIOS

Not being used externally or internally anymore.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
int10: Port off xf86ReadBIOS

If the linux vm86 backend changes look somewhat horrifying to you, that's because you have taste.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 96c0da812a563d8229dc1396ac801329b3bcb91
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 12:39:01 2014 -0400

xfree86: Remove xf86LinearVidMem

The only driver even pretending to check the result is mach64 anyway.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ec0e29ed5bc71516de7feb226b548ce45cb9ffdf
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 12:32:02 2014 -0400

xfree86: Remove {set,undo}WC from VidMemInfo

Now that mapMem is gone this can never actually get called.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9db2af6f757ef9680c70eb731698b7c9f9aca203
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 12:14:10 2014 -0400

xfree86: Remove xf86{Map,Unmap}VidMem

This API sucks. Fortunately it's mostly unused at this point. geode, sis, and xgi need minor patches to use the corresponding pciaccess code, neomagic will (more explicitly) lose its non-PCI support, and newport will need to be ported to /dev/mem or the platform bus or something.

This should also make it pretty clear that alpha's sparse memory support was basically not a thing anymore, very few tears shed.
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6d6aa8ab6b6d62d65f1354b4cd9af0bf4f2e81d7
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:43:54 2014 -0700

modesetting: Update for the platform device API change.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9c080f44960d2338c7a59eee132a02d45186bf0b0
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:41:46 2014 -0700

modesetting: Drop use of "pointer" for "void *"

The xserver doesn't have that typedef.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit a10ea01475c6d0795b1a00cfd8be9912f4b54235
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:24:31 2014 -0700

modesetting: xserver already checks XEXTPROTO >= 7.2.99.901.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit c7e8d4a6ee9542f56cd241cf7a960fb8223a6b22
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 26 11:21:24 2014 -0700

modesetting: unifdef MODESETTING_OUTPUT_SLAVE_SUPPORT

The server will always have it.

v2: Clean up some weird formatting from the unifdeffing.

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0c07bf3b38e61a8a6ad511dc8827e2dd20d68665d
Author: Eric Anholt <eric@anholt.net>
modesetting: Merge modesetting's COPYING into the xserver's.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commits 1d6334dd0ca99923b6b55c5c047ef6b5c325f66c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jun 19 13:09:35 2013 +0100

hw/xwin: Undefine _XSERVER64 in hw/xwin/winclipboard

Including any server header might define the macro _XSERVER64 on 64 bit machines. That macro must _NOT_ be defined for Xlib client code, otherwise bad things happen. So let's undef that macro if necessary.

Remove server directories from include path to ensure no server includes are included

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commits 7ca93301940647219d8bed2d14fcd3f37e49f4b477
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Jun 18 19:53:52 2013 +0100

hw/xwin: Only add to XSetIOErrorHandler() handler chain once

Only use XSetIOErrorHandler() to add to the global XSetIOErrorHandler() chain once. If we do it every restart, then we make a loop in the handler chain, and we end up with a thread spinning in that loop when the server shuts down...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commits 5819a02d461349dbfc86317c742406d2217f7f0c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Jun 18 19:35:20 2013 +0100

hw/xwin: Add a basic manpage for xwinclip

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commits 492c924e8531b013d50637e29213da287b9a7fa2
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Jun 18 19:28:53 2013 +0100
hw/xwin: In clipboard function prototypes, use Window type, not int type

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 4a38c3bda2b0a868d7611f9423d8a0f304b435aa
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Jun 18 19:18:08 2013 +0100

hw/xwin: Remove XOpenDisplay() retry code

Remove XOpenDisplay() retry code. This isn't a sensible thing for the application to be doing, and XWin server needs to retry much more than just XOpenDisplay().

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 4fc62ae8079266f8878eb355e6eb894000d8b8b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jun 19 14:00:28 2013 +0100

hw/xwin: Improve comment about why we can't XCloseDisplay()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 89eb7bdcad092821b61a48832e1db82975a2252b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jun 19 13:59:40 2013 +0100

hw/xwin: Remove setjmp()/longjmp() error constants

Check specially that setjmp() returned a value which we don't pass to longjmp() seems a bit over-complex.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d0353bbe57aab910a6ef7da8778023a9d39c37df
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 20 00:04:16 2013 +0100

hw/xwin: Move WIN_MSG_QUEUE_FNAME to where it's used

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit fa0da5a020c2ea9366568375b7f35d3f2ddad680
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 20 13:04:35 2013 +0100

hw/xwin: Use header for prototypes in textconv.c

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cbe133752d1e817246b532a274fda3f7d74ebca1
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 20 12:50:18 2013 +0100

hw/xwin: Remove unused X includes from internal.h and add them where needed
Also removing server headers we might clash with and no longer need. Make a few adjustments to allow for this change:

- provide a prototype of ErrorF()
- use the MAX() macro provided by sys/param.h, not the max() macro provided by misc.h
- use the X 'Bool' type rather than the unwrapped Windows 'BOOL' type

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 52f3cf3c612b2f33e39fd6f985b840a0d7192a50
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jun 19 18:09:07 2013 +0100

hw/xwin: Remove standard includes from internal.h and add them where needed

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5992550c4cf8818d1c47c1e474c3d8c3383983fa
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jun 17 19:01:19 2013 +0100

hw/xwin: Add xwinclip test client
Add xwinclip test client, which includes stubs for winDebug(), ErrorF()
hw/xwin: Changes in error logging to make libwinclipboard more useful as a library

Consistently use ErrorF() rather than winErrorFVerb()

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e1cf2b47ea9ff3e64c0ef1e4d0744d9df4bc1b7
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 19:58:20 2013 +0100

hw/xwin: Look up atoms in winClipboardProc()

Look up all atoms of interest in clipboard code in winClipboardProc() and pass them down.

This avoids the need to check serverGeneration to notice when we need to invalidate cached atom values.

Also consistently use cached atom values everywhere, rather than sometimes just doing XInternAtom() again.

Remove WIN_LOCALPROPERTY as unused now, as we only refer to CYGX_CUT_BUFFER once and do that directly.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit be61a1fc7e25a380f8d506e13b22017492a71913
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 19:07:05 2013 +0100

hw/xwin: Add fUseUnicode as parameter to winClipboardProc()

Add fUseUnicode as parameter to winClipboardProc()
Access g_fUseUnicode global when calling it

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 126c1cfaa5b5978026d44a1f8b044d367056965b
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 18:27:56 2013 +0100

hw/xwin: Separate libwinclipboard interface and internal header files
Rename the libwinclipboard internal header from winclipboard.h to internal.h

Put libwinclipboard's public interface into winclipboard.h

This lets winclipboardinit.c partake of that public interface, and all X server headers without clashes

winInitClipboard() prototype belongs in a server header

v2: Remove duplicate declaration of winClipboardWindowDestroy()

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 30c535219ef2c251d90a1a1d3d07c8a7ec936da9
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Tue Jun 18 00:32:53 2013 +0100

hw/xwin: Return a shutdown flag from winClipboardProc() if we should stop trying

Return a shutdown flag from winClipboardProc(), and use it in winClipboardThreadProc() to determine if we should stop.

Currently this is set if the clipboard messaging window received a WM_QUIT.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 88d44597046086953032fec7e035fc036596e255
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jun 17 00:38:47 2013 +0100

hw/xwin: Move clipboard integration code down to a subdirectory

Move clipboard integration code down to a subdirectory and build as a convenience library

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e965001a732a6b573c374f6a3503e172df01e8ec
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jun 17 13:18:16 2013 +0100

hw/xwin: Make g_hwndClipboard static

Move winFixClipboardChain() into winclipboardthread.c
Add winCLipboardWindowDestroy() function to access it for WM_DESTROY
 hw/xwin: Add remaining clipboard globals to winglobals.h

 hw/xwin: Hoist use of winSetAuthorization() and winGetDisplayName() up one level

 hw/xwin: Eliminate g_pClipboardDisplay and g_iClipboardWindow globals

 hw/xwin: Move winClipboardCreateMessagingWindow() to winclipboardthread.c

 Move winClipboardCreateMessagingWindow() from winclipboardinit.c to
 winclipboardthread.c, the only place that uses it, and make it static.
hw/xwin: Remove SetSelectionOwner wrapper, use XFixesSetSelectionOwnerNotify event instead

Use the XFixesSetSelectionNotify event instead of a SetSelectionOwner wrapper, the completely equivalent client-side mechanism.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ab55746c1b179172a82b7a89ec6429b268a1f166
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 01:55:46 2013 +0100

hw/xwin: Remove g_fClipboardLaunched, it's value is identical to g_fClipboardStarted

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 42d13810822f6b48771d77b09c0ef7cc2356ede5
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 01:30:09 2013 +0100

hw/xwin: Hoist setting of g_fClipboardStarted flag up one level

Hoist the setting of g_fClipboardStarted flag up one level.

Also move up the clearing of the g_fClipboardLaunched at the end of clipboard function.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 290dbff0753ddf60f04da92d5a408c567a2ee3e0
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 01:55:03 2013 +0100

hw/xwin: winProcEstablishConnection doesn't need to check if clipboard started

winProcEstablishConnection doesn't need to check if clipboard has already been started.

It should be clear that we start the thread only once when the wrapper tells us to, as the wrapper unhooks itself thereafter.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 91e55691ef07735bb866c0f4d3c1a6e2ca167992  
Author: Jon TURNERY <jon.turney@dronecode.org.uk>  
Date:   Sun Jun 16 23:57:17 2013 +0100

hw/xwin: Hoist clipboard thread restart up one level

Hoist clipboard thread restart up one level.

Note that currently g_fClipboardLaunched is set the first time in the
winProcEstablishConnection wrapper, and subsequent times when the clipboard
thread restarts itself.

Try to clarify this and just set g_fClipboardLaunched before starting the
thread.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>  
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0bb6ea4e4e34634abb2679004ace94504a4d65964  
Author: Jon TURNERY <jon.turney@dronecode.org.uk>  
Date:   Mon Jun 17 00:07:01 2013 +0100

hw/xwin: Push winClipboardShutdown() into winclipboardinit.c

Push winClipboardShutdown() into winclipboardinit.c  
This lets us make g_ptClipboardProc static

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>  
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6343b531d786dd4a9bb52050c9ef267a04374b57  
Author: Jon TURNERY <jon.turney@dronecode.org.uk>  
Date:   Wed Jan 1 17:54:48 2014 +0000

hw/xwin: Remove left-over pthread_exit() in clipboard code

Commit c1bf3b9aa44fbd8aaf33a2b3ce045324485b85a7a7 removed all but one of the
pthread_exit() calls which used to call winClipboardThreadExit()

Fix the final remaining one to exit via done label on IOError instead.

Also fix a comment and report pre-flush failure to log, but do not exit

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>  
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d3427717f2c6a473dc3d20631dff653e4e37228e
xwayland: Snap damage reports to the bounding box

Instead of sending every little rect. Lets x11perf run to completion, makes 'while true; do gtkperf -a; done' take longer to crash.

This is effectively a resend of the same logic against the old xfree86+xwayland branch:


Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5ecc0315a2b9bea44ace886f5706a7a3f5cbe4f6
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Mon Jun 30 13:53:50 2014 -0400

xwayland: Implement throttling for surfaces based on the frame event

This implements simple throttling that keeps us to one attach per frame. There isn't really an active performance benefit, since the buffers will be redrawn only once per frame anyway, but it does cut down on the chatty network traffic. Since the Wayland sockets might fill up as well, the cut down on the volume of data we send out also provides us with a big stability benefit.

Namely, mutter is a lot more stable running gtkperf, a fairly intensive X11 application, after this change.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 6c442fc4f7d84508665dfdee8a75ec91f50395dc
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Mon Jun 30 15:28:16 2014 -0400

xwayland-input: Fix a crasher for a race with the Wayland compositor

If something quickly maps and unmaps a window, then we'll immediately create and destroy the Wayland surface that corresponds to that window. If our mouse pointer is over the window when the surface is created, we'll receive a enter on the window.

Since resource creation and destruction is not synchronous, that
means that the compositor will queue up an event for a resource that's eventually destroyed. On the client-side, when we receive this message, we note that the resource isn't allocated, and get a NULL surface in our enter handler. We immediately try to dereference this, and then crash.

This was caused by running gtkperf while moving the window a lot.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 1d32004ed5a3a20b2d5879867e213122dced69d0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Sep 10 16:20:48 2014 +0900

glamor: Make glyph mask cache per-screen

It references a pixmap, which is a per-screen resource.

Fixes broken text rendering in xfwm4-tweak-settings in Zaphod mode.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 710d314ad16cf1eaca3b97b1736ff0ca43e598c4
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Sep 10 16:20:47 2014 +0900

glamor: Track glyph caching information per screen

This is necessary because the glyph caches are per screen.

Fixes broken menu text in gnome-terminal in Zaphod mode.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a4e8e6dff9a0c26944a325e4017faa68d93ae5b8
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Sep 10 16:20:46 2014 +0900

glamor: Move 'glyph caches realized' check to glamor_realize_glyph_caches

And rename the boolean to reflect what it's about.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0acff6e4374340dc391014f396f190daf73d579c
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Sep 10 16:20:45 2014 +0900

glamor: Call glamor_glyphs_init from glamor_create_screen_resources

The comment above glamor_glyphs_init was already saying so.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 54a1d4db825be90fb7be138e3267a15922d62f03
Merge: 8f8dcfee20 f92df22a03
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 11 18:27:41 2014 -0700

    Merge remote-tracking branch 'jturney/master'

commit 8f8dcfee2085ba82107a8bf3872a0bb241493409
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Sep 4 23:18:03 2014 -0700

Make list tests actually test lists

Coverity scan detected that asserts were setting values, not checking them:

CID 53252: Side effect in assertion (ASSERT_SIDE_EFFECT)
    assignment_where_comparison_intended: Assignment item->b = i * 2
    has a side effect. This code will work differently in a non-debug build.
    Did you intend to use a comparison ("==") instead?

CID 53259: Side effect in assertion (ASSERT_SIDE_EFFECT)
    assignment_where_comparison_intended: Assignment item->a = i
    has a side effect. This code will work differently in a non-debug build.
    Did you intend to use a comparison ("==") instead?

CID 53260: Side effect in assertion (ASSERT_SIDE_EFFECT)
    assignment_where_comparison_intended: Assignment item->a = i
    has a side effect. This code will work differently in a non-debug build.
    Did you intend to use a comparison ("==") instead?

CID 53261: Side effect in assertion (ASSERT_SIDE_EFFECT)
    assignment_where_comparison_intended: Assignment item->b = i * 2
    has a side effect. This code will work differently in a non-debug build.
    Did you intend to use a comparison ("==") instead?
Fixing those to be == caused test_nt_list_insert to start failing as part assumed append order, part assumed insert order, so it had to be fixed to use consistent ordering.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d0da0e9c3bb8fe0cd4879ecb24d21715bfaa209b
Author: Eric Anholt <eric@anholt.net>
Date: Thu Sep 4 10:59:40 2014 -0700

glx: Disable indirect GLX contexts by default.

Almost every situation of someone running indirect GLX is a mistake that results in X Server crashes. Indirect GLX is the cause of regular security vulnerabilities, and rarely provides any capability to the user. Just disable it unless someone wants to enable it for their special use case (using +iglx on the command line).

Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bf338efc678258d2d366dffe2ed873752f98f0bfc
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 4 08:36:07 2014 -0700

glx/present: Only send GLX_BufferSwapComplete for PresentCompleteKindPixmap

Present didn't provide the 'kind' argument to the present_complete_notify hook that GLX uses to construct GLX_BufferSwapComplete events, so GLX was reporting events for PresentCompleteKindMSC notifications, which resulted in duplicate GLX_BufferSwapComplete events and crashes in clutter.

See the gnome bug: https://bugzilla.gnome.org/show_bug.cgi?id=733282

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 7a0c79c8c478b22ee71c1ea35886a6f555ef2bb
Author: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
Date: Tue Sep 2 22:03:14 2014 +0200

os/log: adjust gcc version conditions for #pragma
In commit e67f2d7e0f9189beb2907fa06cffe5ec7f35f22 ("gcc 4.2.1 doesn't support #pragma GCC diagnostic ignored"), some compile time conditionals were added around the #pragma usage. Those conditionals ensure that the #pragma are not used on gcc <= 4.2.

However, the usage of #pragma diagnostic inside functions was only added in gcc 4.6, and a build failure is therefore experienced with gcc 4.5:

log.c: In function 'LogInit':
log.c:199:9: error: #pragma GCC diagnostic not allowed inside functions
log.c:201:9: warning: format not a string literal, argument types not checked
log.c:212:9: error: #pragma GCC diagnostic not allowed inside functions
log.c:214:17: warning: format not a string literal, argument types not checked

$ ./host/usr/bin/powerpc-linux-gnu-gcc -v
[...]
gcc version 4.5.2 (Sourcery G++ Lite 2011.03-38)

This patch therefore adjusts the compile time conditionals to make sure the #pragma is not used on gcc <= 4.5, and only used on gcc >= 4.6.

Signed-off-by: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
Acked-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da4bad620a6f1a58978f5279fda74da3c1c1d443
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Jul 30 13:50:48 2013 +1000

pixmap: fix reverse optimus support with multiple heads

For doing reverse optimus to multiple outputs on a secondary GPU the GPU can store the blits into a large screen pixmap, unfortunately this means we need a destination offset into the dirty code, so add a new API that just adds this interface.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e1cc0d3df1fdb6c4393ac455ca038e1e0680bb22
Author: Maks Naumov <maksqwe1@ukr.net>
Date:   Thu Aug 21 12:58:16 2014 -0700

glx: Fix 'y' value in swrastGetDrawableInfo()
Signed-off-by: Maks Naumov <maksqwe1@ukr.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f92df22a037cb8b672dab2e7af18a22275f5660
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Jul 18 15:08:17 2014 +0100

hw/xwin/glx: Remove an incorrect assertion in glxWinDrawableSwapBuffers

The piglit test glx_make_current triggers this assertion, by making the context
current on a different drawable before issuing a glXSwapBuffers()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b21321e515fc778f87077b7ce47922c43a4ba103
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Jul 14 19:41:25 2014 +0100

hw/xwin/glx: Downgrade "forcing window to exist" message to debug

It happens whenever a GLX client uses GL on a window before it's been mapped, so
don't log it like an error.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 31d089633683ea2a2716651c3c48e1456cc595bf
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jul 16 13:44:33 2014 +0100

hw/xwin/glx: Fix a couple of typo bugs in indirect.c

fbConfigToPixelFormatIndex()’s drawableTypeOverride parameter is a drawable
type bitmask, not a drawable type enum value

WGL_SWAP_COPY_ARB is a value of the WGL_SWAP_METHOD_ARB attribute for
wglChoosePixelFormatARB(), not an attribute itself

also remove duplicate error reporting for wglChoosePixelFormat() and fix a
comment

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b1ea714cdce8444c6ad7778dae04e35c6bcc1750
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
hw/xwin/glx: Update .gitignore

Update to align with rewrite of wrapper generation script in commit 583a1146233f16d861706926706e5feec3a7f13f

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d1d3bd359670a8f55c9350fd905af32ba6e67d33
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Mar 30 20:51:36 2014 +0100

hw/xwin/glx: Don't override the server supported GL extensions string.

Don't override the server supported GL extensions string.

The string reported to the client is the intersection of client, server and GL implementation extensions.

Overriding the server supported GL extensions string like this causes extensions which are supported by the client and implementation, but not by the server, to be erroneously reported, so don't change it.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c99cd058a89bbfc9ceab3e91b93451f70351ddce
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 4 22:37:13 2014 +0000

hw/xwin: Add an idempotency guard to glwindows.h

Add an idempotency guard to glwindows.h

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 1c34e774774eff6c5a22501833444a10440cf3f915a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Nov 11 15:09:18 2013 +0000

hw/xwin: Fix a potential crash in winRedrawScreenShadowDDNL()

Seen during shutdown when using '-fullscreen' and '-depth 8'

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
hw/xwin: Improve choice of display name used by internal clients

Choose the display name used to connect to internal clients and exported into environment of processes started from the traymenu so that it uses a transport we know is working

This should mean the server can start correctly with -multiwindow and/or -clipboard and any two of -nolisten inet6, -nolisten inet and -nolisten unix (the server will correctly refuse to start if all 3 are used, as it must be listening on at least one socket)

v2:
Place prototype for winGetDisplayName() in windisplay.h, and include it where needed.

v3:
Include xwin-config.h, so that _XSERVER64 is defined, just in case anything relies on that.

v4:
Replace grovelling around in the server's list of listeners with new Xtrans TransIsListening() interface, added in Xtrans 1.3.3

See also [1]

[1] https://sourceware.org/bugzilla/show_bug.cgi?id=10725

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 95357539c1178a97d8a167461806a280d2803ec4
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 1 20:34:36 2014 +0000

hw/xwin: Makefile.am cleanup

- Rename XWIN_GLX_LINK_FLAGS -> XWIN_GLX_SYS_LIBS for consistency
- Rename MULTIWINDOW_LIBS -> MULTIWINDOW_SYS_LIBS for consistency
- Don't link with XWin with $(MAIN_LIB), it provides it's own main()
- Put one library per line for more intelligible diffs when one is added
hw/xwin/glx: When generating shims, limit the considered features to GL version <=1.2

This fixes a problem when using Khronos registry data since the change of 2013-08-16 removed glBlend(Color|Equation) from GL1.2 and added them to GL_ARB_imaging.

If shim generation considers all features, no shims are generated for glBlend(Color|Equation) as they are first emitted for GL 1.4 (which we ignore as shims are only generated for GL version <=1.2), then emission for GL_ARB_imaging is skipped as they have already been emitted.

Also improve feature name matching so it is exact, not on an initial substring, so 'GL_ARB_texture_compression_bptc' and 'GL_ARB_texture_compression_rgtc' aren't matched by 'GL_ARB_texture_compression'.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Merge branch 'modesetting-import' into master

This reintroduces a "hardware" driver to the xfree86 directory. Unlike the drivers that xorg used to include in the source tree, that needed independent release schedules to get hardware support out the door, the modesetting driver shouldn't change much as new hardware gets released. A lot of what this driver needs to do is just keep up with server ABI changes.

This import was done by taking xf86-video-modesetting-0.9.0, and running this script with 'git-filter-branch -f --tree-filter ~/bin/modesetting-filter':

mkdir -p hw/xfree86/drivers/modesetting
rm -f README autogen.sh configure.ac Makefile.am .gitignore
rm -f man/Makefile.am
ephyr: set screen size & origin from host X server output's CRTC geometry

If a given output is passed via new -output option, Xephyr will query host X server for its info. If the following conditions are met:

a. RandR extension is enabled in host X server;
   b. supported RandR version in host X server is 1.2 or newer;
   c. the given output name is valid;
   d. the given output is connected;

then Xephyr will get output's CRTC geometry and use it to set its own screen size and origin. It's just like starting Xephyr in fullscreen mode, but restricted to the given output's CRTC geometry (fake "Zaphod mode").

This is the main feature needed for Xephyr-based single-card multiseat setups where we don't have separate screens to start Xephyr in fullscreen mode safely.

Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

ephyr: enable screen window placement following kdrive -screen option extended syntax

With this patch, one can launch Xephyr with option "-screen WxH+X+Y" to place its window origin at (X,Y). This patch relies on a previous one that extends kdrive -screen option syntax to parse +X+Y substring as expected.

If +X+Y is not passed in -screen argument string, let the WM place the window for us, as before.

Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 376f4de8ae927748417046390c24afbda24b0583
Author: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Date: Mon Aug 18 08:45:41 2014 -0300

kdrive: add support to +X+Y syntax in -screen option parsing

This patch enhances current -screen option parsing for kdrive-based applications. It can parse strings like
<WIDTH>x<HEIGHT>+<XOFFSET>+<YOFFSET>, storing X and Y offsets in KdScreenInfo instances.

For negative values, this patch supports +-X-Y (not -X-Y) syntax.

It will allow e.g. proper Xephyr window placement for multiseat purposes.

Signed-off-by: Laércio de Sousa <laerciosousa@sme-mogidascruzes.sp.gov.br>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fe5018e0564118a7a8198fa286186fd9ed818c7
Author: Takashi Iwai <tiwai@suse.de>
Date: Tue Aug 19 15:57:22 2014 -0500

fb: Fix invalid bpp for 24bit depth window

We have a hack in fb layer for a 24bpp screen to use 32bpp images, and
fbCreateWindow() replaces its drawable.bitsPerPixel field appropriately. But, the problem is that it always replaces when 32bpp is passed. If the depth is 32, this results in bpp < depth, which is actually invalid.

Meanwhile, fbCreatePixmap() has a more check and it creates with 24bpp only when the passed depth <= 24 for avoiding such a problem.

This oneliner patch just adds the similar check in fbCreateWindow().
This (hopefully) fixes the long-standing broken graphics mess of cirrus KMS with 24bpp.

Signed-off-by: Takashi Iwai <tiwai@suse.de>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5d133276de9c50146e80ff6c69edd429c2afe98e6
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Feb 13 13:36:12 2014 +0100

xfree86: Allow non-PCI devices as primary
On platforms that don't support PCI or have no GPU attached to the PCI bus, there can still be a primary device on a non-PCI bus.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Tested-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2f018322b4279266e6ef60b923738ff55f0afba
Author: Thierry Reding <treding@nvidia.com>
Date:   Thu Feb 13 13:31:31 2014 +0100

xfree86: Fallback to first platform device as primary

When neither of the various bus implementations was able to find a primary bus and device, fallback to using the platform bus as primary bus and the first platform device as primary device.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Tested-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 33aeec8a11bc75a06d329566bddd9efh216790a02
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jan 30 16:24:35 2014 -0800

dri3: Don't enable the DRI3 extension unless some screen supports it

There's no reason to advertise this extension unless one of the hardware drivers actually supports it. Not listing it means it's slightly easier for users to tell what's going on.

On the other hand, not listing it means we may have applications that only check for the extension and not for appropriate per-screen support. I don't think that's a real risk as DRI3 is only useful for systems with deep knowledge of the hardware.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0d7306ffe2e069f0091c4f174f138127100abb43
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Aug 13 17:10:21 2014 +0900

glamor: Don't call glamor_copy_fbo_cpu() for GLAMOR_DRM_ONLY pixmaps

It results in a crash.
Fix format string.

glamor: Free Xv put image data immediately after use

The Xv StopVideo callback is not invoked on textured video ports, so
the temporary pixmaps allocated for the video planes are never freed.

Freeing the storage immediately after use is a simple solution to this
problem which doesn't appear to have any visible performance impact.

glamor: Don't try to set up core fonts textures when we won't use them.

This happens to avoid GL errors on hardware without
EXT_texture_integer (which implies < GLSL 130, and thus glamor_text.c
programs not compiling anyway).
Merge remote-tracking branch 'jeremyhu/master'

commits 606b701c563c10f01dec147e061fa00cda784a9d
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Wed Aug 6 10:30:25 2014 +0900

glamor: Add glamor_copy_fbo_cpu() for CopyArea to non-GPU destination
This provides a speedup e.g. when the destination is an SHM pixmap.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=76285
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1e30fc1b99bda040038e4fd56d1b27c686b44c75
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 4 10:47:03 2014 +1000

xbt: ignore floating slave devices when updating from master (#81885)

Introduced in 45fb3a934dc0db51584aba37c2f9d73def9191d. When a device is
enabled, the master's locked state is pushed to the slave. If the device is
floating, no master exists and we triggered a NULL-pointer dereference
in XkbPushLockedStateToSlaves.

X.Org Bug 81885 <http://bugs.freedesktop.org/show_bug.cgi?id=81885>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4599a4492ca6a1c87cd9c537c54fba11f13c15c
Author: Daphne Pfister <daphnediane@mac.com>
Date: Wed Jul 23 21:51:57 2014 -0400

os: Regenerate os/oscolor.c from app/rgb #52289

Regenerate os/oscolor.c from rgb.txt. This adds the following
colors: aqua, lime, fuchsia, crimson, indigo, olive, rebecca
purple, silver and teal. It also adds versions of gray, grey,
green, maroon and purple prefixed with web and x11 for the
colors that are different between X11 and HTML/CSS web colors.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=52289
Related: https://bugs.freedesktop.org/show_bug.cgi?id=80371
Signed-off-by: nobody
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ee9f766abf6be0cc36234bfe727aba924e9b5fd
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jul 28 12:09:51 2014 -0700

xfree86: [v2] Remove duplicate InputInfoPtr typedef from xf86Xinput.h

GCC 4.2 doesn't accept 2 typedef declarations of the same type, so
remove the extra one from xf86Xinput.h and have xf86Xinput.h #include
xf86.h to make sure everyone using just that file gets the typedef.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Matthieu Herrb <matthieu@herrb.eu>

commit ab32ee35890be51137b56525826ffe219b63eb88
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Mon Aug 11 13:15:24 2014 -0700

XQuartz: Better support turning off "Displays have separate Spaces" on OS X Mavericks
http://xquartz.macosforge.org/trac/ticket/1876
Follow-up to: 1c10b37380d228h35db8a8616a6312ae54f5e59b

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit dfbc6a1a78f3192baae6f7f2af98b6e51422f75
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Wed Jul 23 11:53:33 2014 -0700

ListenOnOpenFD: Remove Resets since this is intended to be for hotplugging connections
pharris says that the resets should not be done in the hotplugging case.
This may fix a crash reported against XQuartz:
http://xquartz.macosforge.org/trac/ticket/869

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Harris <pharris@opentext.com>

commit 3714f5401690b288045090c4bcd9cb01c6e4860e
Author: Eric Anholt <eric@anholt.net>
Date: Sun Apr 6 07:57:44 2014 +0100
kdrive: Remove a dead struct.
It's never been used in the history of the tree.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ef258fa4fd0e215b1327fb3d94b37e75af9fae6b
Author: Eric Anholt <eric@anholt.net>
Date: Wed Jul 30 21:11:51 2014 -0700

xv: Drop the ClientPtr from the interface to the DDX.

Nobody was using it.

v2: Merge the hunk that was accidentally in the previous commit into this one.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 850b268e2b9e49445a22e041a356d8ff26ae2147
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 10:55:45 2014 +0100

xv: Remove the no-op AllocatePort/FreePort interfaces.

v2: Fix accidentally squashed-in change for dropping client from the arguments, which should have been in the next commit.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com> (v2)

commit 41d4626c6ceb15d5b008dca00c6f5032ddd9556
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 10:35:52 2014 +0100

kdrive: Don't bother explicitly clearing new window privates to NULL.
Privates are initially cleared to zero by dixInitPrivates().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e311318b35ef4f82996c6e277137569005893b44
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 09:11:03 2014 +0100
kdrive: Remove dead KXVPaintRegion().

It's been unused since mach64 was deleted, and now there's a helper in core XV.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7eac142fb6e8abb011ce59fed03ec2d7b04f2b225
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Apr 5 09:09:17 2014 +0100

xv: Fix malloc-failure cases in the fill color key helper.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit ea3f3b0786d58b2ba6a9bb0fa32e734670f54b73
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Apr 5 09:07:18 2014 +0100

xv: Move xf86 XV color key helper to core.

Color key overlay implementations want to reuse this code, and XF86's had bugs (to be fixed in the next commit).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b01cfe5f2376b9c13ed6bd889263d5d7a8a351d
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 22:58:37 2014 +0100

xv: Move CloseScreen setup from a DIX hook to normal wrapping.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6a71ee79aab66b611ca443a49786824a0322313
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 18:02:14 2014 +0100

xv: Drop unused XvdiVideoStopped().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4a095902a37cb98d7954d0873dcef1376cbab54b8
xv: Drop unused XvdiPreemptVideo().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e7dde86f2343832c52ef74f5c4fe44a72054c79b
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 18:01:07 2014 +0100

xv: Move the DDX XV screen private allocation into the DDXes.

XV was going against convention by having the core infrastructure allocate the private on behalf of the DDX. I was interested in this because I was trying to make multiple pieces of DDX be able to allocate adaptors, and that wasn't going to work if DDX-specific code was hung off of a single global screen private.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a146c6d4212ed199002e40419b4aa22da8f49e3a
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 13:12:34 2014 +0100

xv: Drop the ddQueryAdaptors() interface.

The core was passing pointers to pxvs's nAdaptors and pAdaptors, and the two hardware implementations were copying pxvs's nAdaptors and pAdaptors into those pointers.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cb42805c6675bbb9f0b37609fe2ffeec07f46290
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 21:54:26 2013 -0800

xv: Move common code for adaptor cleanup to xvmain.c

Since any DDX XV screen cleanup would need this same code for freeing the tree of pointers for xv adaptors, move it to the dix.

v2: Unconditionalize the pPorts freeing, to match the block above it.

Signed-off-by: Eric Anholt <eric@anholt.net>
xv: Remove dead VIDEO_NO_CLIPPING from the xorg and kdrive DDXes.

As far as I can see, nothing has ever used this flag except possibly the i.mx6 xorg ddx debug during bringup.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

xv: Remove dead VIDEO_INVERT_CLIPLIST from the xorg and kdrive DDXes.

As far as I can see (looking at trees on my disk, plus googling for
the term), nothing has ever used this flag

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

BellProc: Send bell event on core protocol bell when requested

XKB allows to override the BellProc() ringing the 'keyboard bell': instead an event is sent to an X client which can perform an appropriate action.
In most cases this effectively prevents the core protocol bell from ringing: if no BellProc() is set for the device, no attempt is made to ring a bell.
This patch ensures that an XKB bell event is sent also when the core protocol bell is rung end thus an appropriate action can be taken by a client.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
Add `X_BYTE_ORDER` to `xorg-server.h`

Drivers don't get to use `dix-config.h`, they use `xorg-server.h` instead. Add `X_BYTE_ORDER` to that file so drivers can see the value.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit e31564e1a21e73f4d20d6471da4fc7a9b63e4062
Author: Michel Dänzer <michel@daenzer.net>
Date: Thu Jul 31 08:35:13 2014 -0700

Check for `dix-config.h` or `xorg-server.h` before using `X_BYTE_ORDER`

Now that `servermd.h` depends on `X_BYTE_ORDER` being defined in `dix-config.h` or `xorg-server.h`, check to make sure one of those has been included before using the value.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 61afe950e6a1a640ad9c5368549914ea32b90d48
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jul 21 19:27:20 2014 -0700

`xfree86/modes`: rotation damage is automatically destroyed on close

Don't try to destroy `rotation_damage` in the `xf86RotateCloseScreen`; it will have been destroyed when the screen pixmap was destroyed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 40dc81154ad38514793f2181447d597b57d39e80
Author: Keith Packard <keithp@keithp.com>
Date: Sun Jul 20 18:57:42 2014 -0700

`present`: Avoid crash at server shutdown

When a present flip operation is still in process during server reset, the call to `present_set_abort_flip` may not happen until the screen is being closed, at which point there is no root window to set pixmaps for. Check to make sure there's a window before resetting window pixmaps.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 627bce80894647c681b146a709aad4c390b4374e
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jul 20 18:53:52 2014 -0700

    present: Make window MSC offset 0 initially

    The MSC offset used by a window is adjusted as the window moves
between screens, and between shown/unshown. The value shouldn't
matter, but it's helpful for debugging to have window MSC values be
the same as the CRTC MSC at first.

    This patch introduces a unique CRTC value so that Present can detect
the first time a window is a PresentPixmap destination and set the MSC
offset to zero, rather than using the fake MSC value as the previous
window MSC.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

commit bd4198b01f2baf2284e61ea7ebf4600f554800e9
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 18 11:19:01 2014 -0700

    xfree86: Avoid compiler warning for unused vars without systemd

    When systemd isn't being used, systemd_logind_release_fd is defined
as an empty macro, leaving the arguments unused. Fix the compiler
warnings by simply removing the local variables and referencing the
structure within the macro call.

    Signed-off-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Eric Anholt <eric@anholt.net>

commit b063a185ab9d2c54669fb6e036fdbae3707c9e4b
Author: David Ung <davidu@nvidia.com>
Date:   Tue Jul 29 15:01:39 2014 -0700

    randr: Fix logic in RRPointerToNearestCrtc

    RRPointerToNearestCrtc is suppose to snap to the nearest Crtc,
but best_x and best_y is always positive, hence when calling
SetCursorPosition it will make the cursor even further away.
Correct delta x/y to allow negative values and also use
"width/height -1" in the calculation. Also choose the closest
Crtc by setting the "best" value.

    Signed-off-by: David Ung <davidu@nvidia.com>
Fix files including xorg-server.h by mistake

A few files in the server are including xorg-server.h, which is only for use by Xorg server drivers. This fixes those errors and then adds a check to make sure it doesn't happen again.

commit a08e7a098aa37351294a25fe62b7ff6e95622e64
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 24 14:21:57 2014 -0400

dri1: Remove unused DRI{,Post}ValidateTree

i810, mga, savage, and tdfx do reference these slots, but only to set them to NULL, so while this does have API impact it's not actually used.

commit 5486c834fa3eebd79a4811143e513d6a92b7e504
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 24 14:16:55 2014 -0400

xquartz: Remove unused DRI{,Post}ValidateTree

Cargo-culted from DRI1, not actually used for anything.

commit a5e7701058c676231d2bc3f9a0c7c0f0a9da7ad45
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 28 14:48:14 2014 -0400

xkb: Remove some fascinating paranoia from event emission

XkbInterestPtrs are created by clients that already exist, meaning, clients that have already had ProcVector installed as something other
than InitialProcVector.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ac3af4bd21394291ef6dd9cfced8ce6fccc40
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 17 12:58:41 2014 -0400

xfree86: Remove unused HardEdges

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4100687ea667970733c3aa69f704be0e3747f9fd
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 23 15:42:23 2014 -0400

xfree86: Remove useless #include "fb.h"

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2d451c5cdec7f81ea0c94c3542fab45027f829736
Author: Adam Jackson <ajax@redhat.com>
Date: Thu May 22 14:04:16 2014 -0400

xfree86: Remove pointless xf86RandRCreateScreenResources

Given the #if 0 this was wrapping for no effect.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a8cca7bd5ad7e36a9585f4927ed53cfa6db1daf
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 11:43:14 2014 -0400

xfree86: Remove protectMem from VidMemInfo

Never filled in.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e4c1e58f5745dd39a9dd5eb29cad1cb28710094
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 11:11:14 2014 -0400
xfree86: Remove unused xf86[Map,Unmap]LegacyIO

I ported these to pciaccess in:

commit 858fbbb40d7c69540cd1f5315cebf811c6e7b3f
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 16 13:33:04 2011 -0400

pci: Port xf86MapLegacyIO to pciaccess

As of yet there are still no drivers using them, and there's not a lot
of value in having the wrappers when they just trivially call pciaccess

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 96206cf47752af3efc8ca14dc1b03e59ed482167f
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 8 13:19:08 2014 -0400

xfree86: Remove deprecated PCI types

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 46fd5a28ef7191b5ad0244f849c756dd2c5f43b6
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 2 11:09:53 2014 -0400

xfree86: Remove some unused pre-pciaccess types

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3bb9f9862b5bea3720ba7922714af729cab38776
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 28 13:31:08 2014 -0500

xfree86: Remove xf86ConfigActivePciEntity

The giant OBSOLETE DO NOT USE comment has been there since 2000,
probably it's safe to nuke by now.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
vgahw: Nuke unused vgaCmap.c

Never been built since m12n, can't be needed.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2db71b232c4756773562182c4db7cddf5194a62d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 10 13:00:11 2014 -0400

saver: Don't open-code IsMapInstalled

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dd0e8491f75afbd72bea17172a042aa45f7e30b
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 20 12:36:10 2014 -0400

render: Remove unused CopyPicture

Arguably this would be useful API, but it's never called, and a careful
reading of the CPClipMask path reveals that callers would be fairly
disappointed.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 578026fcd58d12dd0be4c0976ee5ecf95a9d61f0
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 20 12:43:59 2014 -0400

os: Remove LocalClientCred

The comment lies, shm hasn't used this code since:

commit fdef7be5c8d5989e0aa453d0a5b86d0a6952e960
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Oct 9 18:44:04 2007 -0700

Sun bug 6589829: include zoneid of shm segment in access [...]
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cad9b053d52f62432dfd70e42e0240de77027cae
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 8 13:24:25 2014 -0400

os: Remove deprecated malloc/free wrappers

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d5b279977236c4f80a8ba81db1f81a314484facf
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 22 13:58:45 2014 -0400

miext/shadow: Remove shadowInit

This code is nonsensical. You end up creating a screen-sized pixmap
that's totally detached from everything else, which you then listen for
damage on, which means you'll never hear any damage, which means your
shadow update hooks will never get called. Any driver using this would
be sorely disappointed.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cf4793d99ecee4dfdf6094e02b1cc8e89eb744d313
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 28 15:36:31 2014 -0500

miext/shadow: Remove ancient backwards-compatibility hack

Here's a trip down memory lane. Back when we merged kdrive we adopted
kdrive's version of shadow, which used damage directly instead of
hand-rolling it. However a couple of Xorg drivers referred to the
accumulated damage region in the shadow private directly, so I added a
hack to copy the damage region around.

That was 9148d8700b7c5afac2644e5820c57c509378f93ce, back in early 2006.
Eight years is unusually patient for me. The neomagic and trident drivers
were still relying on this, but they've been modified to ask the damage
code for the region instead.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 35eabf2e5272e17e6765027d4baea43b34c66933
Author: Adam Jackson <ajax@redhat.com>
mi: Remove apparently unused miSegregateChildren

This came in between XFree86 4.3 and 4.4, I'm not entirely sure what it was meant to do.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 150acef3af9bb43cb60cbcc558ef3ad4a710e624
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon May 19 13:46:12 2014 -0400

kdrive: Remove some dead bits of the man page

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 71ef49062ee33ac49033fbcd67bab88120882668
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 28 14:05:25 2014 -0500

dix: Make some LBX-era code more obvious

isItTimeToYield in the conditional effectively didn't do anything here.
Take it out, and remove the comment since LBX proxies aren't a thing for us anymore.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a317e0a974c1597d55fe05a38b4a495c4e4e8d71
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 2 11:50:17 2014 -0400

bsd: Remove some reference arm code behind #if 0

git history is reference enough, thanks.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8a60d1c3f4a62675cad005107f56413f946ecd77
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 28 11:10:15 2014 -0700

glamor: Eliminate diagonal tearing in xv
This uses a single large triangle and a scissor to draw the video instead of two triangles.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 29ea61cb210e0c67004bc567af0c15d48aad626
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 11:05:32 2014 -0400

mi: Remove semi-arbitrary arch awareness in packed coordinate macros

The majority of arches end up on the right-shift path here. I can't think of any arch where that'd be slower than a divide, and semantically it makes more sense to think of this as a shift operation anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6ddd164508f81e9582b66061b385bd34ac1ccbb7e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:13 2014 -0400

xfree86: Unify the ppc/sparc mmio-swap-or-not conditionals

Map SPARC_MMIO_IS_BE and PPC_MMIO_IS_BE to MMIO_IS_BE and use the same macros for both since they're identical.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8ff1d1c066ab1e993d8964aeff12a7c585329c677c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:12 2014 -0400

xfree86: Clean up some silly __sparc macro usage

The top of this file already defines __sparc if __sparc is defined.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1c1711b57f2c278c0df03bf9e7e9a1776a546968
Author: Adam Jackson <ajax@redhat.com>

---
Date: Tue Jul 22 10:59:11 2014 -0400

xfree86: Pull generic barrier() definition up to top level

And remove the redundant redecl from the nds32 section.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c73929bbfc14ba80397c53ca98d3b503e807ae78
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 22 10:59:10 2014 -0400

xfree86: Remove MMIO_ONB* and friends

Non-barrier-emitting MMIO writes. They appear to be utterly unused, burn it all down.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9b33e31d4160dc484ee569740f883f4d34e10653
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 22 10:59:09 2014 -0400

xfree86: Clean up powerpc barrier decls

I think the externs are there for the non-gcc case? And maybe there was some assembly code to implement that once? Whatever, at this point on ppc the compiler is either gcc or willing to pretend. The macros below the decls take care of the actual eieio so the externs can just go.

Also remove a comment that maybe made sense once upon a time.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b5141a1fab4d45c1af62db8dc712deb9776668a9
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 22 10:59:08 2014 -0400

xfree86: Simplify a bunch of OS and arch conditionals

All of this is inside #ifdef __GNUC__, between that and configure.ac we can assume there's a unixy thing under us. Given that there's no real
reason to limit the arch paths to particular OSes, so let's not.

The final #elif here, combined with the ones before it, effectively said
"if not (alpha amd64 sparc* mips* ppc* arm* nds32 m68k sh hppa s390 m32r)",
and as the comment above it hints, it's meant to cover i386 (and happens to
also cover i866). Flip the conditional around to be sensible.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6d3ba80f197b04b6e0814190cf5c678c786c14d6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:07 2014 -0400

xfree86: Remove pre-2.6 Linux ppc support

2.6.0 was December 2003, you've had plenty of time to get your head in
the game.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e242e82eba17414603c8806ffe9ecd235eebabb
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:06 2014 -0400

xfree86: Remove a useless !__SUNPRO_C guard

You can't tell from context here, but this is all inside #ifdef
__GNUC__, so this conditional can't do squat.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 93745a6c1afec830759219f8632ec565d83c7bc12
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:05 2014 -0400

xfree86: Undef GCCUSESGAS

Can't be needed, we've never defined it in modular xserver.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
xfree86: Remove an unlikely bit of #pragma

__USLC__ appears to mean the SCO OpenServer compiler, which configure.ac doesn't think is an OS the xfree86 ddx supports. The conditionals surrounding these pragmas effectively mean "if not gcc and not Sun C", and probably arbitrary pragmas aren't supported by arbitrary compilers.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: Undef __HIGHC__

MetaWare High C++ compiler? xfree86 cvs history shows this being added in a commit whose text is, classically, "updates". metaware.com redirects to a 404 on synopsys.com, which to me indicates it's not super important to them, and their order form won't even tell you how much the thing costs. At any rate if this is worth worrying about it's worth letting autoconf worry about for us.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: Undef FAKEIT

I guess this is meant to stub out all I/O port calls? Whatever, it's not been defined by the buildsystem at least as far back as monolith 6.8.2.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
xfree86: Remove a few random ppc decls

Whatever these are, they're not something grep can find, they must not be used.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5f5af5d692b625f6231c8bca3ac801f2ac75717
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:59:00 2014 -0400

xfree86: Remove remaining unused unaligned accessors

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d28b788e11182d134bce5a414359841b37b62ac0
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:58:59 2014 -0400

xfree86: Move generic unaligned helpers into int10 code

This is the only place they're actually used (well, aside from some XAA code in the s3 driver, but one s3 and 2 XAA).

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 956a8d5e92a66ddd8d00e63a95b17cfd376fe424
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:58:58 2014 -0400

xfree86: Remove unused unaligned int64 helpers

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da2b2671863655776d60102ddc7af61470d14022
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:58:57 2014 -0400
xfree86: Unspecialize gcc variants of unaligned memory access

Yes yes, very clever, memmove works fine on gcc too, let's just do the portable thing since none of this is performance code.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits f63b8e44ab278dd65be93146790bf150717fe1c8
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 22 10:58:55 2014 -0400

xfree86: Undefine NO_INLINE

Nothing in the server defines this, nor do any drivers.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits 1100935650cc0032709d095d65a5f136bec99b9
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 22 10:58:54 2014 -0400

xfree86: Remove MMIO_MOVE32

Only used by mach64's XAA code, which isn't built if XAA isn't available, and it isn't.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: Remove nds32_flush_icache

I guess this might have been needed for elfloader, except we didn't support nds32 back then, so I assume this was cargo-culted from ppc_flush_icache, which is also dead now.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit eb76228080da6fb28c34c903a9854aebe157d2c7  
Author: Adam Jackson <ajax@redhat.com>  
Date:   Tue Jul 22 10:58:53 2014 -0400  

xfree86: Remove #include "compiler.h" from places that don't need it  

Reviewed-by: Julien Cristau <jcristau@debian.org>  
Signed-off-by: Adam Jackson <ajax@redhat.com>  
Signed-off-by: Keith Packard <keithp@keithp.com>  

commit 4afedf545b673282f2e214c0e2c759c9be9b9a2a  
Author: Ross Burton <ross.burton@intel.com>  
Date:   Wed Jul 9 11:33:23 2014 +0100  

configure.ac: add option for xshmfence  

xshmfence is usable outside of DRI3, and is currently autodetected which isn't good for distributions where deterministic builds are desired.  

Signed-off-by: Ross Burton <ross.burton@intel.com>  
Reviewed-by: Matt Turner <mattst88@gmail.com>  
Signed-off-by: Keith Packard <keithp@keithp.com>  

commit 2172714c67d8701aa54c202e89f246f1dddac80a  
Author: Carlos Garnacho <carlosg@gnome.org>  
Date:   Tue Jul 22 17:55:25 2014 +0200  

xwayland: Only disable/enable devices on capabilities change  

Anytime a capability is first reported, the device is created, but after that, it is only disabled/enabled.  

This is a closer behavior to what Xorg does on VT switch, at the expense of maybe leaving a dangling "physical" device if a capability goes for good. Otherwise, any DeviceIntPtr (re)created after server initialization will be left floating, and bad things happen when the wayland enter event handler tries to update cursor position based on a floating device.  

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>  
Reviewed-by: Daniel Stone <daniel@fooishbar.org>  
Signed-off-by: Keith Packard <keithp@keithp.com>  

commit 556cdf8fe870bc23e0393c0eed15c86f49a0b9f8  
Merge: 83701e4ee8 1faa766705  
Author: Keith Packard <keithp@keithp.com>  
Date:   Thu Jul 24 16:51:00 2014 -0700
Merge remote-tracking branch 'jeremyhu/master'

commit 83701c4ee8f79f69f4286ef262cd3ae3922629b9
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 21 10:21:07 2014 -0400

xfree86: Remove i2c multimedia modules

These came in with the GATOS merge I think. The only driver using them
was radeon, and then only in UMS mode. The radeon driver dropped UMS
support from the main branch about two years ago, the UMS branch hasn't
been touched in about fifteen months, and does not build against 1.16 in
any case, so this is all dead code.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4302484ef2e67b2e05756c7ee0834dce938f1b44
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 21 10:06:53 2014 -0400

dix: Remove arch awareness from servermd.h (v2)

At this point we have no architectures where image byte order is
different from bitmap bit order, or where either of those two are not
also the native word endianness. Hooray, one more place where we don't
have to worry about enabling new CPU architectures.

v2: Rebase to master to handle the addition of ppc64le, arc, and xtensa,
and use autoconf'sendianness detection instead of gcc predefines.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 860cd209679a2e56460977882b3826ddec8710
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 21 10:06:52 2014 -0400

dix: Remove a weird case of little-endian s390

I really don't think this was ever correct, but I'm also not sure what
non-Linux Unix this was meant to enable. The only one I know of was
OS/390 / z/OS / OpenEdition, but I think that was big-endian too.

At any rate this is all about to go away, so this is just removing an
edge case.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f593d76e76a645e29af5dd457ad1fd5a30736cc
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:51 2014 -0400

dix: Remove wacky sparc special casing (v2)

This appears to be defining sparc if ever __sparc or __sparc__ were
defined, which is almost reasonable, but these days we want to be using
the __arch__ style. Why any of this would ever be triggered on m68k is
truly a mystery for the ages.

v2: Fix commit message, as noted by nix

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 17c3347f14822b9f7da4253c71f6ed51be2b38d1
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:50 2014 -0400

dix: Default GLYPHPADBYTES to 4

This effectively no longer varied across architectures anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 094b76735cb99b9f26e21f32170614454c644653
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:49 2014 -0400

dix: Remove some cfb leftovers

These macros meant something in cfb, but not in fb.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fee9a1536651ace9324b956df809ef22a63938f8
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:48 2014 -0400

dix: Remove some dead macros

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 634aa310c5130ef4d38f339bb26b01b5a7bad4e9
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:47 2014 -0400

dix: (Don't) change BITMAP_SCANLINE_UNIT on Linux s390{, x}

Every other architecture sets this to 32, and I can't think of any benefit s390 would derive from changing it. It is, at any rate, something the client already copes with, and the only internal code impact seems to be some complicated math in miGetPlane, which you never hit if you're using fb.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f6469f1910c72add358b7263d69bd116b4450ece
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:46 2014 -0400

dix: Remove some XFree86 3.x leftovers

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5aaacb501f26bad391664cc7367bfe5164f72c7
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 21 10:06:45 2014 -0400

dix: Remove an ancient IBM configuration

Whatever unix this was meant to be is either no longer in circulation, or is AIX, which we don't claim to support anyway.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 06268a0c55b7ce2737bd331a39f11ccef07efa8bfa3
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Sat Jul 19 09:59:07 2014 -0700

xfree86: Remove stale /usr/share/X11/xorg.conf.d hard-code from the xorg.conf man page

I forgot that the old behavior of searching in /usr/share/X11/xorg.conf.d was documented in the man page.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Fixes: acc0b5edd1dc ("xfree86: Only support one sysconfigdir")
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1faa76670572e3478965f2cd9ab60ab2d865e3a
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat Jul 19 17:08:09 2014 -0700

mieq: Fix a crash regression in mieqProcessDeviceEvent

(lldb) bt
* thread #6: tid = 0x92d4eb, 0x00000001001dee94
X11.bin`mieqProcessDeviceEvent(dev=0x0000000000000000, event=0x000000100298bb0, screen=0x0000000000000000) + 36 at mieq.c:519, stop reason = EXC_BAD_ACCESS (code=1, address=0x44)
* frame #0: 0x00000001001dee94 X11.bin`mieqProcessDeviceEvent(dev=0x0000000000000000, event=0x000000100298bb0, screen=0x0000000000000000) + 36 at mieq.c:519
  frame #1: 0x000000001001df3eb X11.bin`mieqProcessInputEvents + 555 at mieq.c:631
  frame #2: 0x0000000010017674 X11.bin`ProcessInputEvents + 20 at darwinEvents.c:422
  frame #3: 0x00000000100175eaa X11.bin`Dispatch + 154 at dispatch.c:357
  frame #4: 0x00000000100181b4a X11.bin`dix_main(argc=4, argv=0x00007fff5fbff750, envp=0x0000000000000000) + 1594 at main.c:296
  frame #5: 0x000000001001ba80 X11.bin`server_thread(arg=0x0000000101208220) + 64 at quartzStartup.c:66
  frame #6: 0x000007ff89bb9899 libsystem_pthread.dylib`_pthread_body + 138
  frame #7: 0x000007ff89bb972a libsystem_pthread.dylib`_pthread_start + 137
  frame #8: 0x000007ff89bdfc9 libsystem_pthread.dylib`thread_start + 13
Regression from: 9fb08310b51b46736f3ca8dbc04efdf502420403

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cff12936275db2f71f6d24f9ea0985a0d14af454
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jul 18 21:46:23 2014 -0700

glamor: sync_fence_set_triggered should use glFlush, not glFinish
I intended to use glFlush all along, but somehow managed to type glFinish instead. glFlush is sufficient (for a single-queue GPU) to ensure serialization between queued rendering in the X server and future rendering from the client.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit cfa302d6224d10860e60491333950544c4fb9b04
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 18 11:16:27 2014 -0700

glamor: Add support for SHM sync fences

This hooks up SHM sync fences to complete the requirements for DRI3 running on Glamor.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ac3acab1311c47cc73e2681e575f0407284c3c66
Author: Colin Walters <walters@verbum.org>
Date:   Fri Jul 18 09:13:54 2014 -0400

xf86platformBus: Add assertion to avoid (fatal) compiler warning

Compilation of -video-intel started failing in gnome-continuous, it's because xserver has -Werror=return-type on, and gcc can't prove this function always returns a value:

/usr/include/xorg/xf86platformBus.h:119:1: error: control reaches end of non-void function [-Werror=return-type]

Let's add assertions to the accessor functions to fix this.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5c2e9fa3d6c4bf6262fedeced866056ba8eca502
Merge: e678b4971b 6d49548849
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 17 20:06:21 2014 -0700

Merge remote-tracking branch 'anholt/glamor-next'

commit 6d4954884908ea9894cfe9836db1ba7b45be61
Merge: 9ddcb20f47 55f5bb578
Author: Eric Anholt <eric@anholt.net>
Merge remote-tracking branch 'origin/master' into glamor-next

I've done this merge manually to resolve the minor conflict in glamor.c.

Signed-off-by: Eric Anholt <eric@anholt.net>

It's unused since keithp's copy acceleration code completely replaced glamor_copyarea.c and removed the blit path.

Reviewed-by: Keith Packard <keithp@keithp.com>

The corresponding code was deleted in 2ff41008494e6c5909c058f1f80b4f66617dada1 (2012)

Unused since the glamor_prepare.c replacement of glamor_finish_access().

Signed-off-by: Eric Anholt <eric@anholt.net>

Reviewed-by: Keith Packard <keithp@keithp.com>

glamor: Drop the "are we doing a series of blits or draws" logic.

Signed-off-by: Eric Anholt <eric@anholt.net>

Reviewed-by: Keith Packard <keithp@keithp.com>

glamor: Drop dead prototype.

Reviewed-by: Keith Packard <keithp@keithp.com>

glamor: Drop dead glamor_download_pixmap_to_cpu()
glamor: Drop dead get/pub sub pixmap functions.

These were replaced by the new glamor_prepare.c code.

glamor: Remove always-true yInverted flag.

All users of glamor had the same value set, and it complicated things
for no reason.

glamor: Drop constant arguments to glamor_solid().

After keithp's change to drop the old glamor_fill() code, nothing ever
changed these values.

glamor: Drop unnecessary glTexParameteri() in upload of texture data.

We're not drawing, and we're not initially setting up the texture for
later drawing.
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1140a89d7762540965ff865d154cb0528049066f
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 2 12:12:06 2014 -0700

glamor: Use MIN/MAX macros to clean up glamor_transfer.c

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2ab01ba9df695f19f0b43321d01395736f865c69
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 2 13:41:09 2014 -0700

glamor: Drop unnecessary glTexParameteri() in SetSpans().

    If this path needed the filters set, so would all the other
    glDrawArrays() callers. But they don't.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e678b4971b666e65a99c141e0a5f33969aa701b7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 15 17:31:59 2014 -0700

    xfree86: Provide backward-compatibilty API for OdevAttributes

    This allows drivers to compile using the old OdevAttributes API
    against a new server. It generates compiler errors if the caller uses
    the wrong or undefined attribute types, or if the caller provides an
    incorrect default value for an integer attribute.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 60c05ce1ab5d9dc7c034b6b3723f43a42ea637d8
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 15 17:31:58 2014 -0700

    config: Replace OdevAttributes linked list with struct

    OdevAttributes are a fixed set of values with known types; instead of
    storing them in a linked list and requiring accessor/settor functions,
    replace the list header, struct OdevAttributes, with a struct that
    directly contains the values. This provides for compile-time
typechecking of the values, eliminates a significant amount of code and generally simplifies using this datatype.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 55f5bfb578e934319d1308cbb56e900c5ac7cfa7
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jul 16 16:03:23 2014 -0700

glamor: Fix temp picture coordinates in glamor_composite_clipped_region

To understand this patch, let's start at the protocol interface where the relationship between the coordinate spaces is documented:

static Bool
_glamor_composite(CARD8 op,
   PicturePtr source,
   PicturePtr mask,
   PicturePtr dest,
   INT16 x_source,
   INT16 y_source,
   INT16 x_mask,
   INT16 y_mask,
   INT16 x_dest, INT16 y_dest,
   CARD16 width, CARD16 height, Bool fallback)

The coordinates are passed to this function directly off the wire and are all relative to their respective drawables. For Windows, this means that they are relative to the upper left corner of the window, in whatever pixmap that window is getting drawn to.

_glamor_composite calls miComputeCompositeRegion to construct a clipped region to actually render to. In reality, miComputeCompositeRegion clips only to the destination these days; source clip region based clipping would have to respect the transform, which isn't really possible. The returned region is relative to the screen in which dest lives; offset by dest->drawable.x and dest->drawable.y.

What is important to realize here is that, because of clipping, the composite region may not have the same position within the destination drawable as x_dest, y_dest. The protocol coordinates now exist solely to 'pin' the three objects together.

extent->x1,y1 Screen origin of clipped operation
width,height Extents of the clipped operation
x_dest,y_dest Unclipped destination-relative operation coordinate
x_source,y_source Unclipped source-relative operation coordinate
x_mask, y_mask           Unclipped mask-relative operation coordinate

One thing we want to know is what the offset is from the original operation origin to the clipped origin

Destination drawable relative coordinates of the clipped operation:

\[ x_{\text{dest clipped}} = \text{extents->x1} - \text{dest->drawable.x} \]
\[ y_{\text{dest clipped}} = \text{extents->y1} - \text{dest->drawable.y} \]

Offset from the original operation origin:

\[ x_{\text{off clipped}} = x_{\text{dest clipped}} - x_{\text{dest}} \]
\[ y_{\text{off clipped}} = y_{\text{dest clipped}} - y_{\text{dest}} \]

Source drawable relative coordinates of the clipped operation:

\[ x_{\text{source clipped}} = x_{\text{source}} + x_{\text{off clipped}}; \]
\[ y_{\text{source clipped}} = y_{\text{source}} + y_{\text{off clipped}}; \]

Mask drawable relative coordinates of the clipped operation:

\[ x_{\text{mask clipped}} = x_{\text{source}} + x_{\text{off clipped}}; \]
\[ y_{\text{mask clipped}} = y_{\text{source}} + y_{\text{off clipped}}; \]

This is where the original code fails -- it doesn't subtract the destination drawable location when computing the distance that the operation has been moved by clipping. Here's what it does when constructing a temporary source picture:

```c
temp_src =
    glamor_convert_gradient_picture(screen, source,
        extent->x1 + x_source - x_dest,
        extent->y1 + y_source - y_dest,
        width, height);
...

x_temp_src = -extent->x1 + x_dest;
y_temp_src = -extent->y1 + y_dest;
```

glamor_convert_gradient_picture needs source drawable relative coordinates, but that is not what it's getting; it's getting screen-relative coordinates for the destination, adjusted by the distance between the provided source and destination operation coordinates. We want \( x_{\text{source clipped}} \) and \( y_{\text{source clipped}} \):

\[ x_{\text{source clipped}} = x_{\text{source}} + x_{\text{off clipped}} \]
\[ = x_{\text{source}} + x_{\text{dest clipped}} - x_{\text{dest}} \]
\[ = x_{\text{source}} + \text{extents->x1} - \text{dest->drawable.x} - x_{\text{dest}} \]
x_temp_src/y_temp_src are supposed to be the coordinates of the original operation translated to the temporary picture:

\[
x_{\text{temp\_src}} = x_{\text{source}} - x_{\text{source\_clipped}};
\]
\[
y_{\text{temp\_src}} = y_{\text{source}} - y_{\text{source\_clipped}};
\]

Note that x_source_clipped/y_source_clipped will never be less than x_source/y_source because all we're doing is clipping. This means that x_temp_src/y_temp_src will always be non-positive; the original source coordinate can never be strictly *inside* the temporary image or we could have made the temporary image smaller.

\[
x_{\text{temp\_src}} = x_{\text{source}} - x_{\text{source\_clipped}}
= x_{\text{source}} - (x_{\text{source}} + x_{\text{off\_clipped}})
= -x_{\text{off\_clipped}}
= x_{\text{dest}} - x_{\text{dest\_clipped}}
= x_{\text{dest}} - (\text{extent}->\text{x1} - \text{dest}->\text{drawable}.x)
\]

Again, this is off by the destination origin within the screen coordinate space.

The code should look like:

```
temp_src =
  glamor_convert_gradient_picture(screen, source, 
  extent->\text{x1} + x_{\text{source}} - x_{\text{dest}} - \text{dest}->\text{drawable}.x, 
  extent->\text{y1} + y_{\text{source}} - y_{\text{dest}} - \text{dest}->\text{drawable}.y, width, height);
```

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 16fbad3c7a22d2fb33549bcd422de985a60982b8
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 17 16:17:53 2014 -0700

Post 1.16 version bump to 1.16.99.1

And we're off towards 1.17; this version bump serves to keep development versions distinct from stable versions.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit bfa5c73a36230f77fb211f185152212541ec9d56d
ephyr: Free damage structure at server reset time

The usual mechanism for freeing a damage structure when the pixmap is destroyed does not work for the screen pixmap as it isn't freed in the normal way.

The existing driver cleanup function, scrfini, is called after the wrapped CloseScreen functions, including damageCloseScreen, are called and thus ephyr can't free the damage structure at that point.

Deal with this by providing an early CloseScreen hook in KdCloseScreen which ephyr can use to free the damage structure before damage itself shuts down.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 3319e7041ff89bb01b16a1dbbac85e28b1976ae3
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 14:24:29 2014 -0700

hw/xfree86: Let xf86Rotate leave the BlockHandler unwrapped when possible

When no shadow frame buffer is needed, the rotate block handler doesn't need to be called any more. Remove it from the chain.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 79a2733005202af43821d8fd8e4e9fb77bf8f69e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 14:11:17 2014 -0700

hw/xfree86: Fix VGA arbiter screen proc wrapping

Change the screen proc epilog code to re-fetch the current screen function in case a nested proc changes how things work. This isn't a problem with the current code as all of the wrapping layers that are set up at server init time (like the VGA arbiter) leave themselves in the screen proc chain forever. But, this makes the code conform with the expected norms.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
mi: Fix block handler wrapping in miSprite

miSpriteBlockHandler was leaving the BlockHandler wrapped until just before calling any nested block handler. If any code executed before that added or removed block handlers, the wrapping chain would have been broken.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

hw/xfree86: Fix block handler wrapping in xf86Rotate

xf86Rotate, it was delaying unwrapping the BlockHandler until after calling xf86RotateRedisplay. If there was a software cursor on the screen, the redisplay operation would cause cursor to be removed from the frame buffer and the misprite block handler to be inserted into the block handler chain with the misprite screen private saved block handler now set to xf86RotateBlockHandler.

When xf86RotateRedisplay returned, xf86RotateBlockHandler would then set screen->BlockHandler to its saved value, call down and then reset screen->BlockHandler to xf86RotateBlockHandler. miSpriteBlockHandler would never be called after that, which meant that the software cursor will now disappear from the screen whenever rendering overlapped and would only reappear when the cursor was moved.

To correct this, all that is needed is to move the restoration of screen->BlockHandler to the top of xf86RotateBlockHandler, before the call to xf86RotateRedisplay.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

Document how to correctly wrap screen procedures

This adds a large comment to include/scrnintstr.h which should serve
to document the correct way to wrap any screen procedure, with a particular focus on how to dynamically add/remove wrapping layers while the server is running.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commits 5eb77697ea35e7de8cb8af2c3b5d8fd80fb632
Author: Peter Harris <pharris@opentext.com>
Date: Mon Mar 10 18:31:33 2014 -0400

Avoid starting a comment with */*

Even though -Wcomment doesn't mind it (in gcc or clang), the appearance of */* confuses the syntax highlighter of some editors (eg. vim), and causes warnings in MSVC.

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits 8b36e1ec8dd9f53e9f4e10422c2100844e9e549c
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 17 00:03:33 2014 -0700

Update to version 1.16.0

Signed-off-by: Keith Packard <keithp@keithp.com>

commits 4dbb641bb2d4037f107b58b31e80963dc8b72c0e
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Jul 14 14:01:47 2014 +0200

config_odev_add_attribute*: Check for right attribute type

Don't allow setting string attributes to integers and vice versa.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits 25eca7ce35973577c8d85704c270f7fb53e6732e
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Jul 14 14:01:46 2014 +0200

Fix ODEV_ATTRIB_DRIVER overlapping with ODEV_ATTRIB_FD

Looks like the value of ODEV_ATTRIB_DRIVER was not updated when the patch
adding it got rebased on top of a newer server version.

This fixes the xserver crashing when systemd-logind integration is used.

https://bugzilla.redhat.com/show_bug.cgi?id=1118540

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9a19bf06b5b409fa0d5b5932e29cd4c5545052c5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 14 15:05:58 2014 +1000

Revert "dix: fix up coordinate scaling when external monitors are present"

This reverts commit d90b5f83010248be65b2039b0b2d0b9e6a4e93cf.

Reverting for two reasons:
* the scaling does not work on devices that don't advertise resolution, and
  the default resolution used (100 units/mm) is higher than most devices,
  resulting in a significant slowdown of the touchpads.
* the scaling is still affected by resolution changing. The patch worked
  before acceleration but since it maps into resolution-dependent dx/dy
  coordinates the acceleration may distort the movement after the fact. So the
  same input data generates different movements depending on the resolution.
  This can't easily be fixed for all affected devices as synaptics has its own
  velocity calculation method whereas wacom doesn't. So anything in the server
  won't work for both at the same time.

Revert this for now, until a more integrated solution can be implemented.

commit acc0b5edd1dc560b5c39dc44872b46581ec23903
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Jul 11 15:56:35 2014 -0700

xfree86: Only support one sysconfigdir

When the X server is compiled with --prefix set to something other than /usr,
then it ends up with a nonstandard sysconfigdir in its .pc file. This causes
various other components to install their xorg.conf.d snippets there.

However, the X server first looks for /usr/share/X11/xorg.conf.d before looking
in sysconfigdir. That means that if the system administrator installed anything
that created that path, the user's custom sysconfigdir is not searched.

Rather than doing that, just look in the configured sysconfdir and nowhere else.
xfree86: don't force the screensaver off on DPMS unblank, merely suggest it

Commit 41d4beb2616c43f1a1b8694733e85bae70de59a added symmetry to the screensaver/DPMS invocations so that one (en|dis)ables the other. Having dependencies between DPMS and the screensaver is subject to further arguments, but in this particular case using SCREENSAVER_FORCER is detrimental. SCREENSAVER_FORCER(ScreenSaverReset) resets the idle time for all devices on DPMS unblank.

It prevents at least one use-case that GNOME tries to implement: GNOME displays a notification before suspending. If the display is currently blanked, GNOME lights it up to display the message. With the original patch in place DPMS unblank also resets the device idle times, thus restarting the timeout ad infinitum.

Switch this to a more suggestive SCREENSAVER_OFF(ScreenSaverReset). This keeps the symmetry in blanking mode (DPMS and screensaver turn each other on/off as expected) but does not reset the idle time on the devices.

https://bugzilla.gnome.org/show_bug.cgi?id=731241

os: prevent negative array index access (#80890)

If an empty string is provided to LogMessageVerbSigSafe, the length of the printed string is 0.

Read-only access only and the only effect it had was adding a linebreak or not.

X.Org Bug 80890 <http://bugs.freedesktop.org/show_bug.cgi?id=80890>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 9de3cc8d8ca4e6877d30a0e8ccfe0cc159f1db63
Merge: 9308eafab7d a5499870e2
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jul 7 16:53:07 2014 -0700

Merge remote-tracking branch 'jturney/master'

commit 9308eafab7d303739b81634ed2ee0da88554fd429
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jul 7 16:28:26 2014 -0700

Update to version 1.15.99.904

One more RC to get the non-PCI patches tested before release

Signed-off-by: Keith Packard <keithp@keithp.com>

commit b6cc489838dca0bcecc7e9dbb4663b871e8cb7bc8
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Feb 13 21:09:49 2014 +0100

xfree86: Make error message more readable

While at it also replace a tab by four spaces for consistency.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-By: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Tested-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit eeeefec9d88920d4dca4100a84a135f7f53dd82
Author: Thierry Reding <treding@nvidia.com>
Date: Thu Feb 13 13:54:23 2014 +0100

xfree86: Support driver loading via OutputClass

Use the OutputClass configuration to determine what drivers to autoload
for a given device.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-By: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Tested-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
xfree86: Introduce OutputClass configuration

The OutputClass section provides a way to match output devices to a set of given attributes and configure them. For now, only matching by kernel driver name is supported. This can be used to determine what DDX module to load for non-PCI output devices. DDX modules can ship an xorg.conf.d snippet (e.g. in /usr/share/X11/xorg.conf.d) that looks like this:

```
Section "OutputClass"
  Identifier "NVIDIA Tegra open-source driver"
  MatchDriver "tegra"
  Driver "opentegra"
EndSection
```

This will cause any device that's driven by the kernel driver named "tegra" to use the "opentegra" DDX module.

See the OUTPUTCLASS section in xorg.conf(5) for more details.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-By: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 856bb80cea695106a8f6767d00918b38795b51c6
Author: Thierry Reding <treding@nvidia.com>
Date:  Wed Feb 12 16:43:29 2014 +0100

xfree86: Store kernel driver name in platform device attribute

When opening a DRM device, query the version and store the driver name as a new attribute for future reference.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-By: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5a4e15c3f6fb8d674879e54458328e9f595d9451
Author: Thierry Reding <treding@nvidia.com>
Date:  Fri Feb 14 15:45:33 2014 +0100
xfree86: Make driver matching consistent

Most of the driver enumeration functions take an array and a maximum number of entries that they are allowed to fill in. Upon success, they return the number of entries filled in. This allows them to be easily used to consecutively.

One exception is the xf86MatchDriverFromFiles() function, which doesn't return a value, so callers have to manually search the array for the first empty entry.

This commit modifies the xf86MatchDriverFromFiles() to behave the same way as others, which makes it easier to deal with.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-By: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Rob Clark <robdclark@gmail.com> (on arm / platform device)
Signed-off-by: Thierry Reding <treding@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a61ca6f006d70343c88fe45206fae0669d1e8971
Author: Tomasz Borowik <timon37@gmail.com>
Date:   Thu Jul 3 13:04:44 2014 -0700

glamor: Fix stack corruption in glamor_init

glGet on GL_MAX_VIEWPORT_DIMS returns two values

Reviewed-by: Markus Wick <markus@selfnet.de>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 10d2805dbc6b96a159b8c5acedcd53f34df362bf
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 26 14:12:24 2014 -0700

fb: Don't free NULL pixmap in fbCloseScreen. Bug #80313

We fixed fbCloseScreen to use the FreePixmap function so that the private counts would be updated correctly during CloseScreen. Xvfb calls FreePixmap and sets devPrivate to NULL before fbCloseScreen is called; not checking devPrivate before calling would result in a NULL pointer dereference.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a5499870e2f88822f52b1b54cad0db69856597c0
hw/xwin: link dynamically and export symbols

With my patch to fix shared libXfont to work correctly on Cygwin/Win32, there is no need for -static anymore. But, XWin.exe must export its symbols in order for them to override libXfont's stubs.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 5f3485b06e180674af640e7e9d7d56f67b61735b
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Thu Jun 26 10:37:19 2014 +0200

bump to 0.9.0

commit a3b44ad8db1fa2f3b81c1ff9498f31c5323edd37
Author: Thierry Reding <treding@nvidia.com>
Date: Wed Jun 25 16:03:29 2014 +0200

exa: Fix a warning when enabling DEBUG_TRACE_FALL

The format string wants a picture and a character, but the argument list contains only a character, causing GCC to complain. Add the missing argument.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2f113d68f6c1572576bc57ecca12e44cc9e438eb
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Mon Jun 16 11:34:55 2014 -0700

xwayland: Add glamor and DRI3 support

Reviewed-by: Axel Davy <axel.davy@ens.fr>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fd16555c2fc606fc43236050deba558c20e184e8
Author: Michel Dänzer <michel.danzer@amd.com>
Date: Tue Jun 24 16:09:19 2014 +0900

Revert "glamor: Fix coordinates handling for composite source/mask pictures"
This reverts commit 4e9aabb6fc15d8052934f20c6a07801c197ec36a.

It broke kwin decorations with XRender compositing.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 18744907d0766b1b57be12df5adaf0f9321006
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Tue Jun 10 07:45:05 2014 +0100

dri2: Invalidate DRI2Buffers upon SetWindowPixmap updates

When transitioning to a redirected or unredirected Window, the Composite layer modifies the Window's Pixmap. However, the DRI2Buffer for the Drawable is still pointing to the backing bo of the old Pixmap with the result that rendering goes astray.

This now also effects DRI2 Drawables that are touched by PresentPixmap.

v2: Fixup the function name after rebasing

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Reinis Danne <reinis.danne@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Cc: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4d92fab39c4225e89f2d157a1f559cb0618a6eaa
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Wed Jun 18 11:14:43 2014 +0100

dri2: Use the PrimeScreen when creating/reusing buffers

This fixes a segfault when we attempt to call ds->ReuseBufferNotify() passing a Prime DRI2BufferPtr to the master backend.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=80001
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0d9ad781807022d78239327ed508758a3f88b090
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jun 16 08:06:53 2014 +0100

glamor: Fix GLES2 non-VBO temporary memory allocation.
We'd get a request for like 16 bytes, claim to have allocated GLAMOR_VBO_SIZE, and then not reallocate when something a request bigger than 16 came along. The intent was to always allocate at least GLAMOR_VBO_SIZE.

Fixes segfaults with Xephyr -glamor_gles2 and running gnome-terminal.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 736bed22a4b4bb672b6c7b33146fe84700baf22bd
Merge: ce581ac3fa d90b5f8301
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 23 14:18:03 2014 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit ce581ac3fa80c4c52d87bd54fa92bc566b7d6adc
Author: Axel Davy <axel.davy@ens.fr>

    present: fix bad logic in cancelling scheduled operations.

    If we present several pixmaps in advance for different msc, the later one shouldn't cancel the previous ones.

    This reverts a change made by commit e6f5d9d7b7efdacea0f22f1808efca849bcede4c

    Without this fix, vblank_mode=0 glxgears doesn't update with the present fallback.

    Signed-off-by: Axel Davy <axel.davy@ens.fr>
    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit adb7bc3386559dfee34b359dadcbb6796bc416e7
Author: Dinar Valeev <dvaleev@suse.com>
Date:   Mon Feb 24 11:36:54 2014 +0100

    arch: Fix image and bitmap byte order for ppc64le

    So far PPC was big endian for sure. For ppc64le this is no longer true.

    Signed-off-by: Egbert Eich <eich@freedesktop.org>
present: restore screen pixmap when aborting a flip

If a 2D application is started on top of a fullscreen 3D application, which is flipping, then we need to stop flipping and restore the root window, and possibly the flip window, to using the screen pixmap. Normally this would be done as part of an unflip. However, in the case that there is a pending flip there is no mechanism to abort so the unflip is deferred until the pending flip completes. This provides a window of opportunity for the 2D application to draw to the wrong pixmap.

Restore the screen pixmap at the point a pending flip is marked as aborted, thus avoiding this issue.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Frank Binns <frank.binns@imgtec.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

dix: fix up coordinate scaling when external monitors are present

The goal of all this is to get an x/y motion reflecting the motion on the device, i.e. a circle on the device is a circle on the screen.

This is currently done by scaling the y coordinate depending on the screen ratio vs device ratio. Depending on that ratio the movement on the y axis may be accelerated (ratio < 1) or slowed (ratio > 1). This leads to the weird effect that changing the screen ratio by plugging a new monitor changes the speed of the touchpad.

Use a different algorithm: calculate the physical movement on the device, map that to the same-ish distance on the screen, then convert that back into a
device-specific vector. This way we get the same mapping regardless of the current screen dimensions.

Since the pointer accel code doesn't take device resolution into account, make sure we apply our crazy mapping before we accelerate. This way we accelerate resolution-independent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 382ff4a306b97b0ddcdac03ce8611b026ca5323b
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 17 15:50:48 2014 -0700

  present: Remove executing vblank from window list. Bug# 79709.

  Once the vblank is actually getting executed, it's lifetime is no longer tied to the window, and so it shouldn't be controlled by window destruction. In particular, if the vblank is queued for flip, it will get stored in the flip_pending field, and will be correctly destroyed when the flip completes.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 199d9a6a942af9b443616f6ef6d26052ef3f48b9
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 11:12:27 2013 -0800

  xephyr: Allow initializing glamor with gles2 (on GLX).

  This should be useful for glamor development, so you can test both paths (which are significantly different, and apparently glamor_gradient.c was broken on GLES2 as of the import).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 98b6158bc1e32aaca375829452266e013a520e14
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Apr 6 07:44:20 2014 +0100

  glamor: Share code for put_image handling.

  The difference between the two is that XF86 has the clip helper that lets you upload less data when rendering video that's clipped. I don't think that's really worth the trouble, especially in a world of compositors, so I've dropped it to get to shared code.
It turns out the clipping code was broken on xf86-video-intel anyway. To reproduce, run without a compositor, and use another window to clip the top half of your XV output on the glamor XV adapter: the rendering got confused about which half of the window was being drawn to.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 34884e16bf7e97434e7883d025c6814e083b0def
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 12:30:28 2014 +0100

ephyr: Add support for XV using glamor.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 23d303bf905e76a70bda942037bd0d6e55d2
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 12:57:16 2014 +0100

kdrive: Mark XV names const to avoid warnings.

No code modifies it at runtime, and it's common to store string literals to it.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 65efc14b6ae1ee73bf6db379d7826b6bc9fd6d33
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 11:50:51 2014 +0100

glamor: Split the XV code into XF86-dependent parts and generic.

I want to expose this from Xephyr as well, both to be able to test XV changes rapidly, and because the XV passthrough to the host's overlay really doesn't work out well when we glXSwapBuffers() over the colorkey.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a5662193f1c3dd63f615d96d1a300f70086c6b6
Author: Eric Anholt <eric@anholt.net>
Date: Sat Apr 5 12:26:33 2014 +0100
kdrive: Simplify the adaptor setup interface.

Now that we don't have to worry about the generic adaptors code, there's no need to have a list of pointers to different sets of adaptors.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 55aad7399d4470bc46c064aafe07d12a6c293982
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 12:09:01 2014 +0100

kdrive: Remove dead generic XV adaptors code.

I couldn't find any callers in the history of the tree.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0edc0a78fbfac4578b0f809aef17332c1eb461e3
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Apr 6 08:12:35 2014 +0100

kdrive: Do a little more cleanup from the XV struct deduplication.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1d90e8811a7d4db328c0e944bec0aa3ed6afb70d
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 21:34:44 2013 -0800

xorg: Remove duplicated definitions of some XV-related structs.

These were field-for-field identical, so we can just typedef them to be the same, and memcpy their contents.

v2: Fix missed strdup().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a6aaa51752f301de24abce264976ba3c3a50863c
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 21 14:55:47 2014 -0700

glamor: Remove stubbed-out glamor_stipple function
This function isn't used anymore.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ef2bf0e645ed8242a0b637ed6a9d5b8c03b6b481
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 21 14:30:33 2014 -0700

glamor: Remove 'tiling' shader code

The core rendering paths all use the glamor_program fill functions now

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 18c09e60bf16b28060ade5d24110f2aa6bc19b57
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 16 20:49:28 2014 -0700

glamor: Replace glamor_solid_boxes and glamor_solid with GC using code

This provides glamor_solid_boxes and glamor_solid using regular GC
operations instead of calling directly to underlying rendering
functions. This will allow the old rendering code to be removed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit bd3b2c48f69a5169aefb261c041462271c69a07a
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 3 14:22:52 2014 -0700

glamor: Add accelerated stipple support

This copies the stipple to a 8bpp pixmap and uses that to paint the
texture from.

v2: Create deep stipple pixmap without GLAMOR_CREATE_FBO_NO_FBO

v3: Fix stipple origin sign (matches tiles now). Track changes
to original stipple with damage. This isn't required by the
X spec, but java appears to depend on it, so we'll just do it.
When Glamor switches to 8bpp bitmaps, we'll be able to render
directly from them and not need this anymore.

v4: Review comments from Eric:
* Remove stray whitespace change
* Avoid "large" pixmap for stipple by using GLAMOR_CREATE_NO_LARGE
* Wrap to 80 columns

v5: Don't crash when stipple damage tracker is destroyed

The stipple damage tracker is automatically destroyed when the
associated stipple pixmap is destroyed. When this happens, just
clear the pointer from the GC rather than calling
glamor_invalidate_stipple; that function would call
DamageUnregister on the now invalid stipple damage pointer and
crash.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit d18f5801c9a632dd4d9f8b7912491b6623e943d5
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 2 14:07:20 2014 -0700

glamor: Add glamor_program based 0-width dashed lines

This makes sure the pixelization for dashed lines matches non-dashed
lines, while also speeding them up.

v2: Switch to glamor_make_current

v3: Create dash pattern pixmap without GLAMOR_CREATE_FBO_NO_FBO

v4: Adopt suggestions from Eric's review:

- Drops power-of-two alignment of our line vertex data, simplifying
  the code.

- Stops reading from the VBO. While on keithp's and my machines the
  VBO is mapped cached, on many implementations it will be mapped WC,
  making those reads extremely expensive.

- Style fixes (line wrapping, spaces around operators).

v5: Adopt suggestions from Markus' review:

- Use max when computing zero-width dashed line length.

  Don't open code max here.

- Embed CoordModePrevious into VBO writing for dashed lines
Instead of pre-computing the coord mode previous results, just embed this in the loop which fills the vertex buffer. Saves re-writing the request buffer, and shortens the code a bit.

v6: Export glamor_destroy_gc for UXA

UXA needs to call glamor_destroy_gc from its GCFuns, so export it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit dc9fa9080a1cb994b4e54a341d2245f442dac576
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 23 20:59:02 2014 -0700

glamor: Use glamor_program and GL_LINES for 0-width lines

GL lines are nearly X compliant; you just need to fill in the last pixel when the client hasn't requested CapNotLast.

v2: switch to glamor_make_current

v3: use miPolylines instead of custom glamor fallback path. Wrap code to 80 columns.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 51075ebd37dca8d17c42425fb756ad3090e157c4
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 21 18:03:07 2014 -0700

glamor: Use glamor_program for glamor_push_pixels

This uses the same shaders as glamor_poly_glyph_blt.

v2: Wrap some long lines (changes by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 45ebc4e3fac7f1a85167d05e283394b89f02d64
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 15 13:31:18 2014 -0700

glamor: Add glamor_program based copy acceleration
Paints with textures, using a temporary buffer for overlapping copies

Performs CPU to GPU transfers for pixmaps in memory. Accelerates copy plane when both objects are in the GPU. Includes copy_window acceleration too.

v2: Use NV_texture_barrier for non-overlapping copies within the same drawable

v3: Switch to glamor_make_current

v4: Do overlap check on the bounding box of the region rather than on individual boxes

v5: Use Eric Anholt's re-written comments which provide a more accurate description of the code

v6: Use floating point uniform for copy plane bit multiplier. This avoids an int to float conversion in the copy plane fragment shader.

Use round() instead of adding 0.5 in copy plane. round() and +0.5 end up generating equivalent code, and performance measurements confirm that they are the same speed. Round() is a bit clearer though, so we'll use it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

glamor: Directly reference the private key records

There's no reason to use a pointer here, it just wastes time.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: Replace fallback preparation code

These offer a simpler and more efficient means for temporarily
transitions to CPU-accessible memory for fallback implementations.

v2: Do not attempt fallbacks with GLAMOR_DRM_ONLY pixmaps

glamor cannot transfer pixels for GLAMOR_DRM_ONLY pixmaps using glReadPixels and glTexSubImage2D, and so there’s no way to perform fallback operations with these pixmaps.

v3: Clear ->pbo field when deleting the PBO. Otherwise, we’d reuse the old name next time we fall back on the pixmap, which would potentially conflict with some other pixmap that gened a new name, or just do a lazy allocation of the name (compat GL context, like we currently use) or error out (core GL context, like we hope to use some day). Also, style fixes. Changes by anholt, acked by keithp.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3ac481c9dac591fffc33882dab047fc793d8a43d4f
Author: Keith Packard <keithp@keithp.com>
Date: Wed May 7 10:31:16 2014 -0700

mi: Draw multiple lines in one FillSpans call in miZeroLine

miZeroLine allocates enough space to draw a line spanning the entire width/height of the target drawable. When drawing multiple shorter lines, this leaves most of the space in that buffer unfilled. Let multiple lines be drawn into the buffer if there is plenty of space.

Speeds up glamor fallback zero-width lines:

Before
   6000000 trep @ 0.0020 msec (508000.0/sec): 1-pixel line
   6000000 trep @ 0.0020 msec (492000.0/sec): 10-pixel line
   6000000 trep @ 0.0023 msec (427000.0/sec): 100-pixel line
   4000000 trep @ 0.0035 msec (282000.0/sec): 500-pixel line

After:
   600000000 trep @ 0.0000 msec (43400000.0/sec): 1-pixel line
   140000000 trep @ 0.0001 msec (13000000.0/sec): 10-pixel line
   160000000 trep @ 0.0008 msec (1300000.0/sec): 100-pixel line
   40000000 trep @ 0.0038 msec (261000.0/sec): 500-pixel line

(500 pixel lines do not change in performance because the buffer can only one one of them.)

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit ea678a73c5688f73071d5581b6406808b7a0230f
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 25 22:43:51 2014 -0700

mi: Fill spans for multiple arcs in miPolyFillArc

This allocates span data for multiple arcs and draws the whole set in one call, rather than doing them one at a time. For modern hardware, this is a significant performance improvement.

v2: Limit the number of spans per buffer to 4M to avoid integer overflow in computing the malloc size.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit a7fceedbb8211990e5b4956adea4d75f0e73c9
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 7 09:58:26 2014 -0700

mi: Make miPolyArc draw fast zero-width when possible

Instead of forcing drivers to figure out when to call miZeroPolyArc, have miPolyArc call that when possible.

This involved renaming the existing miPolyArc call to miWideArc and creating a new miPolyArc wrapper function as miZeroPolyArc falls back to miWideArc when the arc is too large to be drawn with the zero-width code (ellipses larger than 800x800).

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit bf1429b2034a577e994ff16b60d809d05ca99241
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 7 09:56:39 2014 -0700

mi: Create miPolylines as a general-purpose line drawing function

Instead of requiring all drivers to figure out which mi function to call for each of the four cases, create a single wrapper in mi that handles them correctly. Now drivers can simply use miPolylines in all cases.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
ephyr: Deal with non-root visual for window

glx will sometimes select a non-root visual, deal with that by creating a suitable colormap and using that instead of attempting to use the default colormap.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit a11bbd875f3f90a3d02d727778cb1d3524cf59fd
Author: Eric Anholt <eric@anholt.net>
Date: Fri May 30 10:39:30 2014 -0700

glamor: Don't leak a prepare_access_gc() in putimage fallbacks.

It turns out putimage doesn't use the GC tile or stipple anyway, so there's no need to do this.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8da1e4e2bf28c3610cdebe1770a57be89578d37f5
Author: Markus Wick <markus@selfnet.de>
Date: Wed May 14 23:08:18 2014 +0200

glamor: Choose max fbo size by texture + viewport size

The max size of renderbuffers and texture often match by accident, but as we always use textures, we should check for the right flag. Also check for viewport size as this may be lower and we want to render to almost every pixmap.

Signed-off-by: Markus Wick <markus@selfnet.de>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3778fab34bc00334edec4f845d0c6d43440f265a
Author: Markus Wick <markus@selfnet.de>
Date: Wed May 14 23:08:17 2014 +0200

glamor: Fix no-mipmap allocations

With GL_TEXTURE_MIN_FILTER, we configure not to use mipmaps, but
there's no real way until GL_ARB_texture_storage to dictate whether memory should be allocated for mipmap levels or not.

GL_TEXTURE_MAX_LEVEL is a stronger hint to the driver than the filtering that we really don't want mipmap allocations. Stops VARM wasting warnings from the nvidia driver.

Signed-off-by: Markus Wick <markus@selfnet.de>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1095c262502332bc570a9b288b01da51c1fa10ec
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Jun 6 17:54:22 2014 -0700

cfg: show default path in help for --with-xkb-bin-directory

Now shows:
--with-xkb-bin-directory=DIR
   Directory containing xkbcomp program (default: ${bindir})

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e27a839bf0488d5b1cc2e2a887f2ea0e3d790790
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Thu Jun 5 20:38:44 2014 -0700

mi: Build fix: mieqProcessDeviceEvent returns void

mieq.c:520:9: error: void function 'mieqProcessDeviceEvent' should not return a value [-Wreturn-type,Semantic Issue]
   return 0;
     ~
1 error generated.

Regression-from: 9fb08310b51b46736f3ca8dbe04efdf502420403
Found-by: Tinderbox

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08820f03768e904f1746ef93ca01660330dc5406
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 4 22:28:57 2014 -0700
Update to version 1.15.99.903

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9fb08310b51b46736f3ca8dcb04efdf502420403
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 21 10:07:31 2014 +1000

mi: don't process events from disabled devices (#77884)

Once a device is disabled, it doesn't have a sprite pointer anymore. If an event is still in the queue and processed after DisableDevice finished, a dereference causes a crash. Example backtrace (crash forced by injecting an event at the right time):

(EE) 0: /opt/xorg/bin/Xorg (OsSigHandler+0x3c) [0x48d334]
(EE) 1: /lib64/libpthread.so.0 __ divisive rt+0x0) [0x377cc074f]
(EE) 2: /opt/xorg/bin/Xorg (mieqMoveToNewScreen+0x38) [0x609240]
(EE) 3: /opt/xorg/bin/Xorg (mieqProcessDeviceEvent+0xd4) [0x609389]
(EE) 4: /opt/xorg/bin/Xorg (mieqProcessInputEvents+0x206) [0x609720]
(EE) 5: /opt/xorg/bin/Xorg (ProcessInputEvents+0xd) [0x4aeb58]
(EE) 6: /opt/xorg/bin/Xorg (xf86VTSwitch+0x1a6) [0x4a4f457]
(EE) 7: /opt/xorg/bin/Xorg (xf86Wakeup+0x2bf) [0x4a4f0a7]
(EE) 8: /opt/xorg/bin/Xorg (WakeupHandler+0x83) [0x44445cb]
(EE) 9: /opt/xorg/bin/Xorg (WaitForSomething+0x3fe) [0x491bf6]
(EE) 10: /opt/xorg/bin/Xorg (Dispatch+0x97) [0x435748]
(EE) 11: /opt/xorg/bin/Xorg (dix_main+0x61d) [0x4434a9]
(EE) 12: /opt/xorg/bin/Xorg (main+0x28) [0x499a28]
(EE) 13: /lib64/libc.so.6 (_libc_start_main+0xf5) [0x37fc821d65]
(EE) 14: /opt/xorg/bin/Xorg (_start+0x29) [0x425e69]
(EE) 15: ? (?+0x29) [0x29]

xf86VTSwitch() calls ProcessInputEvents() before disabling a device, and DisableDevice() calls mieqProcessInputEvents() again when flushing touches and button events. Between that and disabling the device (which causes new events to be refused) there is a window where events may be triggered and enqueued. On the next call to PIE that event is processed on a now defunct device, causing the crash.

The simplest fix to this is to discard events from disabled devices. We flush the queue often enough before disabling that when we get here, we really don't care about the events from this device.

X.Org Bug 77884 <http://bugs.freedesktop.org/show_bug.cgi?id=77884>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reported-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
present: Queue flips for later execution

When a flip (or unflip) is pending and a flip request comes in, leave it queued until the pending flip completes and then execute it.

This fixes a bug where an application submitting back-to-back present_pixmap requests for sequential frames would alternate between flipping and copying as the pending flip would cause the new present_pixmap request to not use a flip.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2f5cf9f9a0f713b7e038636484c77f113a5f10a
Author: Frank Binns <frank.binns@imgtec.com>
Date: Thu Apr 24 11:37:48 2014 +0100

xfixes: disable cursor on X server reset

The initial state of the cursor is set to disabled but this was never be re-disabled during X server reset. This meant any application run after an X server reset would have the cursor displayed even if it hadn't requested this to be the case.

Signed-off-by: Frank Binns <frank.binns@imgtec.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b92d86a982504af2605042c19e7796d135074ee1
Author: Brendan King <brendan.king@imgtec.com>
Date: Thu Apr 24 11:37:47 2014 +0100

dix: fix pixmap leak on server reset

The server is leaking a pixmap (created by CreateDefaultStipple()) on reset. The leak is caused by some X Server graphics contexts not being freed on reset by the machine independent cursor code in the server, which in turn is caused by the cursor cleanup code (miSpriteDeviceCursorCleanup()) not being called.
Ensures the DeviceCursorCleanup() function is called when the associated
input device is closed on server reset.

Signed-off-by: Frank Binns <frank.binns@imgtec.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a99c061aaaf44aa5728c776dca7d0a1789ac739a
Author: Brendan King <brendan.king@imgtec.com>
Date:    Thu Apr 24 11:37:46 2014 +0100

dix: reference the cursor just once in InitializeSprite()

The new current cursor was being referenced twice, resulting in a
memory leak when the current server generation ended.

Signed-off-by: Frank Binns <frank.binns@imgtec.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 444a1f7a8802999e27ecf5f6eb598df2206f7277
Author: Brendan King <brendan.king@imgtec.com>
Date:    Thu Apr 24 11:37:45 2014 +0100

fb: fix screen pixmap leak on server reset

Call FreePixmap() instead of free() to destroy the screen pixmap in
fbCloseScreen().

Signed-off-by: Frank Binns <frank.binns@imgtec.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7ca458493aa2f0aa091c989ea0768611e0730bf5
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:    Wed May 28 08:14:00 2014 +0100

xfree86: Report Present as a built-in module

This is so that drivers can do a runtime check that Present is available,
similar to existing runtime checks performed by the drivers for DRI.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 746be5a03ebdda4ab411ca3efb2ed95f99e9ea46
Author: Chris Wilson <chris@chris-wilson.co.uk>
xfree86: Report DRI3 as a built-in module

This is so that drivers can do a runtime check that DRI3 is available, similar to existing runtime checks performed by the drivers for DRI and DRI2.

v2: Only add DRI3 to the list if the module was actually built into the server (Mark Kettenis).

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Mark Kettenis <mark.kettenis@xs4all.nl>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b5526141f78df15bc5df2497bc4b4a17f1a6368d
Merge: dc8d068847 a205ec3ab7
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 2 13:08:23 2014 -0700

Merge remote-tracking branch 'jturney/master'

commit dc8d0688471695ec5a8db5fe93fbcfc064891d5
Author: Max Filippov <jcmvbkbc@gmail.com>
Date: Mon Jun 2 01:17:31 2014 +0400

xtensa: add support for xtensa architecture

Signed-off-by: Max Filippov <jcmvbkbc@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a6ffdc69e4ac45bc39924159c7fab5f02f720f1f
Merge: 63c48de63b 1c10b37380
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 2 11:30:24 2014 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 63c48de63becdee680e90cb2363984c2f8f77f1d
Author: Søren Sandmann <soren.sandmann@gmail.com>
Date: Fri May 30 16:50:35 2014 -0400

xfree86: Add "modesetting" to list of fallback drivers

To make X -configure work properly, the output of fixup_video_driver_list() should be in order of preference. Otherwise, the config file may use the incorrect driver for some devices.
In particular, the drivers that work for all (or many) devices need to be last in the list. Since the modesetting driver works for many devices, it needs to be considered a fallback driver.

Signed-off-by: Søren Sandmann <ssp@redhat.com>
Acked-by: Daniel Stone <daniels@collabora.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ab47ec9636b21a7f542d2e8612834915e7c8ccc64
Merge: 0df871cf34 cfa02abbac
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 2 11:22:48 2014 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 0df871cf34ee5f1a85586206027de9b02fb364ec
Author: Robert Ancell <robert.ancell@canonical.com>
Date:   Thu May 22 10:43:52 2014 +1200

    Fix overflow checking extension versions

The easiest way to check for the version of an extension is to send the maximum possible version numbers in the QueryVersion request. The X server overflows on these as it assumes you will send a reasonable version number.

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4cbd3fabaa41e89579530bceb01b9239fa2afdb7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 21 09:22:49 2014 -0400

    configure: Require sufficiently new wayland-client for xwayland ddx

The explicit release requests were added in 1.3.0, don't try to build against older.

    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit a205ec3ab77c6765d44f77c526a832345f6f77b0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Apr 5 15:15:46 2014 +0100

    configure: Restore DEFAULT_LOGDIR to xwin-config.h, it is used
Commit f37a46913489397d8628ffe578c8d4ed50b6ca72 removed this from xwin-config.h.in for some reason, but it is used.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit aaaa41345674a1c76a70836394cb5e57f82e9a26
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Apr 27 20:55:51 2014 +0100

hw/xwin: Update for __glXLastContext -> lastGLContext

Update for __glXLastContext -> lastGLContext.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 1c10b37380d228b35db8a8616a6312ac54f5e59b
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat May 31 17:45:02 2014 -0700

XQuartz: Update logic to account for title bar on every display in Mavericks

<xrdar://problem/14205847>
http://xquartz.macosforge.org/trac/ticket/832

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ad0ff649c68b18c4b95b078c2d1d1e7de71a7c6f
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat May 31 17:22:51 2014 -0700

XQuartz: Dead code removal (ENABLE_DEBUG_LOG)

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit e281288d5afedbb154f52c31f70a350a013ecfb06
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat May 31 13:04:43 2014 -0700

XQuartz: Bump to 2.7.7

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit cfaf2abbac3f01e57d00845d8908bf01559263f9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sat May 24 20:05:53 2014 +1000
man: drop specific mention of DontZap in -retro (#71113)

DontZap off is the default anyway, don't mention it specifically to avoid confusion

X.Org Bug 71113 <http://bugs.freedesktop.org/show_bug.cgi?id=71113>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e48a132b6d187f355abd7021be47edde972e7091
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat May 24 20:02:56 2014 +1000

xfree86: fix wrong DontZap documentation (#71113)

X.Org Bug 71113 <http://bugs.freedesktop.org/show_bug.cgi?id=71113>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 548fe937b22d4dfe7f96e0bd77522261603a2c2f
Author: Robert Ancell <robert.ancell@canonical.com>
Date:   Thu May 22 10:43:52 2014 +1200

Fix overflow checking extension versions

The easiest way to check for the version of an extension is to send the maximum possible version numbers in the QueryVersion request. The X server overflows on these as it assumes you will send a reasonable version number.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit db2e708f31a162c6c66643d3559dd5f3e21ee06b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 27 17:44:42 2012 -0400

glx: Require at least one True/DirectColor visual

Mesa no longer supports rendering to anything less. GLX 1.2 requires that the server advertise at least one GLX visual. GLX 1.3 and 1.4 are more subtle: they require at least one fbconfig capable of window rendering, and _also_ require that window-capable fbconfigs have a non-zero value for the GLX_VISUAL_ID. In either case we should refuse to init GLX if there's not at least one GL-capable visual on at least one screen.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Xi: block SIGIOs while copying device classes around

I've been seeing sporadic (anywhere from once every few days to 3-4 times a day) crashes and freezes in X. The problematic behaviour isn't always the same, but I chose a particular incident to debug, and found that X was segfaulting in updateMotionHistory, on line 575 of dix/getevents.c.

After some further investigation, I found that the bug was being triggered when a SIGIO was received in DeepCopyPointerClasses, between the AllocValuatorClass call (line 540) and updating the to->valuator pointer (line 545). AllocValuatorClass calls realloc() on to->valuator, so between these lines, it's not guaranteed to point to allocated memory.

It seems the SIGIO handler is calling updateMotionHistory, which is reading the memory pointed to by to->valuator and getting a wrong value for last_motion, which updates buff to point to wildly the wrong place and thus generates a segfault when a memcpy() is done into buff.

I am attaching a patch which I've been running on that machine for the past three days, and haven't yet observed any more crashing or freezing behaviour. The patch simply calls OsBlockSIGIO while DeepCopyDeviceClasses is in progress, as the state of the X server's device data structures is not guaranteed to be in a consistent state during that time.

Debian bug#744303 <https://bugs.debian.org/744303>

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os: automatically switch to sigsafe logging when needed

If we're smart enough to warn, we should be smart enough to just pass it through to the right function. Worst case we lose some formatting specifiers which pnprintf will complain about anyway. And in most cases it won't matter.
This requires renaming pnprintf to vpnprintf and changing the size_t to int to be compatible with Xvsnprintf. pnprintf is internal only, the others are exported API so we can't change them as easily.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6d684f916b4c33327d32ef1f48803bf90357287f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 21 09:23:19 2014 -0400

shadowfb: Fix initialization

This has to run at initial CreateWindow time, at CreateScreenResources the root window doesn't actually exist yet.

Tested-by: Michael Thayer <michael.thayer@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Michael Thayer <michael.thayer@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d9e99edd4dcf109492abdaa73ccf8f29d5bf6d159
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 30 13:49:06 2014 -0400

glxproxy: Fix memory leak on error path in CreateGLXPixmap (#50281) (v2)

v2: Fix another path spotted by keithp

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dff1f5e19608eda2992fc9e3304edee7b5bee9b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 30 13:49:05 2014 -0400

dmx: Fix memory leak in dmxBELoadFont (#50281)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3dba171f5e82101aa8ea2e47d2253c3410907f6a
Author: Michal Srb <msrb@suse.com>
Date:   Tue Apr 15 15:18:54 2014 +0300
dri2: Fix detection of wrong prime_id in GetScreenPrime.

Checking the iterating variable ("slave") against null can not detect if the
xorg_list_for_each_entry finished without break being invoked - slave variable
will be always non-null. This caused segfault whenever someone tried to use
DRI_PRIME with incorrect id while having at least one render offloading slave
configured.

Restructurize the GetScreenPrime to work as expected.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c08d2b8c0b158dbf1f529f80cc3236e66236c
Author: Alexey Brodkin <Alexey.Brodkin@synopsys.com>
Date:    Thu May 1 15:39:29 2014 +0300

ARC: Add support for ARC architecture

Xorg server could be built for and run on Synopsys DesignWare ARC cores.
These changes are required for successful building and execution of the server.

Both little-endian and big-endian flavors of ARC cores are supported.

Reviewed-by: Alexey Brodkin <abrodkin@synopsys.com>
Acked-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Egbert Eich <eich@freedesktop.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 042bae0b49f6192ec3cb8bb51423c90c44638134
Author: Adam Jackson <ajax@redhat.com>
Date:    Wed May 21 10:16:39 2014 -0400

Use own thunk function instead of shadowUpdatePackedWeak

I plan to remove the Weak functions from a future server.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d5587cf3acb7ad6f81e1c095f1b88f8fb25ee953
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Wed May 14 10:32:30 2014 +1000

config: revert quirk for the Evoluent Vertical Mouse

This quick makes the mouse behaviour more obvious (LMR buttons generate LMR
events) but goes against the manufacturer's intended defaults:
Top button - left click.
Wheel button - .middle click (e.g., for pan and rotate in CAD programs).
Middle button - right click.
Bottom button - back.
Thumb button - forward.


Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 01e18af17f8dc91451fbd0902049045af01ceae7e
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon May 12 14:55:04 2014 -0700

rrcrtc: brackets are hard, lets go shopping.

Slaving two outputs on a secondary GPU to a primary GPU testing
picked this up, in that we'd try to resize to the totally the
wrong thing, then as usual segfault in the rotation code.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 6dd86f3ca7cca67f3a9102db2e90722d32a34cb
Author: Eric Anholt <eric@anholt.net>
Date:   Mon May 5 17:01:14 2014 -0700

glamor: Don't forget to check whether we can fall back in polysegment.

Part of the _nf contract is that glamor will only return FALSE if
glamor has checked that UXA can actually map the pixmaps (UXA only
allocates the BO itself in the screen pixmap and DRI2 cases, and can't
map it otherwise). Fixes server segfaults zooming in and out of
libreoffice spreadsheets.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fb24ac0a2c317099bdf7d1d8e4b7c443e3ee644f
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Fri May 9 09:09:16 2014 -0300

xfree86: fix warnings after MatchSeat patch

This patch fixes some compile warnings that arise after
commit 7070ebeebacka1b51f8a2801989120784a1c374ae
(xfree86: add new key MatchSeat to xorg.conf sections "Device", "Screen", and "ServerLayout")
available at git repository
git://people.freedesktop.org/~whot/xserver for-keith

Signed-off-by: Keith Packard <keithp@keithp.com>

commits bbfed454b2a0fd5e2723524d145cb7c6e5aa9193
Author: Eric Anholt <eric@anholt.net>
Date: Thu May 8 08:45:22 2014 -0700

glamor: Stop disabling asserts by default.
Disabling asserts is something the user gets to manage.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits 8e2fefe3ef247f8b5d74e32e8d37c619b06fc60c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 29 16:52:01 2014 +1000

Xi: don't copy a DeviceEvent into an InternalEvent

An InternalEvent is bigger than a DeviceEvent, thus copying one to the other reads past the allocated boundary. Shouldn't have any real effect since we shouldn't access anything past the DeviceEvent boundary if the event type is correct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commits d7ac9aff061f2961e6b76557dda97b57988ce362
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 30 10:55:26 2014 +1000

mi: start calculating the sprite trace from the first child of root

Introduced in
73698d41e41ce76bef2d9a90b46ac0c24ae148dd "Make XYToWindow a screen function"

Moving the code into miwindow.c changed the start of the loop from RootWindow()->firstChild to DeepestSpriteWindow(). This function is only supposed to be called from miXYToWindow which resets spriteTraceGood to 1, thus DeepestSpriteWindow() is always the root window anyway.
What got dropped was the firstChild as the first window to handle, so we may
end up with the root window twice in the sprite trace.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d60724b752613ce2ad11c6ae102bf4513f9768ff
Merge: a5b9757142 15460eaeed2
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 8 12:58:41 2014 -0700

Merge commit 'who/for-keith'

Skipping two unreviewed patches; will mark them reviewed and cherry pick

commit a5b9757142a2ab471ca26651dce9cc5f5e351f3d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 25 15:07:03 2014 -0700

glamor: Publish change_window_attributes and copy_window

Because uxa doesn't just use glamor directly, it keeps these two
functions from being wrapped so that they get called
automatically. Publishing these will allow uxa to call them directly.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 4711182033ec579caff8c930d420f90ecdbe54cf
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 25 20:25:56 2014 -0700

glamor: Work around libXfont when it fails to use defaultChar

GetGlyphs is supposed to always return the full list of characters
when there is a default character available. However, if an
application opens a 16-bit two dimensional font and then draws with
8-bit requests, the bitmapGetGlyphs function in libXfont versions up
through 1.4.7 will return zero glyphs if there is no 0th row.

While this is a bug in libXfont and should be fixed there, it's easy
to protect glamor from it by simply falling through to the case that
handles GetGlyphs failures for fonts without a default character.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 91767a32874790f8a8c7340be0e81a0b719ca4f6
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 25 23:38:35 2014 -0700

glamor: Fix uxa-entry point for ImageText16

Was interpreting the incoming chars as 8-bits instead of 16-bits, resulting in the wrong characters being drawn.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 15460eaed28b5353a94a17091d7795cfaeda9146
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 2 14:14:58 2014 +1000

systemd-logind: let the logind code decide whether to close a fd

We can only request one fd per device from systemd-logind. If a fd is re-used by the same device, releasing the fd from one device doesn't mean we can close it. The systemd code knows when it's really released, so let it close the fd.

Test case: xorg.conf section for an input device with hotplugging enabled. evdev detects the duplicate and closes the hotplugged device, which closes the fd. The other instance of evdev thinks the fd is still valid so now you're playing a double lottery. First, which client(s) will get the evdev fd? Second, which requests will be picked up by evdev and which ones will be picked up by the client? You'll never know, but the fun is in finding out.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 219ce9e6c34bfec946005f8e81ab4fb74ae1d25a
Author: Dave Airlie <airlied@redhat.com>
Date: Fri May 2 13:16:05 2014 +1000

modesetting: fix build regression against older servers.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 795af9ff017113788b4bb6d9dbeb5370c5b8165c
Author: Dave Airlie <airlied@redhat.com>
Date: Fri May 2 13:14:30 2014 +1000

modesetting: fix use after free.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 42a4873cc7fe0c7a729e48f806e877c4dace5c07f
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 30 09:32:29 2014 -0700

hw/xfree86: Video Driver ABI version 18.0

With the change in the cursor interface in
4c3932620c29e91d1bbce8eb09c84efca7ec873e, we need to bump the video
driver ABI number to ensure that drivers are rebuilt to match the new
interface.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit a6f5f6d5879e7fb052d343592951cc476b699bb4
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Thu Apr 3 11:19:15 2014 -0300

xfree86: add short description about MatchSeat key in xorg.conf man page

Signed-off-by: Laércio de Sousa <lbsousajr@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7070ebeebaca1b51f8a2801989120784a1c374ae
Author: Oleg Samarin <osamarin68@gmail.com>
Date:   Thu Apr 3 11:19:14 2014 -0300

xfree86: add new key MatchSeat to xorg.conf sections "Device", "Screen", and "ServerLayout"

This patch introduces a new key MatchSeat in xorg.conf (also applies to
any .conf file in xorg.conf.d). It will allow targeting a given
"Device", "Screen", and/or "ServerLayout" section to a particular
seat only (specified by option "-seat" in X server command line),
so that other seats won't be affected.

Without this patch, one needs to write a separate xorg.conf.custom
file and pass it to X server via "-config" option, if one wants that
these settings only apply for the right seat. However, in some cases,
this solution is undesirable or even impossible (e.g. when using GDM,
which doesn't allow X server command line customization).

Example file (/etc/X11/xorg.conf.d/seat1.conf), which would be ignored
by X server unless it was started with "-seat seat1" option:

Section "Device"
  Identifier "card0"
Driver "nvidia"
Option "NoLogo" "True"
MatchSeat "seat1"
EndSection

Signed-off-by: Oleg Samarin <osamarin68@gmail.com>
Signed-off-by: Laércio de Sousa <lbsousajr@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 29b1484bb9555e45067669cbfe68a3c40596f4ff
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Thu Apr 3 11:19:13 2014 -0300

xfree86: allow fallback to PCI bus probe for graphics devices on non-seat0 X servers (#66851)

Currently non-seat0 X servers only probe platform bus for graphics devices, which is OK for most KMS-compliant drivers. However, for non-KMS drivers (like NVIDIA proprietary ones), graphics devices can't be reached by platform bus probe, resulting in a "No devices detected" error.

This patch allows a fallback to PCI bus probe for non-seat0 X servers in case no platform bus graphics device is found.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=66851

Signed-off-by: Laércio de Sousa <lbsousajr@gmail.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2535b76c0d32bc1dd0ddaca06a419a68a4757df1
Author: Robert Ancell <robert.ancell@canonical.com>
Date:   Wed Apr 23 08:19:35 2014 +1200

os: Add -displayfd into -help text

Add -displayfd into -help text. It was mentioned in the man page but seem to have been missed from the -help text.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit a26578db93ddaaba1910b52f9fa1c87f8c9e6d1e
Author: Ray Strode <rstrode@redhat.com>
Date:   Thu Apr 24 13:38:29 2014 -0400

selinux: don't checkout for AVCs on select() EINTR

wakeup handlers are called even when select() returns EINTR,
and when they're called the passed fd set is undefined.

This commit fixes the selinux wakeup handler to avoid checking for AVCs over the netlink socket spuriously.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ray Strode <rstrode@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bcbl7b99873f020f2639b860ce99d260def0cd97
Author: Ray Strode <rstrode@redhat.com>
Date:   Thu Apr 24 13:38:28 2014 -0400

dbus: don't dispatch dbus events on select() EINTR

wakeup handlers are called even when select() returns EINTR, and when they're called the passed fd set is undefined.

This commit fixes the dbus wakeup handler to avoid dispatching into dbus spuriously.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Ray Strode <rstrode@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6bd7ad914470322ddd02b50078e159234ebec643
Merge: b92a9289fe e06f6e4dc8
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 29 09:37:37 2014 -0700

Merge remote-tracking branch 'whot/for-keith'

commit e06f6e4dc81110e01d36f958849e4ab5f2a9df0e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 28 07:57:00 2014 +1000

dix: remove a now-superfluous comment

Obsolete since 93945b0a74aa8156a88f52b8ba77f1210042f396

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a848122def0f2a439e21c50f22884db11760132
Author: Michal Srb <msrb@suse.com>
Date:   Wed Apr 2 17:14:05 2014 +0300

input: Remove invalid bug checks.
Commit 2f1aedcaed8fd99b823d451bf1fb02330c078f67 added several bug checks. Some of them are not correct.

Checks in Init(Ptr|String|Bell|Led|Integer)FeedbackClassDeviceStruct verify that no feedback struct was set yet, but that is not required. If any feedback structs are already present, the function will chain them behind the new one.

Signed-off-by: Michal Srb <msrb@suse.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f073b5e58262d5fccc0102d773091d11d175227ce
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Mar 18 15:48:22 2014 +0100

Add support for server managed fds

Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit b92a9289fef4831e9af69e5f6f64b5454f550559
Author: Thierry Reding <thierry.reding@gmail.com>
Date:   Wed Feb 12 17:11:40 2014 +0100

xfree86: int10: Fix build on ARM

Commit 7353ec7cb66c235b03e59e35425201429c83ee72 "xfree86: Switch int10 code to stdint types" uses designated initializers to setup the fields of the X86EMU_pioFuncs.

This breaks compilation on ARM, since out{b,w,l}() are redefined using the preprocessor and therefore cause the compiler to complain about non-existent fields being assigned to.

It seems like the compiler.h header that contains these redefinitions isn't actually needed in xf86x86emu.c, so the easiest "fix" is to not include it.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Rob Clark <robdclark@gmail.com>

commit 774fea38c48671ed44e54278f0280bae04822491
Author: Rob Clark <robdclark@gmail.com>
Date:   Thu Apr 3 15:35:53 2014 -0400

int10: fix build error

Fixes:

stub.c:66:1: error: conflicting types for 'xf86int10Addr'
In file included from stub.c:14:0:
xf86int10.h:72:53: note: previous declaration of 'xf86int10Addr' was here

Signed-off-by: Rob Clark <robdclark@gmail.com>

commit b241934238feedcb86c113fe3beb69a7470de02d
Author: Rob Clark <robdclark@gmail.com>
Date:   Thu Apr 3 14:54:02 2014 -0400

default to stub int10 implementation on arm

There should be no reason to need a real int10 implementation on arm, and switching to stub is an easy way to fix:

xf86x86emu.c: In function 'xf86Int10ExecSetup':
xf86x86emu.c:56:9: error: unknown field 'xf_outb' specified in initializer
xf86x86emu.c:57:9: error: unknown field 'xf_outw' specified in initializer
xf86x86emu.c:58:9: error: unknown field 'xf_outl' specified in initializer

which is caused by the following in compiler.h:

#define outb xf_outb
#define outw xf_outw
#define outl xf_outl

Signed-off-by: Rob Clark <robdclark@gmail.com>
Acknowled: Daniel Stone <daniels@collabora.com>

commit 4c3932620c29c91dfbbc8eb09e84efcaa7ee873e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 25 08:22:15 2014 -0700

hw/xfree86: Restore API compatibility for cursor loading functions

Create load_cursor_image_check, load_cursor_argb_check, LoadCursorImageCheck and LoadCursorARGBCheck that can return failure and use them in preference to the old unchecked variants.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Michael Thayer <michael.thayer@oracle.com>

commit 99f0365b1fbdfd9238b9f5cc28491e4e6c7324f1
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 23 09:52:17 2014 -0700

Add a command line argument for disabling indirect GLX.
The attack surface for indirect GLX is huge, and it's of no use to most people (if you get an indirect GL context, you're better served by a immediate X error than actually trying to use an indirect GL context and finding out that it doesn't support doing anything you want, slowly). This flag gives you a chance to disable indirect GLX in environments where you just don't need it.

I put in both the '+' and '-' arguments right now, so that it's easy to patch the value to change the default policy.

Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a4d96afdbdb7a636df8e336059d3a5624f2e6ae
Author: Zhigang Gong <zhigang.gong@intel.com>
Date:   Wed Apr 23 18:54:43 2014 +0900

glamor: Fallback to system memory when fail to allocate one big fbo.

Even when create a pixmap which smaller than the max_fbo_size, it may fail due to some low level driver limitation. If that is the case, we don't need to crash the xserver. We just need to fallback to system memory.

See the related bug at:
https://bugs.freedesktop.org/show_bug.cgi?id=71190

Signed-off-by: Zhigang Gong <zhigang.gong@intel.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Tested-by: Kai Wasserbach <kai@dev.carbon-project.org>
Tested-by: Erich Seifert <eseifert@error-reports.org>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 21e0e373858bd7f3458172ebd465397e33b90162
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Apr 23 18:54:42 2014 +0900

glamor: Fix memory leak in _glamor_copy_n_to_n()

It would leak the memory allocated for the region rects in some cases. Found with valgrind.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@intel.intel.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
glamor: Fix coordinates handling for composite source/mask pictures

There were actually two issues with the original code I believe, the first is that the call to glamor_convert_gradient_picture wasn't properly referencing the coordinates of the source/mask pictures. The second, was that the updated references (x_temp/y_temp) were also improperly set, they should always be 0 because the temp pictures are new ones that start at (0, 0). The reason it worked in certain cases and it didn't in others (notably the tray icons) was due to the numbers working out based on the call to glamor_composite. In the cases that it did work extent->x1 would equal x_dest and extent->y1 would equal y_dest, making it so what was actually passed into glamor_convert_gradient_picture and the settings for x_temp/y_temp were correct. However, for the case when extent->x1 wouldn't equal x_dest and extent->y1 wouldn't equal y_dest (for example with the tray icons) then the wrong parameters get passed into glamor_convert_gradient_picture and x_temp/y_temp are set improperly.

Fixes issues with tray icons not appearing properly in certain cases.

Bug:
https://bugs.freedesktop.org/show_bug.cgi?id=64738

Signed-Off-by: Anthony Waters <awaters1@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 5062b4fad977d044e54b53b7f3e02e466eac9a9
Author: Keith Packard <keithp@keithp.com>
Date: Sun Mar 16 20:44:48 2014 -0700

glamor: Add glamor_transfer based glamor_get_image and glamor_put_image

These use the upload_boxes and download_boxes helpers to provide reasonably efficient image transfer.

Fixes segfaults in Xephyr with x11perf -reps 1.

Performance improvements:
Improves -putimage10 by 548.218% +/- 88.601% (n=10).
Improves -putimage500 by 3.71014% +/- 1.5049% (n=10).
Improves -getimage10 by 8.37004% +/- 4.58274% (n=10).
No statistically significant difference on -getimage500 (n=10).

v2: Fix rebase failures, don't forget to check/prepare the gc in
putimage fallbacks (changes by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 747160016ba2d0cd42ad6b174cbf927d67c01875
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 22 16:33:45 2014 -0700

glamor: Wire alpha to 1 for pictures without alpha bits

When sourcing a picture that has no alpha values, make sure any
texture fetches wire the alpha value to one. This ensures that bits
beyond the depth of the pixmap, or bits other than the RGB values
aren't used.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit a69907288d59792fd78f2f1756cde03d4a06f97
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Mon Apr 21 17:47:15 2014 +0900

glx: If DRI2GetBuffers changes the GL context, call it again

By changing the context, it may also invalidate the DRI2 buffer
information, so we need to get that again.

Fixes crashes due to use-after-free with LIBGL_ALWAYS_INDIRECT=1
glxgears and piglit.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f6abfece3e59fa8c2e14a61430133816837855f8
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Apr 17 18:50:13 2014 -0700
glamor: Move a make_current before the first GL call entrypoint.

Fixes a usage of the wrong context with swrast GLX's GetImage entrypoint.

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 707726b155a2a086d12e0a6a6b17f1e59def5370
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 07:03:46 2014 +0100

glamor: Do the same MakeCurrent(None) for GLX as we do for EGL.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 482b06a95a0a2c9a588bc196e6b9dd928d796853df
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 07:03:31 2014 +0100

glamor: Explain the weird EGL_NO_CONTEXT code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fab0a4a4c9d9ad2275bb398d09632f4274b5e16f2
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Mar 14 17:31:18 2014 -0700

glamor: Replace glamor_get/put_context() with just glamor_make_current().

Now that we have the DIX global state for the current context, we don't need to track nesting to try to reduce MakeCurrent overhead.

v2: Fix a mistaken replacement of a put_context with make_current in 
glamor_fill_spans_gl() (caught by keithp).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com> (v1)
Reviewed-by: Adam Jackson <ajax@redhat.com> (v1)

commit 11ff12d4e74c0b514cb62cc47df9770c91e5002a
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Mar 14 17:29:31 2014 -0700

glamor: Stop unsetting the EGL context in put_context().
This matches the Xephyr behavior. Now that we know when to reset the context in the presence of GLX, we don't need to try to keep our stuff from being smashed by GLX.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit b5e394b3f5d80749af0148611df2eb009e7bf823
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Mar 14 17:20:12 2014 -0700

glamor: Use lastGLContext to coordinate the context with GLX.
This gets us some more context changes that are needed to make sure the two sides render to the right drawables and manipulate the right objects.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ab6e958a2e611b03e475c16d10beb9961d8df8c8
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 9 10:23:01 2014 -0700

glx: Make sure that DRI2/swrast calls haven't changed the GL context.
These functions are called from the GL driver, in some series of GL calls by GLX. If some server component (like glamor CreatePixmap for GetBuffers()) changes the GL context on us, we need to set it back or the later GL calls will land in the glamor context instead of the GLX context.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f3f2fb6baac3d2b248eb4b0da13fe95e9dc3de7d
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 9 11:25:32 2014 -0700

glx: Refactor DRI2CopyRegion calls.
I needed to add some code to each one, so it's a good time to make a helper func.
glx: Unconditionally clear lastGLContext on loseCurrent().

This hook calls unbindContext in the DRI driver interface, which unsets the dispatch table, regardless of whether the context argument was the current one or not.

glx: Move GLX MakeCurrent lastGLContext updates next to makeCurrent().

We want to make sure that lastGLContext is set correctly during makeCurrent, because we may have recursive GL context changes in the DRI2 interfaces due to glamor.

glx: Move the GLX variable caching what GL context is current to dix.

GLX is trying to track whether the context it wants is current, to avoid the glFlush() (and the rest of the overhead) that occurs on all MakeCurrent calls. However, its cache can be incorrect now that glamor exists. This is a step toward getting glamor to coordinate with GLX.
commit f12221cbd8ff33070fa2ca086bcef7ed32115f0e
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 16 16:16:21 2014 -0700

glamor: Fix a missing set of the GL context.

  Signed-off-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Keith Packard <keithp@keithp.com>
  Reviewed-by: Michel Dänzer <michel.danzer@amd.com>
  Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e924034269532979f1e88947ee9c33d30461edae
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Apr 21 10:56:38 2014 -0700

glamor: Fix accelerated rendering of GTK's ARGB vs xBGR composites.

There is some complicated code to support tweaking the format as we upload from a SHM pixmap (aka the GTK icon cache), but if we weren't sourcing from a SHM pixmap we just forgot to check that the formats matched at all.

We could potentially be a little more discerning here (xRGB source and ARGB mask would be fine, for example), but this will all change with texture views anyway, so just get the rendering working for 1.16 release.

Fixes the new rendercheck gtk_argb_xbgr test.

v2: Squash in keithp's fix for checking that we have a non-NULL pixmap, and reword the comment even more.

  Signed-off-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4bbee6761d49478fa40ec5daa2797f13ae96ce5c
Author: Jamey Sharp <jamey@minilop.net>
Date:   Fri Apr 18 09:31:09 2014 -0700

Make glamor build with --enable-debug.

Bad anholt, no biscuit. Broken in commit 4c9a20072552c52b3763bd73e7a7e9b9cb8b4993.

  Signed-off-by: Jamey Sharp <jamey@minilop.net>
  Cc: Eric Anholt <eric@anholt.net>
  Signed-off-by: Eric Anholt <eric@anholt.net>
  Reviewed-by: Eric Anholt <eric@anholt.net>
commit ba2432a020a9f9bd0892f643117795336ba0fc16
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 10 11:34:28 2014 -0400

xfixes: Forbid manipulating clip for source-only pictures (#28968)

Just throw BadPicture instead of crashing. It's not currently a
meaningful thing to do anyway, RenderSetPictureRectangles would error if
you tried (which this patch changes to BadPicture as well for
consistency). The problem with trying to do it is if the clip is
specified as a pixmap then we try to convert it to a region, and
->BitmapToRegion requires a ScreenPtr, and source-only pictures don't
have one.

I can imagine a use for client clip on source-only pictures, so if we
really wanted to allow this, probably the way forward is to always store
the clip as a region internally, and when setting the clip _from_ a
 pixmap, look up BitmapToRegion relative to the pixmap not the picture.
But since clearly nobody can be relying on it working...

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 70e564104b69bc53d29633f392f2c1ab94cadde9
Author: Dominik Behr <dbehr@chromium.org>
Date:   Tue Apr 1 20:36:13 2014 -0700

xf86RandR12: use correct gamma size when allocating gamma table

When setting crtc->gamma_size to randr_crtc->gammaSize we should
use randr_crtc->gammaSize to allocate new gamma table in crtc.
Currently, if randr_crtc->gammaSize > crtc->gammaSize the subsequent
memcpy will overwrite memory beyond the end of gamma table.

Signed-off-by: Dominik Behr <dbehr@chromium.org>
Reviewed-by: Stéphane Marchesin <marcheu@chromium.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 35d275c7519570ceaf82cd5e7a663a8a5be4d441
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Apr 4 08:38:33 2014 +0100

os: Initialize the set of signals to be suppressed during our handler.

Fixes a valgrind complaint:
Syscall param rt_sigaction(act->sa_mask) points to uninitialised byte(s)

at 0x5EB8315: __libc_sigaction (sigaction.c:66)

by 0x5B13DA: busfault_init (busfault.c:145)

by 0x5A60A2: OsInit (osinit.c:191)

by 0x46EBA2: dix_main (main.c:163)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 19e5a13970ad9d440c0789395e94931429ef4fbb
Author: YunQiang Su <wzssyqa@gmail.com>
Date:   Sat Oct 12 13:22:35 2013 +0800

Fix hw/xfree86/common/compiler.h for mips64

Mark mips64 as 64bit
Use long as PORT_SIZE

Signed-off-by: YunQiang Su <wzssyqa@gmail.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f466fb2432292d74123d701764e432d3aa75ef1d
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 10 11:45:37 2014 -0400

xres: Fix size estimation for <8bpp pixmaps (#69057)

Just use floats, it's not like this is a performance path.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5df66822c9f6bac1ed3952971958068600ccd095
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 21 21:38:28 2014 -0700

shadowfb: Fix compilation errors

Ok, that's embarrassing -- I didn't even make sure Adam's patch compiled. These are minimal fixes to make it build.

Signed-off-by: Keith Packard <keithp@keithp.com>
commit 2dcb1672620ef5f16111517e9e7a98cf97deb678
Author: Adam Jackson <ajax@redhat.com>
Date:    Thu Apr 10 13:42:42 2014 -0400

shadowfb: Port to miext/damage (#31303, #65547)

Somewhat shocking how much simpler this is, isn't it? We no longer need
 to wrap the screen or GC or Picture, because damage does it for us,
 which is doubly great since the old shadowfb code didn't wrap _enough_
 things (border updates and Render glyphs, at least). The only real
difference now between this and shadow is a) shadow will let you track
arbitrary pixmaps, and b) shadow's update hook runs off the BlockHandler
whereas shadowfb is immediate.

Tested on nouveau.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8edeac202ecbace859b7889dd811424471dcca73
Author: Peter Harris <pharris@opentext.com>
Date:    Wed Apr 16 20:24:34 2014 -0400

composite: Fix memory leak in compCopyWindow

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 935ea0d7b5e18ad8f22ee074a08cbdc7390d0f5d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:    Mon Apr 21 15:18:45 2014 -0700

dmxConfigCanvasUpdate: Delay dereference until after checking for NULL

Flagged by cppcheck 1.64:
[hw/dmx/config/xdmxconfig.c:306] -> [hw/dmx/config/xdmxconfig.c:323]:
(warning) Possible null pointer dereference: fs - otherwise
    it is redundant to check it against null.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 983e30361f49a67252d0b5d82630c70724d69dbf
Author: Peter Harris <pharris@opentext.com>
Date:    Fri Apr 11 17:44:59 2014 -0400
fb: Fix origin of source picture in fbGlyphs

If a source picture doesn't repeat and a mask format is specified, the incorrect calculation of the origin of the glyphs caused the glyphs to not be drawn at all.

Noticed when running gtk-demo from RHEL 6.5 and selecting "Rotated Text".

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

/* Test for this bug

cc -std=c99 -o glyph glyph.c `pkg-config --cflags --libs xcb-render`

*/

// 16 x 16 pictfmt_a8 "glyph"
static const char glyph[] = {
    0xff, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0xff,
    0, 0xff, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

static struct {
    uint8_t len;
    uint8_t pad[3];
    uint16_t deltax, deltay;
    uint8_t glyph;
    uint8_t pad2[3];
} elt = { len:1, glyph:1, deltax:WIN_SIZE/2 - GLYPH_SIZE/2, deltay:WIN_SIZE/2 - GLYPH_SIZE/2 };
int main(int argc, char *argv[]) {
    int screen;
    xcb_connection_t *c = xcb_connect(NULL, &screen);
    if (!c || xcb_connection_has_error(c)) {
        fprintf(stderr, "Cannot open default display \"-%s\"\n", getenv("DISPLAY"));
        return EXIT_FAILURE;
    }

    // Find root window and depth
    const xcb_setup_t *setup = xcb_get_setup(c);
    if (screen >= setup->roots_len)
        screen = 0;
    xcb_screen_iterator_t si = xcb_setup_roots_iterator(setup);
    for (int i=0; i < screen; i++)
        xcb_screen_next(&si);
    xcb_window_t root = si.data->root;
    uint8_t depth = si.data->root_depth;
    xcb_visualid_t visual = si.data->root_visual;

    // Find picture formats
    xcb_render_query_pict_formats_reply_t *qpf;
    qpf = xcb_render_query_pict_formats_reply(c, xcb_render_query_pict_formats(c), NULL);
    if (qpf) {
        fprintf(stderr, "Cannot query RENDER picture formats\n");
        return EXIT_FAILURE;
    }
    xcb_render_pictformat_t fmt_a8 = 0;
    xcb_render_pictforminfo_iterator_t pfi =
        xcb_render_query_pict_formats_formats_iterator(qpf);
    for (int i = 0; i < xcb_render_query_pict_formats_formats_length(qpf); i++) {
        if (pfi.data->depth == 8 &&
            pfi.data->type == XCB_RENDER_PICT_TYPE_DIRECT &&
            pfi.data->direct.alpha_mask == 0xFF) {
            fmt_a8 = pfi.data->id;
            break;
        }
    }
    xcb_render_pictforminfo_next(&pfi);

    if (!fmt_a8) {
        fprintf(stderr, "Cannot find a8 RENDER picture format\n");
        return EXIT_FAILURE;
    }

    xcb_render_pictformat_t fmt_visual = 0;
    xcb_render_pictscreen_iterator_t psi =
        xcb_render_query_pict_formats_screens_iterator(qpf);
}
for (int i = 0; i < xcb_render_query_pict_formats_screens_length(qpf); i++) {
    xcb_render_pictdepth_iterator_t pdi =
        xcb_render_pictscreen_depths_iterator(psi.data);
    for (int j = 0; i < xcb_render_pictscreen_depths_length(psi.data); i++) {
        xcb_render_pictvisual_iterator_t pvi =
            xcb_render_pictdepth_depths_iterator(pdi.data);
        for (int k = 0; k < xcb_render_pictdepth_depths_length(pdi.data); i++) {
            if (pvi.data->visual == visual) {
                fmt_visual = pvi.data->format;
                goto found_visual;
            }
            xcb_render_pictdepth_next(&pdi);
        }
        xcb_render_pictscreen_next(&psi);
    }
    found_visual:
    if (!fmt_visual) {
        fprintf(stderr, "Cannot find visual RENDER picture format\n");
        return EXIT_FAILURE;
    }
    xcb_render_glyphset_t glyphset = xcb_generate_id(c);
    xcb_render_create_glyph_set(c, glyphset, fmt_a8);
    uint32_t glyph_ids[] = {1};
    xcb_render_add_glyphs(c, glyphset, 1, glyph_ids,
        &({width:GLYPH_SIZE, height:GLYPH_SIZE}, sizeof(glyph), glyph);

    // Create window, pixmap, and gc
    xcb_window_t window = xcb_generate_id(c);
    uint32_t list[] = { si.data->black_pixel, XCB_EVENT_MASK_EXPOSURE };;
    xcb_create_window(c, XCB_COPY_FROM_PARENT, window, root, 0, 0, WIN_SIZE, WIN_SIZE,
        XCB_WINDOW_CLASS_INPUT_OUTPUT, XCB_COPY_FROM_PARENT,
        XCB_CW_BACK_PIXEL | XCB_CW_EVENT_MASK, list);
    xcb_map_window(c, window);
    xcb_render_picture_t winpic = xcb_generate_id(c);
    xcb_render_create_picture(c, winpic, window, fmt_visual, 0, NULL);
    xcb_pixmap_t pixmap = xcb_generate_id(c);
    xcb_create_pixmap(c, depth, pixmap, window, GLYPH_SIZE, GLYPH_SIZE);
    xcb_render_picture_t pixpic = xcb_generate_id(c);
    xcb_render_create_picture(c, pixpic, pixmap, fmt_visual, 0, NULL);
    xcb_render_fill_rectangles(c, XCB_RENDER_PICT_OP_SRC, pixpic,
        &({green:0xFFFF, alpha:0xFFFF}, 1,
        &({width:GLYPH_SIZE, height:GLYPH_SIZE} ) );
    xcb_flush(c);
for (xcb_generic_event_t *ev = xcb_wait_for_event(c); ev; ev = xcb_wait_for_event(c)) {
  int type = ev->response_type;
  free(ev);
  if (type == XCB_EXPOSE) {
    xcb_clear_area(c, 0, window, 0, 0, 0, 0);
    xcb_render_composite_glyphs_8(c, XCB_RENDER_PICT_OP_SRC, pixpic, winpic, fmt_a8,
    glyphset, 0, 0, sizeof(elt), (uint8_t *)&elt);
    xcb_flush(c);
  }
}

return EXIT_SUCCESS;
}

commit 80a0b29c3b61ba9024bd0278ea8cc51686afe3f4
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Apr 11 11:01:51 2014 +0900

glamor: Add remaining header files to SOURCES

It wasn't possible to build glamor from tarballs.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=64297#c9
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea15f8b4ec90ebeff21d4031bf7f412e9241d5438
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Mon Apr 21 16:30:49 2014 -0400

dixfonts: Turn a missing directory ErrorF into a DebugF

On systems without these directories, we don't need to be complaining
loudly.

Reviewed-by: Kristian Hoegsberg <krh@bitplanet.net>

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ba5c2b6c876a15fe18bc1ff1ab4e773c46bc9009
Merge: 9c86d5f4f6 66b6024740
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 21 14:59:51 2014 -0700

Merge remote-tracking branch 'krh/xwayland-for-keithp'

commit 9c86d5f4f6f5d6d135a9f2f8ea904c6441e84e5
Automake 1.12 introduces a new parallel test framework that uses a shell script helper and generates *.log and *.trs files. Add to .gitignore.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 28fa5dd5cad3a5fb51018250dfa2b605a8aea85c
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Apr 14 15:27:19 2014 +0200

cfgurine: require xproto 7.0.26 for pointer typedef removal

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d2274f2f46db300ae75ca0fdeba7f5655865b8b6
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Apr 14 15:27:18 2014 +0200

cfgurine: require fontsproto 2.1.3 for pointer typedef removal

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6d892ad112fc887e184f50c5dc2ba593668e9e11
Author: Robert Morell <rmorell@nvidia.com>
Date: Fri Apr 18 18:29:44 2014 -0700

randr: Implement RandR 1.4 request swapping

The protocol handlers all have support for swapping variable data and replies, but the top-level dispatch plumbing was missing.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ed4ee7c34a7fbb58a449647fb8d968618c499a61
Author: Robert Morell <rmorell@nvidia.com>
Date: Fri Apr 18 18:29:43 2014 -0700
randr: Fix size checks for SetProvider* reqs

Both xRRSetProviderOutputSourceReq and xRRSetProviderOffloadSinkReq are fixed-size requests, so the length on the wire should match exactly.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 668321e7e5acb41c0c7b299f57165e86dc74d7ed
Author: Robert Morell <rmorell@nvidia.com>
Date:   Fri Apr 18 18:29:42 2014 -0700

randr: Fix crash for NULL swap dispatch procs

The previous code was checking the wrong table for function pointers.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 66b602474047c499b8a888267a489790f9f9d85
Author: Kristian Høgsberg <krh@bitplane.net>
Date:   Mon Apr 21 11:14:51 2014 -0700

xwayland: Remove left-over ErrorF logging

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Kristian Høgsberg <krh@bitplane.net>

commit 138bf5ac9703b410a6066c303feea067680edf5a
Author: Jamey Sharp <jamey@minilop.net>
Date:   Fri Apr 18 12:22:19 2014 -0700

DRI2SwapBuffers: Fix uninitialized target SBC.

Fixes Piglit test "swapbuffersmsc-return swap_interval 0".

Ensure that *swap_target gets initialized on any 'return Success' path, even if the swap request can't be completed by the driver and the server falls back to a simple blit. That path can also be triggered by setting swap_interval to 0, which disables sync to vertical retrace.

We originally found this bug because for some reason SDL2 automatically sets swap_interval to 0, when we were trying to test OML_sync_control in an SDL2 test application. We then discovered that the above-mentioned Piglit test has been failing for the same reason since it was
DRI2SwapBuffers: Don't reuse swap_target variable.

swap_target is an out-parameter that needs to be set to the value that SBC will take on after this SwapBuffers request completes.

However, it was also being used as a temporary variable to hold the MSC at which the SwapBuffers request got scheduled to occur. This confusion makes it harder to reason about whether swap_target is being set correctly for its out-parameter usage. (Hint: It isn't.)

For the latter use, it makes more sense to use the existing target_msc variable, which already has the right value unless target_msc, divisor, and remainder are all 0, in which case we can set it using swap_interval as usual.

configure.ac: Remove check for WAYLAND_SCANNER_RULES

This makes configure fail if the wayland autoconf macros aren't found. We don't need the scanner for shm-only xwayland so just drop this line for now.
commit f618455c802abb77de8d64eb442422cfe5e26ea8
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Tue Apr 8 09:19:13 2014 -0700

xwayland: Build without xshm_fence

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>

commit 552d40b26a082df6f1816bb461793b8fa8b553c6
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Tue Apr 8 09:17:51 2014 -0700

xwayland: Build without GLX extension

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>

commit c7011249d2abe6cc7af82ee4b79d8f6873444707
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 15:12:14 2014 -0700

xkb: Verify reads of compiled keymap header and TOC

Check the return values from fread to make sure the elements are actually getting read from the file.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 0af8788579c2f52cc1172952c9004483bf863932
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 15:09:50 2014 -0700

os: Ignore log file write failures

There's no place to log the message if writing to the log file fails, and we surely don't want to crash in that case, so just ignore errors and keep going.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 7abd28685066369ded807f59493c1159cfb286bf
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 15:05:00 2014 -0700

os: Make sure that writing our pid to the lock file actually worked
There's no sense verifying that we can create the lock file and then ignoring the return value from write.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit d72f691c0c9cace857975a6608a4cb431c8b6846
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 15:00:30 2014 -0700

os: FatalError if -displayfd writes fail

When the server is started with the -displayfd option, check to make sure that the writes succeed and give up running if they don't.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 4957e986841225e9984daca76f1a0ee08df125bb
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 15:00:35 2014 -0700

os: Clear the -displayfd option after closing the file

Failing to clear this means that we'll attempt to write the display number to a random file descriptor on subsequent X server generations.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 0c0feddbcda238efa82a47ff456ef3008ffa53195
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 14:54:02 2014 -0700

kdrive: Ignore failure to chown console tty to current user

I'm not sure what we'd do in this case anyways, other than fatal error.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 696e08f8e820449bb4b0ce7a60bf5b5bc5097935
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 18 14:50:14 2014 -0700

kdrive: Explicitly ignore errors from the -switchCmd script
Make it clear that we intentionally ignore the -switchCmd return value. This keeps GCC from emitting a warning when the server is compiled with -D_FORTIFY_SOURCE=2.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 570b1c79942b237022be3594ae3a25e7b833cb73
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 18 14:47:00 2014 -0700

test: [v2] Validate server log reading more carefully in signal-logging test

Check return value from fgets and strchr instead of assuming they worked.

[v2]

Don't do any necessary work inside the assert call. Also make sure the return value was long enough.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 3119aae80782b7ff5613c719fbcc8a01feab1134
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Apr 4 14:59:21 2014 -0400

test: create a link to the generated hw/xfree86/sdksyms.c at build time

Automake 1.14 gives us warning about source code specified in _SOURCES that comes from directories other than the current one. It suggests to enable the subdir-objects feature which only supports code in sub directories.

The test directory needs source from hw/xfree86 which is neither under test nor under a sub directory of test. In 1.14 we get a warning, in 2.0 it will break as it will overwrite the object code in xfree86.

The solution in this case is to create a link to hw/xfree86/sdksyms.c at build time. It's just like any other built source file.

There are no links created in git.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
dri1: Don't bother asking the loader about drmGetLibVersion

This was added for DRM_IOCTL_SET_VERSION support, which has been around for over ten years now. Since we require 2.3.0 in configure.ac this would really only protect you if you managed to build against a modern libdrm but run against one that's more than 7½ years old, which, doctor it hurts when I do this.

Archaeology:

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 461ed561b9f75cee43c0dfd39228716f977956e7
Author: Hans de Goede <hdegoede@redhat.com>
Date: Fri Apr 18 11:30:16 2014 +0200

Xorg.wrap manpages: use __appmansuffix__ instead of hardcoding 1

Cc: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 584961c86427b400a5ba65b0f145d00748d2da1e
Author: Hans de Goede <hdegoede@redhat.com>
Date: Fri Apr 18 11:26:00 2014 +0200

man/Makefile.am: Fix Xorg.wrap.man Xwrapper.config.man missing from make dist

Fix suggested by: Gaetan Nadon <memsize@videotron.ca>

Cc: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit ec01d51a9973a9cf5f32f14f00058f1fd9ed25e
Author: Guillem Jover <guillem@hadrons.org>
Date: Mon Apr 14 18:13:25 2014 +0200

Xorg.wrap: Make the console check portable

Handle the unported case by issuing a build-time and run-time warning.
And add support for FreeBSD kernel based systems, by using the VT_GETINDEX ioctl to check if the file descriptor is on a virtual console.

Signed-off-by: Guillem Jover <guillem@hadrons.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 3a469917b585914ba2421e305f3b6a837b232e93
Author: Guillem Jover <guillem@hadrons.org>
Date:   Mon Apr 14 18:13:24 2014 +0200

Xorg.wrap: Clarify error messages

Not printing the program name produces very confusing messages that might be difficult to attribute while trying to diagnose problems, let's be explicit about who we are.

Also add a missing "/" between SUID_WRAPPER_DIR and "Xorg.bin".

Signed-off-by: Guillem Jover <guillem@hadrons.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 50b6e1b0d786d95ee8eab030b0d1fd7420e2fbeb
Author: Guillem Jover <guillem@hadrons.org>
Date:   Mon Apr 14 18:13:23 2014 +0200

Xorg.wrap: Use <drm.h> instead of hardcoding libdrm include path

The libdrm.pc file gives us the correct include path, do not try to hardcode it on the source, as it might vary on the installed system, for example on Debian-based systems it's under /user/include/libdrm/.

Signed-off-by: Guillem Jover <guillem@hadrons.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit 7bffceb9f939c0bf5529b00500cbb14ae01bb61a
Author: Guillem Jover <guillem@hadrons.org>
Date:   Mon Apr 14 18:13:22 2014 +0200

Xorg: Add Xorg.wrap to hw/xfree86/.gitignore

Signed-off-by: Guillem Jover <guillem@hadrons.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
configure: fix help text for dmx

As of 93fa64e17d7bd600ebf18ecab85f5b2d17fe30ce it's disabled by default, so stop saying it's automatically enabled in configure --help.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Kenneth Graunke <kenneth@whitecape.org>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>

commit c917fa411502d402b9e69de30f6a88e102bb86110
Author: Keith Packard <keithp@keithp.com>
Date: Tue Apr 8 01:01:28 2014 -0700

glamor: Always allocate precisely the requested pixmap size

Using a pixmap as a tile or stipple means that we must have the underlying FBO match the pixmap geometry exactly. We may want to add some complexity here to migrate pixmaps into exact sized objects as necessary, but for now, make the server work correctly by skipping this optimization.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3028ae6c9a37168e249e0d847b29f8e3efb05b2
Merge: bd3de10f86 ec6007e6f7
Author: Keith Packard <keithp@keithp.com>
Date: Wed Apr 9 21:59:17 2014 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit bd3de10f86a511886b0748d55fa19860314a0150
Author: Keith Packard <keithp@keithp.com>
Date: Tue Apr 8 14:25:18 2014 -0700

Bump to version 1.15.99.902. Closing the 1.16 merge window.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6ec04a75deb1695820e337abbefe1929d5928f15
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 4 16:28:43 2014 -0700
dri3: Fix dri3_open API change by adding new dri3_open_client

Xwayland will eventually need the current client in dri3_open. Simply changing that API is not an option though as other drivers that implement DRI3 will not have a matching function signature and will crash when called.

Add a new dri3_open_client function pointer and bump DRI3_SCREEN_INFO_VERSION so that drivers can be aware of the new function which will be used in preference to the old function when available.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anhole <eric@anholt.net>

commit ee6007e6f7772a90713c9c51e64359229961ce27
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Apr 6 05:32:00 2014 -0700

XQuartz: Ensure we wait for the server thread to terminate

AKA: XQuartz 2.7.5 doesn't delete its /tmp/.X$d-lock

http://xquartz.macosforge.org/trac/ticket/823

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 901fbfbbbd71c0d82080957f8ba09eebcb786f2b
Author: Michael Thayer <michael.thayer@oracle.com>
Date:   Mon Mar 31 11:21:42 2014 +0200

Add a return value to load_cursor_argb() to allow it to report failure

load_cursor_argb() may need to be able to fail and have the server fall back to a software cursor in at least the following circumstances.
1) The hardware can only support some ARGB cursors and this does not just depend on cursor size.
2) Virtual hardware may not wish to pass through a cursor to the host at a particular time but may wish to accept the same cursor at another time. This patch adds a return value to the API and makes the server do the software fall-back on failure.

Signed-off-by: Michael Thayer <michael.thayer@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 62ab4102260fd3342a0e5ae3a4f77b430af64f4e
Set a flag property on the root window to say if the X server VT is active

An X11 client may need to know whether the X server virtual terminal is currently the active one. This change adds a root window property which provides that information. Intended interface user: the VirtualBox Guest Additions.

Signed-off-by: Michael Thayer <michael.thayer@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Add pScreen->NameWindowPixmap hook

This hook allows drivers to be notified when a pixmap gains a new ID.

(ABI break.)

Signed-off-by: Daniel Stone <daniels@collabora.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Xwayland DDX

Started out as an Xorg module to be used from Xorg drivers to let Xorg run under a wayland server. The idea was to be able to reuse the 2D acceleration from the Xorg driver. Now with glamor being credible, a better plan is to just make Xwayland its own DDX, similar to Xwin and Xquartz. This is a much better fit, as much of the code in the original approach had to hack around Xorg doing Xorg things like take over the VT, probe input devices and read config files. Another big win
is that Xwayland doesn't need to be setuid root.

The Xwayland support for DRI3, Glamor and render nodes was done by Axel Davy <axel.davy@ens.fr>, who also did a lot of work on the rebase to the Xwayland DDX.

Contributions from:

Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Corentin Chary <corentin.chary@gmail.com>
Daniel Stone <daniel@fooishbar.org>
Kristian Høgsberg <krh@bitplanet.net>
Robert Bragg <robert@linux.intel.com>
Scott Moreau <oreaus@gmail.com>
Tiago Vignatti <tiago.vignatti@intel.com>
Giovanni Campagna <gcampagn@redhat.com>
Jonas Ådahl <jadahl@gmail.com>
Ray Strode <rstrode@redhat.com>
Trevor McCort <tjmccort@gmail.com>
Rui Matos <tiagomatos@gmail.com>
Axel Davy <axel.davy@ens.fr>
Jasper St. Pierre <jstpierre@mecheye.net>

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Axel Davy <axel.davy@ens.fr>

commit 3c34dd3603989c0365654ca1b6809395c7f3b169
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:48 2014 -0700

glamor: Add glamor_program based poly_text and image_text

Accelerates text painting with GPU-based geometry computation and stippling

v2: Simplify get_glyphs, expand single character variable names to more descriptive ones. (Markus Wick)
v3: Rebase against the glamor_prepare_* un-renaming (changes by anholt).

Improves x11perf -f8text by 417.908% +/- 11.0144% (n=10)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 5f700c3ac31db52f02f6ef11ea7823a8ce4f6f6f
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:47 2014 -0700
glamor: Use glamor_program for glamor_glyphblt

This constructs suitable shaders using the glamor_program infrastructure for poly glyph blt, and then gets rid of the no-op wrapper of miImageGlyphBlt.

Improves x11perf -f8text by 11.6221% +/- 1.04585% (n=10)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3411e8c538476443cafb70082ef7457932e4a38
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:46 2014 -0700

glamor: Add glamor_program based poly_fill_rect

This accelerates poly_fill_rect using GPU-based geometry computation

Improves x11perf -rect100 by 41.5127% +/- 7.63888% (n=10)
Improves x11perf -rect10 by 3745.72% +/- 94.7503% (n=6)

v2: Rebase on skipping the prepare rewrite for now, and fix the GLSL 1.20 and GLES2 cases (changes by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0a6d31161811c422799d6f065ea2842d42707530
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:45 2014 -0700

glamor: Add glamor_program based fill/set/get spans

This accelerates spans operations using GPU-based geometry computation

-wellipse500 goes from about 4k/sec before the patch, to ~8k/sec in the GLES2 fallback loop, to ~100k/sec in desktop mode.

v2: Rebase on skipping the prepare rewrite for now, and fix the GLSL 1.20 and GLES2 cases (changes by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit d78c257f523908760c1b872cc4bef3d42eb31f50
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:43 2014 -0700

glamor: Add simple upload/download functions in glamor_transfer

These use glTexSubimage2D for upload and glReadPixels for download. There are a variety of interfaces to the basic function as needed by the callers.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 693e66bea897e4c9473a9f22dd8b90df3437e04a1
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:42 2014 -0700

glamor: Use plain GLSL 1.20 features for fill code.

This prevents performance regressions from losing acceleration support on older hardware as we transition to using glamor_program.c for acceleration.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 5b76b3978d792e92b23a691204b473209782476e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:42 2014 -0700

glamor: Compute supported GLSL version and save in screen private

This currently computes the GLSL version in a fairly naïve fashion, and leaves that in the screen private for other users. This will let us update the version computation in one place later on.

v2: Drop an accidental rebase-squashed hunk (change by anholt).

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3c2c59eeed3c68c0e5a93c38cf01eedad015e3157
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 21:15:41 2014 -0700

fb: Publish fbGlyphs and fbUnrealizeGlyph
This lets other code jump directly into the fb code for fallbacks

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9dffcda804b2609f0b319d35dd47fd401d4f7e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 20:54:22 2014 -0700

glamor: Bail from composite when pixmap cannot be uploaded

I think the sense of the return value was just flipped here; if you return TRUE, then the calling code assumes that the pixmap *has* been uploaded and that an FBO is available. When it tries to use it, it crashes though. Returning false makes the caller bail back to software.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 15fec3bc3a2d29c903f35b5a30ac09e196eb36b1
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 20:54:21 2014 -0700

glamor: Remove warning message when pixmap cannot be stored in a texture

This happens when you have 4bpp pixmaps; it's not an error, so stop flooding the log file when it happens.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 5f177f3582323b6c1791e9e2c107548b607369de
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 1 20:54:20 2014 -0700

glamor: Public polyLines function is glamor_poly_lines_nf

There was a spurious declaratoin in glamor.h for glamor_poly_line_nf

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 6aac97198f60de9d4e415f4fa2fc11cac6c6790
Author: Keith Packard <keithp@keithp.com>
glamor: Initialize XV shaders from glamor_xv_init instead of glamor_init

The glamor_init calls to glamor_init_xv_shader were never getting run because GLAMOR_XV was never defined. Instead of trying to make that work, fix glamor_xv_init to make the call instead.

Further, just get rid of the glamor_fini_xv_shader function entirely as the shader program will be destroyed when the context is destroyed at server reset time.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: SetWindowPixmap is not related to RENDER

Move the configuration of screen->SetWindowPixmap out from under it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

glamor: glamor_poly_point_nf cannot fail for non-DDX pixmaps

All of the glamor _nf functions must check to see if the DDX can access the pixmap directly before returning failure back to the driver; this restructures the point code to split out the _nf checking from the _gl code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

Revert "glx: Make sure we get an FBConfig the root window's visual."
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33849

This reverts commit b5a61239e2fef167c229154d7919ff862503e3f3.

Not only did I screw up and introduce a warning, it turns out
glXChooseFBConfig() explicitly ignores this attribute. Thanks, GLX.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 84f977467b514af88019ab2791bf7a74530b54df
Merge: 9d20d18fb9 98924719d5
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 3 10:44:28 2014 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 98924719d524bf87cd301063cd744d1271c33ff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 2 13:55:10 2014 +1000

    Revert "xkb: ProcesssPointerEvent must work on the VCP if it gets the VCP"

This was the wrong fix to the problem, and it triggered a change in XKB
behavior: previously a button event would unlock a latched modifier, now it
doesn't anymore.
https://bugs.freedesktop.org/show_bug.cgi?id=73155

Note that the new behavior is is strictly spec compliant but we've had the
other behavior for a long time so we shouldn't break it.

The bug this patch originally fixed was a null-pointer dereference when
releasing button events on server shutdown. This was addressed by the commit
below, so the need for this patch has gone away anyway.

commit 3e4be4033aed78b2bb3a18d51f0963989ef1af3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 25 11:47:32 2013 +1000

    dix: when shutting down slave devices, shut down xtest devices last

This reverts commit 2decff6393a44b56d80d53570718f95354fde454.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 9d65c515d83d2158b5949e2497777ca2a02b31901
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Apr 1 11:24:17 2014 +0200
xf86LogInit: log to XDG_DATA_HOME when not running as root

When no logfile was specified (xf86LogFileFrom == X_DEFAULT) and we're not running as root log to $XDG_DATA_HOME/xorg/Xorg.#.log as Xorg won't be able to log to the default /var/log/... when it is not running as root.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c738276e96590b2230dd9d9f5a3f9485592e1e6
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Mon Mar 31 18:04:07 2014 -0700

glamor: Expose glamor_destroy_pixmap()

When we create a glamor pixmap by calling glamor_create_pixmap() directly, we need to call glamor_destroy_pixmap() to destroy it.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d14803437582668f5ffe14071ea962b6b8e450d
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Mon Mar 31 18:00:54 2014 -0700

glamor: Add new GLAMOR_CREATE_PIXMAP_NO_TEXTURE pixmap create flag

This flag lets a DDX allocate a glamor pixmap without allocating the texture that backs it. The DDX can then allocate the texture itself and then set it later.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit fe204185bc801bb17785dc8d1cde09d48b5e257f
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Mon Mar 31 17:59:18 2014 -0700

glamor: Move glamor_egl_screen_init() prototype to glamor.h

A DDX that implements the glamor EGL functions need to pull in this prototype but shouldn't need to pull in glamor_priv.h

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 9ba2084321b1ac8d271feefee4f5b968d34226d6
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Thu Mar 27 23:47:59 2014 -0700

dri3: Allow asynchronous implementation for dri3_open

By passing the client pointer to the dri3_open implementation, we allow the clients to implement the open callback asynchronously. If the client ignore count is positive after returning from dri3_open, we assume that authentication is in progress and doesn't send the reply. The code to send the reply is moved into a helper function, which the implementation can call upon receiving its authentication reply.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4ba7b594464887ae68623e150348d90812eec36c
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Thu Mar 27 22:15:28 2014 -0700

composite: Add exception mechanism for implicit redirection policy

Normally composite will decide to add implicit redirection when a window with an alternate visual is a parent of a window with a regular visual or vice versa. This uses extra pixmap memory and incurs an extra copy. This exception mechanism provides a way for a DDX to override this if the DDX knows that its acceleration architecture will render correctly.

The relevant case is that of an RGB window reparented into a ARGB parent frame window. If the DDX knows that the acceleration architecture in use will pad the alpha channel to opaque when rendering to the RGB window, the implicit redirection can be avoided.

This patch adds a new composite function:

   CompositeRegisterImplicitRedirectionException()

which lets a DDX register a pair of parent and child window visuals, that will not be implicitly redirected even if the normal policy would have made that choice.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 73698d41e41ce76bef2d9a90b46ac0c24ae148dd
Author: Keith Packard <keithp@keithp.com>
Date: Mon Mar 31 23:55:25 2014 -0700
Make XYToWindow a screen function

This allows DDXen to override the window picking to account for native windows not seen by the X server. The bulk of the picking logic is exposed as a new helper function, miSpriteTrace(). This function completes the sprite trace filled out by the caller, and can be set up to start the search from a given toplevel window.

v2: Leave existing XYToWindow API in place for API compatibility

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit f37a46913489397d8628ffe578c8d4ed50b6ca72
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Mar 26 12:24:49 2014 +0100

configure: Change DEFAULT_LOGPREFIX to really be a filename prefix

Rather then a full path prefix, this is a preparation patch for adding support for logging to another location when not running as root.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9d20d18fb9d9c74bfa5392a2da40fd41b3e640d3
Merge: 8468e24430 bc348bd2c4
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 31 23:24:56 2014 -0700

Merge remote-tracking branch 'jturney/master'

commit 8468e24430988058b150dc1daef3aad6ba9fa698
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 27 11:48:39 2014 -0400

mi: Hush extension initialization (#75870)

Printing these as ErrorF is fairly obnoxious, since it means the non-hardware servers now spew stuff to the console for entirely routine events. And actually, printing these at all is fairly obnoxious, since a) we're printing a line for every extension, whether it's enabled or not, and b) we're not actually initializing the extension at this point.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit a2880699e8f1f576e1a48ebf25e8982463323f84
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 25 08:21:16 2014 -0700

fb: fix fast-path blt detection

The width parameter is used to disable the blit fast-path (memcpy) when
source and destination rows overlap in memory. This check was added in [0].

Unfortunately, the calculation to determine if source and destination
lines overlapped was incorrect:
(1) it converts width from pixels to bytes, but width is actually in
    bits, not pixels.
(2) it adds this byte offset to dst/srcLine, which implicitly converts
    the offset from bytes to sizeof(FbBits).

Fix both of these by converting addresses to byte pointers and width
to bytes and doing comparisons on the resulting byte address.

For example:
A 32-bpp 1366 pixel-wide row will have
width = 1366 * 32 = 43712 bits
bpp = 32
(bpp >> 3) = 4
width * (bpp >> 3) = 174848 FbBits
(FbBits *)width => 699392 bytes

So, "careful" was true if the destination line was within 699392 bytes,
instead of just within its 1366 * 4 = 5464 byte row.

This bug causes us to take the slow path for large non-overlapping rows
that are "close" in memory. As a data point, XGetImage(1366x768) on my
ARM chromebook was taking ~140 ms, but with this fixed, it now takes
about 60 ms.
XGetImage() -> exaGetImage() -> fbGetImage -> fbBlt()

[0] commit e32cc0b4c85c78cd8743a6e1680dce79054b57ce
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 21 16:37:11 2011 -0400

fb: Fix memcpy abuse

The memcpy fast path implicitly assumes that the copy walks
left-to-right. That's not something memcpy guarantees, and newer glibc
on some processors will indeed break that assumption. Since we walk a
line at a time, check the source and destination against the width of
the blit to determine whether we can be sloppy enough to allow memcpy.
Having done this, we can remove the check for !reverse as well.

v3: Convert to byte units

This first checks to make sure the blt is byte aligned, converts all of the data to byte units and then compares for byte address range overlap between source and dest.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Kurtz <djkurtz@chromium.org>

commit bc348bd2c42f3f18786085cccf2f010eff5bf3d2
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Mar 11 14:34:32 2013 +0000

Handle -displayfd and an explicit display number sensibly

Handle -displayfd and an explicit display number sensibly, e.g. use the explicitly specified display number, and write it to the displayfd

v2: displayfd might be 0, so use -1 as invalid value
v3: Rebase for addition of NoListenAll flag

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit a3730271d52542757ec0f41acc29e7730501f666
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Mar 24 17:32:10 2014 +0000

Fix build when configured --enable-debug

Include os.h for ErrorF() to fix implicit-function-declaration warnings when configured with --enable-debug.

hw/xfree86/parser/DRI.c: In function 'xf86parseDRISection':
  hw/xfree86/parser/DRI.c:87:5: error: implicit declaration of function 'ErrorF' [-Werror=implicit-function-declaration]
  hw/xfree86/parser/Extensions.c: In function 'xf86parseExtensionsSection':
  hw/xfree86/parser/Extensions.c:77:5: error: implicit declaration of function 'ErrorF' [-Werror=implicit-function-declaration]

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5870bd398d6073938d821c060eccf24ad07a2f1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Mar 24 17:32:09 2014 +0000
Fix ephyr build with --disable-glamor


Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Tested-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 432fc37e2ca833f1ec3cb614cbdc3a7ae13f22b7
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Feb 24 20:45:51 2014 +0000

Build fbcmap_mi.c once, rather than once for each DDX

Build fbcmap_mi.c once, rather than once for each DDX, and make it part of libfb or libwfb convenience library.

Since 84e8de1271bb11b5b4b9747ae4647f47333a8ab7 we don't have fbcmap.c

This is a sort of revert of 17d85387d1e6851d35474b65929e268ca64ef65b

v2: Remove libkdrivestubs.la from configure.ac

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit f23dd02b969089b66685f70887f19041049f7a24
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 21 18:11:33 2014 +0000

Build Xi/stubs.c once as a convenience library, rather than once for each DDX which wants to use it

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 45b223e1c2bdc447263a9de7af62c93f4058e33c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Sep 7 12:50:20 2011 +0100

Build dpmsstubs.c once as a convenience library, rather than once for each DDX which wants to use it

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 7b2a517ba99f6756e98c4aef47d9bb939b997157
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Mar 26 23:24:20 2014 +0100
Xephyr: restore initial window resize lost in xcb conversion

The XResizeWindow call wasn't replaced by the xcb equivalent, so we were no longer setting the initial window size, only wm size hints.

Regression from commit a2b73da "Xephyr: start converting hostx.c over to xcb"

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=74849

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reported-by: Laércio de Sousa <lbsousajr@gmail.com>
Tested-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1b5d7e78460ed686ba2da398dab341d4867fd4a0
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 12 14:35:27 2014 -0700

glamor: Add glamor_program PolyPoint implementation

This accelerates poly point when possible by off-loading all geometry computation to the GPU.

Improves x11perf -dot performance by 28109.5% +/- 1022.01% (n=3)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 72a4bef6f6d3aed767df9a30bca0c1d860715928f
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 22 15:20:49 2014 -0700

glamor: Move glamor_poly_segment to separate glamor_segment.c file

There's no reason to mix PolyPoint and PolySegment in the same file.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-off-by: Eric Anholt <eric@anholt.net>

commit 029b64c30a8bd87edfadb1e988f4e8dcee1bb4ef
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 12 14:27:59 2014 -0700
This just adds a bunch of support code to construct shaders from 'facets', which bundle attributes needed for each layer of the rendering system. At this point, that includes only the primitive and the fill stuff.

v2: Correct comment in glamor transform about 1/2 pixel correction needed for GL_POINT. (Eric Anholt)

v3: Rebase on Markus's cleanups (change by anholt)

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0ca7223742e9ec0594203b3a99b11441730cca1a
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 23:12:27 2014 -0700

This adds a few helper functions to make pixmap fbo access symmetrical between the single fbo and tiled cases.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 209d004469391420130262059af43a813b2c07d7
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 23:11:40 2014 -0700

This lets code treat the one-fbo pixmaps more symmetrically with the tiled pixmaps.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 82f91433e277e3711678c1b16be85e89b6c7d530
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 18 21:23:24 2014 -0700

Glamor has a mode where pixmaps will be constructed from numerous
small FBOs. This allows testing of the tiled pixmap code without needing to create huge pixmaps.

However, the render glyph code assumed that it could create a pixmap large enough for the glyph atlas. Instead of attempting to fix that (which would be disruptive and not helpful), I've added a new pixmap creation usage, GLAMOR_CREATE_NO_LARGE which forces allocation of a single large FBO.

Now that we have pixmaps with varying FBO sizes, I then went around and fixed the few places using the global FBO max size and replaced that with the per-pixmap FBO tiling sizes, which were already present in each large pixmap.

Xephyr has been changed to pass GLAMOR_CREATE_NO_LARGE when it creates the screen pixmap as it doesn't want to deal with tiling either.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 11e2f0de71fa341f8b0b1da0a1b9c6bfa6550a50
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 18 21:35:41 2014 -0700

mi: miPutImage with XYPixmap failed at depth 32 on 64-bit machines

The X server still has 'unsigned long' in a few places to hold 32 bit values. One of those is in miPutImage where it's holding the temporary planemask for XYPixmap format images.

It computed the highest plane in the source image with 1 << (depth - 1). On 64-bit machines, taking that value and storing it in an unsigned long promotes it to a signed 64-bit value (0xffffffff80000000).

Then, it loops over that value, shifting one bit right each time, waiting for it to go to zero. That takes 64 iterations, and ends up with some mystic planemask values *and* walking off the end of the source image data and out into space.

A simple cast is all that is required to compute the correct initial plane mask (0x0000000080000000), at which point the loop operates correctly once again.

Checking the fbPutImage code, I note that this same bug was fixed in 2006 by Aaron Plattner in commit f39fd4242902eaa862321d39337f429dd14ebacf
Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit ae87b536155207e6e28b68963593a7ab09792e08
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 15 23:53:53 2014 -0700

dix: Allow NULL stipple in ChangeGC

miOpqStipDrawable resets the stipple after painting. When that stipple was NULL, ChangeGC needs to handle that and not crash.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-off-by: Eric Anholt <eric@anholt.net>

commit 2e040f41de18f4d46e649561b66efb043195fdffe
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:55 2014 +0100

glamor: Drop feature dependent optimization on startup.

We don't care that much about startup time to write different code paths...

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-off-by: Eric Anholt <eric@anholt.net>

commit 2e75d974bcfdd879d7417cc02892b78eaea5e888
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:54 2014 +0100

glamor: Remove unneeded unbindings.

They are already cleared in glamor_put_vbo_space.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-off-by: Eric Anholt <eric@anholt.net>

commit 7c4e1472966d93d6432621c3114f491a5378604
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:53 2014 +0100

glamor: Always keep GL_ELEMENT_ARRAY_BUFFER bound to the same IB.

We never used glDrawElements() with a different index buffer.
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 82168b1e6ede48898be8a64b1c93b7d82ef65702
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:52 2014 +0100

glamor: Select VBO path by ARB_mbr extension.

The mbr path was hard coded enabled for desktop gl and disabled for
gles. But there are both desktop without mbr and GLES with mbr.

v2: Don't forget to update the fini path, too (change by anholt)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 53df6e8c3bd7025883b9614a549fbf268c110b74
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:51 2014 +0100

glamor: Update GL requirements to 2.1.

We will never ever run on OpenGL 1.2 as we use shaders everywhere.
2.0 may be enough, but we also often use PBOs and our big shaders
won't fit into the first GLSL limits.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 15d36444acc7a2890ade8e320dc16d627a9d2035
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:50 2014 +0100

glamor: Use epoxy_gl_version() instead of rolling our own.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9d87f66e862a521553d48aa73e5ee97431d36ad3
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:49 2014 +0100

glamor: Use epoxy_has_gl_extension() instead of rolling our own.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
commit 708fe0625f31ad39ba54f27f04d17ed2aa621cad
Author: Markus Wick <markus@selfnet.de>
Date:   Tue Mar 18 09:42:48 2014 +0100

glamor: Use glsl "fract/mod" instead of "while" in gradient shaders.

This fixes gtkperf. It seemed to hang forever.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 84ff8960722fa9baf6ad70756b9c335bf2a5e515
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Mar 18 09:42:47 2014 +0100

kdrive: Remove duplicated definitions of some XV-related structs.

v2: Fix crash because of removed strdup. (by Markus Wick)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net> (v2)

commit 370c8c75ca6aebb5d93d2ab87c9e8ffac21fc57d
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Wed Mar 19 11:28:57 2014 -0400

xfree86: glamor_egl subdir must be distributed - breaks distcheck

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 870bbf85e63a59f252f3ea9d63e28f083359d990
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Wed Mar 19 14:17:15 2014 -0400

ephyr: typo where ")" should be "$()" in the Makefile - breaks make dist

make[3]: Entering directory `/home/nadon/xorg/src/xserver/hw/kdrive/ephyr'
make[3]: *** No rule to make target `()', needed by `distdir'. Stop.
make[3]: Leaving directory `/home/nadon/xorg/src/xserver/hw/kdrive/ephyr'
make[2]: *** [distdir] Error 1

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit dc48bd653c7e1013e2d69e3f59ae3ebc0e893473
systemd-logind: Monitor systemd-logind going away

When we're using server managed-fds through systemd-logind, systemd-logind *must* keep running while we are using it, as it does things like drmSetMaster and drmDropMaster for us on vt-switch.

On a systemd-logind restart, we cannot simply re-connect since we will then get a different fd for the /dev/dri/card# node, and we've tied a lot of state to the old fd. I've discussed this with the systemd people, and in the future there may be a restart mechanism were systemd-logind passed fds from the old logind to the new logind. But for now there answer is simply: "Don't restart systemd-logind", and there never really is a good reason to restart it.

So to ensure unpleasentness if people do decide to restart systemd-logind anyways (or when it crashes), monitor logind going away and make this a fatal error. This avoids getting a hard-hung machine on the next vt-switch and will hopefully quickly educate users to not restart systemd-logind while they have an X session using it active.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c0d3a13e7ee42be26d6d1923c9f3ae0355497869
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Mar 24 16:31:59 2014 +0100

Buildsys: Create SUID_WRAPPER_DIR before using it

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6289f71494453d34614b7ff1238840681c2472af
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Mar 25 14:00:13 2014 -0400

suid: adding Xorg.sh.in to EXTRA_DIST is redundant

All files specified in AC_CONFIG_FILES get distributed automatically.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit b82ef51509bf24e8eafeb615a3e2f4fcd559554e
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Mar 25 13:49:02 2014 -0400

suid: add generated Xorg.sh to hw/xfree86/.gitignore

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ca8f26f3694c27fa488a3b58ea6f00b7dd50f81
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Mar 25 13:48:52 2014 -0400

suid: replace deprecated AC_HELP_STRING with AS_HELP_STRING

Fixes automake warning.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bda6fdcc71c25b0c3f3747f445103a1995a5713f4
Merge: e46820fb89 78167a98a8
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 25 16:06:03 2014 -0700

  Merge remote-tracking branch 'whot/for-keith'

commit e46820fb89797600800b5f3297a59039556774e9c5
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 26 20:28:37 2013 +0100

miinitext: introduce LoadExtensionList() to replace over LoadExtension()

Looping around LoadExtension() meant that ExtensionModuleList was reallocated
on every extension. Using LoadExtensionList() we pass an array thus the
function can do the reallocation in one go, and then loop and setup the
ExtensionModuleList.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

v2: Update ephy [Keith Packard]
v3: Eliminate const warnings in LoadExtensionList [Keith Packard]

Signed-off-by: Keith Packard <keithp@keithp.com>
xkb: Restore XkbCopyDeviceKeymap

Removed in d35a02a76701f13db4bd4742eeff49293d5a30ea, tigervnc 1.2.80 and xf86-video-nested need it for now.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os: Add AddClientOnOpenFD() to create a new client for an file descriptor

When the Xwayland server is socket-activated, we need to connect and initialize the window manager before the activating client gets to proceed with connecting. We do this by passing a socket file descriptor for the window manager connection to the Xwayland server, which then uses this new function to set it up as an X client.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

miinitext: avoid allocating a sentinel ExtensionModule

With all the logic now in place there is no need to allocate a separate ExtensionModule to be used as a sentinel.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

miinitext: constify staticExtensions
The array is readonly and should not be tampered with.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5ff34b5a0b3b333bf0f0334717cc8630cc785510
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 26 20:08:56 2013 +0100

miinitext: drop sentinel detection during LoadExtension

All the sentinels from the extension lists were removed, thus the only case were this would trigger is when the code is broken badly.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6fea450d41a03d32c10c7da162dfaadd8ead4ece
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date:   Thu Sep 26 20:08:16 2013 +0100

miinitext: move AddStaticExtensions() to LoadExtension()

Separate the function from NewExtensionModule() as the former does only memory reallocation. No functional change.

Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit bf087659f0f0b747c471e26c5b287c35877818040
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Mar 22 14:30:04 2014 -0700

Add necessary headers for major()/minor() on Solaris to xf86Xinput.c

Without these, after commit fdb4ec86c29d85c, it fails to build on Solaris, with errors of:
xf86Xinput.c: In function 'xf86stat':
xf86Xinput.c:816:5: error: implicit declaration of function 'major' [-Werror=implicit-function-declaration]
xf86Xinput.c:817:5: error: implicit declaration of function 'minor' [-Werror=implicit-function-declaration]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d9fdac5faa648a10653e18dcb602646f3e22e522
Merge: 99bee6c054 0e5d2996ac
Default font path: remove the check for ${sysconfdir}/X11/fontpath.d

The location ${sysconfdir}/X11/fontpath.d is unknown at configuration time (only at make time) as evidenced by the configuration output:

    checking for ${prefix}/etc/X11/fontpath.d... no

Unlike font-util for the X fonts, there is no mechanism to query where fontpath.d is. Fedora have chosen /etc/X11 and others have followed, but this is not a standard. It might also be installed at another location, it may or may not be under the xserver installation prefix. We just don't know. Debian does not use this at all.

Distros are using --with-default-path when they support fontpath.d, so they never relied on the server default as it never worked.

The patch essentially is a noop, which leaves the door open for anyone who could potentially provide a reliable implementation of choosing fontpath.d when applicable.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

hw/xwin: Fix WM_ENDSESSION crash on x86_64

We need to include xwin-config.h into winmsgwindow.c, so that _XSERVER64 is defined, so that the layout of ScreenRec type is correct, so that it's privates can be accessed correctly, so that the WM_GIVEUP message can be sent to the
screen window.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 896b53ffa72d91d7d604967028291525562b60dd
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Jun 16 13:55:51 2013 +0100

hw/xwin: Improve NET_WM_ICON validation

Check that we don't overrun the end of the property data while converting icons


Also, some warning fixes in winXIconToHICON()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ab61d070024a4776f011e71d762d4e6c0cf58b12
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Mar 31 18:29:07 2013 +0100

hw/xwin: Remove obsolete control handling for About dialog

Remove the unused, cygwin-specific handling for ChangeLog, UG and CG buttons in the About... Dialog. The buttons themselves were removed in commit 34269a90ea2087f883f5dc8805894fc4998e4b81.

Also remove those window control IDs which are now obsolete.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3b4d472b72601922bac264283eb6b611d8d524fc
Author: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Date: Wed Sep 7 14:00:56 2011 +0100

hw/xwin: Minimize redraw events after resizing/moving windows in multiwindow mode

In multiwindow mode the modal moving/resizing of windows causes a lot of redraw events to be sent to the X clients after the user releases the mouse button.

During the moving/resizing client windows are not redrawn as long as the mouse button is pressed, but all redraw/resizing events are queued and executed step after step after the moving/resizing ends.

Some clients collect and combine multiple redraw or resizing events, other
clients (e.g. xterm) simply execute each redraw or sizing event.

The enclosed patch minimizes the events for clients to only one event after the
user releases the mouse button to end the moving/resizing. This improves the
user experience and reduces strange screen flickerings, especially on slow
platforms.

The enclosed patch modifies winmultiwindowwndproc.c such that the windows events
WM_ENTERSIZEMOVE and WM_EXITSIZEMOVE that are sent by Windows when the modal
window resizing/moving begins or ends are considered. Only after WM_EXITSIZEMOVE
is the redraw/resizing executed.

Signed-off-by: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Reviewed-by: Jon TURNLEY <jon.turney@dronedcode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 03e1cc6f250a3f5cf17b34639adbbe9850c681cd
Author: Jon TURNLEY <jon.turney@dronedcode.org.uk>
Date:   Mon Nov 7 20:54:10 2011 +0000

hw/xwin: Add '/*@<WM_CLIENT_MACHINE>' to window name when it's useful to do so

Enhance GetWindowName() so it appends the result of XGetWMClientMachine() when
it is available and useful to do so

Add -hostintitle option to control this behaviour. Add documentation for this
option to man page and -help text.

Also, fix warning in UpdateName()

v2: Provide a HOST_NAME_MAX definition for MinGW
v3: Use '(@host' rather than ' (on host)'. Don't add host if it's already in the
title.

Signed-off-by: Jon TURNLEY <jon.turney@dronedcode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6804acfe4fabe8ff8491bb7ed6260440d3d4d3
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:44:54 2014 +0000

hw/xwin: Remove prototype for non-existent winMWEextWMUpdateIcon()

winMWEextWMUpdateIcon() was removed in commit 527cf13135cf279733060e0028bfbe02be5167

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronedcode.org.uk>
commit 7fb5d765ba1e28eb775b847cef3d6079eba3bac1
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:40:43 2014 +0000

hw/xwin: Use AllocDevicePair()

Use AllocDevicePair() rather than allocating Windows keyboard and pointer
devices individually.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 061e5eba00a9a0dc27ff76946dc5f77004fc6a56
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:36:59 2014 +0000

hw/xwin: Consistently use 'L' for long int constants

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 46df614784cbbfcc6368859285e949010f1ceb8
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:36:24 2014 +0000

hw/xwin: Remove an unneeded include

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit d48749492cd492fd7430fffd29842153618f778
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:34:04 2014 +0000

hw/xwin: Use boolean AND rather than bitwise AND in WIN_POLLING_MOUSE_TIMER_ID

For clarity, use boolean AND rather than bitwise AND in
WIN_POLLING_MOUSE_TIMER_ID processing.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 80ac4a85d56130d09bbc72ed071759a361ded689
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:23:16 2014 +0000

hw/xwin: Fix declaration after statement warning in ddxGiveUp()
Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit cf59f4888e202c6a68176bd3de1f837ca8480370
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Mar 14 15:09:24 2014 +0000

hw/xwin: Fix typo in comment

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 561bca469d3ade1ff14faddaf70bf12dcdc6aa74
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Mar 13 22:38:43 2014 +0000

hw/xwin: Fix const discarded warning in winGenerateAuthorization()

Fix const discarded warning in winGenerateAuthorization() in !XCSECURITY case

In function ‘winGenerateAuthorization’:
hw/xwin/winauth.c:123:38: warning: passing argument 2 of ‘GenerateAuthorization’ discards ‘const’ qualifier from pointer target type [enabled by default]
hw/xwin/winauth.c:99:1: note: expected ‘char *’ but argument is of type ‘const char *’

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 44fe1b8ea284df66baef67e246016d104665b2fe
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Wed Mar 19 14:03:13 2014 -0700

os: Add a mechanism to prevent creating any listen sockets

A socket-activated server will receive its listening sockets from the parent process and should not create its own sockets. This patch introduces a NoListen flag that can be set by a DDX to prevent the server from creating the sockets. When NoListen is enabled, we also disable the server lock checking, since the parent process is responsible for checking the lock before picking the display name and creating the sockets.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 62d584d63190c6c8ceef5fd49d87b1cb29358a434
os: Always compile ListenOnOpenFD() and export it

This function was written to allow the X server to inherit the listen socket from launchd on OS X. The code is not specific to OS X though and will be useful for on-demand launched Xwayland servers.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 797781c7bf7d7a0df354fb85aa73df4560828b90b
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Wed Mar 19 10:27:39 2014 -0700

test: Don't add TEST_LDADD to list test

The list test case is always enabled, even if Xorg is disabled.
TEST_LDADD pulls in Xorg files which breaks linking when Xorg is disabled.
The list test doesn't need any libraries, so just remove list_LDADD.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fb31e4824d46edc80bb49b4065152899faa5ac6
Merge: d18d3f6d180e531fbb97
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 19 06:43:14 2014 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 0e531fbb97868b9a869044fc5a4f6cb58de6751e
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Wed Mar 12 16:31:25 2014 +1000

    xkb: add XkbLoadKeymapFromString

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit d18d3f6d18aa7827748f7ba14ef4d405b525883d0
Merge: 81a4952d3d6649d0059e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 17:29:56 2014 -0700
Merge remote-tracking branch 'anholt/glamor-megaseries'

commit 6649d0059e1bc136b84a9e457ae81c07521fadc0
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Mon Mar 17 13:16:48 2014 +0900

glamor: Move up glamor_priv->flags assignment in glamor_init()

It wasn't assigned yet when it was tested for GLAMOR_NO_DRI3.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit b5a61239e22ef167c229154d7919ff862503e3f3
Author: Eric Anholt <eric@anholt.net>
Date: Fri Mar 14 13:10:04 2014 -0700

glx: Make sure we get an FBConfig the root window's visual.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9999a660135f9f6f9452e5ca7a4f069dc2
Author: Markus Wick <markus@selfnet.de>
Date: Thu Mar 13 11:17:39 2014 +0100

glamor: don't reset the GLSL program

We don't use fixed function rendering, so there is no need to reset
the program at all. This lets the driver avoid checking for state
changes between draw calls when we rebind the same program.

Improves xephyr x11perf -f8text performance by 6.03062% +/- 1.64928%
(n=20)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit aa2635b804e7d28322f62d802190bf0bb799634
Author: Markus Wick <markus@selfnet.de>
Date: Thu Mar 13 00:24:04 2014 +0100

glamor: remove disabled code

This block was disabled since 2011, so there is likely no need to keep it any more.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 6227f07b69b8ab3cd39c9d257daf2a7202b4ef5
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Mar 11 17:28:10 2014 -0700

Remove duplicate assignment of repeat_type_uniform_location

Flagged by cppcheck 1.64:
[glamor/glamor_gradient.c:987] -> [glamor/glamor_gradient.c:991]:
(Performance) Variable 'repeat_type_uniform_location' is reassigned a value before the old one has been used.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 1a4b24993974200e26345ea6c501d4aa093169db
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 20 15:50:03 2014 -0800

glamor: Apply debug labels to our shaders.

This will help tools like fips, apitrace, or INTEL_DEBUG=shader_time provide useful information about the shaders in use.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit d07d2c3c5f95fd644ef563004da7f3c53904168
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Jan 11 21:26:01 2014 -0800

glamor: Don't forget to unmap our PBOs before using them to upload.

From the GL_ARB_vertex_buffer_object spec:

    After the client has specified the contents of a mapped data store, and before the data in that store are dereferenced by any GL commands, the mapping must be relinquished by calling

        boolean UnmapBufferARB(enum target);

        Our mappings were only getting reaped at PBO destroy time, after the upload. If the GL implementation wasn't coherent, it would have used stale data to do the texture upload.

        Signed-off-by: Eric Anholt <eric@anholt.net>
glamor: Add an assert about an invariant the upload code relies on.

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 64146e4560fdf3c3a40d023ac8e22259915b05ad
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Jan 11 21:11:18 2014 -0800

glamor: Fix ignoring the ALU during SetSpans().

Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 7eb2bafe22dce90c2fb94d2d9cae370b683dba7c
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jan 10 15:54:25 2014 +0800

glamor: Improve the performance of line fallbacks.

If the lines aren't solid-filled vert/horiz solid-filled rectangles, we fall back. libreoffice has some diagonal lines, and the performance of the fallback path was atrocious. Just fall back to mi's spans instead, so that we don't do an upload/download.

Improves x11perf -seg100 by 863.652% +/- 9.8968% (n=5)

Reviewed-by: Eric Anholt <eric@anholt.net>

commit b6953045566dae15437d4220e68986db7a6b4ca7
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jan 9 10:53:04 2014 +0800

glamor: Improve the performance of PolyGlyphBlt.

Using the same idea as the previous PushPixels code, just make points for each point in the glyph. This is an advantage over the pushpixels fallback because we can batch the BO mappings and draw calls across glyphs.

Improves performance of x11perf -f8text by 773.389% +/- 3.50754% (n=10).
commit b885a639144cdadcdb0dae8249a168db158770604
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Jan 5 21:54:48 2014 +0800

glamor: Improve the performance of PushPixels by, well, pushing pixels.
Otherwise, mi will fall back to GetSpans()ing the bitmap, walking the bitmap, computing spans to be filled, and calling FillSpans().

Improves x11perf -f8text by 759.373% +/- 3.33096% (n=166)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit ab68982d0593d29d5c3e5ea092bd91dab09e54c9
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Jan 11 00:06:21 2014 +0800

glamor: Add missing prepares on the GC during fb fallbacks.
We had regressions in CopyPlane reported by xts5, because we were (successfully!) dereferencing the null pixmap->devPrivate.ptr for a tile or stipple without having done a prepare.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 93f1824a0b19346f0e1759bedfa9cf10772067af
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Jan 11 00:00:00 2014 +0800

glamor: Rely on nested mappings to handle src==dst and !prepare bugs.
Now that the core deals with that for us, we can avoid all this extra carefulness.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 4c9a20072552c52b37d3bd73e7a7e9b9cb8b4993
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jan 10 23:43:09 2014 +0800

glamor: Allow nested mapping of pixmaps.
The common pattern is to do nested if statements making calls to prepare_access() and then pop those mappings back off in each set of braces. Some cases checked for src == dst to avoid leaking mappings, but others didn't. Others didn't even do the nested mappings, so a failure in the outer map would result in trying to umap the inner and failing.

By allowing nested mappings, we can fix both problems by not requiring the care from the caller, plus we can allow a simpler nesting of all the prepares in one if statement.

v2: Add a comment about nested unmap behavior, and just reuse the glamor_access_t enum.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit d86eacedab443f172baccf544d17e09090f71f3c
Author: Eric Anholt <eric@anholt.net>
Date: Fri Jan 10 23:39:02 2014 +0800

glamor: Drop unused GLAMOR_ACCESS_WO.

Nothing was using it, and it was going to complicate the glamor_prepare_access bugfixing I'm going to do next.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit c36b903f240664f7222cfe80e60fca936de6a
Author: Eric Anholt <eric@anholt.net>
Date: Thu Mar 13 10:09:08 2014 -0700

glamor: Drop stale comment.

The old Xephyr codebase was using the GL window system framebuffer for the screen pixmap, but that meant you couldn't texture from it to do operations sourcing from the screen, so in the version that landed I instead had the screen just be a plain texture.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f7cd1189d068471373f51d932c558f8151182d58
Author: Eric Anholt <eric@anholt.net>
Date: Fri Jan 10 22:42:02 2014 +0800

glamor: Replace some goofy enum-likes with a real enum.
This unpacks the bitfield into an int size, but my experience has been that packing bitfields doesn't matter for performance.

v2: Convert more comparisons against numbers or implicit bool comparisons to comparisons against the enum names, and fix up some comments.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 575e3e1bf08c418430da86228d2774e8fda4b8c0
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jan 6 07:22:47 2014 +0800

glamor: Fix up doxygen for glamor_fill.c.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 53996e252e51c8053537f485616a078cb7b0f738
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jan 6 07:05:02 2014 +0800

glamor: Rename more solid fill variables to clean up the code.

Now the error path of allocation is more obvious: We leave things in the a-few-boxes-at-a-time stack memory state.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit ec3ab2f67baa00326a4964ed2047e8a137915578
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jan 6 07:01:17 2014 +0800

glamor: Rename a variable to be more descriptive.

The "valid_" prefix was used above to describe our allocation that gets reused multiple times, which is totally unrelated.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 01e30d2043f5df104947908f14a377dc77896a98
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jan 6 06:55:15 2014 +0800
glamor: Fix some integer overflow errors.

Imagine a nbox that was (UINT_MAX + small number) / (4 * 2 * sizeof(float)). We'd malloc a few bytes after the integer overflow, but glamor_set_normalize_vcoords would write over gigabytes of heap.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 20bcda977755559294c3a951f80af2ec861595fc
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 6 06:53:46 2014 +0800

glamor: Drop bogus _X_UNLIKELY.

nbox > 4 is actually quite common for spans handling.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit ad3dd80720676dcdc11ab5db63ccbed7c9509d7e
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 6 06:52:32 2014 +0800

glamor: Fix stack overflow in glamor_solid vertex handling.

ARRAY_SIZE(vertices) is 32 (floating point values), so we need to divide by the number of floats in a box like we do in the overflow case below.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit d036d22a95b8516a817dd4fa4dd35be363709636
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Jan 4 13:28:52 2014 -0800

glamor: Drop duplicated lines for getting pixmap state in GetImage.

No change in generated code size -- apparently the compiler figured it out.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit e23dd41195dfaf1f3e303197845a071d01523618
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Dec 30 18:41:57 2013 -0800
glamor: Return the stride/size for glamor_dri3_name_from_pixmap(), too.

Just like for a caller of glamor_dri3_fd_from_pixmap(), otherwise the consumer of that named buffer has no idea what GL chose for the stride.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 4e21b7ee49bc8f33c62114111d80aa70b16998adc
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Dec 30 18:33:09 2013 -0800

glamor: Drop the body of the function for enabling DRI3 extensions.

The flag is already being set at glamor_egl_screen_init() time, so no need for the driver to separately call this. That said, leave the function around to keep the ABI compatibility.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 92e2125c5219c7b270785f063fe2560583b2baff
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Dec 30 18:29:50 2013 -0800

sync: Add a header include necessary to use misyncstr.h

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 12b2adaaeb091ad48825f439fa0359e5641c86d1
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Dec 28 13:46:17 2013 -0800

 glamor: Do glyph private init at screeninit time, and other stuff at CSR.

This hasn't actually been a problem, since the server hasn't allocated any glyphs before our glyph private initialization during CreateScreenResources. But it's generally not X Server style to do things this way.

Now that glamor itself drives both parts of glyphs setup, DDX drivers no longer need to tell glamor to initialize glyphs. We do retain the old public symbol so they can keep running with no changes.

Signed-off-by: Eric Anholt <eric@anholt.net>
glamor: Move the EGL image to the normal pixmap private.

There's no reason to hide EGL from the rest of glamor, now that we have epoxy.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit 732faea542c5ecab353536f93bab5dc6c6068d0a
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 18:27:56 2013 -0800

glamor: Use epoxy_has_egl_extension() instead of rolling our own.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus@selfnet.de>

commit a895f6a16588024e03218d8d0e77dd8bd8494329
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Jan 5 02:45:05 2014 -0800

glamor: Drop the set of the context to NULL at the end of glamor ops.

The theory here was that it (which I copied from EGL) existed to fix up context switching with indirect GLX. But indirect GLX won't even try to set the context again unless its lastContext field is cleared, so we need to solve this a different way.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f31911ff8f3f3707101b7771d5dc994ed1ca5c70
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 27 17:55:50 2014 -0800

xephyr: Don't forget to glViewport() before drawing the screen.

Fixes misrendering with cairogears. I had noticed the failure while trying to figure out what was going on with traps. Cairogears was apparently putting its results on the screen through putimage, which is a texture upload, so the last GL drawing was done to the size of the cairogears window, not the size of the xephyr screen.
xkb: add KeymapOrDefault

Helper function to return a default map if the keymap compilation failed.

xkb: factor out xkb loading to LoadXkm

This provides a callback to write to xkbcomp's buffer once everything is prepared.

xkb: constify XkbDDXOpenConfigFile
xf86Xinput: release server managed fd before removing the device from the list

So that the fd in use test in systemd_logind_release_fd works properly.

Note we cannot change the test inside systemd_logind_release_fd as it must work for devices which were never added to the xf86InputDevs too.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e972b6037d3709c13d46ade9f9d14b702f477abc
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Mar 12 14:57:24 2014 +0100

systemd-logind: Correctly deal with InputDevs sharing a device-node

InputDevices may share a single device-node, this happens ie with Wacom tablets.

This patch makes take_fd and release_fd properly deal with this, together with the earlier patch for updating the fd in all matching xf86InputDevs on pause / resume this completes support for such shared device-nodes.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8d3f63dbe9bf6d816beb6475fd0e00df4dbba269f
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Mar 12 12:58:22 2014 +0100

systemd-logind: Add a systemd_logind_set_input_fd_for_all_devs helper

And use it where appropriate.

Setting the fd for all matching InputDevices is necessary when we've multiple InputDevices sharing a single device-node, such as happens with Wacom tablets.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4e3d9690e1868d286dcb766b429f9e99313f2401
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Mar 12 13:19:32 2014 +0100

systemd_logind_find_info_ptr_by_devnum: Move to higher inside the file
This is a preparation patch for adding support for server managed fds for InputDevices where multiple input devices share the same device node (and thus also their major and minor).

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ddc3888baaaddc47706a9ce9b964f9738683d7291b3
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Mar 12 12:45:40 2014 +0100

    systemd_logind_find_info_ptr_by_devnum: Add a start argument

    Modify systemd_logind_find_info_ptr_by_devnum to take a start argument, so that it can be used to find all occurences of a devnum in an InputInfo list, rather then just the first.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 40e3c79a591909ab64822cc8ef007513317bf19b
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Mar 11 11:38:09 2014 +0100

    Remove config_odev_add_*attribute checks in various places

    Note that there are more callers but those were already not doing any error checking.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 92ff79f1a8a04d632f2bb59dfb3a28696a27609a
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Mar 11 11:28:15 2014 +0100

    config_odev*: Use XNF alloc functions

    config_odev* functions are called in code-paths were we already use XNF* functions in other places, so which are not oom safe already.

    Besides that oom is something which should simply never happen, so aborting when it does is as good a response as any other.

    While switching to XNF functions also fixup an unchecked strdup case.

    Note the function prototypes are kept unchanged, as they are part of the server ABI.
Xorg: Add a suid root wrapper

With the recent systemd-logind changes it is possible to install the Xorg binary without suid root rights and still have everything working as it should *if* the user only has cards which are supported by kms.

This commit adds a little suid root wrapper, which is a bit weird, first we strip the suid-root bit of the Xorg binary, and then we add a wrapper?

The function of this wrapper is to see if a system still needs root-rights, if it does not (it supports kms and the kms drivers are properly loaded), then it will immediately drop all elevated rights before executing the real Xorg binary. If it finds (some) cards which don't support kms, or no cards at all, then it will execute the Xorg server with elevated rights so that ie the nvidia binary driver and the vesa driver can keep working normally.

To make it possible for security conscious users who don't need the root rights to completely remove the wrapper, Xorg is started in a 3 step process when the wrapper is enabled during build time:

1) A simple shell script which checks if the wrapper is there, if it is it executes the wrapper, if not it directly executes the real Xorg binary

2) The wrapper gets executed, does its checks, normally drops all elevated rights and then executes the real Xorg binary

3) The real Xorg binary does its thing

This allows distributions to put the wrapper binary in a separate package, and will allow users to remove this package. IE the plan with Fedora is to make "legacy" drivers depend on the wrapper pkg, and since our default install contains some legacy drivers it will be part of the default install, but users can later yum remove it (which will also automatically remove the legacy driver packages as those won't work without it anyways).

The wrapper is loosely modelled after the existing Debian Xwrapper, it uses the same config-file + config-file format, and also allows restricting Xserver execution (through the wrapper) to console users only.

There also is a new needs_root_rights config file directive, which can
be used to override the auto-detection the wrapper does.

Hopefully this will allow Debian to replace their own wrapper with this upstream one.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d35a02a767017f13db4bd4742eeef49293d5a30ea
Author: Rui Matos <tiagomatos@gmail.com>
Date: Fri Mar 7 14:32:27 2014 -0800

xkb: Repurpose XkbCopyDeviceKeymap to apply a given keymap to a device

This will also make it useful for cases when we have a new keymap to apply to a device but don't have a source device.

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 361f405d3c866bc4d22ef84975fe771691156336
Author: Rui Matos <tiagomatos@gmail.com>
Date: Fri Mar 7 14:32:28 2014 -0800

xkb: Factor out a function to copy a keymap's controls onto another

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 81a4952d3dcab9ca3a1ee399c773f5ac352036c4
Merge: 96a28e9c91 795066477e
Author: Keith Packard <keithp@keithp.com>
Date: Tue Mar 11 22:04:36 2014 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 795066477ee81b5b82e490eac8bed6b656d01f17
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 26 07:54:56 2014 +1000

config: search for PnPID on all parents (#75513)

The PnPID for a device may not be on the immediate parent, so search up the device tree until we find one.

X.Org Bug 75513 <http://bugs.freedesktop.org/show_bug.cgi?id=75513>
xkb: push locked modifier state down to attached slave devices

Whenever the master changes, push the locked modifier state to the attached slave devices, then update the indicators. This way, when NumLock or CapsLock are hit on any device, the LED will light up on all devices. Likewise, a new keyboard attached to a master device will light up with the correct indicators.

The indicators are handled per-keyboard, depending on the layout, i.e. if one keyboard has grp_led:num set, the NumLock LED won’t light up on that keyboard.

xkb: factor out state update into a function

No functional changes

xkb: factor out the StateNotify flag check

xfree86: handle xorg.conf devices with logind

Only devices from the config backend have their attributes set, devices from
the xorg.conf only have Option "Device". That option is also set by the
cfg backend, so use it.

And since the config backend sets our major/minor but xorg.conf devices don't
have that set, make sure we try to stat it first where needed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 4754af9ddbd55c5637b56bd9f37d0d3414c839a8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 11 14:20:51 2014 +1000

cfg: only free odev->attrib_name for string types

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 96a28e9c914d7ae9b269f73a27b99c63c465ac8
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Mar 6 18:50:07 2014 -0800

glx: Clear new FBConfig attributes to 0 by default.

The visualSelectGroup wasn't getting set (since our DRI drivers don't
use it), and and since it's the top priority in the sort order, you
got random sorting of your visuals unless malloc really returned you
new memory. This manifested as Xephyr -glamor rendering to a
multisampled window on my system, which as you might guess was
slightly lower performance than expected.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>

commit 2843a2f9b58a4aae2949111722c5c1bf3878674b
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 25 16:56:54 2014 -0800

glamor: Use buffer_storage

v2:
- Make the default buffer size a #define. (by Markus Wick)
- Fix the return offset for mapping with buffer_storage. (oops!)
v3:
- Avoid GL error at first rendering from unmapping no buffer.
- Rebase on the glBindBuffer(GL_ARRAY_BUFFER, 0) change.
v4: Rebase on Markus's vbo init changes.
v5: Fix missing put_context() in the buffer_storage fallback path.
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 9b86f7a1ab7904fbb04283b6461a31470c77972
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Jan 12 07:54:51 2014 -0800

glamor: Fix requested composite VBO size.

The argument to setup_composite_vbo is the number of verts.

v2: Drop the now-unused vert_stride value.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit d310d566b18e55bce27301e9ac78a7894d5194dd
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 6 09:29:57 2014 +0800

glamor: Extract the streamed vertex data code used by Render.

We should be uploading any vertex data using this kind of upload style, since it saves a bunch of extra copies of our vertex data.

v2:
- Add a simple comment about what the function does.
- Use get_vbo_space()'s return in trapezoids, instead of dereffing glamor_priv->vb (by Markus Wick).
- Fix the double-unmapping by moving put_vbo_space() outside of flush_composite_rects().
- Remove the rest of the composite_vbo_offset usage, and just always use get_vbo_space()'s return value.

v3:
- Fix failure to put_vbo_space in traps when no prims were generated.
- Unbind the VBO from put_vbo_space(). Keeps callers from forgetting to do so.

v4:
- Split out some changes into the previous 3 commits while trying to track down a regression.
- Fix regression due to rebase fail where glamor_priv->vbo_offset wasn't incremented.

v5:
- Fix GLES2 VBO sizing.
- Add a comment about resize behavior.
- Move glamor_vbo.c init code to glamor_vbo.c from
glamor_render.c. (Derived from Markus's changes, but the GLES2 fix dropped almost all of the code in the functions).

v6:
- Drop the initial BufferData on GLES2 (it happens at put() time).
- Don't forget to set vbo_offset to the size on GLES2.
- Use char * instead of void * in the cast to return the vbo_offset.
- Resize the default FBO to 512kb, to be similar to previous behavior. +1.66124% +/- 0.284223% (n=679) on aa10text.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit ffc8423077d8b5af36ab59f59e4e18109586aec9
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Mar 6 17:05:31 2014 -0800

glamor: Track the next vertex offset as we go for AA traps.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit ca307fd18d4dfded04979903737ec5dd03487625
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Mar 6 17:03:14 2014 -0800

glamor: Track the next vertex offset as we go for non-AA traps.

v2: Use sizeof(float) instead of 4.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 03a33048a74d986e27668a4d01861ead0f8be76b
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Mar 6 16:57:46 2014 -0800

glamor: Track the next vertex offset as we go in render accel.

I want to extract the VBO mapping code, and as part of that I need to get the global vbo_offset munging to stop.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 438d8aceec2d4af48917a7dfecacf11cd4f4b5ce
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Mar 6 13:29:08 2014 -0800
glamor: Move glamor_emit_composite_vert() to traps, where it's used.

It's only used in the nonantialiased, triangle-based trapezoids path.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit bce5ec4f411134114c6ee2715f293a2250ee8800
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 24 12:14:04 2013 -0800

glamor: Don't forget to set GL_INVALIDATE_RANGE_BIT on GL_ARB_mbr.

We don't need any current contents of the buffer, and this allows an implementation to make a temporary BO for a streamed upload if it wants to.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 25be6b384298a7769fedb6d9b5bdc370398c9c95
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Jan 12 07:18:50 2014 +0800

glamor: Fix a mismatched glamor_get/put_context().

We don't call GL in this function any more, so we can just drop the get.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit bd09292debbb810db06b187d4e61c9416b5e565e
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 14:03:26 2013 -0800

glamor: Add a note about the state of GL_ARB_map_buffer_range.

GLES2 Xephyr is failing due to lack of glMapBuffer() with the read bits set, and I decided to see if we can just switch everything to glMapBufferRange(). I'm undecided, and it largely depends on whether we find people are interested in using glamor for the windows X server.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit ca507d215f54e878055de8da13877bc0225bece1
Author: Eric Anholt <eric@anholt.net>
Date: Tue Dec 24 16:07:12 2013 -0800

glamor: Fix a spelling mistake in GLAMOR_PIXMAP_FBO_NOT_EXACT_SIZE.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 4e86f4236b32b61796d820714dc12457dbce92e28
Author: Eric Anholt <eric@anholt.net>
Date: Mon Dec 23 18:16:01 2013 -0800

glamor: remove dead global variable.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Markus Wick <markus at selfnet.de>

commit 7f15e5aed79803fa6057fbfd7dfbacacc2e019d
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Mar 3 16:58:54 2014 +0100

Require video drivers to report that they support server managed fds

This makes how we handle video drivers identical to what we do for input drivers, and this should make live easier for old non kms drivers.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 76af81bdf8ade158d7cef718ff6cf31cbf641a9a
Author: Hans de Goede <hdegoede@redhat.com>
Date: Mon Mar 3 16:07:16 2014 +0100

xf86platformBus: Make doPlatformProbe accept a NULL gdev argument

And use it from xf86platformAddDevice too, instead of directly calling drv->platformProbe.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 749d25f6f0faed00a4cd906171ea6f96d76591e7
Author: Hans de Goede <hdegoede@redhat.com>
Date: Fri Mar 7 04:59:47 2014 -0500

systemd-logind: Fix vt-enter not working when using a legacy video driver

If there is only a single non kms video device (tested with the vesa driver), then we will never get a resume signal for a drm node, so also call vtenter
when we get a resume for an input device.

Notes:
1) vtenter checks if it is ok to do the vtenter, so if there are kms video
devices the calls for input device resumes are a nop
2) This assumes that there will always be at least one server event fd
supporting input device. Since all non legacy input-drivers will be patched
to supported server fds this seems a safe assumption.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c6dea929a4951c3e048554a1ef54c8f143d95777a
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Mar 3 17:00:57 2014 +0100

cfg_odev_add*_attribute: Don't add the attribute to the list twice

Don't do the xorg_list_append a 2nd time when updating existing attributes,
while at it add a helper function for this to avoid code duplication.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2f2967173ba0b0a4f7ab013edeaaf11e7c181beb
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Mar 3 09:51:36 2014 +0100

hashhtablest: Fix warning: format ‘%ld’ expects argument of type ...

This fixes the following compiler warning:

hashhtablest.c: In function ‘print_xid’:
hashhtablest.c:15:5: warning: format ‘%ld’ expects argument of type ‘long int’, but argument 2 has type ‘XID’ [-Wformat=]
  printf("%ld", *x);
^

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit b972851ce47b5e3b681a212a43dd71aab94e7a1b
Author: Dave Airlie <airlied@gmail.com>
Date:   Mon Mar 10 08:58:37 2014 +1000

xserver: fix build since system-logind.h

on tinderbox and irc
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33893

Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Matthieu Herrb <matthieu@herrb.eu>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1c61d38528a573caadec2468ee59ea558c822e09
Merge: 5350ae1d38 bf3543739d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 7 22:07:19 2014 -0800

Merge remote-tracking branch 'jwrdecoede/for-keith'

commit 5350ae1d38f3c69a26421e0866ede0d2c9c3ae4a
Author: Jon TURNYE <jon.turney@dronecode.org.uk>
Date:   Fri Mar 7 15:59:10 2014 +0000

Fix xephyr build in --disable-glamor case

It broke after commit 9fe052d90cc90f750d3a45b151be2ac7f0ebd
"xephyr: Build support for rendering with glamor using a -glamor
option."

See http://tinderbox.x.org/builds/2014-03-07-0004/logs/xserver/#build

Signed-off-by: Jon TURNYE <jon.turney@dronecode.org.uk>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 78e508c9379b3976a58e76b7aaa90ba86ad4e443
Author: Andrew Eikum <aeikum@codeweavers.com>
Date:   Mon Dec 30 09:15:41 2013 -0600

dix: Clear any existing selections before initializing privates

If there is a selection left over from a previous execution of the
main loop, and that selection has privates allocated for it, the X
server will crash. This is because dixResetPrivates() resets the
privates refcounts to zero without accounting for the reference held
by the selection object. When the selection is then deleted in
InitSelections() after the call to dixResetPrivates(), the refcount
for its privates type goes negative and bad things happen.

To fix this, we should delete any existing selections before calling
dixResetPrivates(). This will properly release the selection's
privates and avoid the crash.
A more thorough description of the problem and a test case to reproduce the crash is available at a previous mail: "Negative Selection devPrivates refcount?"
By Andrew Eikum to xorg-devel on 10 Dec 2013

Signed-off-by: Andrew Eikum <aeikum@codeweavers.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da08316605b26830b4d8f8fb2d9e69471cdc80ab
Author: Eric Anholt <eric@anholt.net>
Date: Tue Dec 31 00:07:42 2013 -0800

glamor: Add support for DRI3.

The render-nodes case is untested.

v2: Add a flag for wayland to suppress the native DRI3 support.
Wayland isn't running as a master itself, so it can't do the auth on its own and has to ask the compositor to do it for us. Dropped XXX about randr provider -- the conclusion from discussion with keithp was that if the driver's dri3_open for a provider on a different screen, that's a core dri3 bug.

v3: Don't put quite so much under GLAMOR_NO_DRI3, and add a comment explaining what this is about.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fb4a1e6ef6f80a7670e92cab2bc490d4afd80a9b
Author: Eric Anholt <eric@anholt.net>
Date: Mon Dec 30 18:49:46 2013 -0800

glamor: Rename the DRI-related pixmap functions.

There was confusion over whether they should have egl in the name, and they had DRI3 in the name even though they're useful to have without DRI3.

v2: Just rename glamor_name_from_pixmap for now -- I'd accidentally conflict-resolved in adding new parameters from a later commit.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2d20f75b60276508424997d9fa8c5b97d8f1d92b
Author: Eric Anholt <eric@anholt.net>
xorg: Connect up the glamor XV code, xorg DDX-only for now.

Porting this code to be non-xorg-dependent is going to take significant hacking, so just dump it in the glamoregl module for the moment, so I can hack on it while regression testing.

v2: Fix compiler warnings by adding #include dix-config.h at the top, don't try to auto-init (I'll try to fix the xv ABI later).
v3: Fix last minute breakage of having reintroduced xf86ScrnToScreen (one of the compat macros). Just use the drawable's pScreen instead.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8d1cca30638f8a12c09efee27e9dedd90322b40e
Author: Eric Anholt <eric@anholt.net>
Date: Fri Dec 27 16:44:15 2013 -0800

xorg: Build a glamor_egl module.

This is not exposing the API we want long term, but it should get existing DDX drivers up and running while we massage the API into shape.

v2: Use LIBADD instead of LDFLAGS to fix deps on libglamor.la, and use version 0.5.1 (the point it was forked from the external repo).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fa2e78788327c41bf45b3de3c71bf9e26dce85e
Author: Eric Anholt <eric@anholt.net>
Date: Fri Dec 20 10:41:43 2013 -0800

xephyr: Pass incoming XCB events to the Xlib event filter.

This is the same thing that Qt ended up doing to get DRI2's event mangling to happen despite using an XCB event loop.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9fe052d990cca90fd750d3a45b151be2ac7f0ebd
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 18 13:24:14 2013 -0800
xephyr: Build support for rendering with glamor using a -glamor option.

v2: Avoid making the Ximage for the screen that we'll never use, and drive the screen pixmap creation for glamor ourselves.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com> (v1)
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit b634e909895f6001e7d9543e1350b20c82c8e01c
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 27 23:56:23 2013 +0100

hw/xwin: More closely follow ICCCM for setting input focus

In multiwindow mode, more closely follow ICCCM section 4.1.7 when setting X input focus to a window when the native Windows window acquires input focus:

- If InputHint is FALSE, don't use XSetInputFocus()
- If the window supports the WM_TAKE_FOCUS protocol, send a WM_TAKE_FOCUS message

This helps JDK 1.7 clients acquire the focus correctly.

Also, factor out checking client support for a given WM_PROTOCOLS protocol as a separate function.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0fc84a2bb6970f6b05a19cd8b32a7f3f7fd148b3
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 28 15:02:14 2014 +0000

hw/xwin: Remove unnecessary casts from malloc/realloc/calloc calls

Remove unnecessary casts from malloc/realloc/calloc calls. This is the style used for the majority of X server code.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 94f709cfce62e716f8d3adea388625850de71e78
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 28 14:23:00 2014 +0000

hw/xwin: Add missing FORCEEXIT token to XWin configuration file lexer
Commit 6432d44020443bbda90bd46ffeb572b51be803a1
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 28 14:21:46 2014 +0000

hw/xwin: Silence bell when volume is zero

Allow the bell to be turned off with X server option `-f 0' or by `xset b off'.

Commit 7e37c4f727609d2992ca46ffec56311e8d8225c
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 28 14:21:06 2014 +0000

hw/xwin: Fix typo in comment

'i' before 'e' except after 'c'

Commit d75195b6267f5b0f17be089b3a5b295d5f2e
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Feb 28 14:20:48 2014 +0000

hw/xwin: Align parameter names in prototypes with definition

A follow up to commits 2d9123fd, 451c5d91 and efe96a17, which changed the parameter name in the definition from index to i, to fix shadowing index() but didn't adjust the prototype declaration.

Commit e53568e2c500a434a16e3971fb2cd0823e6487b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 1 16:43:38 2014 +0000

hw/xwin: Just generate the WGL wrappers we need

Just generate the WGL wrappers we need, rather than for everything in wgl.xml
This avoids generating a lot of unused wrappers, and also avoids compilation requiring a wglext.h at least as new as wgl.xml

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit dec5e9899bfee2a83f8a64f975790ecd2390256d
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Apr 10 18:04:17 2013 +0100

hw/xwin: Fix implicit-function-declaration warning in XwinExtensionInit() when compiled with XWIN_GLX WINDOWS defined

InitOutput.c: In function ‘XwinExtensionInit’:
InitOutput.c:170:9: error: implicit declaration of function ‘glxWinPushNativeProvider’ [-Werror=implicit-function-declaration]
glxWinPushNativeProvider();
^
InitOutput.c:170:9: warning: nested extern declaration of ‘glxWinPushNativeProvider’ [-Wnested-externs]

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit bf3543739db18c6cd52908f7c693cb64f43e3f23
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sat Feb 1 13:21:15 2014 +0100

xf86OpenSerial: Add support server managed fds

Try to get a server managed fd from the Options before trying to open the device node ourselves.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d9a4059d400bf288aadd17c04885cb9b0fb93989
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Jan 14 15:47:48 2014 +0100

config-udev: Don't try to add drm devices twice

Before this commit we were trying to add most drm devices twice, once from xf86platformProbe() and once from config_udev_init().

This results in somewhat confusing messages in Xorg.log, ie:

(II) xfree86: Adding drm device (/dev/dri/card0)
Later followed by:

(II) config/udev: Adding drm device (/dev/dri/card0)

By filtering out duplicate drm devices we avoid these confusing messages.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who.t.net>

commit 687afa3f6475060e6c460aa9496ba1a6a7982102
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Fri Jan 31 15:21:38 2014 +0100

systemd-logind: Add delayed input device probing

With systemd-logind we cannot probe input devices while switched away, so
if we're switched away, put the pInfo on a list, and probe everything on
that list on VT-Enter.

This is using an array grown by re-alloc, rather than a xorg_list since
creating a new data-type to store a pInfo + list-entry just for this seems
overkill.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who.t.net>

commit cac39219898f5e5a59f8d8d6524f5fe0d111469
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Jan 14 15:37:33 2014 +0100

systemd-logind: Hookup systemd-logind integration

This commits makes the changes necessary outside of the systemd-logind core
to make the server use systemd-logind managed fds for input devices and drm
nodes.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who.t.net>

commit 82863656ec449644cd34a86388ba40f36cea11e9
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Tue Jan 7 12:15:12 2014 +0100

systemd-logind: Add systemd-logind "core"

This commits add the bulk of the systemd-logind integration code, but does
not hook it up yet other then calling its init and fini functions, which
don't do that much.
Note the configure bits check for udev since systemd-logind use will only be supported in combination with udev. Besides that it only checks for dbus since all communication with systemd-logind is happening over dbus, so no further libs are needed.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5fb641a29bfb4a33da964e1e9af523f3472015c6
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Jan 13 12:03:46 2014 +0100

hotplug: Extend OdevAttributes for server-managed fd support

With systemd-logind support, the xserver, rather than the drivers will be responsible for opening/closing the fd for drm nodes.

This commit adds a fd member to OdevAttributes to store the fd to pass it along to the driver.

systemd-logind tracks devices by their chardev major + minor numbers, so also add OdevAttributes to store the major and minor.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit a8d802cb019da0549da57576ba0cc2ce1c8a98c
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sun Feb 2 13:54:33 2014 +0100

OdevAttribute: Remove unowned flag from OdevAttributes head

The OdevAttributes struct should just be a head of the attributes list, and not contain various unrelated flags. Instead add a flags field to struct xf86_platform_device and use that.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit bc9d17fb566d57eabe4a3372773654fcf6ae5b44
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sun Feb 2 15:28:31 2014 +0100

OdevAttribute: Add support for integer attributes

Add a couple of new functions for dealing with storing integer values into OdevAttributes.
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 350559dcdec8b0de57801302e385e25decb91f1
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Feb 3 15:47:35 2014 +0100

OdevAttribute: config_odev_add_attribute: replace existing values

If an attribute already exists replace its value rather than adding a
duplicate attribute with the new value to the list.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 10c64e80569bbd35e97916a067f553cab27454b5
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Sun Feb 2 11:25:34 2014 +0100

OdevAttribute: Add config_odev_get_attribute helper

Add a config_odev_get_attribute helper, and replace the diy looping over all
the attributes done in various places with calls to this helper.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3346166a6596115421702c1f7e2732215674ab8e
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Mon Jan 13 11:57:38 2014 +0100

xf86Xinput: Modify API for server-managed fd support

With systemd-logind support, the xserver, rather than the drivers will be
responsible for opening/closing the fd for input devices.

This commit adds a new capabilities field to the InputDriverRec and a
XI86_DRV_CAP_SERVER_FD flag for drivers to indicate that they support server
managed fds.

This commit adds a new XI86_SERVER_FD flag to indicate to drivers when the
server is managing the fd and they should not open/close it. Note that even
if drivers declare they support server managed fds there is no guarantee they
will actually get them.
Since this changes the input driver ABI, this commit bumps it.

systemd-logind tracks devices by their chardev major + minor numbers, since we are breaking ABI anyways also add major and minor fields for easy storage / retrieval of these.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6b79f28f5cb259f2168ecc3034fe2161e969bf7d
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Wed Jan 22 11:32:56 2014 +0100

linux: xf86OpenConsole: Don’t detach from controlling tty when it is our vt

Detaching from our controlling tty makes little sense when it is the same as the vt we’re asked to run on. So automatically assume -keeptty in this case.

This is useful to do because when not running as root the server can only make various VT related ioctls when it does not detach from the tty.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 701b7ab34984b0f90c357b0ff8b53c5132c6324
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Thu Jan 16 10:37:28 2014 +0100

linux: xf86OpenConsole remove root-rights check for keeptty option

There is no reason why keeptty cannot be used without root-rights.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 98f59a33dfe2d47a57c68420f226dc0c17992164
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Feb 28 12:04:30 2014 +1000

modesetting: fix cursor rendering with hotspots.

older kernels report EINVAL not ENOSYS, doh.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 2029c028fcffbe1aa175ab75636ae954a211c82a
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 25 09:06:55 2014 -0500
modesetting: Don't (brokenly) double-track software cursor

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit caf1dec2a76fbbd21259fe4cc809e24a55f79b4
Author: David Sodman <dsodman@chromium.org>
Date: Mon Feb 10 09:07:33 2014 -0800

V2: Add check for link from output to crtc before optimizing out a CrtcSet call

The function RRCrtcSet call checks to see if the config being set is already configured, but, doesn't check that the selected outputs are connected to the crtc before skipping. This means that the following sequence will omit the final CrtcSet call to the driver:

CRTC c1 connect to output o
CRTC c2 connect to output o
CRTC c1 connect to output o

This change adds the check to ensure that each of the calls are made to the driver.

Signed-off-by: David Sodman <dsodman@chromium.org>
Reviewed-by: Stéphane Marchesin <marcheu@chromium.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 249565a07d1d243e27440e2a5ecf4e95490903c6
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Feb 9 23:13:51 2014 -0800

Fix test/os to work on Solaris

Due to bad decisions made decades ago at AT&T, on SVR4 OS'es the signal() function resets the signal handler before calling the signal handler (equivalent to sigaction flag SA_RESETHAND). This is why the X server has a OsSignal() helper function in os/utils.c that uses the portable POSIX sigaction function to provide BSD/Linux semantics in a signal() style API, so we switch to use that in this test case, allowing it to pass on Solaris.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0031f6b073c7a4cca553c1d3e185a63436a75cbe
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Feb 9 23:13:50 2014 -0800
Fix test/signal-logging to work on Solaris

For some reason, Solaris libc `sprintf()` doesn't add "0x" to the `%p` output as glibc does, causing the test to fail for not matching the exact output. Since the 0x is desirable, we add it ourselves to the test string.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e67f2d7e0f9189beb2907fa06cfff5ecc7f35922
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Feb 9 11:20:59 2014 +0100

gcc 4.2.1 doesn't support #pragma GCC diagnostic ignored

Signed-off-by: Matthieu Herrb <matthieu.herrb@herrb.eu>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1940508a4af33d44a7a8ef24bdc1e31e228dab
Merge: c85ea92af1 ddeca92749
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 24 16:27:52 2014 -0800

Merge remote-tracking branch 'herrb/master'

commit c85ea92af145c98a4a3fc6ef7b9eac796a48cc2e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 24 09:51:39 2014 -0800

Bump to 1.15.99.901

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0840a303c47b9b10ba8e24e62956da0f1675e963
Merge: 0f10cfd4b9 3d71df48e7
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 24 09:40:23 2014 -0800

Merge remote-tracking branch 'anholt/glamor-pull-request'

commit fac2bcf1da09fba8bc8b22631e31f3c5b2737efd
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Jan 20 11:06:42 2014 +1000

modesetting: try and use hotspot cursor support
modesetting: move closing fd to after we check outputs

On something like cirrus, start X, then attempt to start a second X while the first is running, if fbdev is installed it'll fail hard.

Xi: check for invalid modifiers for XI2 passive grabs

The other values are checked correctly, but if a modifier was outside the allowed range, it would go unnoticed and cause a out-of-bounds read error for any mask equal or larger than 256. The DetailRec where we store the grab masks is only sized to 8 * sizeof(Mask).

test: remove source file from hashtabletest LDADD

LDADD is for libraries and not for source code.

Introduced in commit: ccb3e78124fb05defd0e9b438746b79d84dfe3ae

The code previously tried to compute the offset of a field in the
valuator by subtracting the address of the valuator from the _value_ of the field (rather than the field's address). The correct way to do it would have been (note the &'s):

```c
assert(((void *) &v->axisVal - (void *) v) % sizeof(double) == 0);
assert(((void *) &v->axes - (void *) v) % sizeof(double) == 0);
```

That's essentially what the offsetof() macro does. Using offsetof() has the added benefit of not using void pointer arithmetic and therefore silencing a warning on some compilers.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9368bdec1d37127e97411b684f0b1fcee5ee97907
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Mon Feb 17 08:43:49 2014 +1000

Get rid of config/non-seat0.conf.multi-seat

This file is deprecated by commits c73c36b53 and 46cf2a6093.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3d71df48e70884deceb293cf1fcb4b8ef94d
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 14:21:05 2013 -0800

glamor: Move the EGL DRI3 code to GLAMOR_HAS_GBM.

There's nothing dependent on the presence of DRI3 code in the server for this, but it does rely on GBM.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 80edbb20f9dcd2df3e77ecf5cdd7dfb1a87d1a83
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 27 13:21:21 2013 -0800

glamor: Fix linking of the gradient shaders on GLES2.

GLES2 sensibly doesn't allow you to attach multiple shaders for the same stage to a single program. This means we have to attach the whole thing in one glShaderSource call.
glamor: Don't bother keeping references to shader stages for gradients.
They never get reattached to any other program, so saving them to unreference later is a waste of code.

glamor: Fix typo in setting v_position's attrib location.
Assuming it was the first attribute assigned by the GL, it would have ended up with location 0 anyway.

glamor: Move shader precision stuff from build time to shader compile time.
This is the last desktop-versus-ES2 build ifdef in core glamor.

glamor: Unifdef the picture-format-to-format-and-type functions.
glamor: Move glamor_get_tex_format_type_from_pictformat to a .c file.

A pair of 150 lines of inlined switch statements in a header file is crazy.

We only ask for GL_RGB on desktop GL as far as I can see, but now if GLES2 did happen to ask for GL_RGB it would return a cache index instead of -1.

glamor: Pass pixmaps around to unifdef glamor_iformat_for_depth().

v2: Just pass in the PicturePtr to glamor_pict_format_is_compatible() (suggestion by keithp)
 glamor: Add a screen argument to drop an ifdef from glamor_set_alu().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 9553020b7184ed7a7e7f3f02d60556d519ea3e769
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 25 11:39:13 2013 -0800

 glamor: Drop a bunch of GLES2 ifdefs.

Now that we're using epoxy, we can write code using both desktop and ES symbols and decide what to use at runtime.

v2: Fix a spelling mistake (latter), since the lines were moved anyway (noticed by Rémi Cardona). Fix condition invert in glamor_set_composite_texture (caught by Michel Dänzer).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com> (v1)
Reviewed-by: Adam Jackson <ajax@redhat.com> (v1)

commit c3c8a5f36034b6a2ce48d1d42e3de5af36406c38
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 25 11:36:35 2013 -0800

 glamor: yInverted is a boolean value, so use the Bool type.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 12cbfeed81d3ae73e10ee8a2b6619fb4f403b8f6
Author: Eric Anholt <eric@anholt.net>
Date: Mon Dec 23 18:00:46 2013 -0800

 glamor: Drop fixed function transformation matrix setup.

gl_ModelViewProjection and friends aren't used in our shaders, so this setup didn't do anything.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 62965d278c347ff323f2262d767978794e32f841
Author: Eric Anholt <eric@anholt.net>
glamor: Drop useless glEnable/glDisable(GL_TEXTURE_2D) calls.

Those calls are only for enabling texture handling in the fixed function pipeline, while everything we do is with shaders.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4afe15d8bfd575c010ed1868697a7922a37ab378
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Dec 18 15:27:52 2013 -0800

glamor: Put in a pluggable context switcher for GLX versus EGL.

The GLX side just gets the context from the current state. That's also something I want to do for EGL, so that the making a context is separate from initializing glamor, but I think I need the modesetting driver in the server before I think about hacking on that more.

The previous code was rather incestuous, along with pulling in xf86 dependencies to our dix code. The new code just initializes itself from the current state.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 781c692cf970642865f0e537f4905c4319f9935
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Dec 18 13:10:24 2013 -0800

glamor: Rename glamor_get/put_dispatch to glamor_get/put_context.

It used to be the thing that returned your dispatch table and happeend to set up the context, but now it just sets up the context.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0373b3f4f7c7aece63346b37f9236a2734dbcc74
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Dec 18 12:18:20 2013 -0800

glamor: Convert to using libepoxy.

Libepoxy hides all the GL versus GLES2 dispatch handling for us, with
higher performance.

v2: Squash in the later patch to drop the later of two repeated
  glamor_get_dispatch()es instead (caught by keithp)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 34dc7fa96457ea6a0703493d74e63cea357712e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Fri Feb 14 00:31:38 2014 -0800

XQuartz: pointer -> void *

  Fix build regression from 60014a4a98ff924ae7f6840781f768c1cc93bbab

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 72237e0908527e9261b91c7db99f32d895947d8d
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 13 15:25:56 2014 -0800

  DIST_SUBDIRS needs to include glamor, even if it isn't built

  Otherwise, glamor won't get cleaned for 'make distclean'

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 783991b1bbee71d91068601789d179d10eb8b544
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Thu Feb 13 17:36:34 2014 -0500

  config: fails to create tarball as xorg-server.conf file removed

  Just need to update EXTRA_DIST

  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 02fbae85e7aa17b213e1411fe558256998d367c4
Author: Alex Deucher <alexander.deucher@amd.com>
Date: Wed Feb 12 13:06:51 2014 -0500

  modesetting: query cursor size from the kernel

  Use new drm caps. This allows hw cursors to work
correctly on gpus with non-64x64 cursors.
Signed-off-by: Alex Deucher <alexander.deucher@amd.com>

commit 30c3852b7f60b0ffb1bb2f6ed8ba880001b32
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 9 16:56:40 2014 -0800

Delete stray ; in struct _DeviceChangedEvent

Caused Solaris Studio cc to complain in every file which included it:
"./include/eventstr.h", line 179: warning: syntax error:
   empty member declaration

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5300212ce8e9364ba26497605f3edc089af20130
Merge: ae796d43c9 0b193b3ac9
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Feb 9 16:05:42 2014 -0800

Merge remote-tracking branch `whot/for-keith`

commit 0b193b3ac94e078d9291d1b1dfd4814e5f2d9e34
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 6 07:59:07 2014 +1000

xfree86: use xnfstrdup in the Xorg -configure code

Just for consistency, I'm pretty sure the code is generally not happy for
malloc failures anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7b1b7fb3be47672454837a3f7be2d1440433ec27
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 5 15:12:22 2014 +1000

mi: fix printf warning about size_t format specifier

mieq,c:290:26: warning: format '%u' expects argument of type 'unsigned int',
but argument 2 has type 'size_t' [-Wformat=]

pnprintf supports size_t since 5ea21560dd071ea4ab87430000d087fd5fe1f092
sync: Avoid ridiculously long timeouts

On OpenBSD, passing a timeout longer than 100000000 seconds to select(2) will make it fail with EINVAL. As this is original 4.4BSD behaviour it is not inconceivable that other systems suffer from the same problem. And Linux, though not suffering from any 4.4BSD heritage, briefly did something similar:

<https://lkml.org/lkml/2012/8/31/263>

So avoid calling AdjustWaitForDelay() instead of setting the timeout to (effectively) ULONG_MAX milliseconds.

ephyr: Repaint entire screen when colormap is updated

Any time the colormap is changed, the entire screen needs to be repainted to match.

configure.ac: add missing "test"

configure.ac: add missing "test"
__glGetProcAddress: explictly cast function pointers to void *

Fixes Solaris Studio compiler warning & error:

"glxext.c", line 557: warning: assignment type mismatch:
    pointer to void "=" pointer to function(void) returning void
"glxext.c", line 559: error: operands have incompatible types:
    pointer to void ":" pointer to function(void) returning void

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 76eedb039fe8d515a76c1df944fd5a85ac674019
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 27 11:36:08 2014 -0800

xfree86: Fix a compiler warning on 64-bit.

asm/mtrr.h makes this an unsigned long on 32, but a u64 on 64. Cast
it to a long to win.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9f8f6657cdd3a5b166771695addb6fe76d93c378
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 27 11:36:07 2014 -0800

glx: Delete dead NV program string functions.

These have been throwing a compiler warning about missing prototypes,
since the generated code to define the prototypes stopped being
generated (possibly because the code was dead).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0c774d53c5e1e8845e7da9b01814d7b98f621f51
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 27 11:36:06 2014 -0800

glx: Reduce compiler warnings by not requesting GL extension prototypes.

They're not officially in the ABI, so you shouldn't use them anyway.
glx: Stop relying on libGL ABI bugs for glGetCompressedTexImage().

In theory, the linux libGL ABI exposes just GL 1.2 plus GLX 1.3. But, thanks to libglapi, we're letting glGetCompressedTexImageARB() be exposed too. The GLX code was inappropriately relying on it by using GL_GLEXT_PROTOTYPES.

glx: Remove left-over glthread.c

Commit be668096 "glx: convert to direct GL dispatch (v2)" removes glthread.c from Makefile.am along with the rest of the dispatch table code, but doesn't remove glthread.c itself.

configure: Don't add GLX_SYS_LIBS to XORG_SYS_LIBS

libglx.so is linked against libGL.so, but Xorg itself should not be.
dix: fix a -Wshadow warning

dispatch.c: In function 'SetVendorString':
dispatch.c:481:29: warning: declaration of 'string' shadows a global declaration [-Wshadow]
SetVendorString(const char *string)
^
dispatch.c:135:21: warning: shadowed declaration is here [-Wshadow]
typedef const char *string;

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 72967d6c153b0d1109df23967e1a05c3c397a1e0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 5 14:32:23 2014 +1000

xfree86: unconstify driver in the XF86ConfInputClassRec

No const value is ever assigned to it, let's not pretend it's const.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f14d6647c0883d4e7e4de7645d7a18e4d301845e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 5 14:30:50 2014 +1000

xfree86: unconstify another string

Only Xorg -configure uses a hardcoded value here, so let's not change the rest
of the server for that.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 46ae9d67e4118fa79bef0f9119d20559df6b6c0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 5 14:24:54 2014 +1000

xfree86: un-constify inp_driver/inp_identifier

The only place this isn't allocated is during Xorg -configure where we just
statically assing "mouse"/"kbd" and the identifiers for it. Everywhere else
it's strdup'd and then free'd already.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 93bf9544712a39f10557533993d8826b2b67fc9a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 5 14:16:01 2014 +1000

xfree86: device name and driver are not const char

Allocated in one place, freed in another.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 25d10464f440b8b34594b7c988a99a830ea39a29
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 24 18:16:54 2014 +1000

dix: fix button state check before changing a button mapping

dev->button->down is a bitmask, not a normal array. Use the helper function to
check, we technically allow the mapping to change after the physical button
has been pressed (but not yet processed yet), so only check BUTTON_PROCESSED.

From XSetPointerMapping(3):
"If any of the buttons to be altered are logically in the down state,
XSetPointerMapping returns MappingBusy, and the mapping is not changed."

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 73926622b91fde01148727f26d6aad5e6827c1d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 24 18:33:54 2014 +1000

include: make the various button array lengths more obvious

No functional changes, just making a better case for why MAP_LENGTH is 256.
"But can't we remove MAP_LENGTH then?" I hear you say? "Why, yes. Go for it!"

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit 87ca80a7196949597113225405f3e4ee03bb2e13
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 24 18:32:54 2014 +1000

dix: prevent a driver from initializing or submitting buttons > MAX_BUTTONS

The server internally relies on arrays with a MAX_BUTTONS maximum size (which is the max the core protocol can transport). Make sure a driver adheres to that.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 14fb6cf92c009d726f0a6b6e8b89cc48f2dd50eb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 30 09:16:23 2014 +1000

Revert "xfree86/common: handle string constants in xf86Xinput configuration"

This reverts commit 22592855e90d23013ba7f9e945d567725eb44bf3.

What warning was this supposed to fix?

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit a553444b5841522836f7437eb96e40be270fd8b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 30 09:12:41 2014 +1000

Revert "xfree86/parser: make strings in xf86MatchGroup const"

This reverts commit f71de60355cc76810657f40c7b5461af86b34bf7.

What warnings?

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 45f1d527f39a2961042fa79a774446e7e1560e0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 30 09:01:09 2014 +1000

input: un-constify dev->name

Fallout from fecc7eb1cf66db64728ee2d68cd9443df7e70879, and reverts most of the rest of that patch.
The device name is allocated and may even change during PreInit. The const warnings came from the test codes, the correct fix here is to fix the test code.

touch.c: In function ‘touch_init’:
touch.c:254:14: warning: assignment discards ‘const’ qualifier from pointer target type [enabled by default]
  dev.name = "test device";

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 675f215af291135ee3ee5414e4a5a2e89bf4ed3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 30 08:52:32 2014 +1000

Revert "os: xstrtokenize takes and returns const char * now"

This reverts commit d0339a5e66846c9f14e3b584e34688520a0916ab.

seriously, what the fuck? Are we making xstrdup() return a const char now too?

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit ce3df579e3f24a169189b288230959527e059080
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 30 08:50:06 2014 +1000

input: un-constify InputAttributes

Introduced in fecc7eb1cf66db64728ee2d68cd9443df7e70879 and reverts most of that but it's helpfully mixed with other stuff.

InputAttributes are not const, they're strdup'd everywhere but the test code and freed properly. Revert the const char changes and fix the test up instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 2fc38d1e299587d25ca8225051e0ea9403164b15
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 29 11:16:51 2014 +1000

xkb: add a call to init an XkbRMLVOSet from const chars

Just forcing everything to const char* is not helpful, compiler warnings are supposed to warn about broken code. Forcing everything to const when it clearly isn't less than ideal.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 6307d60dd592f4b438f880d02bde9fd8d50ae264
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 29 10:47:49 2014 +1000

Xi: remove superfluous cast.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit 83e38eb73fd8c852513aacc2da2975b4c01070ec2
Author: Arun Raghavan <arun@accosted.net>
Date:   Mon Jan 6 20:29:50 2014 +0530

edid: Add quirk for Sony Vaio Pro 13

The detailed timings are for a 15.6" display when max image size
correctly reports 13.3".

Signed-off-by: Arun Raghavan <arun@accosted.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bf83843b92ce21d11f6ff1a407ff3d014e017e9b
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Thu Dec 19 14:10:18 2013 +0100

xf86Events: add Enable/DisableInputDeviceForVTSwitch functions

Factor this code out into functions so that it can be re-used for the
systemd-logind device pause/resume paths.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 48b489769e78fa20911630173ab708fcee8b0f0b0e
Author: Hans de Goede <hdegoede@redhat.com>
Date:   Thu Dec 19 11:28:40 2013 +0100

xf86Events: refactor xf86VTLeave error handling

Use kernel goto style error handling for xf86VTSwitchAway() failure. This
makes it much easier to read the straight path.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 78f0667d6df9cc43a397d9f1490e540936a435d6
Author: Hans de Goede <hdegoede@redhat.com>
Date: Thu Dec 19 11:26:36 2013 +0100

xf86Events: split xf86VTSwitch into xf86VTLeave and xf86VTEnter functions

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33cec8af55d829ed77b297ae356ed7a00ce8523c
Author: Hans de Goede <hdegoede@redhat.com>
Date: Tue Dec 17 09:29:07 2013 +0100

dbus-core: Attempt to connect to dbus ASAP

For systemd-logind integration we need the dbus connection to be available before enumerating input and gfx devices.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 480590b90c3966536451d2a2fecc42a66082ed77
Author: Hans de Goede <hdegoede@redhat.com>
Date: Wed Dec 4 11:10:06 2013 +0100

dbus-core: Make dbus-core no longer mutually exclusive with udev

With systemd-logind the dbus-core will be used for more then just config, so it should be possible to build it even when using a non dbus dependent config backend.

This patch also removes the config_ prefix from the dbus-core symbols.

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c29454ae9d2e8e647732077fdfe97b351095f122
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 12 12:48:57 2013 +1000

cfg: drop the dbus API

This API has been disabled by default since 1.4, the first release it came in. There a no known users of it and even its direct replacement (HAL) has been superseded by udev on supported platforms since 1.8.
This code is untested, probably hasn't been compiled in years and should not be shipped.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 46cf2a60934076bf568062eb83121ce90b6fe596
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Thu Dec 12 14:22:48 2013 -0200

xfree86: Keep a non-seat0 X server from touching VTs (#71258)

Updated patch following Hans de Goede's advice.

If -seat option is passed with a value different from seat0, X server won't call xf86OpenConsole().

This is needed to avoid any race condition between seat0 and non-seat0 X servers. If a non-seat0 X server opens a given VT before a seat0 one which expects to open the same VT, one can get an inactive systemd-logind graphical session for seat0.

This patch was first tested in a multiseat setup with multiple video cards and works quite well.

I suppose it can also make things like DontVTSwitch and -sharevts meaningless for non-seat0 seats, so it may fix bug #69477, too.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=71258
        https://bugs.freedesktop.org/show_bug.cgi?id=69477 (maybe)

See also: http://lists.x.org/archives/xorg-devel/2013-October/038391.html
          https://bugzilla.redhat.com/show_bug.cgi?id=1018196

Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Reviewed-by: Hans de Goede <hdegoede@redhat.com>

commit b3d3fffd19937827bcdbb833a628f9b1814a6e189
Author: ukasz Stelmach <l.stelmach@samsung.com>
Date:   Mon Nov 25 11:54:07 2013 +0100

configure.ac: enable systemd socket activation in libxtrans

Signed-off-by: ukasz Stelmach <l.stelmach@samsung.com>
Signed-off-by: Hans de Goede <hdegoede@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Add RANDR 1.4 requests & events to dix/protocol.txt

Checked against randrproto.txt & randr.h

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

 xf86DeleteScreen: move check for NULL pScrn before first dereference

Flagged by cppcheck 1.62:
[href/xfree86/common/xf86Helper.c:220] -> [href/xfree86/common/xf86Helper.c:231]:
(warning) Possible null pointer dereference: pScrn - otherwise it is redundant to check it against null.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

 On realloc failure, free font_path_string instead of leaking it

Flagged by cppcheck 1.62:
[dix/dixfonts.c:1792]: (error) Common realloc mistake:
'font_path_string' nulled but not freed upon failure

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

 Link libvgahw with $'(PCIACCESS_LIBS) as well
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da1660deeb9032ecca61f4bcde9fc2eecc2ada445
Merge: 0fbb3d711e 9fc19168e7
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jan 27 19:02:15 2014 -0800

Merge remote-tracking branch 'whot/for-keith'

commit 0fbb3d711eefec5222a57b45a70d28fc98380f3a1
Merge: 7ddf4f703 b98e49379c
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jan 27 14:11:09 2014 -0800

Merge remote-tracking branch 'anholt/glamor-reformat'

Conflicts:
   Makefile.am

Conflict caused by adding PSEUDORAMIX and GLAMOR directory defines in separate branches

commit 7ddf4f7033c10b6e92866182d4475a4d49c5083
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jan 22 14:30:28 2014 -0800

Add _XITYPEDEF_POINTER to dix-config.h

Just like the pointer type from Xdefs.h, the Pointer type from XIproto.h collides with local declarations of variables using the same name. XIproto.h can use _XITYPEDEF_POINTER to avoid declaring the unnecessary pointer type.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0b5a87f37d5dcd2ebff977a3b9a50a75ace93c83
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jan 22 19:17:24 2014 -0800

pseudoramiX: Only compile on XQUARTZ and XWIN

PseudoramiXExtensionInit() is not defined in extinit.h if it won't be used and we get a compiler warning when compiling the pseudoramiX code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 61cb6c9aa95aa369573c4e02c023bbc33c7678c9
Author: Keith Packard <keithp@keithp.com>
Date:  Wed Jan 22 19:16:36 2014 -0800

pseudoramiX: Add _X_ATTRIBUTE_PRINTF attributes to debug functions.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9e45a1a030a5e70318441f33a132269a19a43df5
Author: Keith Packard <keithp@keithp.com>
Date:  Fri Nov 15 18:00:53 2013 +0900

Warning fixes in glx

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit b98e49379c8d7cece991207048489f51b10028c
Author: Eric Anholt <eric@anholt.net>
Date:  Wed Dec 18 15:00:19 2013 -0800

glamor: Remove more out-of-tree compat code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 40a8186f0f78b7c36ef7e3d902c53bdc9bb7c650
Author: Eric Anholt <eric@anholt.net>
Date:  Fri Dec 27 12:22:08 2013 -0800

glamor: Remove an extra copy of RegionNil().

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d26f5335151a9e962afa4bbf29ca5b94660a33ca
Author: Eric Anholt <eric@anholt.net>
Date:  Wed Dec 18 11:35:53 2013 -0800

glamor: Hook the module back up to the build.

For now we're just building an uninstalled library. The extra EGL stubs are required so that we can get the DIX building and usable
without pulling in the xf86 DDX code in glamor_egl.c.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 54e78ec31e030d488765341a0c143c5a060c3768
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Jan 22 15:03:26 2014 -0800

glamor: Convert use of the old "pointer" typedef to "void *".

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3c3a44eaa1124b7534b332739158a2a36987ea6b
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Dec 18 11:45:33 2013 -0800

glamor: Silence warnings for non-debug builds.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9af66851e2770bcd8408a0e5ddf8bb8ea816feaa
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jan 24 10:58:04 2014 -0800

glamor: Disable definitions of GL extension prototypes to avoid warnings.

We're not using the extension prototypes, since you have to dlsym them anyway. Disabling their definitions prevents them from being defined twice (once by gl.h, once by glexport.h).

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit a7b8ce8b4207a93c0455a0b796cfe47917c04a9c
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Dec 18 11:41:33 2013 -0800

glamor: Drop xfree86 dependencies from this dix module.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7759e4d090f56cdcad1c8a2acb2c1be20021de5d
glamor: Disable the XV code for now.

We're going to want to make this DIX code instead of XF86 if at all possible, but for now just disable it so we can work on the rest of the build.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b3acb47e98023da898ff4b6a5bac38a78bd7727
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 30 11:30:23 2013 -0400

glamor: Use dix-config.h not project config.h

v2: Also edit the one in glamor_egl.c (by anholt)
v3: Also edit the one in glamor_eglmodule.c (by anholt)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6cc0b7b01599b94af07e9fc8b16134f751ede077
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 30 11:05:40 2013 -0400

glamor/egl: Remove glapi awareness

We only needed this because glx was directly bashing glapi tables. Since that's not the case anymore, we should just MakeCurrent like a real GL app.

v2: Hand-resolve against rebase onto newer server (by anholt)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0c5a7e208601110a0b36d24cdacb4d844af03f75
Author: Eric Anholt <eric@anholt.net>
Date: Tue Dec 17 16:32:17 2013 -0800

glamor: Remove compat code for building out of tree.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 82efb90eefa685678638f94804d773b59ca1643f
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 30 09:56:46 2013 -0400

glamor: Remove copy of sna's compiler.h

Xfuncproto.h has equivalents for these already.

v2: Adjust a couple more likelies after the rebase (anholt)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 714926b090344a17a2f7aee9f4bc6aea4e45f48c
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jan 9 18:23:39 2014 +0800

glamor: Fix up some indentation damage on header prototypes.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7f6e865359c2d055db4eb7d82b4779b3d7c5d264
Author: Eric Anholt <eric@anholt.net>
Date: Fri Dec 27 11:46:30 2013 -0800

glamor: Fix some indent damage of putting a ` ' after the `*' for pointers.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5f57d436c391c51f3f90958b033f6ee3eb7a1136
Author: Eric Anholt <eric@anholt.net>
Date: Tue Dec 24 15:59:14 2013 -0800
glamor: Fix some mangling of shader strings by indent.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d84d71029ae9e462559d64eff7259e2cc7732fac
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 18 11:59:07 2013 -0800

glamor: Apply x-indent.sh.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e8e9a54c47deedbc13b8969ed29e16463b0314a0
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 18 11:56:15 2013 -0800

glamor: Touch up some code so indent doesn't get confused.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9fc19168e7ca6308275bf8769d1ccb982f88465b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Jan 24 23:42:49 2014 -0800

Check for calloc() failure in add_master()

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 76b3be75b62657e346731444736f7e4d200beb5b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 24 16:51:02 2014 +1000

Xi: fix modifier offset in XIPassiveGrab swapping function

The request is followed by mask_len 4-byte units, then followed by the actual modifiers.

Also fix up the swapping test, which had the same issue.
dix: Praise clients which haven't run for a while, rather than idle clients

A client which is ready, but hasn't run for a while, should receive the same benefit as one which has simply been idle for a while. Use the smart_stop_tick to see how long it has been since a client has run instead of smart_check_tick, which got reset each time a client was ready, even if it didn't get to run.

---

The signal formatting tests intentionally include code which generates warnings with the current X server warning flags. Turn the compiler warnings off.

---

Declare 'XID id' local to each scope it is used in, rather than having the first use be a function-wide declaration.
test/xi2: Clean up -Wshadow warnings

protocol-common declares a bunch of pretty generic names; fix shadows of these names.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 92a9495800cf59b917c30d5fba4f7eca10d19cf
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jan 12 10:42:01 2014 -0800

kdrive/ephyr: Remove extra \i variable in ProcXF86DRIGetDrawableInfo

Just re-use the top-level one

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 988877065486d0f25cc85be5be05f4523ce883c7
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:57:09 2013 -0800

randr: Eliminate -Wshadow warnings

Don't use rrScrPriv for nested screen private fetching.

Eliminate a duplicate fetch of the randr screen private in rrCheckPixmapBounding.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit f46c487625e1ffbc78df5153128c68bd6bc41104
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:56:36 2013 -0800

hw/xnest: Eliminate shadowed names

Just rename stuff; nothing fancy here.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1f3676a81ef2c52699bdcf1fb9da7e4e79b00b7
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:55:43 2013 -0800
hw/vfb: Rename screenInfo parameter to screen_info

Avoid shadowing the global screenInfo value.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 89c0fa3d6c8ae67084a30395085db6d872d9d6de
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:55:06 2013 -0800

kdrive: Fix -Wshadow errors

Just rename stuff to avoid conflicts.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9c108b3ccdb4086002b83d9ad66f5619e9ec95bb
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:53:50 2013 -0800

exa: Fix -Wshadow warnings

In exa_accel, there was a duplicate fetch of a pixmap private field.

exa_render just had a regular shadowed value.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 04e320a4e4e1f46b95e36078d93b4d18a0ef855
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:52:58 2013 -0800

composite: Remove duplicate window pixmap fetch

There's nothing between the previous fetch and this one that could cause the window pixmap to have changed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 07b03e7721e4dbec1a640c9b3bb8a2d5902587e63
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:41:19 2013 -0800

xfree86: Fix -Wshadow warnings
Just rename variables to eliminate -Wshadow warnings.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 3c94b89f149c2d63424faed0d44a6911393c3569
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:40:04 2013 -0800

Xi: Use 'void *' instead of 'Pointer' (which is going away)

There's no reason for XI to declare 'typedef char *Pointer' in a
shared header file; assume it will eventually go away and stop using
it here.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 08d0481e299c28b64a0db9bb0782ba2b551028fd
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:12:22 2013 -0800

os: Fix -Wshadow errors

Rename variables to avoid shadowing globals

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1487145b41390e689f8b03c1e8a2df70e00cf519
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Dec 13 11:25:45 2013 -0800

Add 'FONT_PATH_NAME_ELEMENT_CONST' to dix-config.h and xorg-server.h

This signals to the fontsproto code that the X server has been fixed
to allow the name member in a FontPathElement struct to be declared
const to eliminate piles of warnings when assigning string constants
to them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 1ad8d12e7fcd7d55a37099d7426e3290297ba6d3
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Dec 13 11:24:00 2013 -0800
Ignore a couple of format-nonliteral warnings

These are generated in code which uses sprintf as a convenient way to construct strings from various pieces.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 9ef53e2267ea3dd60651961f66e65e8b00b7d823
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 11 11:55:37 2013 -0800

include: GetClientResolutions is declared in font.h

No need to have a duplicate definition here.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 25ebb9dbc9df659dec2bf6c27654a5bad2d11f94
Merge: 409e8e29fb 71baa466b1
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 22 11:33:53 2014 -0800

Merge remote-tracking branch 'whot/for-keith'

commit 409e8e29fbeb16122ba5a4249256fc56e2e68ea93
Merge: 457bc83549 d6c8d75097
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 22 11:32:35 2014 -0800

Merge remote-tracking branch 'dlespiau/20131216-4k'

commit 457bc83549e58bb87de96bed02988db3275a7611
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Jan 4 00:09:45 2014 -0800

If EAGAIN == EWOULDBLOCK, only need to check errno for one of them

Solaris <sys/errno.h> has:
#define EWOULDBLOCK EAGAIN
so checking (errno == EAGAIN || errno == EWOULDBLOCK) is overkill.

This leads cppcheck 1.62 to complain:
[xserver/os/io.c:365] -> [xserver/os/io.c:365]: (style) Same expression on both sides of '||'.
[xserver/os/io.c:941] -> [xserver/os/io.c:941]: (style) Same expression on both sides of '||'.

This quiets it, and reduces the number of calls Solaris Studio cc
generates to the __errno() function to get the thread-specific errno value.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 044a6ef2ff5f2c83a80b11e747f62f48830b526b
Merge: 0b932cf47a 77df653ae3
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 22 11:28:54 2014 -0800

    Merge remote-tracking branch 'jeremyhu/master'

commit 0b932cf47a4df8ea0f7488e285d218fe7c10dd77
Merge: 1d76b02fac 295d41fa2a
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 22 11:27:36 2014 -0800

    Merge remote-tracking branch 'anholt/xserver-unifdef'

commit 1d76b02fac79c0360ae201e4d1a8ba0e9a00e810
Merge: 771f390efd 4dd62d7807
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 22 11:22:35 2014 -0800

    Merge remote-tracking branch 'anholt/glamor-external-rebase'

commit 771f390efd48cb7c44fe20857f06f8ffff3b2ce
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 21 19:58:32 2013 -0500

    autoconf: fix warning by replacing AC_WARN with AC_MSG_WARN

A warning about the macro generating the warnings to the user...

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c3819da87ff2e8cc6292066f965c098704edc442c
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 21 19:58:31 2013 -0500

    xorg-tls: fix warning, replace AC_TRY_COMPILE with AC_COMPILE_IFELSE

The code produced in the configure script is identical.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 02d866a088a2fc60c6aaebe23c48b372f6b6aa9b
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 21 19:58:30 2013 -0500

  autoconf: fix warning, replace AC_TRY_COMPILE with AC_COMPILE_IFELSE

  The code produced in the configure script is identical.

  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit e38c98fe74394a138ebadb29b1cfe1d4ea7f7071
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 21 19:58:29 2013 -0500

  autoconf: fix warning, replace AC_TRY_LINK with AC_LINK_IFELSE

  The code produced in the configure script is identical.

  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4993590c90b1289171a2ca0e74d9c310f5318c7
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 21 19:58:28 2013 -0500

  autoconf: fix warning by replacing deprecated AC_HELP_STRING

  We can also make do without the workaround introduced in 2005.
  The 2.60 autoconf minimum version covers that now.

  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1d4dbc2f2b4d2acca2691c3c7464a45aac59d73f
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Wed Dec 4 13:28:04 2013 -0500

  libtool: bump minimum required version to 2.2

  LT_PREREQ([2.2])
  LT_INIT
AC_CONFIG_MACRO_DIR([m4]) is recommended to locate local macros, which is fully used starting automake 1.14.

ACLOCAL_AMFLAGS in Makefile.am is deprecated since automake 1.14. The comment is to prevent developers from removing the statement as suggested in 1.14 which would break earlier versions.

Automake 1.14 is already in use by many. This patch works on versions prior and post 1.14

References:
Building the X Window System from Source:
http://www.x.org/wiki/Building_the_X_Window_System/#index2h3

Discussion on xorg minimum autotools requirements:
http://lists.x.org/archives/xorg-devel/2013-October/038325.html

Tested with autoconf 2.60, automake 1.10.3 and libtool 2.2

The same upgrade will be applied to libraries and drivers.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 71baa466b1f6b02fe503f9a3089b7b9d61a0f80
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jan 13 17:00:23 2014 +1000

os: restrict display names to digits

We call atoi() on the server's display to get the socket but otherwise use the unmodified display for log file name, xkb paths, etc. This results in Xorg:banana being the equivalent of Xorg :0, except for the log files being in /var/log/Xorg.banana.log. I'm not sure there's a good use-case for this behaviour.

Check the display for something that looks reasonable, i.e. digits only, but do allow for :0.0 (i.e. digits, followed by a period, followed by one or two digits).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 77df653ae3d8448be21221711851acde1266bc1a
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Wed Jan 1 11:10:41 2014 -0800
XQuartz: Avoid passing uninitialized pointers to X11ApplicationSetWindowMenu in AppleWMSWindowMenu

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 3bc608a361a01043b226fb9aaebf88f6fd852925
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Wed Jan 1 11:04:07 2014 -0800

XQuartz: Check for allocated memory before using it in AppleWMSWindowMenu

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 64327226dd7ba8f0653615cd678d2d4336fbb993d
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Wed Jan 1 11:00:40 2014 -0800

XQuartz: Silence a clang static analysis warning about a memory leak

It seems the analyzer can't comprehend dixSetPrivate().

quartz.c:119:12: warning: Potential leak of memory pointed to by 'displayInfo'
    return quartzProcs->AddScreen(index, pScreen);
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit b2f6b3497c33a4897af380a2c69e596b9f81e8
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Wed Jan 1 10:55:10 2014 -0800

XQuartz: Silence a clang static analysis warning about a possible memory leak on exit

stub.c:356:9: warning: Potential leak of memory pointed to by 'newargv'
    asl_log(aslc, NULL, ASL_LEVEL_ERR,
        ~~~~~
stub.c:356:9: warning: Potential leak of memory pointed to by 'newenvp'
    asl_log(aslc, NULL, ASL_LEVEL_ERR,
        ~~~~~
2 warnings generated.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit a03f096a85537d9e881cedaa6cb71aca43a97086
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Wed Jan 1 10:47:52 2014 -0800

XQuartz: Validate length in appledri before swapping
Avoids potential memory corruption from bad requests

Signed-off-by: Jeremy Huddleston Sequoia < jeremyhu@apple.com >

commit b3572c0d1ab7888ac26d6b2b8be6d1d19ed9af3f
Author: Jeremy Huddleston Sequoia < jeremyhu@apple.com >
Date:   Wed Jan 1 10:39:56 2014 -0800

XQuartz: Validate screen in AppleDRIQueryDirectRenderingCapable requests

Return an error to the caller rather than crashing the server on invalid screens.

Signed-off-by: Jeremy Huddleston Sequoia < jeremyhu@apple.com >

commit 959e8f23af7850fca40d6c67f5228241a36a9ab
Author: Jeremy Huddleston Sequoia < jeremyhu@apple.com >
Date:   Sun Dec 29 12:45:23 2013 -0800

XQuartz: Simplify hook_run to quiet static analyzer

x-hook.c:96:9: warning: Called function pointer is an uninitialzed pointer value
(*fun[i])(arg, data[i]);
^~~~~~~~~~~~~~~~~~~~~~~
1 warning generated.

Signed-off-by: Jeremy Huddleston Sequoia < jeremyhu@apple.com >

commit f79af1941776fd6f1ec26c50603fcc35ca7d514b
Author: Jeremy Huddleston Sequoia < jeremyhu@apple.com >
Date:   Sun Dec 29 12:41:18 2013 -0800

XQuartz: Mark applicationWillTerminate: noreturn

X11Controller.m:938:1: warning: method 'applicationWillTerminate:' could be declared with attribute 'noreturn'
[-Wmissing-noreturn,Semantic Issue]
{
^ 1 warning generated.

Signed-off-by: Jeremy Huddleston Sequoia < jeremyhu@apple.com >

commit ea80279e292e59a9fe9651489f03e9f2f39810d9
Author: Jeremy Huddleston Sequoia < jeremyhu@apple.com >
Date:   Sun Dec 29 12:36:51 2013 -0800

XQuartz: Fix get_proc_address signature

indirect.c:675:28: warning: incompatible pointer types passing 'glx_gpa_proc (*)(const char *)' to parameter of
type 'glx_gpa_proc' (aka 'glx_func_ptr (*)(const char *)) [-Wincompatible-pointer-types,Semantic Issue]

__glXsetGetProcAddress(&get_proc_address);
^~~~~~~~~~~~~~~
../../../glx/glxserver.h:122:42: note: passing argument to parameter 'get_proc_address' here [Semantic Issue]

void __glXsetGetProcAddress(glx_gpa_proc get_proc_address);
^ 

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2e3ebec9520719a8e5c3c92390e83bcb5216f978
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Dec 29 12:31:23 2013 -0800

XQuartz: Fix darwinfb.h header guard

./darwinfb.h:28:9: warning: '__DARWIN_FB_H' is used as a header guard here, followed by #define of a different macro
[-Wheader-guard,Lexical or Preprocessor Issue]

^~~~~~~~~~~~
./darwinfb.h:29:9: note: '__DARWIN_DB_H' is defined here; did you mean '__DARWIN_FB_H'? [Lexical or Preprocessor Issue]

^~~~~~~~~~~~
__DARWIN_FB_H

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 9d6c0918f40359f28e8889d5b7cae7efcc8377
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Dec 29 12:22:55 2013 -0800

XQuartz: Silence some static analyzer warnings by annotating referencing counts

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2d2d49dab5c5718989de97d7227aaac793479745e
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 29 15:18:28 2013 -0800

Clean up a few function prototypes to not place formals in /**/ 

This just removes the comment markers from around the formals in several function prototypes near where pointer -> void * changes were made. There are plenty more of these to fix.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit 60014a4a98f924ae7f6840781f768c1cc93bbab
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 15 01:05:51 2013 -0800

Replace 'pointer' type with 'void *'

This lets us stop using the 'pointer' typedef in Xdefs.h as 'pointer' is used throughout the X server for other things, and having duplicate names generates compiler warnings.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 93fa64e17d7bd600ebf18ecab85f5b2d17fe30ce
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 11 12:18:49 2013 -0800

Don't build dmx by default

It's clearly un-loved, having piles and piles of warnings. If someone wants to fix it up to compile without warnings, we can re-enable it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 319dff7750f99a28a1544bcb81d52172e641ad1ca
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 11 12:18:16 2013 -0800

hw/xfree86: nobus.c shouldn't define a static function

Having this function be static generates a compiler warning.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7915791bac3ff609e94f355fbb637d7c570a5b32
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 11 12:17:45 2013 -0800

kdrive/ephyr: Don't redeclare monitorResolution

It's already declared in globals.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit aa47a4409660634d80c3423ad49b70ca929a8756
kdrive/ephyr: ddxUseMsg is supposed to return

I'm not sure why ephyr thinks that ddxUseMsg shouldn't return, but it's not declared to exit.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 86d68825c2b75ea9e10954f9e00b44b33b38d8b2
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 11 11:55:01 2013 -0800

vfb: Remove unused pXWDCmap variable

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7353ec7cb6fc235b03e59e35425201429c83ee72
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 11 11:32:19 2013 -0800

xfree86: Switch int10 code to stdint types

CARD32 is not type compatible with uint32_t and ends up generating a pile of warnings. Fix this by replacing all of the CARD* types with stdint types.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 93b15b1a47eb414338e8b229f25f11bdca099471
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 11 11:31:46 2013 -0800

xfree86: Don't complain when the SDK dependency file doesn't exist yet

It won't exist until the build is complete, so don't complain about it

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit eda935627116dd106b99dbce95d90a723a2de330
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:35:21 2013 -0800
xkb: Make XkbWriteCountedString take a const char * input parameter

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d0339a5c66846e9f14e3b584e34688520a0916ab
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:34:59 2013 -0800

os: xstrtokenize takes and returns const char * now

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c608560dbbac18837cb00ef0d774a66ea7706534
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:33:59 2013 -0800

xfree86/vbe: Make VBEValidateModes take const char **

mode names are now const

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3835e8b0a1cc7b1e971bce3f9453422feci014b10
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:33:18 2013 -0800

xfree86/shadowfb: GCFuncs and GCOps are now const

Change GC private to match and fix resulting warnings

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f71de60355cc76810657f4oc7b5461af86b34bf7
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:32:40 2013 -0800

xfree86/parser: make strings in xf86MatchGroup const

and fix resulting warnings

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2a93e75ff81b095be9c6b80906e23ec705d52df5
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:31:55 2013 -0800

xfree86/int10: mark printk as _X_ATTRIBUTE_PRINTF

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7fe436a7b786ff02ed55cfe9ed65edfd2fe07c22
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:31:06 2013 -0800

xfree86/fbdevhw: Fix warnings

Unused fPtr variable. Deal with string constants.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6990de00eb23478d9343660ad3981fb1d33f8be4
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:30:29 2013 -0800

xfree86/esa: xf86GetOptValString returns const char * now

fix exaDDXDriverInit to match.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 017307f0b41476c3c73a9414a7ce9eb42373c3f4
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:29:30 2013 -0800

xfree86/dri: Mark DRIDrvMsg and dri_drm_debug_print _X_ATTRIBUTE_PRINTF

And fix resulting warnings.

v2: (Adam Jackson) Cast handles through uintptr_t to avoid size change warnings

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 22592855e90d23013ba7f9e945d567725eb44bf3
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 16 23:28:48 2013 -0800
xfree86/common: handle string constants in xf86Xinput configuration

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3a163d2af48a7cf8fd5c2db6ac68166a5fdbeb8d
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:28:16 2013 -0800

xfree86/common: Const GC funcs and ops in xf86VAarbiter

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8a9aa44a45377d8953d11a0b035c86eb139283ba
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:26:19 2013 -0800

xfree86/config: Kludge around const strings

defaultFontPath is now a const char * so that it can be initialized
from a string constant. This patch kludges around that by inserting
suitable casts to eliminate warnings. Fixing this 'correctly' would
involve inserting some new variables and conditionals to use them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 86647e7279163b13492d39ecb9c44414b752a61e
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:25:50 2013 -0800

config/udev: handle const strings

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit b7633c6ff2c273621df6c0fac9c269f8ab217a46
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 16 23:24:03 2013 -0800

composite: Remove unused pScreen variables

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5bc5684d4cb4905cd82fe1c036ccc8a48c3c4868f
Author: Keith Packard <keithp@keithp.com>
test: Warning cleanup

const char in test/xfree86.c. Cast values to (intmax_t) for %ju format in test/signal-logging.c.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xi: More warning cleanup for input

Lots more const char stuff.

Remove duplicate defs of CoreKeyboardProc and CorePointerProc from test/xi2/protocol-common.c

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

exa: Clean up warnings

Declare GC ops/funcs as const.
Use 'typeof' in the 'swap' macro to capture the right type.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 05:28:47 2013 -0800

xkb: Clean up warnings
Add const to lots of strings.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit abce3206cbc82f632aba5344e0ce46622e00f24
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 05:19:24 2013 -0800

os: Clean up warnings
Just const char stuff.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a1cb69dc28f0fbfdaf954e0bec221f759462399
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 22:05:44 2013 +0900

Xext: Clean up warnings
GC funcs and ops are const.
Remove unused variables.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2f6e8eb70db527541178433933d6230466421bd15
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 22:02:58 2013 +0900

damage: Clean up warnings
GC funcs and ops are const now, so all wrappers need to declare them
as such.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c706f0db86d6946482700d65ad6803c4dacea6f9
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 22:00:29 2013 +0900
Clean up warnings in mi.

A couple of unused variables, and some debug code with mis-matching printf format and variable types.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d89b42bda46d36fc0879611ec3b3566957ce36d0
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 21:57:05 2013 +0900

Clean up warnings in DIX

As usual, mostly const char changes. However, filter_device_events had a potentially uninitialized value, 'raw', which I added a bunch of checks for. I suspect most of those are 'can't happen', but it's hard to see that inside the function.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d6da9f23cca562fc0c6ae398665ab7fa770a4fa8
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 18:07:54 2013 +0900

hw/xfree86: More const declarations for strings

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 644725ac5e28a00d8c24372f55ae7e2fe0cb2e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 18:06:37 2013 +0900

Just remove dpms function from xf86.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c85e26d59901fbf8c7a437cf934b51fa64160073
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 17:55:15 2013 +0900

Bunch of DMX warning fixes

Signed-off-by: Keith Packard <keithp@keithp.com>
More warning fixes in hw/xfree86

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86 warning reduction

This gets the easy warnings, mostly constant string problems.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Xext: _X_EXPORT DPMSSet and DPMSSupported

These are needed by drivers, and it's better to export them from here rather than redefining them in hw/xfree86 and exporting them from there.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

include: Make xkbrules structures all const char *

This lets them be initialized with string constants

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
xfree86/common: Warning fixes. Mostly const string handling.

Also removes DPMS functions from Xext/dpmsproc.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 27b44949a3d2e34ac10e801bd8a8f2c28791e7e
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 16:24:15 2013 +0900

hw/xfree86: Lots of constant string support

Make lots of string pointers 'const char' so that we can use constant strings with them without eliciting warnings.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6f77e2645ea36e324ccc664aa1d3646418bdea
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 15 13:40:30 2013 +0900

hw/xfree86: Make strings in DriverRec and ScrnInfoRec const

This avoids compiler warnings when initializing with string constants.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e81902872176fa9848211fcd7a5eafa4f861a1b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 9 15:29:23 2014 +1000

ephyr: don't allow a shift+ctrl keygrab if mod1 was enabled

Xephyr wants ctrl+shift to grab the window, but that conflicts with ctrl+alt+shift key combos. Remember the modifier state on key presses and releases, if mod1 is pressed, we need ctrl, shift and mod1 released before we allow a shift-ctrl grab activation.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b2d5ee2e3684951b611fd2068d57cc65fd8305a3
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Thu Jan 2 21:33:30 2014 +0100
Xi: Ensure DeviceChanged is emitted after grabs are deactivated

When a grab on a slave device is deactivated, the master device must
be checked, just in case there were events from other devices while
the slave device was stolen away by the passive grab. This may
introduce misbehaviors on mismatching valuators and device features
later on UpdateDeviceState().

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 863d2ad5c02ccde9a4d1a392a7cae78d001c8a9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jan 6 17:10:40 2014 -0800

CheckPassiveGrabsOnWindow() needs to handle NULL return value from AllocGrab()

CheckPassiveGrabsOnWindow() calls AllocGrab() which can fail and return NULL.
This return value is not checked, and can cause NULL pointer dereferences.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5493a67ec256d22a8a41597a345d8e1c54d6e335
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jan 6 17:10:39 2014 -0800

GrabDevice() needs to handle NULL return value from AllocGrab()

GrabDevice() calls AllocGrab() which can fail and return NULL.
This return value is not checked, and can cause NULL pointer dereferences.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3a113815a0cc86d64789494e905da9778174f738
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jan 6 17:10:38 2014 -0800

If AllocGrab() fails to set up grab, don't copy to a NULL grab

If either the initial calloc or the xi2mask_new fails, grab is NULL,
but if a src grab is passed in, it was always being written to by
CopyGrab (and if that failed, dereferenced again in teardown).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a92c6406e7f6c0b74fb1cb9361ad904face0722
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 9 11:10:11 2014 +0800

Bump release to 1.15.99.900

The merge window for 1.16 is open

Signed-off-by: Keith Packard <keithp@keithp.com>

commit d6c8d7509727060b8e2358b9ed1c0e17b2ec3401
Author: Damien Lespiau <damien.lespiau@intel.com>
Date: Wed Jul 31 19:16:45 2013 +0100

xfree86: Use the TMDS maximum frequency to prune modes

Instead of only relying on the Range section, we can do better on HDMI to find out what is the max dot clock the monitor supports. The HDMI CEA vendor block adds a TMDS max freq we can use.

This makes X not prune 4k resolutions on HDMI.

v2: Replace X_INFO by X_PROBED in the message that prints the max TMDS frequency (Chris Wilson)

Reviewed-by: Chris Wilson <chris at chris-wilson.co.uk>
Signed-off-by: Damien Lespiau <damien.lespiau@intel.com>

commit 95c2287465138ac251bf792f354ce3626e76b44
Author: Damien Lespiau <damien.lespiau@intel.com>
Date: Wed Aug 7 15:16:21 2013 +0100

xfree86: Refactor xf86MonitorIsHDMI() using xf86MonitorFindHDMIBlock()

Reviewed-by: Chris Wilson <chris at chris-wilson.co.uk>
Signed-off-by: Damien Lespiau <damien.lespiau@intel.com>

commit a279fb3ff3f3cfc41530aff1d9ff562079348f6
Author: Damien Lespiau <damien.lespiau@intel.com>
Date: Wed Jul 31 19:11:45 2013 +0100

xfree86: Add a xf86MonitorFindHDMIBlock()
The HDMI CEA vendor specific block has some interesting information, such as the maximum TMDS dot clock.

v2: Don't parse CEA blocks with invalid offsets, remove spurious brackets (Chris Wilson)

v3: Fix the looping through the CEA data blocks, it had a typo using the wrong variable coming from the code it was ported from.
Replace x << 16 + y << 8 + z by x << 16 | y << 8 | z
(Chris Wilson)

v4: Remove the stray ';' at the end of "if (*end == 0)".
(Dominik Behr on IRC)

Reviewed-by: Chris Wilson <chris at chris-wilson.co.uk>
Signed-off-by: Damien Lespiau <damien.lespiau@intel.com>

commit 295d41fa2a97b74c1b9ffdf7ef4ccf52f3e97dde
Author: Eric Anholt <eric@anholt.net>
Date: Mon Dec 16 10:52:19 2013 -0800

glx: undef swrast dri_interface.h values from Mesa 7.1.

We can't remove all the ifdefs (__DRI_TEX_BUFFER_VERSION) because configure.ac is only checking for that version of Mesa in the absence of dri2.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 4ab1a2797ba366179f8a2e621334dd45df2a5a65
Author: Eric Anholt <eric@anholt.net>
Date: Tue Nov 5 11:41:06 2013 -0800

glx: undef for DRI2 dri_interface.h things in mesa 9.2.

Thanks to configure.ac's check, we know that we have a new enough dri_interface.h that we don't need to conditionalize all this code.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 2ea973e12f5d954211e1d10085a4c74581b43aca
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 27 09:50:55 2013 -0800

Bump version to 1.15.0

Signed-off-by: Keith Packard <keithp@keithp.com>
commit 2eb9915eea358f941702d3dad7434197991885c5
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 12 15:48:08 2013 -0800

    present: Set complete notify mode to Skip as needed

    Skipped present pixmap calls were not setting the mode to
    PresentCompleteModeSkip for skipped operations.

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit e487babd525ef1bd016eec7b283fa08cf9e6c6f4f
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 12 14:52:35 2013 -0800

    present: Don't abandon presents which are already queued for flip

    Presents which are not marked 'queued' and are in the window present
    list are waiting for the flip event; discarding those won't work very
    well (it'll end up trashing displayed content for the next frame), so
    skip over those when looking for duplicate frame presents

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit ca3a5b2a8f9f627bbaa9883e16512a21c2a0b81d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 12 14:17:40 2013 -0800

    present: Handle PresentOptionAsync for copy mode

    Check for Async flag and execute immediately if set, otherwise wait
    for the next appropriate vblank before copying.

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit a68df147421da21528b5be2d34678383922fa352
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 19 14:31:07 2013 -0800

    Bump version to 1.14.99.905 (1.15 RC5)

    Another week, another RC. This should be the last before 1.15 final

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4b1ead9d3400acc3402ce2480d7cc0527750c32f0
Merge: 4d62646142 929795d50d
Merge remote-tracking branch 'whot/for-keith'

commit 4dd62d7807b47efbc9065ae8f17f73e1ec6e9d26
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Dec 19 14:14:59 2013 -0800

libglamoregl: remove -I$top(rootsrcdir)/src

Automake always provide -I. It is at the beginning of the list of compiler options.

Not needed either to find glamor_egl.c source.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 08c23ff8aece80f2940e909adda27156084f57c
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Dec 10 11:13:31 2013 -0500

Make: remove cruft copied over from the X server makefiles

In toplevel makefile:
  nostdinc: only xserver, no other X modules
aclocaldir: no local macros to install
xkb_path: xserver only
"Gross hack": xserver only

In src/makefile:
  SOLARIS_ASM_CFLAGS: server only
  XORG_INCS: undefined variable
  DIX_CFLAGS: undefined variable

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b8055bd1f6c9dea0fe8f7a786d2a1522f5f32129
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Dec 13 11:33:46 2013 +1000

glamor: fix leak in xv code.

This loop needed to go one higher, not sure if this fixes the leak
MrCooper was seeing on irc, but it fixes a leak.
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 752a79562eb13f59fa54b4181d65367c8488c0a5
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Dec 8 16:43:08 2013 -0500

Fix glamor_egl->egl_create_image_khr makes pointer from integer

This is a warning, but a real problem can occur on some system.

Reported-by: Fabio Pedretti <fabio.ped@libero.it>
Reviewed-by: Axel Davy <davyaxel@free.fr>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7cfd9cc23270c0246d584e167fe14bf5af4571df
Author: Axel Davy <axel.davy@ens.fr>
Date:   Thu Dec 5 08:49:15 2013 +0100

Add DRI3 support to glamor

This implements some DRI3 helpers to help the DDXs using glamor to support DRI3.

Signed-off-by: Axel Davy <axel.davy@ens.fr>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 06ba3fdfd6162a64c149ea66da85f9f56d7f3c31
Author: Zhigang Gong <zhigang.gong@intel.com>
Date:   Tue Nov 19 15:16:57 2013 +0800

Fixed some compilation warning/error or error checking.

There is one compilation error .cast int to pointer, when built without libgbm, reported by Gaetan Nadon.
And some error checking after memory allocation, reported by Seth Arnold.
There are still some similar issues in the largepixmap implementation.
They are relatively more complicate due to the heavy usage of RegionXXX APIs which may allocate implicitly. Will fix them in the future.

Signed-off-by: Zhigang Gong <zhigang.gong@intel.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit a5321ea431376feaca2dcd55cf04925dc492270fc
Author: Axel Davy <axel.davy@ens.fr>
Date:   Mon Nov 18 22:52:22 2013 +0100
Allow to create textured pixmaps from gbm_bo without using gem names

This implements glamor_egl_create_textured_pixmap_from_gbm_bo, which is similar to glamor_egl_create_textured_pixmap, except it takes a gbm_bo as argument.

Signed-off-by: Axel Davy <axel.davy@ens.fr>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 403004fe799f293bf299f78da821635b19d9a1a
Author: Fabio Pedretti <fabio.ped@libero.it>
Date: Mon Nov 4 12:08:42 2013 +0100

glamor: remove unused variable

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 842cd7eb4353492bc9c29439f975c3bd33445cbd
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Wed Nov 6 10:25:27 2013 +0100

fixup picture in SetWindowPixmap

When creating a window with recordmydesktop running, the following may happen:

create picture 0x1cd457e0, with drawable 0x1327d1f0
(SetWindowPixmap is called)
destroy picture 0x1cd457e0, with drawable 0x1cd65820

Obtaining format for pixmap 0x1327d1f0 and picture 0x1cd457e0
==7989== Invalid read of size 4
==7989== at 0x8C8A0CA: glamor_get_tex_format_type_from_pixmap (glamor_utils.h:1252)
==7989== by 0x8CAD1B7: glamor_download_sub_pixmap_to_cpu (glamor_pixmap.c:1074)
==7989== by 0x8CA8BB7: _glamor_get_image (glamor_getimage.c:66)
==7989== by 0x8CA8D2F: glamor_get_image (glamor_getimage.c:92)
==7989== by 0x29AEF2: miSpriteGetImage (misprite.c:413)
==7989== by 0x1E7674: compGetImage (compinit.c:148)
==7989== by 0x1F5E5B: ProcShmGetImage (shm.c:584)
==7989== by 0x1F686F: ProcShmDispatch (shm.c:1121)
==7989== by 0x15D00D: Dispatch (dispatch.c:432)
==7989== by 0x14C569: main (main.c:298)
==7989== Address 0x1cd457f0 is 16 bytes inside a block of size 120 free'd
==7989== at 0x4C2B60C: free (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==7989== by 0x228897: FreePicture (picture.c:1477)
==7989== by 0x228B23: PictureDestroyWindow (picture.c:73)
==7989== by 0x234C19: damageDestroyWindow (damage.c:1646)
==7989== by 0x1E92C0: compDestroyWindow (compwindow.c:590)
The fix is to update the picture pointer when the window pixmap is changed, so it moves the picture around with the window rather than the pixmap.

This makes FreePicture work correctly.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=71088
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2925db6616944c8d1e911caee0637a005586576
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Nov 2 00:08:11 2013 +0800

Fixed an incorrect printf format.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=69573

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 644e05562e401f192c93964be06c33fe92099089
Author: Brian Paul <briancp@vmware.com>
Date:   Sat Oct 19 16:10:54 2013 -0600

Remove useless return statement

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8c51eb8239247c98057eb9daf06c905a1dc0588c
Author: Brian Paul <briancp@vmware.com>
Date:   Sat Oct 19 16:10:53 2013 -0600

Remove redundant dispatch->glEnable(GL_TEXTURE_2D)

The same call was already made a few lines earlier.

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3bf1eb577e2d2b4d55d38b5a0043b0efb9abb385
Fix _glamor_set_spans() bug (re-used 'n' variable)

n was used as a function parameter. But inside the for (i=1..n) loop, n got re-assigned as REGION_NUM_RECTS() and then decremented to zero by the while loop. This caused the for loop to only iterate once instead of 'n' times.

This patch renames the n parameter to numPoints.

Found by code inspection. Untested.

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2f62bd46cc002af57f8fe3246b9aea9e0c0bbcc9
Author: Grigori Goronzy <greg@chown.ath.cx>
Date: Wed Oct 2 00:37:57 2013 +0200

glamor_render: fix PictFilters

Add Fast/Good/Best and appropriately map to Nearest and Bilinear. Additionally, add a fallback path for unsupported filters.

Notably, this fixes window shadow rendering with Compiz, which uses PictFilterConvolution for some odd reason.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 5695708ecd2a26fcb9c05985c6758e719071995a
Author: Grigori Goronzy <greg@chown.ath.cx>
Date: Wed Oct 2 00:37:56 2013 +0200

Use GL_STATIC_DRAW for element index buffer

The buffer never changes anyway.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8afa008ec4b393666bb3c506a711b4d50cc4e756
Author: Grigori Goronzy <greg@chown.ath.cx>
Date: Wed Oct 2 00:37:55 2013 +0200

Use glDrawRangeElements instead of glDrawElements

This lets us explicitly specify the range of vertices that are used,
which the OpenGL driver can use for optimization. Particularly, it results in lower CPU overhead with Mesa-based drivers.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 229601e080ae0afad21927c1449cd520733317858b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Sep 27 05:25:54 2013 +0800

Shoud return null subpixmap if we fail to get a valid map address.

The patch is prepared by Raul Fernandes.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=86693
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e3d1d4e3caab8076eba89b58d037d24e203e506
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Sep 23 06:42:24 2013 +0100

glamor: add initial Xv support

This does YV12 and I420 for now, not sure if we can do packed without a GL extension.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 39e95cd0f0f50cf471d8220d5428788d5be6a59d3f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Fri Sep 20 10:41:10 2013 +0200

Reset traps_count and ptrap when necessary for the next trapezoid cliprect

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=64912
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: He Junyan <junyan.he@inbox.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 61fca4342a65be2dbcf7f890f2e67da56a50db978
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Tue Sep 17 13:25:02 2013 +0200

Fix RegionContainsRect test for PutImage

The return value of RegionContainsRect() is not a boolean but an enum indicating that the region contains the rectangle completely, partially
or not at all. We can only take the PutImage fastpath when the region contains the rectangle completely.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=65964
Signed-off-by: Michel Dänzer <michael.daenzer@amd.com>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2ea618f2cf906fec9807b321f9e8ef3a4706c708
Author: Christian König <christian.koenig at amd.com>
Date:   Mon Aug 26 14:57:47 2013 +0800

Use GBM_LIBS and GBM_CFLAGS

Signed-off-by: Christian König <christian.koenig at amd.com>
Reviewed-by: Michel Dänzer <michael.daenzer at amd.com>

commit 7e818f7d39cfe2701fe9cf95c7854ee8c9f3be6
Author: Armin K <krejzi@email.com>
Date:   Wed Mar 13 18:49:32 2013 +0100

First attempt to make libglamor.so shared versioned library

As recommended by Michel in this thread reply:

v2: Correct shared library location in glamor.pc.in

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=62259

Reviewed-by: Michel Dänzer <michael.daenzer@amd.com>

commit b0318b6de7a2f8c5d9e75b55211dccc0b12f811fc
Author: Armin K <krejzi@email.com>
Date:   Wed Mar 13 18:28:58 2013 +0100

Properly dist necesary headers

Reviewed-by: Michel Dänzer <michael.daenzer@amd.com>

commit fc179bb8637778c03288beba258358c3bd66aa0c
Author: Armin K <krejzi@email.com>
Date:   Wed Mar 13 18:28:57 2013 +0100

Silence Automake 1.13 warnings

warning: 'INCLUDES' is the old name for 'AM_CPPFLAGS' (or "_CPPFLAGS")

Reviewed-by: Michel Dänzer <michael.daenzer@amd.com>
commit 97416e3f144606728a963aa2a337b1283e156ad2
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Mar 13 17:15:33 2013 +0100

glamoregl: Use xf86ScreenToScrn()

Fixes crashes when glamor is used for a GPU screen with xserver 1.13 or
newer.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=57200#c17

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 4c5bfda529f6f182a30ac1bb5c3170a297f460
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat Dec 29 06:42:30 2012 +0000

glamor_utils: fix unlikely define use

using a define across a split line expression is failure, compiling
with warnings shows this up.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 6b95f480c25af353dd4679cfdad6664b107d4df6
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat Dec 29 06:42:10 2012 +0000

glamor: add compiler.h

This is also required for distchecking.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit efbdc9e90f36494b07508aeab40c9eb01eab398
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat Dec 29 06:28:17 2012 +0000

glamor: fix make distcheck part 1

This just adds the headers, then it falls over on the sdk_HEADERS
as it overrides proper install paths by the looks of it.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 80f5e21daeed79f54d6e1976f2766eb528f01d47
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Nov 13 10:08:02 2012 +0800

glamor_compositerects: Need to initialize region before fallback.

As we need to call DamageRegionAppend even for fallback path, we must initialize the region before do that. Pointed by Igor Vagulin.

https://bugs.freedesktop.org/show_bug.cgi?id=56940

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 14e02f5132d7b4f50e8d9f8e5c6a0f285a3f3c14
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Oct 31 16:56:00 2012 +0100

Don't use glBlitFramebufferEXT for overlapping copies.

According to the GL_EXT_framebuffer_blit spec, the result of doing so is undefined. But we need well-defined results. :)

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>

commit e846f48f489e33e270db682b1b6c8e6f03fd313
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 8 20:43:38 2012 +0800

Increase vbo size to 64K verts.

This commit will benefit vertex stressing cases such as aa10text/rgb10text, and can get about 15% performance gain.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Acked-by: Junyan <junyan.he@linux.intel.com>

commit b8f0a2188295f6cc2c997b6639b6928323ae617
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 8 20:11:43 2012 +0800

Silence compilation warnings.

After increase to gcc4.7, it reports more warnings, now fix them.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Tested-by: Junyan He<junyan.he@linux.intel.com>
commit 50614451adafc816ae5ffbe9c2a97a58f493b927
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Aug 8 20:08:12 2012 +0800

glamor_largepixmap: Fixed a bug in repeat clipping.

If the repeat direction only has one block, then we need to set the
dx/dy to cover all the extent. This commit also silence some compilation
warnings.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7eb434918bd7d58162c53fac9316aceda136cb6f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Tue Aug 7 18:16:58 2012 +0200

Prefer KHR_surfaceless_context EGL extension over KHR_surfaceless_opengl/gles2.

Current Mesa Git only advertises the former instead of the latter.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 59653fa08a67a0694b3408407f5f92af99470739
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Tue Aug 7 18:13:32 2012 +0200

Print space between name of missing EGL extension and 'required'.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c3096c5a568c9c7b5f8a68ca882d866b8fb8e3ad
Author: Junyan He <junyan.he@linux.intel.com>
Date: Tue Aug 7 05:01:59 2012 +0800

Fallback to pixman when trapezoid mask is big.

The trapezoid generating speed of the shader is relatively
slower when the trapezoid area is big. We fallback when
the trapezoid's width and height is bigger enough.
The big traps number will also slow down the render because
of the VBO size. We fallback if ntrap > 256

Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Reviewed-By: Zhigang Gong <zhigang.gong@linux.intel.com>

commit f62f4d53ef91ba05cc9456b1468cd1b24252454f
glamor_glyphs: When dst arg point to a NULL buffer, don't flush.

This is a corner case, when we render glyphs via mask cache, and when we need to upload new glyphs cache, we need to flush both the mask and dest buffer. But we the dest arg may point to a NULL buffer at that time, we need to check it firstly. If the dest buffer is NULL, then we don't need to flush both the dest and mask buffer.

This commit fix a potential crash.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e7af7cb76dade31b9e40cede7ac21d32bc95831c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Aug 1 18:27:29 2012 +0800

glamor_trapezoid: workaround a glsl like problem.

It seems that the following statement cann't run as expected on SNB.
bool trap_left_vertical = (abs(trap_left_vertical_f - 1.0) <= 0.0001);

Have to rewrite it to another style to let the vertical edge trapezoid to be rendered correctly.

Reviewed-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 5512c14e346a988f6eb8cddf9385a868ef705450c
Author: Junyan He <junyan.he@linux.intel.com>
Date: Fri Jul 20 05:52:50 2012 +0800

Fix the problem of VBO leak.

In some cases we allocate the VBO but have no vertex to emit, which cause the VBO fail to be released. Fix it.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 9f78e22fa62d8f1a08d6a0688e2eafba35206a3b
Author: Junyan He <junyan.he@linux.intel.com>
Date: Fri Jul 20 05:52:50 2012 +0800

Just use the shader to generate trapezoid if PolyMode == Imprecise

The precise mode of trapezoid rendering need to sample the trapezoid on
the centre points of an \((2*n+1)\times(2*n-1)\) subpixel grid. It is computationally expensive in shader, and we use inside area ratio to replace it. The result has some difference, and we just use it if the polymode == Imprecise.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit fe024a78220a6d61c6b1df89166da953b19b633a
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Fri Jul 20 05:52:43 2012 +0800

Change the trapezoid render to use VBO.

Because some uniform variables need to be set for every trapezoid rendering, we can not use vbo to render multi trapezoids one time, which have performance big loss. We now add attributes which contain the same value to bypass the uniform variable problem. The uniform value for one trapezoid will be set to the same value to all the vertex of that trapezoid as an attribute, then in FS, it is still a constant.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 9dff3378e5c39b346985924f9ab6291069cc7b6e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jul 16 17:27:22 2012 +0800

Added the missed header file for xorg 1.13 compat.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bc1b412b3b0bb716702ec89ae512f2b5ec62c17a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jul 16 11:25:09 2012 +0800

Synch with xorg 1.13 change.

As xorg 1.13 change the scrn interaces and remove those global arrays. Some API change cause we can't build. Now fix it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 4c27ca4700e4ba4ae19d77377a7776eb32f74647
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jul 13 09:20:02 2012 +0800

gles2: Fixed the compilation problem and some bugs.
Previous patch doesn't set the offset to zero for GLESv2 path. Now fix it.

This patch also fix a minor problem in pixmap uploading preparation. If the revert is not REVERT_NORMAL, then we don't need to prepare a fbo for it. As current mesa i965 gles2 driver doesn't support to set a A8 texture as a fbo target, we must fix this problem. As some A1/A8 picture need to be uploaded, this is the only place a A8 texture may be attached to a fbo.

This patch also enable the shader gradient for GLESv2. The reason we disable it before is that some glsl linker doesn't support link different objects which have cross reference. Now we don't have that problem.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 006fe0e66df4b214ca5c50241b3cca22d31161df
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Thu Jul 12 18:57:06 2012 +0800

Stream vertex data to VBOs.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 551ca11c77d0524ceb37eb26caf0c25e4d7d806f
Author: Michel Dänzer <michel.daenzer@amd.com>
Date:   Wed Jul 11 15:01:15 2012 +0800

Fix translation of clip region for composite fallback.

Fixes incorrectly clipped rendering. E.g. the cursor in Evolution composer windows became invisible.

Signed-off-by: Michel Daenzer <michel.daenzer@amd.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 88c317fb1e6a9056acab4a76c0ee0bf283e001ce
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jul 4 17:59:25 2012 +0800

glamor_glyphs: Don't merge extents for different lists.

If we merge all lists's extent together, than we may have some fail overlap checking. Here is a simple:
The first list has vertical "ABCD". And the second list has two char "EF". When detecting E, it can successfully find it doesn't overlap with previous glyphs. But after that, the original code will merge the previous extent with E's extent, then the extent will cover "F", so when detecting F, it will be treated as overlapped.

We can simply solve this issue by not merge extent from different list. We can union different list's extent to a global region. And then do the intersect check between that region and current glyph extent, then we can avoid that fail checking.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 32a7438bf79573100862ad91c5722d12623a8bf9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jul 3 18:24:07 2012 +0800

glamor_copyarea: Use blitcopy if current state is not render.

Practically, for pure 2D blit, the blit copy is much faster than textured copy. For the x11perf copywinwin100, it's about 3x faster. But if we have heavy rendering/compositing, then use textured copy will get much better (>30%) performance for most of the cases.

So we simply add a data element to track current state. For rendering state we use textured copy, otherwise, we use blit copy.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0706423bcfd7a589bab3b41fe9f13d0b636ecdef
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jul 3 18:11:12 2012 +0800

glamor_glyphs: Use cache picture to store mask picture if possible.

By default, mask picture is newly created, and each time we need to clear the whole mask picture, and then composite glyphs to the mask picture and then composite the mask picture to destination.

Testing results shows that the filling of the mask picture takes a
big portion of the rendering time. As we don't really need to clear
the whole region, we just need to clear the real overlapped region.

This commit is to solve this issue. We split a large glyphs list to
several lists and each list is non-overlapped or overlapped.

we can reduce the length of overlapped glyphs to do the glyphs_via_mask
to 2 or 3 glyphs one time for most cases. Thus it give us a case to allocate a
small portion of the corresponding cache directly as the mask picture.
Then we can rendering the glyphs to this mask picture, and latter we
can accumulate the second steps, composite the mask to the dest with
the other non-overlapped glyphs's rendering process.
It also make us implement a batch mask cache blocks clearing
algorithm to avoid too frequently small region clearing.

If there is no any overlapping, this method will not get performance gain.
If there is some overlapping, then this algorithm can get about 15% performance
gain.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 4d1a2173f2e5a200d1535a4a459fff75cd5f779
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jun 27 12:53:40 2012 +0800

glamor_compositerects: Implement optimized version.

Don't call miCompositeRects. Use glamor_composite_clipped_region
to render those boxes at once.
Also add a new function glamor_solid_boxes to fill boxes at once.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit dd7924339803b51332e94d36eb48549e9d24d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 20:00:21 2012 +0800

optimize: Use likely and unlikely.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d5f03ba0109bc50e159c82d3d67c7fa8fc174134
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 19:56:27 2012 +0800

create_pixmap: use texture for large glyphs.

As we only cache glyphs smaller than 64x64, we need to use
texutre for the large glyphs.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 90dd6ddbab864aa6c3add55c46a85d7db2c125f6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 17:19:16 2012 +0800

glamor_copyarea: Fixed a bug introduced by 996194...
Default return value should be FALSE.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b8dd2a597de455ae985302d1b93d865ef9f37c7b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 16:24:32 2012 +0800

glamor_glyphs: Slightly performance tuning.
As glamor_glyphs never fallback, we don't need to keep the underlying glyphs routines, just override the ps->glys

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3873d412f018b975feaa000cb7ef337f3aeee37d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 15:39:24 2012 +0800

glamor_render: Don't allocate buffer for vbo each time.
We can reuse the last one if the last one is big enough to contain current vertex data. In the meantime, Use MapBufferRange instead of MapBuffer.

Testing shows, this patch brings some benefit for aa10text/rgb10text. Not too much, but indeed faster.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 682f5d2989306856c0c193b0b4abd8c104a9ba92
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 26 13:09:05 2012 +0800

glamor_largepixmap: Walkaround for large texture's upload.
I met a problem with large texture (larger than 7000x7000)'s uploading on SNB platform. The map_gtt get back a mapped VA
without error, but write to that virtual address triggers
BUS error. This work around is to avoid that direct uploading.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 37d4022f01483ee06b5f12e13ca2ed4003c8f0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 25 23:24:37 2012 +0800

            glamor_render: Optimize the two pass ca rendering.

            For the componentAlpha with PictOpOver, we use two pass
            rendering to implement it. Previous implementation call
            two times the glamor_composite,... independently which is
            very inefficient. Now we change the control flow, and do
            the two pass internally and avoid duplicate works.

            For the x11perf -rgb10text, this optimization can get about
            30% improvement.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 21916cf84f0cd9ada8701650d39b5cf67646eaf7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 25 16:37:22 2012 +0800

            glamor_composite_glyph: Optimize glyphs with non-solid pattern.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c1bd50d58d2c7b39e2b5c529bd86fde1ab14d8e6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jun 21 19:30:51 2012 +0800

            glamor_glyphs: Detect fake or real glyphs overlap.

            To split a glyph's extent region to three sub-boxes
            as below.

            left box  2 x h
            center box (w-4) x h
            right box  2 x h

            Take a simple glyph A as an example:

```
*  
___* *___
 *****
*   *
```
The left box and right boxes are both 2 x 2. The center box is 2 x 4.

The left box has two bitmaps 0001'b and 0010'b to indicate the real inked area.
The right box also has two bitmaps 0010'b and 0001'b.

And then we can check the inked area in left and right boxes with previous glyph. If the direction is from left to right, then we need to check the previous right bitmap with current left bitmap.

And if we found the center box has overlapped or we overlap with not only the previous glyph, we will treat it as real overlapped and will render the glyphs via mask.

If we only intersect with previous glyph on the left/right edge. Then we further compute the real overlapped bits. We set a loose check criteria here, if it has less than two pixel overlapping, we treat it as non-overlapping.

With this patch, The aa10text boost fom 1660000 to 320000. Almost double the performance! And the cairo test result is the same as without this patch.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ea4c22716ca1544e924c7462db6a2797afebff59
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jun 21 19:29:06 2012 +0800

  glamor_render: Don't fallback when rendering glyphs with OpOver.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7acbe895618837305cf4050731ecd1cd3bc11589
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jun 21 19:27:07 2012 +0800

  glamor_create_pixmap: Allocate glyphs pixmap in memory.

As we have glyphs atlas cache, we don't need to hold each glyphs on GPU. And for the subsequent optimization, we need to store the original glyphs pixmap on system memory.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 1e4fc85a71cc6498a7e11872026062fceb5bbdf1
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jun 21 19:26:28 2012 +0800

glamor_fbo: fix a memory leak for large pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2122e60b9027b63ddc59c0aa2a441af3687cb3a
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Fri Jun 15 09:00:15 2012 +0800

Fix a bug for trapezoid clip

We find in some cases the trapezoid will be render as a triangle and
the left edge and right edge will cross with each other just bellow
the top or over the bottom. The distance between the cross point and
the top or bottom is less than pixman_fixed_1_minus_e, so after the
fixed converted to int, the cross point has the same value with the
top or bottom and the triangle should not be affected. But in our
clip logic, the cross point will be clipped out. So add a logic
to fix this problem.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 6ed418d17b5143f32b3b415103f3157a1b05e3db
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 15 13:31:30 2012 +0800

gles2_largepixmap: force clip for a non-large pixmap.

One case we need force clip when download/upload a drm_texture
 pixmap. Actually, this is only meaningful for testing purpose.
As we may set the max_fbo_size to a very small value, but the
drm texture may exceed this value but the drm texture pixmap
is not largepixmap. This is not a problem with OpenGL. But for
GLES2, we may need to call glamor_es2_pixmap_read_prepare to
create a temporary fbo to do the color conversion. Then we have
to force clip the drm pixmap here to avoid large pixmap handling
at glamor_es2_pixmap_read_prepare.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c41d5c79e7d8772be38b77122817fb872f2d721d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 15 09:03:42 2012 +0800

glamor_emit_composite_vert: Optimize to don't do two times vert coping.
We change some macros to put the vert to the vertex buffer directly when we calculating it. This way, we can get about 4% performance gain.

This commit also fixed one RepeatPad bug, when we RepeatPad a not exact size fbo. We need to calculate the edge. The edge should be 1.0 - half point, not 1.0.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8656d2b77a38e5cd15e6d00e6ba19778e34e9e9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 15 08:46:24 2012 +0800

glamor_glyphs: Before get upload to cache flush is needed.

When we can't get a cache hit and have to evict one cache entry to upload new picture, we need to flush the previous buffer. Otherwise, we may get corrupt glyphs rendering result.

This is the reason why user-font-proxy may fail sometimes.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 016995334e6acfa41574a9270b716db98ec697f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 15 08:43:37 2012 +0800

copyarea: Cleanup the error handling logic.

Should use ok rather than mixed ok or ret.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b4a499b7db068117801770b7ab80416014822101
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 12 18:21:10 2012 +0800

trapezoid: Fallback to sw-rasterize for large pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8f31aed48ca9412f8f5df9e3d47d938c7e90bcb
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Tue Jun 5 03:21:03 2012 +0800

Use the direct render path for A1
Because when mask depth is 1, there is no Anti-Alias at all, in this case, the directly render can work well and it is faster.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit fa74a213ad175cb0920905a8011c62efdd348d45
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Mon Jun 4 07:52:05 2012 +0800

Add the trapezoid direct render logic

We firstly get the render area by clipping the trapezoid with the clip rect, then split the clipped area into small triangles and use the composite logic to generate the result directly. This manner is fast but have the problem that some implementation of GL do not implement the Anti-Alias of triangles fill, so the edge sometimes has sawtooth. It is not acceptable when use trapezoid to approximate circles and wide lines.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 5f1560c84aa386bb12dc6ec3daeb93e0f63c09c2
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Mon Jun 4 07:22:27 2012 +0800

Modify the composite logic to two phases

We seperate the composite to two phases, firstly to select the shader according to source type and logic op, setting the right parameters. Then we emit the vertex array to generate the dest result. The reason why we do this is that the shader may be used to composite no only rect, trapezoid and triangle render function can also use it to render triangles and polygens. The old function glamor_composite_with_shader do the whole two phases work and can not match the new request.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 0b0391765f3ca0192b00f4970c9453934d529397
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Mon Jun 4 03:18:40 2012 +0800

Add macro of vertex setting for triangle stripe
Add macro of vertex setting for triangle stripe draw, and make the code clear.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit bd180be619c2ef469ca40cf95023340c59960540
Author: RobinHe <robinhe@robinhe-desktop.lan>
Date:   Sat Jun 2 22:00:09 2012 +0800

Use shader to generate the temp trapezoid mask

The old manner of trapezoid render uses pixman to generate a mask pixmap and upload it to the GPU. This effect the performance. We now use shader to generate the temp trapezoid mask to avoid the uploading of this pixmap. We implement a anti-alias manner in the shader according to pixman, which will caculate the area inside the trapezoid dividing total area for every pixel and assign it to the alpha value of that pixel. The pixman use a int-to-fix manner to approximate but the shader use float, so the result may have some difference. Because the array in the shader has optimization problem, we need to emit the vertex of every trapezoid every time, which will effect the performance a lot. Need to improve it.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit 6dd81c5939197eb51bc31ffbc3e6f359f2aad191
Author: RobinHe <robinhe@robinhe-desktop.lan>
Date:   Sat Jun 2 21:52:25 2012 +0800

Create the file glamor_triangles.c

Create the file glamor_trapezoid.c, extract the logic relating to trapezoid from glamor_render.c to this file.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

commit bf38ee407ba1038a25efa58b8475bcf084a21042
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 11 14:02:59 2012 +0800

Enable large pixmap by default.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
largepixmap: Fix the selfcopy issue.

If the source and destination are the same pixmap/fbo, and we
need to split the copy to small pieces. Then we do need to
consider the sequence of the small pieces when the copy area
has overlaps. This commit take the reverse/upsidedown into
the clipping function, thus it can generate correct sequence
and avoid corruption self copying.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 5325c800f706f46085735d608f57d513da63cddf
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 11 11:42:46 2012 +0800

largepixmap: Support self composite for large pixmap.

The simplest way to support large pixmap's self compositing
is to just clone a pixmap private data structure, and change
the fbo and box to point to the correct postions. Don't need
to copy a new box.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1d2d858b8daacdd349084433a8af60d559f6a9d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 11 09:36:56 2012 +0800

largepixmap: Add transform/repeat/reflect/pad support.

This commit implement almost all the needed functions for
the large pixmap support. It's almost complete.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 48916a23a92366128f5a1ebeb08949d8d32383c32
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jun 11 02:27:00 2012 +0800

glamor_getimage: should call miGetimage if failed to get sub-image.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 56d6e7a85fbe8e50c38efda0f59f09aee52b769a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Jun 11 02:24:41 2012 +0800

glamor_putimage: Correct the wrong stride value.

We should not use the destination pixmap's devkind as the input image data's stride.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit eb6f981ba4d3a4aff1b3651bdad3cd7a52233b41
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Jun 11 02:15:53 2012 +0800

largepixmap: Enable glamor_composite.

Now we start to enable glamor_composite on large pixmap. We need to do a three layer clipping to split the dest/source/mask to small pieces. This commit only support non-transformation and repeat normal case.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e96ea02010874a3a46f212f42134083bd29fefe3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Jun 11 01:52:14 2012 +0800

largepixmap: Implement infrastructure for large pixmap.

Added infrastructure for largepixmap, this commit implemented:
1. Create/Destroy large pixmap.
2. Upload/Download large pixmap.
3. Implement basic repeat normal support.
3. tile/fill/copyarea large pixmap get supported.

The most complicated part glamor_composite still not implemented.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ace35e408cd7a79c5215bbd0f14b624d8d949e34
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Jun 11 01:02:30 2012 +0800

glamor_largepixmap: first commit for large pixmap.

This is the first commit to add support for large pixmap. The large here means a pixmap is larger than the texture's
size limitation thus can't fit into one single texture.

The previous implementation will simply fallback to use a in memory pixmap to contain the large pixmap which is very slow in practice.

The basic idea here is to use an array of texture to hold the large pixmap. And when we need to get a specific area of the pixmap, we just need to compute/clip the correct region and find the corresponding fbo.

We need to implement some auxiliary routines to clip every rendering operations into small pieces which can fit into one texture.

The complex part is the transformation/repeat/repeatReflect and repeat pad and their combination. We will support all of them step by step.

This commit just add some necessary data structure to represent the large pixmap, and doesn't change any rendering process. This commit doesn't add real large pixmap support.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Fix the problem of x_source and y_source causing radial error

The x_source and y_source cause some problem in gradient. The old way to handle it by recalculate P1 P2 to minus the x_source and y_source, but this causes problem in radial shader. Now we modify the manner to set the texture coordinates: (x_source, y_source) --> (x_source + width, y_source + height) to handle all the cases.

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 553910d08b93ef80cc25fcbfd7876726778bc655
Author: Junyan He <junyan.he@linux.intel.com>
Date: Tue May 15 10:07:55 2012 +0800
Fix the problem of vertical and horizontal case error in linear gradient.

1. The vertical and horizontal judgement in linear gradient have problem when p1 point and p2 point distance is very small but the gradient pict have a transform matrix which will convert the X Y coordinates to small values. So the judgement is not suitable. Because this judgement's purpose is to assure the divisor not to be zero, so we simply it to enter horizontal judgement when p1 and p2's Y is same. Vertical case is deleted.

2. Delete the unused p1 p2 uniform variable.

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Fix the problem of set the same stop several times.

Some gradient set the stops at the same position, for example: firstly 0.5 to red color and then set 0.5 to blue. This kind of setting will cause the shader work not correctly because the percentage caculating need to use the stop[i] - stop[i-1] as dividend. The previous patch we just kill some stop if the distance between them is 0. But this cause the problem that the color for next stop is wrong. We now modify to handle it in the shader to avoid the 0 as dividend.

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Fix a bugy macro definition.

The macro like "#define LINEAR_SMALL_STOPS 6 + 2" causes the problem. When use it to define like "GLfloat stop_colors_st[LINEAR_SMALL_STOPS*4];" The array is
small than what we supposed it to be. Cause memory
corruption problem and cause the bug of render wrong
result. Fix it.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Extract the gradient related code out.

1. Extract the logic of gradient from the glamor_render.c
to the file glamor_gradient.c.
2. Modify the logic of gradient pixmap gl draw. Use the
logic like composite before, but the gradient always just
have one rect to render, so no need to set the VB and EB,
replace it with just call glDrawArrays. 3. Kill all the
warning in glamor_render.c

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Extract the gradient related code out.

1. Extract the logic of gradient from the glamor_render.c
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replace it with just call glDrawArrays. 3. Kill all the
warning in glamor_render.c

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor_set_destination_pixmap_priv_nc: set drawable's width x height.

Previous implementation set the whole fbo's width and height as the
viewport. This may increase the numerical error as we may only has
a partial region as the valid pixmap. So add a new marco
pixmap_priv_get_dest_scale to get proper scale factor for the
destination pixmap. For the source/mask pixmap, we still need to
consider the whole fbo's size.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Remove the texture cache code.

Caching texture objects is not necessary based on previous testing.
To keep the code simple, we remove it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c5b3c2cedc8b2e486b1e3727f288c42869310387
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue May 15 10:42:41 2012 +0800

Added strict warning flags to CFLAGS.

We miss the strict warning flags for a long time, now add it back.
This commit also fixed most of the warnings after enable the strict flags.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 6839996b0b0fe5f4e6ef28d1de527092d60d28a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 18:23:09 2012 +0800

We should not call gradient finalization code if we disable it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1035fc72b9017eb2466760133ca7bc9155c8c46
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 14:55:34 2012 +0800

Fixed all unused variables warnings.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 33e11cd6149294060269ed693de67b135868e094
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 14:54:38 2012 +0800

Fixed an uninitialized problem at gradient shader functions.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c0f75c657f36642faea4ff8e51f7e4f6971c3d19
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 14:51:27 2012 +0800

Fixed one typo bug when fixup a mask picture.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 5c1f15fac26b86b6cb73776db1a644d6af570da7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 14:13:47 2012 +0800

    Added some copyright and author information.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0d846d95699fadcdcc77b8d6e432e969467dab2
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 13:43:39 2012 +0800

    Added --enable-debug configuration option.

    For release version, we disable asserts.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 503f8ec1a670e73f41314a5e94cdde8782d7cbab
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 28 13:42:48 2012 +0800

    Remove unnecessary header file.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9dfd10dc75efdf4c26b7ff46b55e4a2d2453803b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 27 15:34:15 2012 +0800

    glamor_render: Fix the repeat none for GLES2.

    As GLES2 doesn't support clamp to the border, we have to
    handle it separately from the normal case.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9fcd123aed80430b220fc4141eaa3723d7cb611e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Apr 26 20:35:09 2012 +0800

    glamor_blockhandler: Don't do glFinish every time.

    To do glfinish every time bring some performance overhead.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1f83411c9a69a44944fd8afe0c167cece60c1ecb

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 33983
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Apr 26 19:59:58 2012 +0800

glamor_copyarea: Return earlier if have zero nbox.

Almost all callers will check whether the regions is empty before call to this internal API, but it seems the glamor_composite_with_copy may call into here with a zero nbox. A little weird, as the miComputeCompositeRegion return a Non-NULL, but the region is empty.

Also remove a unnecessary glflush.

So let's check it here.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 20cbb61cda41e61526a57f13475cb31e17e5dd
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Apr 26 19:57:21 2012 +0800

glamor_render: Have to use eaxct size pixmap for transformation.

Use partial texture as the pixmap for the transformation source/mask may introduce extra errors. have to use eaxct size.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 6e50ee9c108e6d7ce4ebfcd08cfc97896e8e194e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Apr 26 18:31:07 2012 +0800

glamor_fbo: Added a threshold value for the fbo cache pool.

Currently set it to 256MB. If cache pool watermark increases to this value, then don't push any fbo to this pool, will purge the fbo directly.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 540846204cc3239233c5608a29bfe0607d77e44
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Apr 26 18:28:17 2012 +0800

Fixed a1 bug.

It seems that mesa has bugs when uploading bitmap to texture.
We switch to convert bitmap to a8 format and then upload the a8 texture.

Also added a helper routine to dump 1bpp pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9f53cc1c3369fc61630b238f1b347a92fabf5a5a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 22:35:12 2012 +0800

glamor_render.c: Fixed repeatPad and repeatRelect.

We should use difference calculation for these two repeat mode when we are a sub region within one texture.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 67cf3838e4acd788b0ce413dcbe9896e2ca20e56
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 19:50:57 2012 +0800

gradient: Don't need fixup flag when creating pixmap.

Gradient can use a larger texture/fbo directly, don't need an exact size texture.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8a85071edbd90780b286fa4b19205540fb276815
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 18:58:16 2012 +0800

glamor_copyarea: Don't access a DRM only pixmap.

As EGL image/gbm only support ARGB8888 image, we don't support other format. We may change the way to use gbm directly latter. But now, we have to face this limitation, and thus if a client create a 16bpp drawable, and call get texture from pixmap then a copy to here may occur and thus we have to force return a TRUE without doing nothing.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0b6867ddbed186c46048c610299ac0d6e9e0f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 13:54:40 2012 +0800
Disable A8 texture format for GLES2.

As PVR's GLES2 implementation doesn't support A8 texture as rendering target, we disable it for now.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 6b664dda69afa6c477c0a083739093fa15fc674380
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 13:51:58 2012 +0800

gradient: Disable gradient for gles2.

As PVR glsl compiler seems doesn't support external fragment function, and fails at compile gradient shader. Disable it for now. We may need to modify gradient shader to don't use external function.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 686a322c76fa20ed45d5bbfc9742024300e83e7d
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Wed Apr 18 08:04:26 2012 +0800

Fix the bug caused by gradient picture set the stops at the same percentage.

Fix the bug caused by gradient picture set the stops at the same percentage. The (stops[i] - stops[i-1]) will be used as divisor in the shader, which will cause problem. We just keep the later one if stops[i] == stops[i-1].

Signed-off-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 3d96929596fd3a6da41aeb5cb9d7fb1cf28b2a03
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Wed Apr 25 14:25:39 2012 +0800

Fix the problem of memory leak in gradient pixmap generating.

Fix the problem of memory leak in gradient pixmap generating. The problem caused by we do not call glDeleteShader when destroy a shader program. This patch will split the gradient pixmap generating to three category. If nstops < 6, we will use the no array version of the shader, which has the best performance. Else if nstops < 16, we use array version of the shader, which is
compiled and linked at screen init stage. Else if nstops > 16, we dynamically create a new shader program, and this program will be cached until bigger nstops.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 05da99106b81465488c9879cfdf709fd40c7b9e5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 11:59:47 2012 +0800

glamor_putimage: Optimize for direct uploading and fallback path.

This commit optimize two cases:
1. When the clip contains the whole area, we can directly upload the texel data to the pixmap, and don't need to do one extra clipped copy.

2. At fallback path, we don't read back the whole pixmap, just need a sub region.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ea70ebe0ac9fe5b3d0ad553f9ae4d2829bf9a62
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 11:56:43 2012 +0800

Fixed one potential texture size mismatch problem.

There are two cases which we may use a wrong texture size.
1. A pixmap is modified by the client side after it created it. Then the pixmap's width may mismatch the original fbo/tex's size. Thus we need to check this condition when preparing upload the pixmap.

2. We provide two API to download/upload sub region of a textured pixmap. The caller may pass in a larger width then the original pixmap's size, this may happen at putimage and setspans. We need to validate the width and height when do the downloading/uploading.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 08e8c00fe6a21741ff9f38652c2f9d2310f1ce5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 25 09:27:06 2012 +0800

glamor_getimage: Don't fallback to miGetImage.
As miGetImage is very inefficient, we don't fallback to it.
If the format is not ZPixmap, we download the required sub-
region, and then call fbGetImage to do the conversion.
This way is much faster than previous.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9bcdff93b79fd8978426d9832a5edd60ac410c0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 13 18:15:49 2012 +0800

pending_op: Remove the pending operations handling.

We have disabled this feature for a long time, and previous
testing shows that this(pending fill) will not bring observed
performance gain. Now remove it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1761768f49a356f50645da53305e6b4bdef5c5f4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 23:50:09 2012 +0800

glamor_upload_pixmap: Use glTexImage2D for a fully update.

Currently, intel's mesa dri driver will not check pbo for
a TexSubImage2D. So we use glTexImage2D if we are a fully
updating.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2806f1eaced851e4c88055c53d706f7beef8b555
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 23:49:38 2012 +0800

glamor_setspans: Reuse glamor_upload_sub_pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e15bc1207480d7d198862861d40af58903b4d0f0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 23:18:47 2012 +0800

code clean up.

Remove unused variables.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 65c5605c9693c8d30e597ac029be936495f23927
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 23:16:51 2012 +0800

glamor_getspans: Reuse glamor_download_sub_pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 68a5cc6f371e1f07ce176e154331daaf5d9ef0e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 19:46:09 2012 +0800

glamor_render: Don't download whole picture when fallback.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e38eb675321dce1b39cebdf177a6398de567d7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 19:43:44 2012 +0800

glamor_put_sub_pixmap: Change to use glamor_upload_sub_pixmap.

As the pixmap may be attached to a picture, we need to use
glamor_upload_sub_pixmap to process it. glamor_copy_n_to_n
will not consider the picture case.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ff3d2c796363ea603ab92995091a967a3f8636d7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 17:09:06 2012 +0800

Fixed a stride problem for textured_drm pixmap.

As a textured_drm pixmap has a drm bo attached to it, and
it's the DDX layer to set it stride value. In some case,
the stride value is not equal to PixmapBytePad(w, depth)
which is used within glamor.

Then if it is the case, we have two choice, one is to set
the GL_PACK_ROW_LENGTH/GL_UNPACK_ROW_LENGTH when we need
to download or upload the pixmap. The other option is to
change the pixmap's devKind to match the one glamor is using
when downloading the pixmap, and restore it to the drm stride
after uploading the pixmap.

We choose the 2nd option, as GLES doesn't support the first
method.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 70b71718e737872ddf4f6c7285d4260a099d17
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 14:36:09 2012 +0800

glamor_putimage: Reuse copy area to do the clipped copy.

If no clip set, we load the bits to the pixmap directly.
Otherwise, load the bits to a temporary pixmap and call
glamor_copy_area to do the clipped copy.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e1be714312d8d596f6be268cb8a4e390e634c36
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 10:30:02 2012 +0800

Fixed a unbalanced glamor_put_dispatch.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bd53e24dc32206dc978d3dc2408e1832f5a803c7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Apr 15 22:47:48 2012 +0800

glamor_pixmap_priv: Always return a valid private pixmap.

If a pixmap doesn't have a private, then set its type to
GLAMOR_MEMORY, and thus it will get a valid private.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 420af44a3aaefd4848aa24a28c330cab36049078
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Apr 14 22:40:48 2012 +0800

Don't need to set GL_PACK_ROW_LENGTH/GL_UNPACK_ROW_LENGTH.

We already adjust the stride of the pixmap, and keep the alignment
as 4 should be ok to let the GL/GLES match the stride.

Previous version has a unbalanced PACK ROW length setting, and is
buggy, now fixed it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 18d69fb0142088f7df230ec876c7ce2b55a41ad9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 13 13:47:05 2012 +0800

glamor_gl: Use GL_ALPHA for depth 8 pixmap.

Use GL_RGBA to represent a8 pixmap is not efficient.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 428f2a3f58a91300835aaa083ac0b291ce394dd0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 13 13:45:42 2012 +0800

glamor_pixmap_ensure_fbo: Should allocate tex if we don't have one.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit cf0e206a0ff6538eb286c06098023b9e29b00c74
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 11 18:59:27 2012 +0800

glamor_polylines: Don't fallback for non-solid fill.

As glamor_fill/fbFill will handle non-solid fill correctly.
We don't fallback it here.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b5bd9a2d902d44834fc43199167d7dec71e9b709
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Apr 11 18:57:33 2012 +0800

glamor_upload/download: fix 1bpp bug.

For A1 to A8's conversion, the stride is different for the source and destination. Previous implementation use the same stride, and may allocate less memory than required. Thus may crash the server when uploading a A1 pixmap. Now fix it.

Tested-by: Peng Li <peng.li@intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b0e91f0f5a3a4f74800b89ed4003d300ae138151
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Apr 10 20:50:14 2012 +0800
glamor_pixmap_upload_texture: Support to upload a sub region of data.

Just as the downloading side, we can upload an sub region data to a pixmap's specified region. The data could be in memory or in a pbo buffer.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3061f348ca2f05d88ca2391e1ad81ce8216d69f2
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Apr 10 10:40:17 2012 +0800

glamor_getimage: Use glamor_download_sub_pixmap_to_cpu to get image.

Reduce the duplicate logic.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3a91f169122ea0556f628f11fb473b0feed7e44b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Apr 10 10:19:30 2012 +0800

glamor_polyfillrect: Fixed a potential bug if fallback at glamor_fill.

We should advance the prect after we successfully executed the glamor_fill. And if failed, we need to add the failed 1 box back to nbox.

Although, this bug will never happen currently, as glamor_fill will never fallback.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1f657f72caca1170c7e55f4b5149c69492db6a5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Apr 9 20:20:45 2012 +0800

glamor_polyfillrect: Optimize fallback path.

Download/upload required region only.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit cca0fe3e1f49fc8d86f0cc653c8089f1ea2c9f1f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Apr 9 20:16:07 2012 +0800

fallback_optimize: Prepare for downloading/uploading subregion.
Introduced two function `glamor_get_sub_pixmap/glamor_put_sub_pixmap`, can easily used to get and put sub region of a big textured pixmap. And it can use pbo if possible.

To support download a big textured pixmap's sub region to another pixmap's pbo, we introduce a new type of pixmap `GLAMOR_MEMORY_MAP`. This type of pixmap has a valid devPrivate.ptr pointer, and that pointer points to a pbo mapped address.

Now, we are ready to refine those `glamor_prepare_access/glamor_finish_access` pairs.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor_download_sub_pixmap_to_cpu: New function to download subregion.

Prepare to optimize the fallback path. We choose the important rendering pathes to optimzie it by using shader. For other pathes, we have to fallback. We may continue to optimize more pathes in the future, but now we have to face those fallbacks.

The original fallback is very slow and will download/upload the whole pixmap. From this commit, I will refine it to just download/upload needed part.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor_es2_pixmap_read_prepare: Just prepare the required region.

Don't need to prepare the whole source pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor_color_convert: Let the caller to provide destination buffer.
As we don't need to allocate new buffer when downloading pixmap to CPU, we change the prototype of the color converting function and let the caller to provide the buffer to hold the result.

All the color conversion function supports store the result just at the same place of the source.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 4dc6d4e84b4904540d7701cfc88a9c945464f833
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 21:20:15 2012 +0800

glyphblt/polyops: Use miFunctions by default.

Calling to miFunctions give some opportunities to jump to accelerated path, so we switch to call miFunctions rather than fallback to fbFunctions directly.

commit 49e3b44aa813e98c05fcb10c19882e10d751580a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 21:17:46 2012 +0800

glamor_set_alu: Added GXclear support at glamor_solid.

We don't need to issue the glamor_fallback at the glamor_set_alu routine, as the caller may support GXclear or other most frequent Ops. Leave it to the caller to determine fallback or not.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3b8b2c77fc4449c7b63fd2597f73562b33dc1722
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 21:15:12 2012 +0800

getimage: Enable getimage by default.

Fixed one bug when calculate the coords, should consider the drawable's x and y. Now enable it by default. Most of the time, it should be more efficient than miGetImage.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c6ce44d88134115b42edc76e1ee961b57bae86ff
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 17:01:57 2012 +0800

render: Enable more componentAlpha support.
Actually only PictOpAtop, PictOpAtopReverse and PictOpXor can't be implemented by using single source blending. All the other can be easily support. Slightly change the code to support them. Consider those three Ops are not frequently used in real application. We simply fallback them currently.

PictOpAtop: \[ s \times \text{mask} \times \text{dst.a} + (1 - s \times \text{a} \times \text{mask}) \times \text{dst} \]

PictOpAtopReverse: \[ s \times \text{mask} \times (1 - \text{dst.a}) + \text{dst} \times s \times \text{a} \times \text{mask} \]

PictOpXor: \[ s \times \text{mask} \times (1 - \text{dst.a}) + \text{dst} \times (1 - s \times \text{a} \times \text{mask}) \]

The two operators in the above three ops are all related to dst and the blend factors are not constant (0 or 1), it's hardly to convert it to single source blend.

Now, the rendercheck is running more smoothly.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3e9c35bdcbdb96a67c9f2a1ea76e382aaacca7e9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 11:02:36 2012 +0800

glamor_set_alu: Fallback for non GXcopy ops with GLES2.

As GLES2 doesn't support LogiOps, we have to fallback here. GLES2 programing guide's statement is as below:

"In addition, LogicOp is removed as it is very infrequently used by applications and the OpenGL ES working group did not get requests from independent software vendors (ISVs) to support this feature in OpenGL ES 2.0."

So, I think, fallback here may not a big deal ;).

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1a238e89f39fd5aeaf6975399971123cd3e15f24
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Apr 5 22:39:41 2012 +0800

glamor_putimage: Reuse the function in pixmap.c to do the uploading.

We reuse glamor_upload_bits_to_pixmap_texture to do the data uploading to texture in putimage. Besides to avoid duplicate code, this also fixed the potential problem
when the data format need extra reversion which is not supported by the finish shader, as glamor_upload_bits_to_pixmap_texture will handle all conditions.

Tested-by: Junyan He <junyan.he@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0650c7d4be6d4c21510c953543599aea32780f24
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Apr 5 22:31:44 2012 +0800

gles2: Added 1555/2101010 formats support.

Added color conversion code to support 1555/2101010 formats, now gles2 can pass the render check with all formats.

We use 5551 to represent 1555, and do the reversion if downloading/uploading is needed.

For 2101010, as gles2 doesn't support reading the identical formats. We have to use 8888 to represent, thus we may introduce some accurate problem. But anyway, we can pass the error checking in render check, so that may not be a big problem.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3add3750658107bd18592a8672caa8bed0c8931c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Apr 5 21:53:44 2012 +0800

gles2: Fixed color conversion for the formats except 1555 and 2101010.

This patch fixed two major problems when we do the color conversion with GLES2.

1. lack of necessary formats in FBO pool.
GLES2 has three different possible texture formats, GL_RGBA, GL_BGRA and GL_ALPHA. Previous implementation only has one bucket for all the three formats which may reuse an incorrect texture format when do the cache lookup. After this fix, we can enable fbo safely when running with GLES2.

2. Refine the format matching method in glamor_get_tex_format_type_from_pictformat.
If both reversion and swap_rb are needed, for example use GL_RGBA
to represent PICT_b8g8r8a8. Then the downloading and uploading should be handled differently.

The picture's format is PICT_b8g8r8a8,
Then the expecting color layout is as below (little endian):
0 1 2 3 : address
a r g b

Now the in GLES2 the supported color format is GL_RGBA, type is GL_UNSIGNED_TYPE, then we need to shuffle the fragment color as :
frag_color = sample(texture).argb;
before we use glReadPixel to get it back.

For the uploading process, the shuffle is a revert shuffle.
We still use GL_RGBA, GL_UNSIGNED_BYTE to upload the color to a texture, then let's see
0 1 2 3 : address
a r g b : correct colors
R G B A : GL_RGBA with GL_UNSIGNED_BYTE

Now we need to shuffle again, the mapping rule is
r = G, g = B, b = A, a = R. Then the uploading shuffle is as below:
frag_color = sample(texture).gbar;

After this commit, gles2 version can pass render check with all the formats except those 1555/2101010.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 55fd7b196904a4e537f429d06d36081a0c9a60d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Apr 5 20:27:35 2012 +0800

glamor_utils: Added debug function to dump depth 15/16 pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 57e29ebd13d0ef145e4c70c1406af3229a92ad8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 6 11:14:21 2012 +0800

glamor_render: Disable gradient shader conversion due to bug.

I found when enable the gradient shader, the firefox's tab's background has incorrect rendering result.
Need further investigation, for now, just disable it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7036cfdd0d29f4e13d432893a4f386cd3d632de7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Mar 16 16:42:46 2012 +0800

glamor_fbo: Added one macro to disable fbo cache.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 94186db527b33b2623eb26a7f1ae0c4c0fca66a4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Mar 26 19:03:20 2012 +0800

glamor_fill: Should restore alu to GXcopy.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1f4486c10bb2201830af251eeede8cc4d4b857953
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Fri Mar 23 04:06:06 2012 +0800

Add the feature for linear gradient using shader.

Add the feature for linear gradient using shader. The transform matrix and the 4 type of repeat mode are supported. Less than 2/255 difference for every color component comparing to pixman's result. Extract the common logic of linear and radial's to another shader.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1026327cdc90bc0c801a493b7b76b3efc5f33fe2
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Fri Mar 23 04:05:56 2012 +0800

Add the feature of generating linear gradient picture by using shader.

Add the feature of generating linear gradient picture by using shader. This logic will replace the original linear gradient picture generating manner in glamor which firstly use pixman and then upload it to GPU. Compare it to the result generated by pixman, the
difference of each color component of each pixel is normally 0, sometimes 1/255, and 2/255 at most. The pixman use fixed-point but shader use float-point, so may have difference. The feature of transform matrix and 4 types of repeat modes have been supported. The array usage in shader seems slow, so use 8 uniform variables to avoid using array when stops number is not very big. This make code look verbose but the performance improved a lot.

We still have slightly performance regression compare to original pixman version. There are one further optimization opportunity which is to merge the gradient pixmap generation and the latter compositing into one shader, then we don't need to generate the extra texture, we can use the gradient value directly at the compositing shader. Hope that can beat pixman version. Will do that latter.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ccf5d7f52bad664f90d2c33c9f0999a80575f
Author: Junyan He <junyan.he@linux.intel.com>
Date:   Fri Mar 23 04:05:48 2012 +0800

Prepare for modification of gradient using shader.

Prepare for modification of gradient using shader. The gradient pixmaps now is generated by pixman and we will replace them with shader. Add structure fields and dispatch functions which will be needed. Some auxiliary macro for vertex convert.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit a57bf66d492a0ece7b12a8b2f424835694e3fb
Author: Junyan He <junyan.he@linux.intel.com>
Date:  Mon Mar 26 13:51:13 2012 +0800

glamor_utils: Add some assistant functions to compare pixmaps/pictures.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Fixup For list.h change in xorg

Because the file list.h in xorg/include has changed the functions and struct names, adding xorg_ prefix before the original name. So Modify glamor_screen_private struct and the code which use list's functions in glamor_fbo.c. We hack at glamor_priv.h avoid the compile error when using old version xserver header file.

Signed-off-by: Junyan He <junyan.he@linux.intel.com>

For DRI swap buffers.

This commit added two APIs to support the DRI swap buffer. one is glamor_egl_exchange_buffers() which can swap two pixmaps' underlying KHRimages/fbos/texs. The DDX layer should exchange the DRM bos to make them consistent to each other.

Another API is glamor_egl_create_textured_screen_ext(), which extent one more parameters to track the DDX layer's back pixmap pointer. This is for the triple buffer support. When using triple buffer, the DDX layer will keep a back pixmap rather then the front pixmap and the pixmap used by the DRI2 client. And during the closing screen stage, we have to dereference all the back pixmap's glamor resources. Thus we have to extent this API to register it when create new screen.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor_copyarea: Don't use GL_CLAMP_TO_BORDER when GLES2 enabled.

We may need to modify all the shader to handle GL_CLAMP_TO_BORDER
when using GLES2. XXX, for now, we just ignore them.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 5ccf721d386a62f411d77b7c9a142e0c395162b3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Feb 14 17:39:11 2012 +0800

glamor_fbo: Fix a bug when create No gl FBO pixmap.

Need to get format before goto create a new fbo.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ce634e84d4bb559f01203653c5ffdd6397f4b0366
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Feb 12 09:18:51 2012 +0800

glamor_render: Only recalculate texture for repeat case.

Slightly optimize the fragment shader, as if we are not
repeat case and not exceed the valid texture range, then
we don't need to recalculate the coords.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 53387728ddc0c871821b68d728bb5f96a53ba227
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Feb 10 17:40:37 2012 +0800

glamor_tile/composite: Modify fs to re-calculate texture coords.

Then we don't need to fixup the larger pixmap to the exact
size, just need to let the shader to re-calculate the correct
texture coords.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 556adfa6b90f4c1ef12635cf78fa0bba046cf123
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Feb 10 12:54:44 2012 +0000

Fixup glx support

Renaming glamor_priv->dispatch and wrapping the access to
the dispatch table with a function that also ensured the
context was bound.
dispatch = glamor_get_dispatch(glamor_priv);
...
glamor_put_dispatch(glamor_priv);

So that we catch all places where we attempt to call into GL without context. As an optimisation we can then do glamor_get_context(); glamor_put_context() around the rendering entry points to reduce the frequency of having to restore the old context. (Along with allowing the context to be recursively acquired and making the old context part of the glamor_egl state.)

Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 430bc16ca03b3ea00255a4045c8e9fd11ae95ad
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Feb 10 16:04:07 2012 +0800

GLX: Enable glx support.

If we are using MESA as our GL library, then both xserver's GLX and glamor are link to the same library. As xserver's GLX has its own _glapi_get/set_context/dispatch etc, and it is a simplified version derived from mesa thus is not sufficient for mesa/egl's dri loader which is used by glamor.

Then if glx module is loaded before glamoregl module, the initialization of mesa/egl/opengl will not be correct, and will fail at a very early stage, most likely fail to map the element buffer.

Two methodis to fix this problem, first is to modify the xserver's glx's glapi.c to fit mesa's requirement. The second is to put a glamor.conf as below, to the system's xorg.conf path.

Section "Module"
    Load "glamoregl"
EndSection

Then glamor will be loaded firstly, and the mesa's libglapi.so will be used. As current xserver's dispatch table is the same as mesa's, then the glx's dri loader can work without problem.

We took the second method as it don't need any change to xorg.:) Although this is not a graceful implementation as it depends on the xserver's dispatch table and the mesa's dispatch table is the same and the context set and get is using the same method. Anyway it works.
As by default, xserver will enable GLX_USE_TLS. But mesa will not enable it, you may need to enable that when build mesa.

Three pre-requirements to make this glamor version work:

0. Make sure xserver has commit 66e603, if not please pull the latest master branch.
1. Rebuild mesa by enable GLX_USE_TLS.
2. Put the glamor.conf to your system's xorg.conf path and make sure it loaded prior to glx module.

Preliminary testing shows indirect glxgears works fine.

If user want to use GLES2 for glamor by using MESA, GLX will not work correctly.

If you are not using normal MESA, for example PVR's private GLES implementation, then it should be ok to use GLES2 glamor and the GLX should work as expected. In this commit, I use gbm to check whether we are using MESA or non-mesa. Maybe not the best way.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0a8fb8563f33eef2019d3a35d5a61ec2b3a069cd
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Feb 10 15:34:43 2012 +0800

glamorPixmap: Should bind unpack buffer to 0 after the uploading.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e03ad27dfb885e58298e1fd2accac0b6ad40f1ce
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Feb 11 07:37:17 2012 +0800

glamorPicture: Fix the wrong order of header file.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bf24c2c06870dc38b21795f4f6fc51b053134181
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Feb 3 11:46:01 2012 +0800

glamorDumpPixmap: Add helper routine to dump pixmap.

For debug purpose only to dump the pixmap's content.
As this function will call glamor_prepare_access/glamor_finish_access
internally. Please use it carefully.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 91891b3711b1fe1402bb7742c20e976fab63c6fe
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Feb 3 11:44:51 2012 +0800

glamor_fill/tile: Fixed a tileX/tileY calculation bug.

The previous's calculation is incorrect, now fix it and then we don't need to fallback at glamor_tile.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Tested-by: Peng Li <peng.li@intel.com>

prepare_access: Don't use fbo after it was downloaded.

We add a new gl_fbo status GLAMOR_FBO_DOWNLOADED to indicate the fbo was already downloaded to CPU. Then latter the access to this pixmap will be treated as pure CPU access. In glamor, if we fallback to DDX/fbXXX, then we fallback everything currently. We don't support to jump into glamor acceleration layer between a prepare_access/finish_access. Actually, fbCopyPlane is such a function which may call to acceleration function within it. Then we must mark the downloaded pixmap to another state rather than a normal fbo textured pixmap, and then stick to use it as a in-memory pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Tested-by: Peng Li <peng.li@intel.com>

commit 39d9e6c693a4c3a12c6569f1fd56e0a87b164d2
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Feb 3 11:21:37 2012 +0800

glamor_eglmodule: Change module name according to normalize naming rule.

As Xorg module loader will normalize module name which will remove '_' when we put " glamor_egl" to the configure file, then it will fail to find us.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 1ab40028740efad1ba2ee16d425b0fbd822c6ab
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Feb 2 09:34:42 2012 +0800

Don't call dixSetPrivate directly.

We may change the way to set/get those private data latter. consolidate to glamour_set_pixmap/screen_private is better than call those dixSetPrivate directly.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bf7d79dc0ac2e97ed97e22c1d2c95e77bf959327
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jan 31 18:16:58 2012 +0800

Refine CloseScreen and FreeScreen processes.

This commit move the calling to glamour_close_screen from glamour_egl_free_screen to glamour_egl_close_screen, as this is the right place to do this.

We should detach screen fbo and destroy the corresponding KHR image at glamour_egl_close_screen stage. As latter DDX driver will call DestroyPixmap to destroy screen pixmap, if the fbo and image are still there but glamour screen private data pointer has been freed, then it causes segfault.

This commit also introduces a new flag GLAMOR_USE_EGL_SCREEN. if DDX driver is using EGL layer then should set this bit when call to glamour_init and then both glamour_close_screen and glamour_egl_close_screen will be registered correctly, DDX layer will not need to call these two functions manually. This way is also the preferred method within Xorg domain.

As interfaces changed, bump the version to 0.3.0.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Tested-by: Peng Li <peng.li@intel.com>

commit 97efbd25fed0f86338853d81b974b7f4deb9f1b4
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Jan 27 13:22:13 2012 +0000

Use CLAMP_TO_BORDER in copy_n_to_n so we can sample outside of the source

In order to reduce a composite operation to a source, we need to provide Render semantics for the pixel values of samples outside of the source
Pixmap, i.e., they need to be rgba(0, 0, 0, 0). This is provided by using the CLAMP_TO_BORDER repeat mode, but only if the texture has an alpha channel.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 864153bb9e6adb539ed5e9488b829e9f3f8b9482
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Fri Jan 27 13:22:12 2012 +0000

Do not reduce a composite to a copy if we need to sample outside of the source.

In order to maintain Render semantics, samples outside of the source should return CLEAR. The copy routines instead are based on the core protocol and expects the source rectangle to be wholly contained within the drawable and so does no fixup.

Fixes the rendering of GTK icons.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 566cca59e14b223b8dcd045ccc2bbcf08d05b297
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sun Jan 29 14:14:36 2012 +0800

Glamor-gles2: Fixup the pixmap before read back if it is not readable.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 36ac9b7191a4bbee4fb25ced9ee27d1e91308a15
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sat Jan 21 14:41:44 2012 +0800

Glamor-fbo: Tweek the cache bucket calculation.

And also reduce the expire count to 100 which should be good enough on x11perf and cairo-trace testing.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit a1de528c56ff1cf0d5a04c4ad127456ee00707fd
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sat Jan 21 13:22:14 2012 +0800

Glamor_create_fbo: Concentrate the fbo size/depth checking.
Concentrate checking the size/depth when creating fbo. Simply the pixmap creation and the uploading fbo/texture preparing.

Also slightly change the uploading fbo's preparation. If don't need fbo, then a fbo only has valid texture should be enough to return.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1bfe5957117ba5916236c0a021124734228e5aa9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jan 20 20:38:29 2012 +0800

        glamor-pixmap-upload: Create a uploading fbo with a texture only.

        Just an initial implementation and disabled by default.
        When uploading a pixmap to a texture, we don't really want
        to attach the texture to any fbo. So add one fbo type
        which doesn't has a gl FBO attached to it.
        This commit can increase the cairo-trace's performance by
        10-20%. Now the firefox-planet-gnome is 8.3s. SNA is still
        the best, only take 3.5s.

        Thanks for Chris to point out the A1 pixmap uploading bug.

        Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 6fb92e67b3f3dee38d8d440ce8ab9f8cc5dcef9bc
Author: Li Peng <peng.li@intel.com>
Date:   Fri Jan 20 16:23:17 2012 +0800

        glamor: check driver support GEM or not

        glamor calls DRM_IOCTL_GEM_FLINK to get a name for a buffer object.
        It only works for driver that support GEM, such as intel i915 driver.
        But for pvr driver who doesn't has GEM, we can't do it this way.

        According to Chris's comments, we check the has_gem as the following
        method:

        Here we just try to flink handle 0. If that fails with ENODEV or
        ENOTTY instead of ENOENT (or EINVAL on older kernels), set has_gem=0.

        Signed-off-by: Li Peng <peng.li@intel.com>
        Reviewed-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 68789b23e791d81ce6987c755a56851961cba26f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Jan 20 15:56:25 2012 +0800

glamor_gles2: Consolidate gles2 pixmap format readable check to one function.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3373d2c696028a9f2f637430c48b9de1a3776800
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Jan 20 12:10:06 2012 +0800

glamor_egl: Add support for the platform doesn't have gbm.

Maybe we should use eglGetDisplayDRM to get display, but current PVR's driver is using eglGetDisplay.

Signed-off-by: Peng Li <peng.li@intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 92671e3ac8cc955379085c143ee8cf8b37e760ec
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Jan 20 11:58:34 2012 +0800

glamor_egl: Don't call eglDestroyImageKHR directly.

Some implementation doesn't have it.

Signed-off-by: Peng Li <peng.li@intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 125f317d90b69fa4d6f98da9badc1946f0a099ec
Author: Peng Li <peng.li@intel.com>
Date: Fri Jan 20 11:52:18 2012 +0800

glamor_gl_dispatch: fix the dispatch initialization on GLES2.

Some gles2 implementation doesn't support get_proc_address. And we also need to avoid get those missing functions pointers when we are GLES2.

Signed-off-by: Peng Li <peng.li@intel.com>
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 64fef665c9297dd110b8472943f96b55db120ba
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Jan 20 10:56:17 2012 +0800

glamor_render: Add non-Map/Unmap vertex array for GLES.
As some GLES implementations' glMapOES/glUnmapOES is not so efficient, we implement the in memory vertex array for them.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c24f969b331e08679be9a9618d75fe5ee9cc9d86
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jan 20 10:55:16 2012 +0800

glamor_init: Should set gl_flavor before sub-module intialization.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 62e536535168827be76dafb1f5b5e0807c1d5ec9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jan 20 10:04:21 2012 +0800

glamor_composite: Fix one bug when we have too more vertices.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9c6fd931a63fb8a5300014265e4f1cacc746857a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jan 20 09:59:44 2012 +0800

glamor-fbo-pool: Enable to reuse different size fbo/texture.

Fixup three special cases, one is in tile and the other is in composite. Both cases are due to repeat texture issue. Maybe we can refine the shader to recalculate texture coords to support partial texture's repeating.

The third is when upload a memory pixmap to texture, as now the texture may not have the exact size as the pixmap, we should not use the full rect coords.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c7e79d6acff5ab7a327d5f4d6698ae5d7583834
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jan 19 20:47:55 2012 +0800

glamor-fbo-pool: Implement fbo cache mechanism.

We classify the cache according to the texture's format/width/height. As openGL doesn't allow us to change a texture's format/width/height after the internal texture object is already allocated, we can't
just calculate the size and then according the size to put the fbo to a bucket which is just like SNA does. We can only put the fbo to the corresponding format/width/height bucket.

This commit only support the exact size match. The following patch will remove this restriction, just need to handle the repeat/tile case when the size is not exactly match.

Should use ffs instead of ffs when decide the width/height bucket, thanks for Chris to point this out.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2ff41008494e6c5909c058f1f80b4f666f17dada1
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jan 18 19:21:36 2012 +0800

glamor_fbo: Introduce glamor fbo to manage all the fb/tex.

This is the first patch to implement a fbo/tex pool mechanism which is like the sna's BO cache list. We firstly need to decouple the fbo/tex from each pixmap. The new glamor_pixmap_fbo data structure is for that purpose. It's somehow independent to each pixmap and can be reused latter by other pixmaps once it's detached from the current pixmap.

And this commit also slightly change the way to create a memory pixmap. We will not create a pixmap private data structure by default, instead we will create that structure when a memory pixmap is attaching a fbo to it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ca2ddd33a114fe83584b5fa9f73b753a4abdb96fa
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jan 18 17:12:32 2012 +0800

glamor_set_pixmap_texture/screen_pixmap: Remove useless parameters.

As after we got a texture, no matter the texture is created on the glamor_create_pixmap or on the egl layer, we all already know the texture's width and height there. We don't need to pass them in.

This commit also simply the glamor_egl_create_textured_screen to reuse the egl_create_texturedPixmap. And also remove the useless root image from the egl private structure. As now the root image is bound to the screen image, we don't take care it separately.
here. It will be freed at the screen closing.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 15166bb973206deb98121eb3932660529c6c2011
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jan 18 17:10:26 2012 +0800

Add debug message for all the uploading path.

The previous message missed the texture restoring path.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 994a9ff7f58161bf5651f83d810eb7b7718ab00
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jan 18 17:07:25 2012 +0800

glamor_create_picture: Fix the format matching method.

We should not simply set a TEXTURE_DRM pixmap to a separated texture pixmap. If the format is compatible with current fbo then it is just fine to keep it as TEXTURE_DRM type and we can safely fallback to DDX layer on it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 28fcd7cd01edfd68c370e6c6a0238d45477b3f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Jan 13 11:18:28 2012 +0800

Rearrange data structure and remove unused fields.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bdd72da0c525fa3e2a328a7a8afa1cd88cd8dc1b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jan 10 17:04:48 2012 +0800

Release previous texture/fb when bind a new texture to a pixmap.

As we want to support DRI2 drawable which may create a new textured_drm to a pre-existing texture_only pixmap, we have to add this logical.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Tested-by: He Junyan <junyan.he@linux.intel.com>

commit d7352d57b9ceb809d47e922ed8c820a44f8a0ee5
Add glFinish after glFlush.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8b943ce2030b02bb8d279ce2c2e284cb5d2910ced6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jan 9 12:50:39 2012 +0800

Set glamor's initial version to 0.2.0.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7329414bf2ca9873c04150a1d9386cf37f70b663
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jan 9 07:16:06 2012 +0800

Silence a compilation warning.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 069a6d1746ef4c180f48a75e655e5e06e33327b5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jan 9 07:11:26 2012 +0800

glamor_composite: Allocate VBO on demand.

Use a fixed VBO is not efficient. Some times we may only has less than
100 verts, and some times we may have larger than 4K verts. We change
it to allocate VBO buffer dynamically, and this can bring about 10%
performance gain for both aa10text/rgb10text and some cairo benchmarks.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 42a0261cb3065200887f81816b1be3850593da4c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Jan 9 05:03:08 2012 +0800

glamor_getimage: Add the optimization path of getImage.

This optimization will only call glReadPixels once. It should get
some performance gain. But it seems it even get worse performance
at SNB, disable it by default.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Commit 96085017c8da96e6d882c87b69186f5aba20131d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Jan 9 05:01:48 2012 +0800

Consolidate the choose of internal texture format to one function.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit a74596be0e7e02b43fb0db844b71b68f384ab599
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sun Jan 8 08:50:41 2012 +0800

Set filter to GL_NEAREST by default.

This is the fastest filter and let's use it by default.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 4cd07871a417b15b0382c07fececc497e93697a5d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sun Jan 8 08:45:08 2012 +0800

glamor-composite: Use glDrawElements to reduce the count of vertices.

To split a rectangle (0,1,2,3) to two separated triangles need to feed 6 vertices, (0,1,2) and (0,2,3). use glDrawElements can reuse the shared vertices.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 9dafd6fcee547a6824c1de98d4309f8f2197ebd0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Sun Jan 8 01:14:12 2012 +0800

glamor-composite: Optimize the computation of composite region.

Computing the composite region at the composite_with_shader is very inefficient. As when we call to here from the glamor_glyph's temproary picture, we don't need to compute this region at all. So we move this computing out from this function and do that at the glamor_composite function. This can get about 5% performance gain for aa10text/rgb10text.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 2511a00cdd576512f5d7f45707a4a725df2f4618
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jan 5 14:26:01 2012 +0800
Fixed a configure bug.

Should check the enable-glamor-gles2 before use the variable.
And should include the config.h as the GLAMOR_GLES2 macro is
defined there.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit a65e1c736aaa1bb2440a83c42c0410d9d9b58007
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jan 4 14:40:24 2012 +0800

Reduce the double check of pixmap's private pointer.

As we now add the checking to the Macro, we don't need to check
the pointer outside the Macro.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit e1789893e5fe07fd8d8f21b6b8a15f6dbb66592
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jan 4 14:37:37 2012 +0800

get_spans: Check whether have a valid fbo before check format.

If a pixmap is a pure in-memory pixmap, we do not need to
check its format. Format checking has more overhead than
checking FBO, so we change to check fbo firstly.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 057f52a04d47e6ca5f6de9d9e1bc71765d4c7ae8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jan 4 14:34:39 2012 +0800

Track all picture's drawable pict format.

Even if a picture's pixmap is a pure in memory pixmap, we still need
to track its format. The reason is we may need to upload this drawable
to texture thus we need to know its real picture format.

As to the MACRO to check whether a pixmap is a picture, we should
check whether the priv is non-NULL before we touch its field.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8a4758a358e56b1db481607ff37e9375238e5d8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Need to check pixmap priv before touch its field.

As now the pixmap may be allocated by DDX and doesn't have a valid pixmap private field. We must check pixmap private pointer before touch its field value. If a pixmap doesn't have a non-NULL private pointer, it doesn't have a valid FBO.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9264335347da641b2626a6b9f56aa05ab313239e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Dec 31 19:29:17 2011 +0800

Added more drawing functions.

As we want to take over all the possible GC ops from the DDX layer, we need to add all the missed functions.
This commit also fixed one bug at polylines.
We simply drop the bugy optimized code now, as it did not consider of clip info.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d42eb04c29d015fb1e4ed4e9ded4c0dd8bc7dc3c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Dec 31 19:27:33 2011 +0800

Remove useless output messages.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit fbccc4bbbc84a5459010d3238a00a0dd49111eec
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sat Dec 31 19:20:10 2011 +0800

Fixed a rendering bug at fillspans.

We should not change the points coords when loop for the clip rects. Change to use another variable to store the clipped coords and keep the original coords. This bug cause some XTS failures. Now fix it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 70b6341538cc11f074b02f9dd97d387418245d77
Fixed a bug at putImage.

fbPutImage wants the input drawable is the target drawable rather than the backing pixmap. This bug cause some XTS failures, now fix it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Remove the assertion which is not safe sometimes.

The original version assumes that each drawable pixmap should have a valid private pixmap pointer. But this is not true after we create this libglamor. As the DDX layer may create a pure software drawable pixmap which doesn't have a private pixmap pointer.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Export glamor_validate_gc to DDX.

This is also a function which may direct access pixmaps which may be a glamor only pixmap and DDX doesn't know how to access it. We have to export this API to DDX driver and let the DDX driver use it to do the validation.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Flush gl operations when destroy an textured image.

Before destroy an image which was attached to a texture, we must call glFlush to make sure the operation on that texture has been done.
Add a new API glamor_create_gc.

As at ValidateGC stage, it may need to touch the pixmap directly, for example the tile pixmap. We must export this interface to DDX driver and let the DDX driver to route the processing to us. As this pixmap may be a texture only pixmap, and DDX don't know how to handle it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Code cleanup.

Remove useless code, and after a fbCreatePixmap, we do not need to modify its header there.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Remove useless egl functions.

We only need to create image from external name rather than use drm_image_mesa to create drm image, so remove them.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Make sure the devPrivate.ptr of a textured pixmap is NULL.

Just in case when wrongly fallback to DDX layer and cause random memory corruption. Pointed out by Chris.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Export glamor_create_texture to DDX driver.

If DDX failed to create textured pixmap from its BO's handle, it can turn to call this API to create a brand new glamor rather than fallback to pure in memory pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Correct the logic of glamor_egl_create_textured_pixmap.

Discussed with Chris and found the previous logic is not good. Now change it in this commit, this API will just try to create a textured pixmap from the handle provided by DDX driver, if failed simply return FALSE without touch the pixmap. And the DDX driver can choose how to do next step.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

glamor-for-ddx: Exports all rendering/drawing functions.

This commit exports all the rest rendering/drawing functions to the DDX drivers. And introduce some new pixmap type. For a pixmap which has a separated texture, we never fallback it to the DDX layer.

This commit also adds the following new functions: glamor_composite_rects, glamor_get_image_nf which are needed by UXA framework. Just a simple wrapper function of miXXX. Will consider to optimize them next few weeks.

This commit also Fixed a glyphs rendering bug pointed by Chris.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
Enable texture dynamic uploading.

Call screen's method to create pixmap.

As we may need to fallback to DDX's rendering path during the glyphs, we have to call screen's create pixmap method to create pixmap.

Fallback if the pixmap is drm only.

Classify glamor pixmap to different types.

During the integration with intel driver, we introduce two new type of pixmap, one is TEXTURE_DRM, the other is DRM_ONLY. TEXTURE_DRM means we create a texture bind to the DRM buffer successfully. And then the texture and the external BO is consistent. DRM_ONLY means that we failed to create a texture from the external DRM BO. We need to handle those different types carefully, so we have to track them in the data structure.

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34019
Call glamor_create_pixmap directly in glamor rendering path.

When glamor is rendering pixmaps, and needs to create some temporary pixmap, it's better to use glamor version create pixmap directly. As if goes to external DDX's create pixmap, it may create a external DRM buffer which is not necessary. All the case within glamor scope is to create a texture only pixmap or a in memory pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 10ad332dedad2df13212dcd198d947a2f5c76862
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Dec 11 08:06:13 2011 +0800

Remove garbage file.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 92fd83872f5509a2792338b4665dc2b3e1ed68cd
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Sun Dec 11 02:26:15 2011 +0800

Remove the access mode from private pixmap structure.

Change the finish_access to pass in the access mode, and remove the access mode from the pixmap structure. This element should not be a pixmap's property.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d135e879a6c8698bf21ae44a02315f370b961b14
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Dec 9 16:01:45 2011 +0800

Can't create KHR image if the depth is uncompatible.

Currently, KHR image only support one color format ARGB32. For all other format, we have to fail to create corresponding image and texture here.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b5630663cf9438383166f59cd5f2cd62
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Dec 9 15:58:19 2011 +0800

exports more rendering functions to DDX driver.
Exports all necessary rendering functions to DDx drivers, including CopyArea, Glyphs, Composite, Triangles, ....

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Override create/destroy picture to track pict format.

When create a picture, we need to attach a pixmap to it. A pixmap only has a depth, which is not sufficant for glamor. As in openGL texture only has a few internal formats which is not sufficient to represent all the possible picture format. So we always transform the picture format to GL_RGBA. And when we need to read back the picture, we must know the original picture format. So we have to override create and destroy picture to track a pixmap's real picture format if it is attached to a picture.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Added a missed header file.

Pointed by Chris, we must add xorg-server.h at the top of each file before we include any other xorg header files. Otherwise, it may cause incorrect XID length.

This commit also fixes one compilation warning in X86_64 platform.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

If caller is not using glamor screen, we can't register the block handler.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit 9ff39e53eb20673d42f42c94adb55bf9a9f1c285
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Nov 15 20:16:16 2011 +0800

Revert "Disable glamor_tile temporary."

The previous corruption output is caused by GLAMOR/UXA flushing issue. Now get fixed.

This reverts commit 0d2d3e4f051e48c3499e1c972e012803a8623526.

commit 13ab4d59af824f2a4c03280ffe79c6ba9aa26c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Nov 11 14:55:12 2011 +0800

Disable glamor_tile temporary.

Enable glamor tile cause corrupted output. Need more investigation.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9b6a484df0724d72dd27ad620672e7a762a460df
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Fri Nov 11 10:26:00 2011 +0800

Add new version glamor_poly_fill_rect without internal fallback.

If need fallback, this new version just returns FALSE without doing anything. It's the caller's responsibility to implement fallback method.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ba1b3b53240b5d499791570ba9f598a4e421c719
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Nov 9 16:09:03 2011 +0800

Add new version glamor_fillspans without internal fallback.

For the purpose of incrementally intergration of existing intel driver, for the GC operations we may don't want to use glamor's internal fallback which is in general much slower than the implementation in intel driver. If the parameter "fallback" is false when call the glamor_fillspans, then if glamor found it can't accelerate it then it will just return a FALSE rather than fallback to a slow path.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit b861aad8e2fcf6fe1fae4f26abb650bb4eb499c6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Nov 2 13:44:50 2011 +0800

Initial version.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2dbbe2565052cc024ce0e98918ed34c1239b780a
Merge: 4d626461427982eca622
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 18 11:21:07 2013 -0800

Merge branch 'glamor-gongzg-merge'

commit 7982eca622bbe4b6a4845801a77da8a16138004a
Author: Eric Anholt <eric@anholt.net>
Date: Wed Dec 18 11:16:15 2013 -0800

Revert changes outside of glamor from the glamor branch.

We want to merge the external glamor code to the xserver, with the internal history retained. However, we don't want a bunch of non-building changes along the way, so remove all the build system and support code outside of glamor for now.

commit 4d62646142718024b0981eb4f1fd0131e829161f
Merge: f4fbf14f53 81ba89d670
Author: Keith Packard <keithp@keithp.com>
Date: Mon Dec 16 09:27:57 2013 -0800

Merge remote-tracking branch 'jeremyhu/master'

commit f4fbf14f53a939574da1f5995f0dad949898b86a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Dec 12 10:57:40 2013 -0500

configure: Fix a typo near dri3/shmfence detection

" is not the mate of ].

Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8248b4af31ef71ac03158871b77f20eb456dbe38
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 13 15:07:48 2013 -0500

---
glx: Add null pointer protection to __glGetProcAddress

This can't happen when GLX is the backing window system, but can elsewhere. We may as well protect against it at a high level.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 128449dd6498a2f74c3770f89a9dae0f70e2b351
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 13 11:39:16 2013 -0500

present: Don't use the major/minor version from the protocol headers

We want to advertise the version we implement, not the version the protocol headers happen to describe.

Reviewed-by: Jasper St. Pierre <<jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ec6087bf070131bc3a26848fb9fb840f09b0e19d
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 13 11:36:38 2013 -0500

dri3: Don't use the major/minor version from the protocol headers

We want to advertise the version we implement, not the version the protocol headers happen to describe.

Reviewed-by: Jasper St. Pierre <<jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e6fafd3de70d315130f6e5732cfd02a5901b788
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 13 11:28:59 2013 -0500

dri3: Guard against buggy clients

There's nothing to stop a client from sending these requests to screens without DRI3 support, and if they do, we'll crash. Let's not do that.

Reviewed-by: Jasper St. Pierre <<jstpierre@mecheye.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 81ba89d6703a22178a153aa39478ba2d4bde262b
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Fri Dec 13 01:39:44 2013 -0800
configure.ac: Add PRESENT_LIB to XQUARTZ_LIBS

Undefined symbols for architecture x86_64:
"_present_extension_init", referenced from:
    __staticExtensions in libXquartz.a(miinitext.o)
"_present_register_complete_notify", referenced from:
    ___glXregisterPresentCompleteNotify in libglx.a(glxcmds.o)

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit d7c9235ee261b0f780320985233e00dec5e2689c
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Dec 7 01:36:33 2013 -0800

XQuartz: Use asl_log_descriptor to log stdout/stderr of child processes

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ad8111d7c971ce448905c733d65b0cfcc72bdca4
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Dec 7 01:14:37 2013 -0800

darwin: Don’t leave stdin/stdout closed

<rdar://problem/15609419>

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 929795d50d788358d6269ce423f72c6cc40e334b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 3 10:14:51 2013 +1000

dix: fix check for grab type

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 23394c7fe0f5c33333198c87ecfcee9f6c6a791
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 3 08:36:45 2013 +1000

Xi: ungrab device when releasing a passive grab without ButtonReleaseMask (#71878)

If an touch triggers an async button grab and that grab does not have the
ButtonReleaseMask set, the TouchEnd is never delivered, deliveries is 0 and
the grab is never deactivated.

If the grab is pointer async and keyboard sync, the keyboard events are stuck
in EnqueueEvent until some other pointer event terminates the grab.

Change this to check for the number of listeners. If we're about to deliver a TouchEnd to a passive pointer grab, the number of listeners is already 1 - pointer grabs always accept so other listeners were removed.

X.Org Bug 71878 <http://bugs.freedesktop.org/show_bug.cgi?id=71878>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c1d30b5bd7f90e68bc38404fd0cc32578d6d3018
Author: Ben Gamari <bgamari.foss@gmail.com>
Date:   Thu Nov 21 21:24:20 2013 -0500

Xi: Don't ActivateEarlyAccept POINTER_REGULAR listeners

Bug #71878 describes a bug resulting in the server ceasing to respond to keyboard input after a touch event. The problem might be the following:

DeliverTouchBeginEvent tries to deliver an event to a listener of type LISTENER_POINTER_REGULAR, taking the following if branch,

```c
if (listener->type == LISTENER_POINTER_REGULAR ||
   listener->type == LISTENER_POINTER_GRAB) {
   rc = DeliverTouchEmulatedEvent(dev, ti, ev, listener, client, win,
   grab, xi2mask);
   if (rc == Success) {
      listener->state = LISTENER_IS_OWNER;
      /* async grabs cannot replay, so automatically accept this touch */
      if (dev->deviceGrab.grab &&
         dev->deviceGrab.fromPassiveGrab &&
         dev->deviceGrab.grab->pointerMode == GrabModeAsync)
         ActivateEarlyAccept(dev, ti);
      goto out;
   }
}
```

DeliverTouchEmulatedEvent succeeds. The deviceGrab meets all three of the conditions of the inner if, enters ActivateEarlyAccept which then fails due to,

```c
BUG_RETURN(ti->listeners[0].type != LISTENER_GRAB &&
            ti->listeners[0].type != LISTENER_POINTER_GRAB);
```

That is, despite listener->type == LISTENER_POINTER_REGULAR. With my non-existent knowledge of XINPUT, it seems like the solution here might be to only ActivateEarlyAccept when listener->type == LISTENER_POINTER_GRAB.
present: recursively set window pixmaps on flip

Newly created windows inherit the pixmap of their parent, similarly, reparenting a tree inherits the pixmap of the destination tree.

Making present preserve the invariant that unredirected windows always have the same pixmap as their parent ensures that the above cases work correctly.

v2: name the recursive function to 'set_tree_pixmap' instead of 'set_window_pixmap'

Bump version to 1.14.99.904 (1.15 RC4)

hw/xwin/glx: Rewrite WGL wrappers after Xserver conversion to direct GL dispatch

v1: Rewrite by Marc Haesen of the WGL wrapper function generation script to use Khronos group XML.

v2: Remove -dispatchheader option, since dispatch.h doesn't exist anymore, use the private glapi interface to construct the GL dispatch table for the native WGL thunks.

v3:
Rewrite to generate shims for the OpenGL 1.2.1 (GL 1.2 + GL_ARB_imaging +GL_ARB_multitexture + GL_ARB_texture_compression(?)) functions the server links directly with rather than libGL.
These shims dispatch to either the mesa GL DLL, or a thunking DLL containing cdecl-to-stcall wrapper functions for the native GL DLL.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit cb48877a3c4cfeb1ae2248000fcd3443e3092bd
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Dec 6 14:00:21 2013 +0000

glx: Consistently use ARB-suffixed names for ARB_multitexture functions

At the moment we have a mix of ARB and non-ARB suffixed forms for ARB_multitexture functions
e.g. glMultiTexCoord1fvARB and glMultiTexCoord1dv

Consistently use the ARB-suffixed form, assuming that is present in all libGL
which provide the OpenGL 1.2.1 ABI we expect to be able to directly link with.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 1a021f57a1e75ab63e8f87704f0394162402d4
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Dec 1 22:25:46 2013 +0000

ephyr: Fix compilation when ./configure'd with --enable-debug

/ jhbuild/checkout/xorg/xserver/hw/kdrive/ephyr/ephyr.c: In function 'ephyrProcessMouseMotion':
/ jhbuild/checkout/xorg/xserver/hw/kdrive/ephyr/ephyr.c:946:188: error: 'ephyrCurScreen' undeclared (first use in this function)
/ jhbuild/checkout/xorg/xserver/hw/kdrive/ephyr/ephyr.c: In function 'ephyrProcessButtonPress':
/ jhbuild/checkout/xorg/xserver/hw/kdrive/ephyr/ephyr.c:980:186: error: 'ephyrCurScreen' undeclared (first use in this function)
/ jhbuild/checkout/xorg/xserver/hw/kdrive/ephyr/ephyr.c:1007:186: error: 'ephyrCurScreen' undeclared (first use in this function)

Fix ephyr compilation when ./configure'd with --enable-debug after commit
46cf6bf5692ef71ec9d1ae2292565d4b13f14b, some instances of ephyrCurScreen were
not converted to screen->pScreen->myNum.

v2: Don't use a trivial local variable which will be unused when ./configure'd
with --disable-debug

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit 875dbcef5bfc6a94ef8456be6151e133408793f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Nov 29 14:29:20 2013 +0000

configure.ac: Link XWin with present extension if we are building with it enabled

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e61e19959d9138d5b811f25b7aa3e257918170d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 13:45:43 2013 -0500

xquartz/glx: Convert to non-glapi dispatch

CGL doesn't have anything like glXGetProcAddress, and the old code just
called down to dlsym in any case. It's a little mind-warping since
dlopening a framework actually loads multiple dylibs, but that's just
how OSX rolls.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit a668aa0e41bc33ff2db7f9c53b6dc321a96926a9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 15:03:13 2013 -0500

drsw: Wire up GetProcAddress

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4fcdfeb7bc55d00d50d7f89788d9b929946ae3d9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 15:02:57 2013 -0500

dri2: wire up GetProcAddress

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 47f00b3920be9d8df8b148263d744934f3a02cd4
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 15:01:44 2013 -0500

glx: Untangle the prototypes around the GetProcAddress thunk

Signed-off-by: Adam Jackson <ajax@redhat.com>
glx: Remove function stubs

Now that we're calling non-1.2 ABI things by function pointer this is no longer needed.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronedcode.org.uk>

commit 6b93e1f5ff39c6ac5b0d97d4245aeae9113eed8b
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 13:11:09 2013 -0500

glx: Convert non-generated function pointer thunking

Same concept as the generated code conversion.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronedcode.org.uk>

commit c4567a376083eb7b142a7f003dd8372d376ea86
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 3 12:40:24 2013 -0500

glx: Convert generated code function pointer thunking

We're meant not to call these by name due to ABI. Rather than try to generate a bunch of little stub functions that do the lookup, just inline it all directly into the calling function.

This does not cache results. That's fine, this is not a performance path, and if we're atop WGL then we effectively have to do this every time anyway because wglGetProcAddress results are context-dependent.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Jon TURNLEY <jon.turney@dronedcode.org.uk>

commit f69f4f417c6807405e45289b39a80f1b9a55f9e6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 10 07:09:17 2013 -0800
Depend on latest glproto (1.4.17)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 576f3d36dd324bd0d16c9968f1ded5c5eead3569
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 9 13:16:01 2013 -0500

damageext: Die if we can't create the Xinerama resource type

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f10f36d91db1b21c2ce5a531b4fa5f96fcbdc2f0
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 16 15:17:26 2013 -0400

damageext: Xineramify (v7)

v7: Don't bother making resources for the backing listeners. [keithp]

This is now slightly unlike how other resources are xineramified. We create N+1 internal damage listeners, one that's a real resource and reflects the protocol view, and then one per backend screen where the report function piles onto the protocol view. The internal listeners are not stored in the resource database directly, they just hang off the xinerama resource. We don't wrap Subtract at the dispatch level, but we do extend it for the Xinerama case to clip to the root window geometry.

As a result of the N+1 design here, the damage reports we generate are not quite minimal. However they are indistinguishable from sequential rendering events happening before the client hears damage, and we don't need to add a post-dispatch callback just for this one extension.

Add is probably (still) somewhat broken since it will only hit screen 0, but Add really only exists for DRI1's sake, and DRI1 disables itself with Xinerama enabled anyway. In the absence of a use case, I'm leaving it unwrapped under Xinerama; if someone wants to define how it ought to work, be my guest.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 808303fe5232ba0320ae5a4310b1ed1322e85f1d
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 4 17:49:34 2013 -0500

fixes: Fix PanoramiXSetWindowShapeRegion for root windows (v2)
Root windows in Xinerama are in the coordinate space of their root window pixmap, not in protocol space.

v2: Only translate for root windows, since the window shape is drawable-relative.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5c10c7ea2129b70015e745523918d143cc29318d
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 4 17:49:33 2013 -0500

fixes: Fix PanoramiXSetPictureClipRegion for root windows (v2)

Root windows in Xinerama are in the coordinate space of their root window pixmap, not in protocol space. This fixes 'xcompmgr -n' when Xinerama is active.

v2: Only translate for root windows, since the clip origin is drawable-relative.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1dd839a425adc6e5a1dc377003ed86a374d81f0b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 7 13:59:30 2013 -0500

composite: Fix COW creation for Xinerama (v2)

Say you have two 800x600 screens left/right of each other. A window that's 200x200 at +700+0 in protocol coordinate space will appear to be at -100+0 in the coordinate space of the right hand screen. Put another way: windows are in the coordinate space of their root window pixmap.

We weren't doing this translation for the COW, so when rendering came in to it you'd see the top-left chunk of the COW on all screens. Cool effect and all, but wrong.

v2: Only translate when Xinerama is active [keithp]
xinerama: Export the screen region

damageext wants this so it can intersect subtract requests against the root window geometry.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c6d4c2a24140f6ee4ceae48c4c74fedcae9b68b3
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Nov 15 15:13:31 2013 -0500

xfree86: Prefer fbdev to vesa

On UEFI machines you'd prefer fbdev to grab efi fb instead of vesa trying to initialize and failing in a way we can't unwind from. On BIOS machines this is harmless: either there is an fbdev driver and it'll probably be more capable, or there's not and vesa will kick in anyway.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7b5d4f147fdef9edefaa9c6565375111079efd11
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Nov 5 10:12:28 2013 -0500

composite: Don't double-redirect if someone asks for backing store twice

v2: Belt-and-suspenders the unredirection path [vsyrjala]

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a2b2c271e0ca87d3188ba2741b6db9bbbc599f5
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Nov 5 10:08:17 2013 -0500

composite: Automatically enable backing store support on the screen

... unless you explicitly disabled it with -bs on the command line, or with the corresponding thing in xorg.conf.

v2: Drop a bogus hunk from compChangeWindowAttributes [vsyrjala]
v3: s/TRUE/WhenMapped/ [jcristau]
bs: Set the screen's bs support level to WhenMapped

Since we're using RedirectAutomatic to do this, we don't actually preserve contents when unmapped.

v2: Don't say WhenMapped if Composite didn't initialize [vsyrjala]

smartsched: Tweak the default scheduler intervals

A default timeslice of 20ms means a pathological client can ruin up to two frames per scheduler tick. And a fifth of a second is just insane.

Pick two different numbers out of the hat. A 5ms slice means you can probably keep up with two or three abusive clients, and letting it burst to 15ms should give you about all the timeslice you need for a fullscreen game (that's doing server-side rendering for some reason).

If you're running on a system with a 10ms granularity on SIGALRM, then this effectively changes the intervals to 10ms and 30ms. Which is still better, just not as better.

I suspect this is about as good as we can do without actually going preemptive, which is an entire other nightmare.

dri3: Disable when Xinerama is active

Pretty sure this can't work.
dri2: Disable when Xinerama is active

Would only work on ScreenRec 0, which means it's broken.

present: Disable when Xinerama is active

Among much else Present depends on RANDR types, and RANDR isn't properly Xinerama-aware yet anyway.

glx: Fix incorrect use of dri_interface.h version defines in driver probing.

If we extend __DRI_CORE or __DRI_SWRAST in dri_interface.h to allow a new version, it shouldn't make old server code retroactively require the new version from swrast drivers.

Notably, new Mesa defines __DRI_SWRAST version 4, but we still want to be able to probe version 1 drivers, since we don't use any features beyond version 1 of the struct.
glx: Fix incorrect use of dri_interface.h version defines in extensions.

Those defines are so you can compile-time check "do I have a
dri_interface.h that defines this new field of the struct?" You don't
want the server to claim it implements the new struct just because you
installed a new copy of Mesa.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 57a8ce927332e855dd29ff30210a211a907adb25
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Nov 29 12:26:43 2013 +0000

calculate.ac: Fixup for "Require libpciaccess for int10"

On 16/11/2013 01:00, Connor Behan wrote:
> A --disable-pciaccess build will fail with an int10 module other than
> stub.
> 
> Signed-off-by: Connor Behan <connor.behan-Re5JQeQqe8AvxtiuMwx3w@public.gmane.org>
> ---
> configure.ac | 3 +++
> 1 file changed, 3 insertions(+)
> 
> diff --git a/configure.ac b/configure.ac
> index 5e621e0..a843770 100644
> --- a/configure.ac
> +++ b/configure.ac
> @@ -1822,6 +1822,9 @@ if test "x$XORG" = xyes; then
>               if test "x$CONFIG_UDEV_KMS" = xyes; then
>                       AC_MSG_ERROR([Platform device enumeration requires libpciaccess])
>               fi
> +             if test "x$INT10" != xstub; then
> +                     AC_MSG_ERROR([Cannot build int10 without libpciaccess])
> +             fi
> +             if test "x$INT10" = xstub; then
> +                     AC_MSG_ERROR([Cannot build int10 without libpciaccess])
> fi
> +             AC_MSG_RESULT([$PCI])
> 
> This causes my build to fail where --disable-int10-module --disable-pciaccess
> is the default (as INT10 still has the default value 'x86emu')

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 653d33941b0808ef910aaa5f3aeab05d9c1a100b
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 26 12:18:12 2013 -0800

present: Report damage when flipping

Limit damage to the 'update' region.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 5cf12c9569ac3d83fe1b7a8376c15f8f0b01655e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 26 12:10:48 2013 -0800

present: Also set the root window pixmap when flipping

This makes sure that things like software cursors continue to work while the screen is flipped.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4aa77378de69efdc10bced6ba650b0e6f50c112
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 26 12:06:57 2013 -0800

present: Clear target_crtc if driver lacks Present support

If the driver doesn't have the necessary hooks for Present, then the target_crtc needs to be set to NULL to make sure the extension uses the present_fake code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Fredrik Höglund <fredrik@kde.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3dd5bfc5a50b295bb37a2c2fd0ba4a31fb217612b
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 21 22:48:31 2013 -0800

present: Send GLX_BufferSwapComplete events from present extension

This allows GL to support the GLX_INTEL_swap_event extension.

v2: Return GLX_BLIT_COMPLETE_INTEL for unknown swap types

Signed-off-by: Keith Packard <keithp@keithp.com>
Present: Set window pixmap to flipped pixmap

This makes other drawing to the window appear on the screen.

Note that no child windows can be affected because only full-screen windows are eligible for flipping, and so we only need to set pixmap for the window itself.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Present: Leave vblank on window list until flip complete

If the window is destroyed, then we've got cleanup work to do, even if the vblank has already been executed -- we need to clear the window pointer so that we don't try to deliver events to it.

Leaving it on the window list meant that when walking that list, we need to know whether the vblank is waiting to be executed or waiting for the flip to complete, so a new 'queued' flag was added to the vblank to distinguish between the two states.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Present: Add a debug output line when skipping a pending present

When an application provides two pixmaps for the same MSC, the previous one is skipped. This just dumps out some information at that point.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
bump to 0.8.1

commit 59e324abd7cbda5d301b7b67125cd6d96684f000
Author: Thierry Reding <thierry.reding@gmail.com>
Date:   Tue Nov 26 17:08:03 2013 +0100

Properly identify DSI outputs

Newer Linux kernels support DSI outputs. To be able to identify them properly, add DSI to the list of output names.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Thierry Reding <treding@nvidia.com>

commit 190289f6393191bb3c58067ce1df994809475077
Author: Thierry Reding <thierry.reding@gmail.com>
Date:   Tue Nov 26 17:08:02 2013 +0100

Staticise and constify output names

This array isn't used anywhere outside this file, so it can be made static. While at it, make the array const as well.

Signed-off-by: Thierry Reding <treding@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit eafba23b34be31c141ddaf8380520ac9a0622ac
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 21 22:45:18 2013 -0800

miext/sync: Handle libxshmfence API change

libxshmfence had an unfortunate 'int32_t' type for the mapped fence. That changed to exposing a 'struct shmfence' instead, which is nice and opaque and offers fine type checking across the API.

This patch requires the newer version of the library and uses the new interface type.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit b6d7ed4d787a652e8150532f384bfdf51760f3c2
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 21 22:12:34 2013 -0800
miext: Move SyncShm FDs out of the way of clients

Applications may end up allocating a bunch of shmfdence objects, each of which uses a file descriptor, which must be kept open lest some other client ask for a copy of it later on.

Lacking an API that can turn a memory mapping back into a file descriptor, about the best we can do is push the file descriptors out of the way of other X clients so that we don't run out of the ability to accept new connections.

This uses fcntl F_GETFD to push the FD up above MAXCLIENTS.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit cc63204926c6da83d9221c5f8c0dc8f5e2f2481d
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 13 14:16:33 2013 +0900

Xext: Use SHMDIR and O_TMPFILE when creating mapping files

ShmCreateSegment asks for a file descriptor for a memory mapped file created by the X server. This patch uses O_TMPFILE where available, and also uses the SHMDIR directory to store the files, both for the O_TMPFILE and mkstemp cases.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5a969f0928b84da5cfe0777dfb542caaace915ad
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 13 12:17:10 2013 +0900

Select directory for MIT-SHM temp files at configure time

By default, this looks through a list of directories to find one which exists, but can be overridden with --with-shared-memory-dir=PATH

This patch doesn't actually do anything with this directory, just makes it available in the configuration

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit d695cb7fb6bb8fd159a332d902673edbbd2237d7
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Xdmx: Initialize DMX extension even if not built with GLX support

dmxAddExtensions takes an argument to determine if it should just initialize the DMX extension, or both DMX & GLX, but if GLX wasn't compiled in, the entire call was #ifdef'ed out, leaving the DMX extension unavailable.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bd70def07754357d26b86c287037eb3884631daf
Author: Connor Behan <connor.behan@gmail.com>
Date:   Fri Nov 15 17:00:40 2013 -0800

configure.ac: Require libpciaccess for int10

A --disable-pciaccess build will fail with an int10 module other than stub.

Signed-off-by: Connor Behan <connor.behan@gmail.com>
 Reviewed-by: Adam Jackson <ajax@redhat.com>
 Signed-off-by: Keith Packard <keithp@keithp.com>

commit a575c1dc64c10bc88bd0e963eb8ab137f59a078
Author: Connor Behan <connor.behan@gmail.com>
Date:   Fri Nov 15 17:00:20 2013 -0800

configure.ac: Require libpciaccess for platform bus support

There is currently no reason to build with --enable-config-udev-kms and --disable-pciaccess but anyone who tries this should know that the build will fail.

Signed-off-by: Connor Behan <connor.behan@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 361dfe74eaa2f1eddb54abdecca1d8b1b3f58704
Author: Connor Behan <connor.behan@gmail.com>
Date:   Fri Nov 15 17:00:00 2013 -0800

configure.ac: Add whitespace near PCI configuration

Signed-off-by: Connor Behan <connor.behan@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 80481267662c8687e73081237913fa561e7a6561
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Nov 23 22:22:37 2013 -0800

Bump release to 1.14.99.903 (1.15 RC3)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f1604002a32b7f098c2a16b4a8649c694af570c8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Nov 18 22:36:17 2013 -0800

miext: Ensure xshm_fence is only called when driver supports it

This provides a place for drivers to insert their own FD-based
SyncFence implementations, and prevents applications from using DRI3
SyncFence creation functions unless the driver has some support for
them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Fredrik Höglund <fredrik@kde.org>

commit 037566c57caff93fd7717f385d4b532b81f19c77
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Nov 18 22:33:27 2013 -0800

Xext: Recover from miSyncInitFenceFromFD failure without crashing

miSyncDestroyFence must not be called unless miSyncInitFence has been
invoked, so if miSyncInitFenceFromFD fails, we must free the fence
manually.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Fredrik Höglund <fredrik@kde.org>

commit e7000534a456fd9cd4eaada3193846c8525f740
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sat Oct 5 08:47:03 2013 +0100

glx/glxdri2: Unwrap EnterVT/LeaveVT upon CloseScreen

In a similar spirit to

commit d75e8146c414bdf512ba5dbd4a83acb334bbe19b
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 12 16:01:34 2010 -0700
Unwrap/rewrap EnterVT/LeaveVT completely, Fixes 28998

we need to unwrap our pScrn->EnterVT/LeaveVT hooks around server regeneration or else we cause an infinite recursion on the next VT switch afterwards.

Bugzilla: https://bugs.launchpad.net/ubuntu/+source/xserver-xorg-video-intel/+bug/1235516
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6d5883bd7e5b765f8f0548501b825d9e56840799
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 23 16:19:46 2013 -0800

xnest: Ignore GetImage() error in xnestGetImage() (v3)

(I found an amended version of this patch and applied the difference here - keithp)

v3: Don't call Xsync before restoring error handler as any errors generated by XGetImage() should be processed when this call returns as suggested by Jamey Sharp <jamey@minilop.net>

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 6403cbb143c67872ca9c58e3116ae7942def0ae1
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 19 22:13:54 2013 -0800

present: When unflipping, copy to flip window rather than screen

unflip happens after the clip lists have been updated, so instead of smashing the whole screen and drawing over other windows, just draw to the original flip window; it'll have the right clip list and so the copy will work just fine.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8bdd2ccc776ded3f527596b5009ef25129aa3287
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 11 18:03:42 2013 -0800

present: Block for wait_fence in present_execute
Pend presentation until wait_fence is also triggered by having the SyncFence trigger invoke present_execute once triggered.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e5a188cb919edee2e3a03054276bce0db02f7b62
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 9 12:36:47 2013 -0800

present: Signal destroyed flip window with vblank->window == NULL

This eliminates dereferencing freed window pointers when there is a flip for that window in progress. The flip will complete, and then immediately get undone (as we can't stop an in-progress flip).

Remove the vblank->window_destroyed field as we can signal this with vblank->window == NULL instead.

Change check to vblank->window == NULL in:

    present_flip_notify

Add check for vblank->window == NULL in:

    present_vblank_notify
    present_execute

present_flip_notify was also using vblank->window->drawable.pScreen, so stop doing that and use vblank->screen instead.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a5bcc4f7b9499caf8993f0a6ef96088553399ca3
Author: Keith Packard <keithp@keithp.com>
Date: Sat Nov 9 12:33:02 2013 -0800

present: Ignore event_id 0 from driver vblank notify

We use event_id 0 to mean 'no such event'; if a driver sends us that event_id, make sure we don't accidentally match it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4f3c37a1f17ffcfbffbff71d217e1caadd3d0148c90
Author: Keith Packard <keithp@keithp.com>
Date: Thu Nov 7 14:17:12 2013 -0800
present: Round fake MSC computations instead of truncating

If the timer fired too early, we'd sometimes mis-compute the MSC for fake vblanks. Rounding the computation to the nearest MSC fixes this nicely.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit dd9997f89f14ab619f244d5b2e80a423b028c789
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 19 08:07:09 2013 +1000

configure: allow for --enable-libunwind and --disable-libunwind

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a307ac27382dd00c377cd1a436cb25cb5aaa54416
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 13:39:52 2013 +0900

Handle new DamageUnregister API which has only one argument

API change in 1.15

Signed-off-by: Keith Packard <keithp@keithp.com>

commit d6ffce4b0e2376e1f8f04ee70b323a6aa3e517e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 15 13:26:36 2013 +0900

Clean up compiler warnings.
Add const to any immutable string pointers.
Rename 'range' to 'prop_range' to avoid redefined warning.
Eliminate some unused return values.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 29240e5cbf6e7f875b128fc7bfc4d56b2350835a
Merge: 0492deb8f8 8ff7e32e3e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 14 17:02:04 2013 +0900

Merge remote-tracking branch 'whot/for-keith'
mieq: Bump default queue size to 512

Based on some bugzilla scraping I did around November 2012. Of xserver bugs in Red Hat bugzilla with an EQ size message in the log, the distribution looked like:

<table>
<thead>
<tr>
<th>String</th>
<th>Matches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increasing EQ size to 512</td>
<td>460</td>
</tr>
<tr>
<td>Increasing EQ size to 1024</td>
<td>52</td>
</tr>
<tr>
<td>Increasing EQ size to 2048</td>
<td>6</td>
</tr>
<tr>
<td>Increasing EQ size to 4096</td>
<td>0</td>
</tr>
</tbody>
</table>

Most of the "512" ones appear to be mostly harmless, some relatively expensive path in either rendering or resource destruction simply taking too long due to external pressures like paging or CPU contention. So let's raise the initial queue size, both to reduce the number of spurious abrt reports and to drop fewer events in all but the most pathological cases.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: return NULL for compat output if no outputs.

With outputless GPUs showing up we crash here if there are not outputs try and recover with a bit of grace.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

test: build the touch test only when building Xorg

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dan Horák <dan@danny.cz>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8ff7e32c3ef7b0c13c4ab9664f651e9782d35a85
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Nov 13 17:14:11 2013 +1000

include: export key_is_down and friends

VNC needs key_is_down to check if a key is processed as down before it
simulates various key releases. Make it available, because I seriously can't
be bothered thinking about how to rewrite VNC to not need that.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Keith Packard <keithp@keithp.com>

commit 0ba7fc8472f1227fd1cd51bd58048f164b8ea1ab
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Nov 12 14:46:04 2013 -0800

Stop including inline assembly .il file for Solaris Studio builds

Since all the inb/outb/etc. use in the X server itself (except for
xf86SlowBcopy) has been replaced by calls to libpciaccess, we no
longer need to pass inline assembly files to replace the gcc inline
assembly from hw/xfree86/common/compiler.h when building Xorg itself.

The .il files are still generated and installed in the SDK for the
benefit of drivers who may use them.

Binary diff of before and after showed that xf86SlowBcopy was the
only function changed across the Xorg binary and all modules built
in the Xserver build, it just calls the outb() function now instead
of having the outb instructions inlined, making it a slightly slower
bcopy.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 550baf38f38f6096658f0b6cfdad647c4fedf93132f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 4 10:55:52 2013 +1000

kdrive: fix cursor jumps on CursorOffScreen behavior

This patch fixes cursor jumps when there is a grab on the Xephyr window and
the pointer moves outside the window.
So on two side-by-side 640x480 screens, a coordinate of 0/481 triggers KdCursorOffscreen.

If the delta between two screens is 0, they share the same offset for that dimension. When searching for the new screen, the loop always rules out the current screen. So we get to the second screen, trigger the conditions where dy <= 0 and decide that this new screen is the correct one. The result is that whenever KdCursorOffScreen is called, the pointer jumps to the other screen.

Change to check for dy < 0 etc. so that the cursor stays on the same screen if there is no other screen at the target location.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a94d945065177d73f3ee8dc0b9147264ba281136
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 29 14:24:41 2013 +1000

kdrive: modify ephyr events to use POINTER_DESKTOP and scale them to that

A multi-head Xephyr instance has the pointer stuck on one screen because of bad coordinate calculation. The coordinates passed to GetPointerEvents are per-screen, so the cursor gets stuck on the left-most screen by default.

Adjust and mark the events as POINTER_DESKTOP, so the DIX can adjust them accordingly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d66832a3b8a8675f1e5f3656dcb1bbe95598f0ea
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 14 13:21:54 2013 +1000

kdrive: handle WxH as valid geometry spec

If a screen size was specified as WxH, the loop returned early and kdOrigin was never advanced. Thus, screen->origin was always 0 (or whatever was given at the -origin commandline flag).

If a screen size was given with a bit depth (WxHxD), kdOrigin would always advance by the current screen, offsetting the next screen.

Signed-off-by: Keith Packard <keithp@keithp.com>
ephyr: xcb_connect returns an error, not NULL

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2aa67cc6f6ad8f51deb94b66defc668dd7d226c
Author: Keith Packard <keithp@keithp.com>
Date:    Thu Nov 14 10:26:20 2013 +0900

Update to version 1.14.99.902

1.15 RC2

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9309d2a009a6a3b6090fc377fc7a3ededa34dc0
Author: Keith Packard <keithp@keithp.com>
Date:    Wed Nov 13 07:01:45 2013 +0900

xext: Fix shmint.h to not use headers outside of sdk_HEADERS

shmint.h is part of sdk_HEADERS, and so can't use anything not included in sdk_HEADERS.

busfault.h includes dix-config.h which is not. Leave the use of struct busfault in shmint.h and move the include of busfault.h to shm.c.

protocol-versions.h is not part of sdk_HEADERS, so instead of using that, just use XTRANS_SEND_FDS to choose whether to expose the fd passing requests directly.

Reported-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Knut Petersen <Knut_Petersen@t-online.de>
Reviewed-by: Julien Cristau <jcristau@debian.org>

v2: also avoid using protocol-versions.h

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Fri Nov 8 14:55:33 2013 -0800

xfree86: Fix build without libpciaccess

Regression fix from commit 04ab07ca19236d6c9a947e065fb69b0dd0d16639

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Connor Behan <connor.behan@gmail.com>

commit 5b02d5b7aaabf1ba8dcbdfe4525b7995b4e79f92
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Nov 7 21:08:56 2013 -0800

Enable XTRANS_SEND_FDS on Solaris too.

Requires passing through the __EXTENSIONS__ and _XOPEN_SOURCE defines in order to expose the msg_control members in struct msghdr.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c4c154d18ef42dc550f2675a9ee88e07b1ca6bed
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Nov 7 21:05:33 2013 -0800

Avoid conflicts with Solaris <sys/regset.h> defines that clash with our names

When building on Solaris with _XOPEN_SOURCE set to a recent XPG release, <stdlib.h> and other core headers start including <sys/regset.h>, which has a bunch of unfortunately named macros such as "CS", "ES", etc. for x86 & x64 registers which clash with existing variable & struct member names in Xorg - so #undef these so they don't interfere with our use.

(Yes, have filed a bug against the system headers for exposing these, but this solves the problem for building on existing releases.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d7f9be0f8541368bf1a095ad1fbe7f38be6d3d15
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 11 15:48:41 2013 -0800

Proper spelling of MAP_ANONYMOUS is MAP_ANON.

The former doesn't exist on BSD and the latter is available everywhere AFAIK (checked Solaris and Linux).
You also might want to wrap that line ;).

Reported-by: Mark Kettenis <mark.kettenis@xs4all.nl>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fc84166e65c35ad75f566b135dcfc305ad5a2fde
Author: Keith Packard <keithp@keithp.com>
Date: Thu Nov  7 15:18:28 2013 -0800

Get rid of the rest of the FD passing code when XTRANS_SEND_FDS isn't set
req_fds and SetReqFds in include/dixstruct.h

ReadFdFromClient, WriteFdToClient and the FD flushing in os/io.c

Signed-off-by: Keith Packard <keithp@keithp.com>

commit a239e6fa3f3ce848ac0d10c48f8e817db68a493c
Merge: 43e5a43fa8 f70a8bf371
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 11 15:26:12 2013 -0800

Merge remote-tracking branch 'jeremyhu/master'

commit 43e5a43fa8994e50cf01dd954118f4ef2c4e7933
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Nov  7 12:01:41 2013 -0500

present: Don't try to initialize when building without present support

There's a --disable-present, so it'd be nice if it worked.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0822a23e048b12c98c654e8b6af711c5f2c97141
Author: Keith Packard <keithp@keithp.com>
Date: Thu Nov  7 03:19:42 2013 -0800

present: Change debug output a bit to help diagnose missing vblank signals

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 20bb49ae9ba11d3dcccfa191483cd682d9c9d96c
Author: Keith Packard <keithp@keithp.com>
Present: Check for window/fence destroyed when idling pixmaps

A client destroying objects in the middle of an unflip can end up having the screen flip window or fence set to NULL in the unflip notify path. Check for these and don't try to use those objects.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Trap SIGBUS to handle truncated shared memory segments

If a client passes a section of memory via file descriptor and then subsequently truncates that file, the underlying pages will be freed and the addresses invalidated. Subsequent accesses to the page will fail with a SIGBUS error.

Trap that SIGBUS, figure out which segment was causing the error and then allocate new pages to fill in for that region. Mark the offending shared segment as invalid and free the resource ID so that the client will be able to tell when subsequently attempting to use the segment.

Signed-off-by: Keith Packard <keithp@keithp.com>

v2: Use MAP_FIXED to simplify the recovery logic (Mark Kettenis)
v3: Also catch errors in ShmCreateSegment

Conflicts:
   include/dix-config.h.in
   include/xorg-config.h.in

Require libXtrans version 1.3.2

This has the FD passing support included

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Xext: Enable MIT-SHM FD-passing request definitions only when possible

Check to see if xtrans FD passing is available and use that to advertise the appropriate version of the SHM extension

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit ea8acfe3e2f74a46c3f1e91809b4b99af18502b7
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 6 23:06:28 2013 -0800

Required xextproto version 7.2.99.901

This includes the MIT-SHM FD passing requests

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 914672febac15386041e7c2bc3beed4faf45e9d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 7 14:20:26 2013 -0800

Remove dix-config.h config variables from xorg-config.h

xorg-config.h includes dix-config, so there's no need to duplicate.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ?aad79c5a582ece301d950bd6f0bcb4b9956e86
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 6 23:05:46 2013 -0800

Make XTrans FD passing support optional. Define only on Linux

Until other operating systems have a libXtrans port for FD passing, disable this on non-Linux systems.

Note that this define affects how libXtrans gets built into the X server, which is why it need only define the symbol

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f70a8b3714d89bccaad36841ef9149e91ad3bba
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sun Nov 10 11:40:27 2013 -0800

XQuartz: Don't sleep forever on exit if usleep() returns an error

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ebcc1c214c466582d7b92826b4860256fd9e582a
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sun Nov 10 11:26:49 2013 -0800

XQuartz: Update Info.plist copyright years

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 81c123ea2dd833864f7ba217791e59acca0f7c97
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Mon Nov 4 12:13:45 2013 -0800

configure.ac: Move GLX section after DRI

The GLX section of configure.ac checks the state of DRI2, so it needs to be after DRI2=auto is resolved.

Also reset libgl requirement to 7.1.0 in non-dri2 case.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ab4b1fb38a61feb73d8336cc7a3399eb9d3d25be
Author: Andreas Schwab <schwab@suse.de>
Date: Thu Aug 15 12:03:42 2013 +0200

ARM64: Add support for aarch64

Signed-off-by: Andreas Schwab <schwab@suse.de>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8fcf82cbf015609e00b3feb9bc567133c7ae5cf
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 5 18:39:11 2013 -0800

Use $GL_LIBS instead of -lGL for linking

-lGL presumes that the GL library is in the system path, while $GL_LIBS is auto-detected.
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f348935e7d2c84a438aba08ee2f2c4e0dc77d20
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 5 18:37:12 2013 -0800

Link with xshmfence, reference miSyncShmScreenInit in sdksyms

This gets the server to link with xshmfence again, and also ensures that the miSyncShm code is linked into the server with the reference from sdksyms.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5f1e832694e57986c0185048a941b3af51b2f85f
Author: Julien Cristau <jcristau@debian.org>
Date: Tue Nov 5 07:08:21 2013 -0800

os: Actually use the computed clockid in GetTimeInMicros

The selection of which clock to use for this function was not actually getting used when fetching the final clock value.

Reported-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 903a058370645ea075ea98d380fd565efb6160c9
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 4 19:01:26 2013 -0800

hw/xfree86: Link libdri3 only when DRI3 is defined

Don't attempt to link non-existant libraries...

Signed-off-by: Keith Packard <keithp@keithp.com>

commit aaf0e29619196a283fee7ead2020a91032d84f48
Author: Keith Packard <keithp@keithp.com>
Date: Sun Nov 3 09:56:02 2013 -0800

Disable DRI3 and sync fence FD functions if xshmfence isn't available

Make sure the server can build when the xshmfence library isn't present

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 33c85beed521c9db140cadd8c5aa9992398ee1fe
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 1 01:01:58 2013 -0700

Set version to 1.14.99.901 (1.15 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9db1d66f6d2c6857de220d8f1c08965962fe1416
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 1 01:43:59 2013 -0700

Add dri3 and present directory to distribution

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 977e2644b1d9e13b44debc9a372ubb832ee32a3
Merge: 66c5ee0ff4 f36f5a65f6
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 1 00:34:18 2013 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 66c5ee0ff4690e630a69656331fd9d545c99c26c
Author: Egbert Eich <eich@freedesktop.org>
Date: Wed Aug 14 18:18:56 2013 +0200

cfgconfig/APM: Add option to disable building of APM support on Linux

APM support in the Xserver was used to restore the console mode prior to a power management event. This was to ensure the mode upon suspend/resume was one that the system firmware or kernel could deal with. APM support is now largely obsolete, KMS drivers don't require a mode restoration anyhow. Therefore it should be possible to disable this feature.

(small modification by keithp - move test for XF86PM flag after check for APM, then move XF86PM flag to xorg-config.h.in)

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f36f5a65f639b6524191d888d5bf89e73027156c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 30 15:40:58 2013 +1000

sync: fix corner-case in triggering idle alarms
ProcessInputEvent() resets the device idle times. If idle time was higher than the lower bracket, this should trigger an event in the idle time wakeup handler.

If processing is slow, the idle time may advance past the lower bracket between the reset and the time the BlockHandler is called. In that case, we'd never schedule a wakeup to handle the event, causing us to randomly miss events.

Ran tests with a neg transition trigger on 5ms with 200 repeats of the test and it succeeded. Anything below that gets a bit tricky to make sure the server sees the same idle time as the client usleeps for.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f994d99539192a10a8c83047e11991f52e0ca677
Author: Egbert Eich <eich@freedesktop.org>
Date: Wed Aug 14 18:18:39 2013 +0200

cfg/ACPI: Add option to disable building of ACPI support on Linux

ACPI support in the Xserver was used to restore the console mode prior to a power management event. This was to ensure the mode upon suspend/resume was one that the system firmware or kernel could deal with.

The feature depended on acpid to be running. Most of this functionality is now take over by systemd, KMS drivers don't require a mode restoration anyhow. Therefore it should be possible to disable this feature under some circumstances.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2aa5092b88174cb9988076ae96298217c97ad75f
Author: Egbert Eich <eich@freedesktop.org>
Date: Mon Aug 12 18:21:33 2013 +0200

DDX/Randr: Avoid server crash when xrandr SetConfig is called while switched away

A call to Xrandr SetScreenConfig (for randr 1.1) causes the Xserver to crash when xf86SetViewport() which does not check if the hardware is accessible.

Wrap accesses to xf86SetViewport() with if (vtSema) [ ... ] to avoid that.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
DDX/Events: Distinguish between Input- and GeneralHandlers in xf86VTSwitch()

When enabling/disabling input handlers in xf86VTSwitch() we treat Input- and GeneralHandlers equally. The result is that after a VT switch the masks for EnabledDevices and AllSockets are equal and the distinction between both types is lost.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

DDX/modes: Add a sanity check when using screen sizes from EDID

EDID sometimes lies about screen sizes. Since the screen size is used by clients to determine the DPI a wrong ration will lead to terrible looking fonts.
Add a sanity check for the h/v ratio cutting off at 2.4. This would still accept the cinemascope aspect ratio as valid.
Also add message suggesting to add a quirk table entry.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

DDX/DPMS: Call dixSaveScreens() also when screen is turned on

DMPS calls dixSaveScreens() when turned off but not when turned on. In most cases this is irrelevant as DPMS is done when a key is hit in which case dixSaveScreens() will be called to unblank anyhow. This isn't the case if we use xset (or the DPMS extension directly) to unblank.
Check screenIsSaved to make sure the state needs to be changed before calling dixSaveScreens().
ephyr: Ensure stride of private framebuffer is multiple of 4

The fb layer of X can't deal with strides that are not a multiple of 4, so when Xephyr allocates its own framebuffer it should make sure to align it.

This fixes crashes and rendering corruption when Xephyr runs in a depth that is different from the host X server and its screen size is not a multiple of 4 / depth. (This is particularly easy to trigger if you use the -resizeable option).

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 97cf53cc2ad7ecfd495133bad31d0ec7d939326
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Mon Oct 21 16:58:54 2013 -0400

ephyr: hostx_screen_init(): Fix bits_per_pixel and bytes_per_line

When the depth of the Xephyr server matches that of the host X server, Xephyr simply uses the buffer associated with the XImage as its framebuffer. In this case, it is correct to get the bits_per_pixel and bytes_per_line values returned from hostx_screen_init() from the XImage.

However, when the depth doesn't match the host, Xephyr uses a private framebuffer that is periodically copied to the XImage. In this case, the returned values of bits_per_pixel and bytes_per_line should be those of the private framebuffer, not those of the XImage.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 55246b67b755d4c1039d54971fe3f77ea60d604e
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Oct 8 17:45:40 2013 -0400

xf86AddBusDeviceToConfigure(): Store device in DevToConfig[i].pVideo
After fc3ab84d the pVideo field in DevToConfig[i] is no longer initialized, so it's always NULL. This causes the duplicate finding algorithm in the beginning of the function to not work anymore as it is based on this field.

The symptom of this bug is that X -configure reports

   Number of created screens does not match number of detected devices.
   Configuration failed.
   Server terminated with error (2). Closing log file.

rather than producing a working config file.

This patch fixes that bug by initializing the field before calling xf86PciConfigureNewDev().

Cc: tvignatti@gmail.com
Signed-off-by: Soren Sandmann <ssp@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 95bf478b78e466002c382bcde74d62591e9215d
Merge: abf5d5ac12 bb745f2b45
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 31 18:18:19 2013 -0700

  Merge remote-tracking branch 'jeremyhu/master'

commit abf5d5ac12437ebe156b4dd500e2ac69eea3654
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Thu Oct 31 08:57:56 2013 -0700

  miext/damage: Partial revert of "Only wrap into the GC ops chain if there's a listener (v3)"

  Fixes regression from: 4dc2a76740d921c824a4d8193f39dd373475f02a

https://trac.macports.org/ticket/38993

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e4636072949a76477fe7c9d54662a0b3536b1372
Merge: 17ed7ac1fe 5c5c1b7798
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 31 17:05:48 2013 -0700
Merge remote-tracking branch 'keithp/dri3'

commits:
- commit 1ed7ac1f7426d66f688087e09da5ff1dbb41d3
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 31 18:39:22 2013 -0400
  
  gIx: Lie about GLX_Y_INVERTED_EXT

  Well, that was lame. The problem with reporting y inversion honestly is
  that libGL asks the driver _its_ opinion of Y inversion, which it just
  fabricates from whole cloth. So then when libGL goes to compare the
  driver's idea of fbconfigs with that of the server - a fairly dumb idea
  to begin with - nothing matches, and direct rendering fails, and
  sadness.

  So until the DRI drivers are fixed we should just continue to lie about
  Y inversion. GLX_DONT_CARE is what libGL would make up for that
  attribute if we hadn't sent it, so just send that instead.

  Signed-off-by: Adam Jackson <ajax@redhat.com>
  Tested-by: Keith Packard <keithp@keithp.com>
  Signed-off-by: Keith Packard <keithp@keithp.com>

- commit 5e5c1b77982a9af7279a90bc3c2be48adaa9c778
  Author: Keith Packard <keithp@keithp.com>
  Date: Thu Jul 11 16:11:57 2013 -0700
  
  present: Add Present extension

  Provides both a software implementation using timers and driver hooks
  to base everything on vblank intervals.

  Signed-off-by: Keith Packard <keithp@keithp.com>
  Reviewed-by: Adam Jackson <ajax@redhat.com>

- commit 563138298868f62501875d3016f03469dcffaad0
  Author: Keith Packard <keithp@keithp.com>
  Date: Tue Apr 9 19:59:39 2013 -0700
  
  dri3: Add DRI3 extension

  Adds DRM compatible fences using futexes.
  Uses FD passing to get pixmaps from DRM applications.

  Signed-off-by: Keith Packard <keithp@keithp.com>
  Reviewed-by: Adam Jackson <ajax@redhat.com>

- commit fdec793dec2ef9a6ea66b311cb1068a7bd4a3be3

...
Add support for MIT-SHM AttachFd request

This passes a file descriptor from the client to the server, which is then mmap'd

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Add interfaces to get FDs from clients over the socket

This adds two interfaces:

void SetReqFds(ClientPtr client, int req_fds)

Marks the number of file descriptors expected for this request. Call this before any request processing so that any un-retrieved file descriptors will be closed automatically.

int ReadFdFromClient(ClientPtr client)

Reads the next queued file descriptor from the connection. If this request is not expecting any more file descriptors, or if there are no more file descriptors available from the connection, then this will return -1.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

misync: Don't smash custom screen sync functions

There was a check to avoid smashing custom functions, but the sense was backwards causing it to always smash them, and also not set them otherwise.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
open source used in field network director for virtual machine installation 4.7.1

commit 2d96948ab5c952b68875ac63844cf7d778d4bf63
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 11 16:10:34 2013 -0700

os: Add GetTimeInMicros

64-bit higher resolution current time value.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0c33f47281c36726848daf513fb0483cdea57bff
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 11 16:09:34 2013 -0700

Add swapll to byte swap 64-bit datatypes

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 26f013ba45b08a02bb028a461af68288a86fadb1
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 11 16:08:41 2013 -0700

Add a RegionDuplicate function

This allocates a new region structure and copies a source region into it in a single API rather than forcing the caller to do both steps themselves.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d25c217964eb1fe54c3a54bca4cac7f47b4b9fd
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jan 14 14:24:36 2013 -0800

Clean up a couple of warnings in os/

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 7710f2b927ec8e3c631f72d66d494b523377b48e
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jan 18 21:43:40 2013 -0800

Xext: Move MIT-SHM 'ShmDesc' to shmint.h

This data structure is required to use shared memory objects in any
extension. That includes the Xv extension, which (before this patch) duplicated the definition of this structure in its own code.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e8961b718d82f1c081ec110d8d962f64e8406b82
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 22 14:24:52 2013 +1000

os: use a constant for backtrace array size

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mehcye.net>

commit f12a9ed870017f35cf6d2a82b1405e843ae42ac
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 29 15:24:11 2013 +1000

configure: remove a comment

94ed0ba1b5043ad9fc33b42756af447d5ab15bbd moved backtracing into the DIX, so this comment is outdated. since no-one noticed and it's easier to just grep than update file references, remove the comment.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mehcye.net>

commit bb745f2b45768d0936f3960951e1a5cee8b03194
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Oct 31 08:50:57 2013 -0700

XQuartz: Bump bundle version to 2.7.6

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 2eedf42c229e2251035d716a96b654222155cd51
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 31 09:23:52 2013 -0400

dri: Fix GLX_Y_INVERTED_EXT fbconfig attribute

We're Y-inverted from GL's coordinates, so this is correct. gnome-shell doesn't seem to check this - somewhat reasonable since the only server that answered the other way around was Xglx - but kwin does, and upside-down hilarity ensues.

Tested-by: maelcum on #xorg-devel
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 902f0b3497d202b86bf9a411e17db7b694d6eaa
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 29 12:58:14 2013 -0400

xfree86: Bump video/input/extension ABIs for 1.15

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 899451ae595f5f51a500295c624bf7ad14aca602
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 30 08:54:24 2013 -0700

kdrive/ephyr: Don't discard one-time driver structure at server reset

KdScreenInfo is constructed at server startup time, and not re-generated at server reset time. Freeing the 'driver' element at reset time means this information is lost, and the server crashes pretty quickly afterwards.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 85ae44f07fa21b4a48d95d736dc8135bd4f751d0
Author: Michal Srb <msrb@suse.com>
Date:   Wed Oct 30 13:33:51 2013 +0200

randr: deliver Output and Crtc events of attached output providers.

Consider all attached output providers when looking for changed outputs and crtcs.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Michal Srb <msrb@suse.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a9ca93dcf9a711b3d60f6bad31cb4d4e0c82b6f42
Author: Michal Srb <msrb@suse.com>
Date:   Wed Oct 30 13:33:50 2013 +0200

randr: send RRResourceChangeNotify event

Send RRResourceChangeNotify event when provider, output or crtc was created or destroyed. I.e. when the list of resources returned by RRGetScreenResources and
RRGetProviders changes.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Michal Srb <msrb@suse.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4b39ea8a918fe6117bf34dc1c6ba67a4e56d0d1fb
Author: Michal Srb <msrb@suse.com>
Date:   Wed Oct 30 13:33:49 2013 +0200

randr: send RRProviderChangeNotify event

Send RRProviderChangeNotify event when a provider becomes output source or
offload sink.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Michal Srb <msrb@suse.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1470c0a132806fb2ce817515ad4ddfe66eb7e98f
Merge: 04ab07ca19 9f4afe7e83
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 29 21:00:13 2013 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 9f4afe7e835cf9c513387ae01eaf8b7a6ba4a9
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Mon Oct 28 18:32:36 2013 -0400

config: replace deprecated use of AC_OUTPUT with AC_CONFIG_FILES

Fix Automake warning: AC_OUTPUT should be used without arguments.
www.gnu.org/software/autoconf/manual/autoconf.html#Configuration-Files

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e16dea72d6f45dd6d7788362bb7dbe76263719b1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 23 15:16:25 2013 +1000

dmx: queue button events with a flags of 0

Setting POINTER_SCREEN with an unset valuator mask causes a jump to 0/0. Set
the flags to 0 so we don't generate any motion on a button event.
xfree86: Find primary entity when bus types are nominally different

As of server 1.13, systems with DRM and Udev will have BUS_PLATFORM as their primary bus type. However, drivers not implementing a platformProbe function will still create entities of type BUS_PCI. We need to account for this when checking for the primary entity.

glx: convert to direct GL dispatch (v2)

We now expect to be linked against something that provides the GL API, instead of manually grubbing about in the DRI driver's dispatch table. Since the GLX we expose calls GL functions that are meant to be looked up dynamically, also add a way to thunk through to GetProcAddress.

This includes a refresh of the generated sources, which requires a correspondingly new Mesa.

The GetProcAddress stubs are at the moment merely enough to make this link against Mesa 9.2, but should really be provided for everything not in the OpenGL 1.2 ABI.

v2: Explicitly hide the GetProcAddress stubs so we can't conflict with libGL symbols; fix leading tab/space issues [anholt]
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8aacf47e1778d8b72811b025a82452b933d3c1f2
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 4 12:58:19 2013 -0400

glx: Remove DRI1 AIGLX (v2)

Mesa doesn't ship DRI1 drivers as of 8.0, which is about 18 months and
three releases ago. The main reason to have wanted DRI1 AIGLX was to
get a GLX compositor working, but DRI1's (lack of) memory management API
meant that the cost of a GLX compositor was breaking direct GLX apps,
which isn't a great tradeoff.

Of the DRI1 drivers Mesa has dropped, I believe only mga stands to lose
some functionality here, since it and only it has support for
NV_texture_rectangle. Since that's required for every extant GLX
compositor I know of, I conclude that anybody with a savage, say, would
probably not notice AIGLX going away, since they wouldn't be running a
GLX compositor in the first place.

In the future we'd like to use GL in the server in a more natural way,
as just another EGL client, including in the GLX implementation itself.
Since there's no EGL implemented for DRI1 drivers, this would already
doom AIGLX on DRI1 (short of entirely forking the GLX implementation,
which I'm not enthusiastic about).

v2: Remove DRI1 from AIGLX conditionals in configure.ac [anholt]

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7f5adf73a0f9a951a6df201532b4031d38054369
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 2 17:38:05 2013 -0400

glx: Simplify glXDestroyContext

We can just free the resource unconditionally here. ContextGone (which
FreeResourceByType will call) already does:

    cx->idExists = GL_FALSE;
    if (!cx->currentClient) {
        __glXFreeContext(cx);
    }

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 53653f4889dcaea0cf67f8a4180af71eeb4b2f6b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 5 15:46:11 2013 -0400

glx: Fix a corner case in DrawableGone

Losing the drawable does not change our notion of current client. Since
the GL under us doesn't understand having a current context without
current drawables (sigh), we do still need to loseCurrent so that we
re-bind the context on the next request.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=65030
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 276d8057aa7f6e36c9c874257a6383f416e5cedd
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Aug 3 09:47:55 2013 -0400

glx: Fix memory leak in context garbage collection (v2)

I broke this, back in:

commit a48dadc98a28c969741979b70b7a639f24f4cbdbd
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 21 11:59:29 2011 -0400

glx: Reimplement context tags

In that, I changed the glx client state to not explicitly track the list
of current contexts for the client (since that was what we were deriving
tags from). The bug was that I removed the code for same from
glxClientCallback without noticing that it had the side effect of
effectively de-currenting those contexts, so that ContextGone could free
them. So, if you had a client exit with a context still current, the
context's memory would leak. Not a huge deal for direct clients, but
viciously bad for indirect, since the swrast context state at the bottom
of Mesa is like 15M.

Fix this by promoting Bool isCurrent to ClientPtr currentClient, so that
we have a back-pointer to chase when walking the list of contexts when
ClientStateGone happens.

v2: Explicitly call __glXFreeContext on the ClientStateGone path. Our
current context might be one we got from EXT_import_context and whose
creating client has since died. Without the explicit call, the creating
client's FreeClientResources would not free the context because it's
still current, and the using client's FreeClientResources would not free the context because it's not an XID it created. This matches the logic from a48dadc.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 75b362763cca8b6139582ad85e3b58f0b2e30a1c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 8 15:02:44 2013 -0400

glx: Only take a Pixmap reference if creating the GLXPixmap succeeded

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4292a39c8014f9f4920bed3001802e4a3e523c5e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 28 12:10:10 2013 +1000

Xi: fix logic error when calculating emulated motion events

gcc -Wlogical-op
exevents.c: In function 'DeliverEmulatedMotionEvent':
exevents.c:1480:13: warning: logical 'or' of collectively exhaustive
tests is always true [-Wlogical-op]

The relevant snippet of exevents.c:

    1479         if (ti->listeners[0].type != LISTENER_POINTER_REGULAR ||
    1480             ti->listeners[0].type != LISTENER_POINTER_GRAB)
    1481         return;

This condition was always true, causing dropped motion events.

Reported-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit c671e935e7c44d4711ba9588ee96cb9796b879e6
Author: Daniel Czarnowski <daniel.czarnowski@intel.com>
Date:   Mon Oct 21 19:48:38 2013 +0200

glx: Enable GLX_ARB_fbconfig_float for DRI2 drivers

v2 (idr): Maintain sort order of extension list. Fixed rebase error
(comment header for initializeExtensions was in front of
  __glXDRInvalidateBuffers). Re-write commit message.
Signed-off-by: Daniel Czarnowski <daniel.czarnowski@intel.com>
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit ccc8bb1153ec669f7540a174a81a8ec0e0d6dd67
Author: Daniel Czarnowski <daniel.czarnowski@intel.com>
Date: Wed Oct 23 12:53:59 2013 +0200

glx: Handle float config types in glxConvertConfigs

Replaces old use of floatMode attribute with new, extended range of
values in __DRI_ATTRIB_RENDER_TYPE. Also adds new conditions, where the
float modes support requires it. Enables support for not only float
configs, but packed float configs as well.

v2 (idr): Whitespace and formatting fixes. Refactor render type
vs. pbuffer checking to a separate function that includes a quote from
the spec. Re-write commit message. Fix compiler warnings:

    glxdricommon.c: In function 'glxConvertConfigs':
    glxdricommon.c:212:35: warning: pointer targets in passing argument 3 of 'core->getConfigAttrib' differ in
    signedness [-Wpointer-sign]
    glxdricommon.c:212:35: note: expected 'unsigned int *' but argument is of type 'int *'
    glxdricommon.c:230:35: warning: pointer targets in passing argument 3 of 'core->getConfigAttrib' differ in
    signedness [-Wpointer-sign]
    glxdricommon.c:230:35: note: expected 'unsigned int *' but argument is of type 'int *'

Signed-off-by: Daniel Czarnowski <daniel.czarnowski@intel.com>
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 4e5eb15b4cc170499cfe87e6633c1737f0b1c514b
Author: Daniel Czarnowski <daniel.czarnowski@intel.com>
Date: Mon Oct 21 19:57:53 2013 +0200

glx: Correctly set render type enum

The type specified is bits, but the context wants an enum.

v2 (idr): Fix various whitespace and formatting problems. Rename
convFBconfRenderTypeBits2CtxRenderType to
renderTypeBitsToRenderTypeEnum. Re-write commit message.

Signed-off-by: Daniel Czarnowski <daniel.czarnowski@intel.com>
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
commit eabb523aa45f3d8940cadac197ef1225fbd5c56
Author: Daniel Czarnowski <daniel.czarnowski@intel.com>
Date:   Mon Oct 21 19:45:35 2013 +0200

glx: Allow float renderType in glXCreateContextAttribsARB

This enables GLX_RGBA_FLOAT_TYPE_ARB and
GLX_RGBA_UNSIGNED_FLOAT_TYPE_EXT as valid renderType parameters to
glxCreateContextAttribsARB.

v2 (idr) : Use C-style comments and fix word wrapping. Re-write commit
message.

Signed-off-by: Daniel Czarnowski <daniel.czarnowski@intel.com>
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 7ecfab47eb221dbb996ea6c033348b8eceae893
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Oct 22 14:22:04 2013 -0700

glx: Add support for the new DRI loader entrypoint.

This is going to be exposed (and not the old entrypoint) for some DRI
drivers once the megadriver series lands, and the plan is to
eventually transition all drivers to that. Hopefully this is
unobtrusive enough to merge to stable X servers so that they can be
compatible with new Mesa versions.

v2: typo fix in the comment

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 83bb366e71ef41165998eed2934208f84714a37e
Author: Strake <strake888@gmail.com>
Date:   Thu Oct 17 23:20:20 2013 -0500

unbreak KdEnableInput

pi = ki = 0 here, so not follow them.

Signed-off-by: Strake <strake888@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8db4121a3c7104548fd4a138ac1d1bdea5fd22d9
Update to version 1.14.99.3

Signed-off-by: Keith Packard <keithp@keithp.com>

commit e3220d7bae4548bf64e5879e981ad070ac1f78f7
Merge: 73b2660d72 2523a445a0
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 18 17:31:01 2013 -0700

Merge commit '2523a445a09a75a8baf642608d099a5e12d5437f'

This is merging the commits along Peter's for-keith branch, without
also merging in the spurious merge at the top of that branch.

commit f8662a133690773692dfa392ecfa3b8b56af8fa9
Merge: 7cf1b595c8 2523a445a0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 18 17:22:52 2013 -0700

Merge branch 'xsync-transition-bug-59644' into for-keith

commit 2523a445a09a75a8baf642608d099a5e12d5437f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 17 12:02:27 2013 +1000

sync: split updating and triggering a counter up

Now that the brackets are always the nearest change points (regardless of
transition) we need to update the counters whenever we check for any updates.

Otherwise we end up with a situation where counter->value is out of date and
an alarm doesn't trigger because we're still using the value from last time
something actually triggered.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e57ec99b03b2ad840c384a97ab2766ce9da0f5cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 16 16:31:15 2013 +1000

sync: always set the brackets (#59644)

The current code sets bracket_greater to the first trigger after the current
value, and bracket_less to the last trigger before the current value.

For example, the idle timer with three negative and three positive transitions would set this:

```
|--------|------|--|------- idle --|---|--|-----> t
pt1                pt2    pt3
```

bracket_less == nt2
bracket_greater == pt2

This is an optimization so we can skip code paths in the block/wakeup handlers if the current value doesn't meet any of the trigger requirements. Those handlers largely do a

```c
if (bracket_less is less than current value &&
    bracket_greater is greater than current value)
    return, nothing to do
```

However, unless the bracket values are updated at the correct time, the following may happen:

```
|--------------|---------- idle ------|--------> t
pt
```

In this case, neither bracket is set, we're past the pos transition and not yet at the neg transition. idle may now go past nt, but the brackets are not updated. If idle is then reset to 0, no alarm is triggered for nt. Likewise, idle may now go past pt and no alarm is triggered.

Changing an alarm or triggering an alarm will re-calculate the brackets, so this bug is somewhat random. If any other client triggers an alarm when the brackets are wrongly NULL, the recalculation will set them this bug may not appear.

This patch changes the behavior, so that the brackets are always the nearest positive or negative transitions to the current counter value. In the example above, nt will trigger a wakeup and a re-calculation of the brackets, so that going past it in the negative direction will then cause the proper alarm triggers.

Or, in Keith's words:

Timer currently past a positive trigger
    No bracket values, because no trigger in range

Timer moves backwards before the positive trigger
    Brackets not reset, even though there is now a trigger in range
Timer moves forward past the positive trigger
Trigger doesn't fire because brackets not set

Setting the LT bracket in this case will cause everything to get
re-evaluated when the sync value moves backwards before the trigger
value.

X.Org Bug 59644 <http://bugs.freedesktop.org/show_bug.cgi?id=59644>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 06b87aa528d7a739ba20101a1f83b1a428691a01
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 16 10:08:46 2013 +1000

sync: if the idle time was reset, force alarms to trigger (#70476)

The time between the idle reset and the IdleTimeWakeupHandler to be called is
indeterminate. Clients with an PositiveTransition or NegativeTransition alarm
on a low threshold may miss an alarm.

Work around this by keeping a reset flag for each device. When the
WakeupHandler triggers and the reset flag is set, we force a re-calculation of
everything and pretend the current idle time is zero. Immediately after is the
next calculation with the real idle time.

Relatively reproducible test case: Set up a XSyncNegativeTransition alarm for
a threshold of 1 ms. May trigger, may not.

X.Org Bug 70476 <http://bugs.freedesktop.org/show_bug.cgi?id=70476>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit efc1035ca958f2c9d266338a308518a0834b1773
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 16 09:36:01 2013 +1000

dix: provide accessor methods for the last device event time

And now that we have the accessors, localize it. No functional changes, just
preparing for a future change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
sync: supply the counter from IdleTimeBlockHandler

The main idletime counter has an initialized deviceid, might as well be supplying it properly. Without this, we'd only ever check the XIAllDevices counter, so the wait would never be adjusted for the device-specific triggers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2efe49c1029f959fe80879bcf50df42e8b80451d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 16 13:01:01 2013 +1000

sync: always call BracketValues when recalculating upper/lower brackets

Both ServertimeBracketValues and IdleTimeBracketValues copy the value into there SysCounter privates. Call it for a NULL set as well, so we don't end up with stale pointers and we can remove the block/wakeup handlers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5c7cf4d6978834551848e1be62af240102e39b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 15 10:11:20 2013 +1000

sync: compress two if statements

No functional changes, just merges a > and == condition into a >= condition.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 73b2660d7273d175d279d22f8ca0e3932a14ff1c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Sep 16 21:47:16 2013 -0700

Avoid use-after-free in dix/dixfonts.c: doImageText() [CVE-2013-4396]
Save a pointer to the passed in closure structure before copying it and overwriting the *c pointer to point to our copy instead of the original. If we hit an error, once we free(c), reset c to point to the original structure before jumping to the cleanup code that references *c.

Since one of the errors being checked for is whether the server was able to malloc(c->nChars * itemSize), the client can potentially pass a number of characters chosen to cause the malloc to fail and the error path to be taken, resulting in the read from freed memory.

Since the memory is accessed almost immediately afterwards, and the X server is mostly single threaded, the odds of the free memory having invalid contents are low with most malloc implementations when not using memory debugging features, but some allocators will definitely overwrite the memory there, leading to a likely crash.

Reported-by: Pedro Ribeiro <pedrib@gmail.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 8afe20d4e34adcf2d9bdf43a01d55335ea2c5dba
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Sep 16 21:45:29 2013 -0700

Update GLX dependencies now that DRI & DRI2 are builtins, not modules

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 2704adb24a2c7bac65b90e05f1a68438b34ecf58
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Sep 3 22:53:28 2013 -0700

DMX glxproxy: Don't allocate & copy data just to free it unused

Two functions in the DMX glxproxy code loop over all the backend screens, starting at the highest numbered and counting down to the lowest.

Previously, for each screen, the code would allocate a buffer large enough to read the reply from the backend, copy that reply into the buffer, and then if it wasn't the final screen, free it. Only the buffer from the final screen is used, to pass on to the client in the reply.

This modifies it to just immediately discard the responses from the screens as we loop through it, only doing the allocate & copy
work for the one buffer we pass back to the client.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Alex Deucher <aleander.deucher@amd.com>

commit 6c06c268adbab63ecebe74904899a030724cbdc54b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Aug 18 18:02:49 2013 -0700

Skip damage calls if DamageCreate fails in exa functions

Fixes parfait errors such as:

Null pointer dereference (CWE 476): Write to null pointer pDamage at line 1833 of miext/damage/damage.c in function 'DamageRegister'.
Function DamageCreate may return constant 'NULL' at line 1775, called at line 232 of exa/exa_migration_mixed.c in function 'exaPrepareAccessReg_mixed'.
Constant 'NULL' passed into function DamageRegister, argument pDamage, from call at line 237.
Null pointer introduced at line 1775 of miext/damage/damage.c in function 'DamageCreate'.

Null pointer dereference (CWE 476): Write to null pointer pDamage at line 1833 of miext/damage/damage.c in function 'DamageRegister'.
Function DamageCreate may return constant 'NULL' at line 1775, called at line 104 of exa/exa_mixed.c in function 'exaCreatePixmap_mixed'.
Constant 'NULL' passed into function DamageRegister, argument pDamage, from call at line 109.
Null pointer introduced at line 1775 of miext/damage/damage.c in function 'DamageCreate'.

Checks are similar to handling results of other calls to DamageCreate.

[ This bug was found by the Parfait 1.3.0 bug checking tool.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7cf1b595c8e8f9776a39559d2878cf90af3f2859
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 4 15:34:29 2013 +1000

dix: only deliver for the current grab type

Use the grabtype to determine which type of event to send - all other events are pointless and may result in erroneous events being delivered.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 78944d62f1c7fec6f75b6f514ab7a139ba9bc77b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 4 15:34:28 2013 +1000

dix: don't attempt to deliver an event for a different grabtype

For an active grab, grab->eventMask can be either the core or the XI1 mask. With the overlap of event filters, calling DeliverOneGrabbedEvent(XI1) for a ProximityOut event will trigger if the client has selected for enter events - the filter is the same for both.

Thus, we end up delivering a proximity event to a client not expecting one.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6159811a1aaf848016dbfa7bde68df097027870c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 4 15:34:27 2013 +1000

include: change grabtypes to start at 1

Avoid erroneous detection of an unset grabtype as CORE

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit be6ea80b79b3d6e9b97106ea142e01acbdf059995
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 4 15:34:26 2013 +1000

dix: only allow button and key events to freeze a sync’d pointer

If a client calls XAllowEvents(SyncPointer) it expects events as normal until the next button press or release event - that freezes the device. An e.g. proximity event must thus not freeze the pointer.

As per the spec, only button and key events may do so, so narrow it to these cases.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 93a27b2dd0d7ed51120f42456a91a7c59902ebc2
Author: Michele Baldessari <michele@acksyn.org>
Date:   Sun Sep 15 19:30:38 2013 +0100

Xephyr: restore cursor visibility

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=69388
Commit c100211034ab69ce453a1644fb61c6808d7e3eda (dix: only show the cursor if a window defines one (#58398)) broke the default cursor behaviour in Xephyr (unless run with -retro). Restore the default cursor visibility so that '-retro' or '-host-cursor' are not needed to have a visible cursor.

Signed-off-by: Michele Baldessari <michele@acksyn.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

as of ba387cf21f7d95987211f75d8024601e7d64e322 "ephyr: Use host (HW) cursors by default." this only applies if -sw-cursor is given on the cmdline.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 70efc799cebeec26f19831b3b14c0d4646198a077
Author: Michele Baldessari <michele@acksyn.org>
Date:   Sun Sep 15 19:56:34 2013 +0100

Fix Xephyr compilation when DEBUG is enabled

When DEBUG is enabled Xephyr compilation fails:
ephyrdriext.c:343:133: error: 'is_ok' undeclared (first use in this function)
   EPHYR_LOG("leave. is_ok:%d\n", is_ok);

Just reemove bogus is_ok variable.

Signed-off-by: Michele Baldessari <michele@acksyn.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5ac4bfc64bd75474e550b26bc1195a5ca245752
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 10 14:18:18 2013 -0400

input: calloc minimization for xi2mask_new

There's no reason to do this as (nmasks + 2) callocs, and it's a surprisingly hot path. Turns out you hit this ~once per passive grab, and you do a few bajillion passive grab changes every time you enter or leave the overview in gnome-shell. According to a callgrind of Xorg with gnome-shell-perf-tool run against it:

Ir before: 721437275
Ir after: 454227086

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 44d502c6f1d03a9e548f0941cede0228b6fde8394
Author: Jon TURNLEY <jon.turney@dronocode.org.uk>
Date: Sun Oct 6 16:45:52 2013 +0100

hw/xwin: Fix for "glx: Remove screen number from __GLXconfig"

Fix compilation after commit c3ec976f54c3c282d6fa6c8360688e036bc43d210 "glx:
Remove screen number from __GLXconfig"

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronocode.org.uk>

commit 6a9bd103cb993e873cb8266ab677ceed73c0bd85
Merge: ea3b7db4b7 8aae28e3cb
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 7 17:29:38 2013 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit ea3b7db4b7747f883ef7b8b524ee13bf8a63add14
Author: Emil Velikov <emil.l.velikov@gmail.com>
Date: Mon Oct 7 18:29:25 2013 +0100

configure.ac: Include missing proto declarations in SDK_REQUIRED_MODULES

Commits a1d41e3111c21e, 7d859bd87834d & 3ed2c6e11298c made extinit.h require
the XF86 Big Font, XRes & ScnSaver proto headers, but failed to add them
to the SDK_REQUIRED_MODULES so pkg-config would find them for driver builds.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Emil Velikov <emil.l.velikov@gmail.com>

commit 8aae28e3cbddd49bfa8d940a4a517c94a53b94f86
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sun Oct 6 09:20:45 2013 -0700

XQuartz: Don't set screen on __GLXConfig

Fixes regression introduced by c3ec976f54c3c282d6fa6c8360688e036bc43d210

Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit c5f8eb968efa970201712105a1ac880b517e7b6d
rootless: Use miCopyRegion instead of fbCopyRegion

Fixes regression introduced by e657635dbe6b92875b0e88370557c2cbbab673a49

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ccbe17b1c6da1ad9d085fc8133cdd15dc7004a4a
Author: Pino Toscano <toscano.pino@tiscali.it>
Date:   Wed Aug 28 17:15:03 2013 +0200

os: move <arpa/inet.h> for any !win32 system

It is needed in IPv6 configurations (for inet_pton) also when SIOCGIFCONF is not defined.

Signed-off-by: Pino Toscano <toscano.pino@tiscali.it>
Acked-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit c079b8e675dd2762c9e07fe5d8c07612299dceeb7
Author: Pino Toscano <toscano.pino@tiscali.it>
Date:   Wed Aug 28 17:04:48 2013 +0200

xfree86/hurd: include <hurd.h>

Needed for using get_privileged_port.

Signed-off-by: Pino Toscano <toscano.pino@tiscali.it>
Acked-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit f0659a7f68a5a334879af01a6a63742eab1bf5de
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 16:44:46 2013 -0700

Bump version to 1.14.99.2

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f2d149b6d10edea7233d93c7e19f71decf11dc62
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 16:43:41 2013 -0700

kdrive/ephyr: Remove duplicate ephyrExtensions and ephyrExtensionInit decls
These were duplicated when GLX support was re-added on two different branches.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit e0a678f0596f3547b98d74d5f0438b484b059458
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Sep 28 15:26:38 2013 -0400

xfree86: add a comment as to why the logdir is created

Without the logdir, the xserver will write the content of the log file on the
terminal stating that it cannot be written and will stop.

Refer to https://bugs.freedesktop.org/show_bug.cgi?id=3889

Reviewed-By:  Matt Dew <marcoz@osource.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5bdbf2db3f7da4a593b286020eab0c7857e940c
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Sep 28 15:26:37 2013 -0400

xfree86: Use $(MKDIR_P) for better code portability

Still true that we should not use the lower case $(mkdir_p) version.
However, remove the 2005 comment as the MKDIR_P is widely used now.

Reviewed-By:  Matt Dew <marcoz@osource.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b8cfb0dc8426754b477b561bc158b8a24c143ddf
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Sep 28 15:26:36 2013 -0400

Uninstall X link and CYGWIN libXorg.exe.a in local install targets

It is our duty to uninstall any files and/or directories that we installed
through install-data-local and install-exec-hook.

Currently the X symbolic link to Xorg remains on disk after running
make uninstall.

Note the exception for logdir which is usually shared by other modules.

Reviewed-By:  Matt Dew <marcoz@osource.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Xorg binary: use install-exec-hook rather than install-exec-local

The former was explicitly designed to execute additional code after the binary has been installed. The latter can be executed in any order, hence it's current dependency on install-binPROGRAMS as a workaround.

The CYGWIN libXorg.exe.a target is an installation target rather than a post-installation one, so it should not be done as a hook. It does not depend on the Xorg executable being installed.

Automake:
"These hooks are run after all other install rules of the appropriate type, exec or data, have completed. So, for instance, it is possible to perform post-installation modifications using an install hook".

"With the -local targets, there is no particular guarantee of execution order; typically, they are run early, but with parallel make, there is no way to be sure of that".

Use $(LN_S) provided by AC_PROG_LN_S macro to create links

For better code portability.

The Xorg binary is missing the extension $(EXEEXT) in the makefile

This is not a problem on UNIX platforms, but on CYGWIN it creates a broken
link to Xorg rather than a link to Xorg.exe.

From the CYGWIN log on tinderbox, we can see that the executable Xorg.exe is installed correctly. We can see the command used to create the link:

(cd /jhbuild/install/[...]/install/bin && rm -f X && ln -s Xorg X)

Note that the "relink" makefile target correctly appends $(EXEEXT) to Xorg.

Reviewed-By: Matt Dew <marcoz@osource.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f3b529bf25db2700addbafc7aa4fc5b126ba9929
Merge: 4399bd3832 abc2bfca16
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 14:04:48 2013 -0700

Merge remote-tracking branch 'anholt/ephyr-fixes'

commit 4399bd38326b81f7b92365346504d7c6354772a9
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Mon Sep 30 13:30:46 2013 -0400

miext/shadow: missing c2p_core.h breaks "make distcheck" target.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9ccb4a63982942fdce19609d2cadbd8e51708462
Merge: 5d2ec6933f da5e20127a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 13:54:55 2013 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 5d2ec6933f6bb5116666ca1bf0b7f0f20bf2a0b5
Merge: 7d3d4ae55d 6ee4d9f94a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 13:50:04 2013 -0700

Merge remote-tracking branch 'ajax/xserver-next'

commit da5e20127a5b6e11a47eb6e61f3ea87b056cd15f
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Sep 19 19:13:35 2013 -0400
test: add new os executable to .gitignore

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c73c36b537f996574628e69681833ea37dec2b6e
Author: Laércio de Sousa <lbsousajr@gmail.com>
Date:   Wed Sep 18 13:42:17 2013 -0300

xserver: enable InputClass option "GrabDevice" by default for non-seat0 seats (#69478)

This patch contributes to fill the remaining gaps which make systemctl-multi-seat-x wrapper still necessary in some multiseat setups.

This also replaces previous evdev patch that does the same thing for that particular driver.

When option "-seat" is passed with an argument different from "seat0", option "GrabDevice" for input devices is enabled by default (no need of enabling it in xorg.conf's "InputClass" section).

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=69478

Signed-off-by: Laércio de Sousa <lbsousajr@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 160c2db32d0b9ee5316a44179a6af4f47722e3d0a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 18 16:04:44 2013 +1000

dmx: provide enough space for axis mappings

relmap/absmap is used as a evdev-axis-to-x-axis mapping. ABS_X maps to axis 0, ABS_Y to 1, etc. skipping over non-existing axes so that the third bit set in the ABS_* range is axis 2, and so on. This requires us to actually have enough space to have all the ABS_*/REL_* range.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7d3d4ae55dd6ee338439e2424ac423b1df80501b
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 20 14:43:41 2013 -0500

damage: Must translate initial window damage by window offset
Damage is reported relative to the drawable origin, but the window borderClip is absolute. Translate the region by the window position before reporting damage to adjust.

Reported-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8010d3a48bd0b224dcb0883e39c2351ad364d846
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 15 08:10:33 2013 -0700

XQuartz: pbproxy: Fix build with -DDEBUG

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 39c548da0cf0522ad246630605b96751ab6d39c0
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sun Sep 15 08:07:44 2013 -0700

XQuartz: Fix build with moved pseudoramiX

Regression from: e716baedc4d8e52a60f43ef21aba771b340d8c8b

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 6ee4d4f994ae2cc27c39381d7554134d9b4807a65
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 9 11:19:11 2013 -0400

glx: Fill in some missing attributes from DoGetFBConfigs

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b257fabff00ae925bb7e70364dd1d738634087c9
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 4 10:31:40 2013 -0400

glx: Remove a dead comment

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit abd086502123086ece3d1fba25c159bb022d2750f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 8 17:01:13 2013 -0400
glx: Catch another failure case in drawable creation

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c3c976f54c3c282d6fa6c8360688e036bc43d210
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 8 12:28:56 2013 -0400

glx: Remove screen number from __GLXconfig

Not used. There's no real reason to match against this instead of
matching against fbconfig or visual ID anyway.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1d1484e9bd55d1fa8316b1574754f28d5d31a076
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 8 12:09:13 2013 -0400

glx: Remove pixmapMode from __GLXconfig

This has never been filled in with anything meaningful afaict, and you
can't get to it from the client in any event.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 34e6e60105796ad015469c10921c5f09ac7eb0
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 2 12:33:36 2013 -0400

glx: Remove support for NV_vertex_program and NV_fragment_program

Mesa doesn't implement these anymore, never really did outside of swrast
anyway.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit acf14c1de766c4ea206cd7ce7f25b780a589d33c
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jul 2 10:35:19 2013 -0400

glx: realloc style fix in RenderLarge
glx: Eliminate a small malloc from QueryContext

No reason to have that be a failure path.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9ebf739a6864c9ec38bf72f63ef2e3b9cd1951db
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 2 10:30:40 2013 -0400

    glx: Handle failure to create the pixmap backing the pbuffer

    We happen not to sanitize the width/height we pass to CreatePixmap here, oops. It's not exploitable, but it's certainly a crash, so let's just throw BadAlloc instead.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b99f7975407f111b99d772cd28224d7dc1b34fe4
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 18:05:27 2012 -0500

    glx: Implement GLX_PRESERVED_CONTENTS drawable attribute

    We back pixmaps with pbuffers so they're never actually clobbered. Say so when asked.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 22fbfdcb31f335c22053a0e29f0e73c03cd70a76
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 17:52:12 2012 -0500

    glx: Implement GLX_FBCONFIG_ID in GetDrawableAttributes

    Required by GLX 1.4, section 3.3.6, "Querying Attributes".

Reviewed-by: Eric Anholt <eric@anholt.net>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  34090

Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 0d76191baee005982754ac18ca995742e32d8c1
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 17:10:57 2012 -0500

  glx: Implement GLX_{WIDTH,HEIGHT} in GetDrawableAttributes

  Required by GLX 1.4, section 3.3.6, "Querying Attributes".

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d11f13e383dda1e9cabe32793d261d46edc44418
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 17:07:20 2012 -0500

  glx: Compute number of attributes in GetDrawableAttributes on the fly

  This doesn't have any effect yet, but is needed to properly build the
  reply for pbuffers.

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 468b57324f838144d79e3a9d85a0bde853578c4b
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 16:48:16 2012 -0500

  glx: Style fixes

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2b181ad0952851f47f3dcb1a36471685313c13e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 9 16:33:54 2012 -0500

  glx: Pull GLX vendor string out of __GLXscreen

  Given how we're currently implementing GLX this can't meaningfully vary
  per-screen.

  Reviewed-by: Eric Anholt <eric@anholt.net>
  Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b9c489cf13e1ada35b7d9bea9de8d85e929374d17
Author: Adam Jackson <ajax@redhat.com>
glx: Remove unused bits from the context struct

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glxproxy: Don't track GLClientmajorVersion

Basically just a port of 62f06b0d to glxproxy.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

dmx/glx: Remove unused __glXNop

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

damageext: Style fix

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

damage: Remove "post-rendering" hooks

This is a revert of 974db58f5b730c3770ee461665a02dd4334d1dea. There are no consumers of this API, we must not need it.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
damage: Don't rewrite Text ops to GlyphBlt ops

There's no particularly good reason to, and it breaks Xnest.

Bugzilla: http://bugs.freedesktop.org/2454
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

damage: Simplify DamageUnregister

You can only register one drawable on a given damage, so there's no reason to require the caller to specify the drawable, the damage is enough. The implementation would do something fairly horrible if you _did_ pass mismatched drawable and damage, so let's avoid the problem entirely.

v2: Simplify xf86RotateDestroy even more [anholt]

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

damage: Implicitly unregister on destroy

There's no reason not to, and it simplifies quite a few callers.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

damage: Implicitly unregister on destroy

There's no reason not to, and it simplifies quite a few callers.
fb: Remove unused compatibility wrappers

Originally added in early 2009, not being used elsewhere anymore.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

mipointer: Remove deprecated miPointerCurrentScreen

The only remaining use was in some debugging code in DMX.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

xfree86: Remove deprecated unimplemented xf86MapReadSideEffects

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

dix: FIXES is not optional

It's already not optional at configure time, this just makes it so at build time too.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

vbe: Don't try to load the ddc submodule

DDC is built into the server now.
misprite: Delete some dead private storage

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit bb82191bca8042f8d98ec8b1c6616dc31d2c5c8
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 18 14:24:18 2012 -0400

dri2: Don't bother with xf86LoaderCheckSymbol("DRI2Connect")

The DRI2 code is now built-in to the server, even for Xorg. The only thing this could protect against is trying to run a libglx built with DRI2 support against an Xorg built without it, which is firmly in "doctor it hurts when I do this" territory.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3639ab4ce25dc82a3f8592b7322198f1d2aca5f9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:25 2012 -0400

list: Avoid using X types

In particular, Bool. This is not an ABI break:

/usr/include/X11/Xdefs.h:typedef int Bool;

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dbe10ef0e35659ee0e5db73f29670a3894a3e3f5
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:22 2012 -0400

dbe: Fold the window private private into the window private

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1489637d567b0034a916f88079b5f360e7fce99c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:21 2012 -0400

dbe: Fold midbe reset into dix

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 44d770750069486a8452f2384f9b85745268e61
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:20 2012 -0400

dbe: Drop the unused idiom support

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8cce0cf4d378f6fa52b2cd277737b8986ab683c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:19 2012 -0400

damage: Remove the 'damage window' resource type.

Note that the existing code never actually creates a resource of this
type, so it can't possibly do anything. This is clearly meant to track
window destruction and clean up any associated Damages, but that's
already handled by miext/damage's DestroyWindow wrapper.

Previous discussion:

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e674815e0a217ac01ec2d6a8517f8466b27fb39f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 16 14:56:18 2012 -0400

dmx: Remove ShadowFB support

This has been listed as deprecated ever since DMX was merged.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 19d3a7cb5db3188210830efa746987ba50d839e9
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 16 14:56:17 2012 -0400

dix: Remove a dead parameter from_DoGetImage

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4dca026880da90c9f9734cf5787c5b57c02e7310
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 16 14:56:16 2012 -0400

mipointer: Remove EnqueueEvent from miPointerScreenFuncRec

No DDX overrode this, and we never actually called through that slot anyway.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ad076dc6e82019defa422500710b3b426309e39
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 16 14:56:15 2012 -0400

mipointer: Flatten calls to mieqSwitchScreen

No DDX was overriding this.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e2b14a1d3bb27e86ff1d7aaf59af850d06263ef5
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 16 14:56:14 2012 -0400

os: Factor out some common code in input buffer handling

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 65fca558848aec907483d3c85c7cd4db5560f1b4
Author: Radek Doulik <rodo@novell.com>
Date: Tue Aug 13 08:45:47 2013 +0200

xnest: Ignore GetImage() error in xnestGetImage()

When an Xnest instance is not viewable it will crash when a client in
that instance calls GetImage. This is because the Xnest server will itself receives a BadMatch error.

This patch ignores the error. The application which has requested the image will receive garbage - this however is fully legal according to the specs as obscured areas will always contain garbage if there isn't some sort of backing store as discussed in https://bugs.freedesktop.org/show_bug.cgi?id=9488

The applied patch is a version from Dadek Doulik.

v2: Call XSync() before changing error handlers as suggested by Daniel Stone <daniel@fooishbar.org>.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Egbert Eich <eich@freedesktop.org>

commit b902c8abb6d03e68c93e13881a350523b5ac900c
Author: Michal Srb <msrb@novell.com>
Date:   Tue Aug 6 16:56:53 2013 +0200

Xnest: Implement xnestModifyPixmapHeader

Xnest variant of ModifyPixmapHeader that creates newPixmap in parent X server if it's size is modified from 0x0 to anything bigger.

xnestCreatePixmap doesn't create pixmap in parent X server if it has dimensions 0x0. If it is later resized and accessed, Xnest will be aborted with BadDrawable error from parent X server because it will use XID 0. This happens with ScratchPixmap, for example as used from XaceCensorImage. Applications using XACE crash Xnest.

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 132507eba93e4dfd466d5c30c9b818cde6f8536e
Author: Peter Harris <pharris@opentext.com>
Date:   Mon Jul 15 19:44:45 2013 -0400

security: Don't count RetainPermanent clients twice

If a RetainPermanent client is subsequently killed by a KillClient request, the reference count is decremented twice. This can cause the server to prematurely kill other clients using the same Authorization.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit 20c2a3bcb1b5ba564e2e73a477ba23f5ae2b10
Author: Peter Harris <pharris@opentext.com>
Date:   Mon Jul 15 19:44:29 2013 -0400
mi: Avoid stack smash when drawing dashed lines

X.org Bug 54013 <https://bugs.freedesktop.org/show_bug.cgi?id=54013>

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Harris <pharris@opentext.com>

commit 9bf46610a9d20962854016032de4567974e87957
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Jun 21 22:58:31 2013 +0100

os: Immediately queue initial WriteToClient

If we immediately put the WriteToClient() buffer into the socket's write
queue, not only do we benefit from sending the response back to client
earlier, but we also avoid the overhead of copying the data into our own
staging buffer and causing extra work in the next select(). The write is
effectively free as typically we may only send one reply per client per
select() call, so the cost of the FlushClient() is the same.

shmget10:   26400 -> 110000
getimage10: 25000 -> 108000

shmget500:   3160 -> 13500
getimage500: 1000 -> 1010

The knock-on effect is that on a mostly idle composited desktop, the CPU
overhead is dominated by the memmove in WriteToClient, which is in turn
eliminated by this patch.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>

commit cefb34774d44ada83cc1994d20c8d65b46bd555
Author: Laurent Carlier <lordheavym@gmail.com>
Date:   Sat Jun 8 00:43:56 2013 +0200

ephyr: restore GLX support

It was removed since version 1.13

Signed-off-by: Sebastien Bacher <seb128@ubuntu.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit f37972f4a67b49ba9649310a6778bd1bf31e0130
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 24 14:58:27 2013 -0700
miext/sync: Fix multi-screen support in SyncFence initialization

miSyncSetup was checking to see if the screen private key had been registered, and if so, skipping the setup of the provided screen.

Instead, it should register the private index only once, but then initialize the screen unless it has already been initialized. This latter step allows drivers to initialize the sync private structures before the Sync extension itself is initialized.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1c8beedfe434377fa3504f8ab71430cc137b22c
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 21 14:12:52 2013 -0400

randr: Fix a copypasta bug in CRTC confinement

Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47ff382d1f1fe25a8b097d45b79489e89f1f1228
Merge: 6f89ae3e64 3752a81580
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 9 15:13:42 2013 -0700

    Merge remote-tracking branch 'jturney/master'

commit 6f89ae3e64c4dfeea508813e546c10ba1da3ea8e
Author: Thomas Klausner <wiz@NetBSD.org>
Date:   Wed Sep 4 20:06:07 2013 +0200

    Fix typo in configure warning.

Signed-off-by: Thomas Klausner <wiz@NetBSD.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 47218a6e09549781fd61dbf5e0d3d5c81da64323
Author: Thomas Klausner <wiz@NetBSD.org>
Date:   Wed Sep 4 20:05:51 2013 +0200

    Fix bug in cursor handling.

CreateCursor (Xlib call XCreatePixmapCursor) with a non-bitmap source pixmap and a None mask is supposed to error out with BadMatch,
but didn't.

From der Mouse <mouse@Rodents-Montreal.ORG>, changed following comments by Alan Coopersmith <alan.coopersmith@oracle.com>.

Signed-off-by: Thomas Klausner <wiz@NetBSD.org>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1110b71e360195aab040d835b54540ab558638c5
Author: Chris Clayton <chris2553@googlemail.com>
Date: Wed Sep 4 15:42:04 2013 +1000

kdrive: fix build error on gcc 4.8 for out-of-bounds array access

I'm getting an error building xorg-server-1.14.1.902 with the latest snapshot of gcc-4.8:

input.c:225:43: error: array subscript is above array bounds
[-Werror=array-bounds]

This is because kdNumInputFds can become equal to KD_MAX_INPUT_FDS in KdRegisterFd(). This means that in KdUnregisterFd(), kdInputFds[j + 1] can be beyond the end of the array.

Signed-off-by: Chris Clayton <chris2553@googlemail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit abc2bfca16adcd1e5657d4ce54f4e1335d5ed53f
Author: Sebastien Bacher <seb128@ubuntu.com>
Date: Fri Aug 23 21:21:44 2013 +0200

kdrive: initialize GLX for xephyr

Like commit ac1a60e7b6f06fd075cc5bf55d6bc67206a01d29, re-add initialization of GLX after it was accidentally dropped from non-Xorg servers in 5f5bbee543f65c48ecbb5cee80116a86ca3fbe86.

Signed-off-by: Sebastien Bacher <seb128@ubuntu.com>
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=62346
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit aa5534ec6931ffcc81cca76b98785d57de8e0e52
Author: Eric Anholt <eric@anholt.net>
ephyr: Do grab/ungrab for ctrl+shift, not just shift+ctrl.

Given that the window title says "ctrl+shift", having pressing those keys in that order not ungrab you is fairly mean.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5cc15e1c427bacd73db7381df3474a23f7616624
Author: Eric Anholt <eric@anholt.net>
Date:  Fri Aug 23 11:19:17 2013 -0700

ephyr: Flush the X connection when updating the window title.

Otherwise when you're doing the ctrl-shift mouse grab thing, you don't know what state you're in until the next rendering occurs.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit ba387cf21f7d95987211f75d8024601e7d64e322
Author: Eric Anholt <eric@anholt.net>
Date:  Fri Aug 23 11:17:14 2013 -0700

ephyr: Use host (HW) cursors by default.

Unless you're working on the sw cursor rendering code, you surely want to have real hardware cursors.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 0f5a2f13dc284dd5f0f28e2c4323b2e08d253a7d
Author: Eric Anholt <eric@anholt.net>
Date:  Fri Aug 23 11:04:22 2013 -0700

ephyr: Garbage collect some DOA host window clipping code.

Introduced in 79782726617d4b5a4f9b376f21936d035fc870e1 but never used.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
commit 090de17d361de9828203a2562565d6499998db46
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 23 10:56:22 2013 -0700

ephyr: Garbage collect some dead XV clipping code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 347d0fa6961c2b3dc4efd4e7cca8ef98cd3ea06e
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 23 10:44:23 2013 -0700

ephyr: Remove the helper libs for each of the optional components.

Note that EXTRA_DIST was always unnecessary, because automake notices conditional compile of source files and includes them.

Copyright header is added because git noted that this was a 61% rewrite.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 74dff87790dbb3dcb23634f1e8cd54018e5dde9d
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 23 10:40:52 2013 -0700

ephyr: Remove the remaining bits of host/server XV split.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 2f994dfe9d1add9ea8cb9c88d0d15843854788
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 23 10:14:36 2013 -0700

ephyr: Remove the host/server split of the actual XV video operations.

I suspect there's more cleanup possible in ephyrHostXVPutImage() by sticking a bunch of the args in the port priv earlier.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 0b7ce74315213ccd31802847e5a83e67090ded14
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 23 10:01:23 2013 -0700
ephyr: Remove another host/server split for XV image formats.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 1dcc28bcb402d7286d18b41b469062a5c176d7eb
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 22 17:00:41 2013 -0700

ephyr: Remove the host/server split for video encodings.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 28a37757e11068b4594f4128a0d64c6bc9a53ee0
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 22 17:26:21 2013 -0700

ephyr: Remove the host/server split for XV formats.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 41134d393a37dd5b971b018a3888fbfa0b9c736
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 22 17:21:37 2013 -0700

ephyr: Remove the host/server split for XV attributes.

v2: Fix leaks of xcb replies (caught by Julien)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 1342a93c49beb6e492453436d577b587ad0f
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 22 17:26:08 2013 -0700

ephyr: Remove the host/server split for XV adaptors.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit fad79d2e3e53de4f25b3d1dd7accc558464a4a46
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 20:08:32 2013 +0200
ephyr: Refactor XV adaptor feature detection.

This obviously wanted a helper function beforehand, but even more so now that we have XCB.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 7a9c311ad62026972419ef0b04a55680072bfeb
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 20:02:53 2013 +0200

ephyr: Remove some pointless indirection in the XV code.

Now that we have XCB on the server side, we don't need to split these functions out.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 46cf6bf5692ef751ec9d17ae2292565d4b13f14b
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 18:38:29 2013 +0200

ephyr: Move event processing into ephyr.c.

No more extra event structure to translate between hostx.c and ephyr.c!

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 847c856e4d482c13cdefcda8176ce3bf67c4
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 17:28:08 2013 +0200

ephyr: Move the host screen info into the kdrive screen private.

We can include xcb bits from the same place as server headers, so there's no need to hide them any more.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 8dadca78e233f341f1ecb8d404de03d98ab210620
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 16:45:06 2013 +0200
ephyr: Rename and use the proper type for what was host_screen->info.

Now that we can include server headers in talking to host X, we don't need to hide any more.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 18d836f6d6de46bcaec8b794d34f76032688c28851
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 14:12:45 2013 +0200

ephyr: Expose a single function for detecting extensions.

v2: Fix trying to include xcb-dri in the non-dri-build case (Noted by Julien)

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 3aacb22d6473480c31fb08f0b2527747dbf5be57
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Aug 18 14:01:53 2013 +0200

ephyr: Drop dead ephyrHostAtomToLocal code.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 4aaad0bfbce0f018eb36839b1d034c3f60022694a
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Oct 20 20:10:43 2010 +0200

Xephyr: we're not using Xlib anymore, no need to undef _XSERVER64

Drop obsolete comments about interaction between Xlib code and that macro, and stop undefining it.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 0fc2f9f04a44599f598380d4df992bec60c0e3a1
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Sep 25 16:05:07 2010 +0200

Xephyr: handle errors in event loop

Signed-off-by: Julien Cristau <jcristau@debian.org>
reviewed-by: Eric Anholt <eric@anholt.net>
reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 3309a73c826f02e4b2e14180a3254546314ec323
author: Julien Cristau <jcristau@debian.org>
date: Fri Jun 25 14:20:57 2010 +0100

xephyr: drop remaining Xlib dependency

reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
reviewed-by: Eric Anholt <eric@anholt.net>
signed-off-by: Julien Cristau <jcristau@debian.org>

commit 7da2174cf93f59b7e0372a6dec9d37a510076e187
author: Julien Cristau <jcristau@debian.org>
date: Mon Jun 21 14:39:03 2010 +0100

xephyr: move glx code to xcb

v2: Rebase on master, notably adding XCB for
    X_GLXvop_MakeCurrentReadSGI (anholt).
v3: Fix use-after-free (caught by Julien).

reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
signed-off-by: Julien Cristau <jcristau@debian.org>
signed-off-by: Eric Anholt <eric@anholt.net>

commit 19c2699b954e2978301c4449dfcccc7ca40b6ae6
author: Julien Cristau <jcristau@debian.org>
date: Wed Jun 23 18:36:00 2010 +0100

xephyr: remove unused DRI1 code

reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
signed-off-by: Julien Cristau <jcristau@debian.org>

commit 68b7db19e8d3c1ac55a811327d3058f4c8fb45ec
author: Julien Cristau <jcristau@debian.org>
date: Sun Jun 20 00:07:08 2010 +0100

xephyr: move ephyrdri over to xcb

require new xcb-xf86dri to get fixed GetDrawableInfo.

reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
signed-off-by: Julien Cristau <jcristau@debian.org>

commit aea119cd05807ed77336f96a40f8e4607c6ce169
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jun 20 11:13:26 2010 +0100

Xephyr: use xcb-xv instead of libXv

v2: Massive, conflict-filled rebase. I think I resolved everything right, but this host xv code makes my eyes bleed. Touch-tested XV after the rebase (anholt).

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 3ea75a59d5fec34099388724942e216f2344328
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Jun 21 17:20:32 2010 +0100

Xephyr: use xcb for event handling

v2: Rebase on indentation changes, squash in a simpler variant of the later event compression patch, fix server hang or segfault on window close by reimplementing the x__io_error_handler in the new XCB event loop (anholt).

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit ff26845252889f7cc3258a0d3aa116189acc6a8
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jun 24 23:45:16 2010 +0100

Xephyr: some more hostx.c xcb-ification

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 9b55f76a265aab0d9943a40208a38800e5782ba5
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jun 24 23:35:15 2010 +0100

Xephyr: move HostX.visual to xcb

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Julien Cristau <jcristau@debian.org>
commit 126312fb4a6e06024a306341e675163108426390
Author: Julien Cristau <jcristau@debian.org>
Date: Thu Jun 24 23:26:48 2010 +0100

    Xephyr: replace XKeycodeToKeysym with xcb-keysyms

    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
    Reviewed-by: Eric Anholt <eric@anholt.net>
    Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 8543d3fd47d2a0423f3ef8e7429c23c5d6b053
Author: Julien Cristau <jcristau@debian.org>
Date: Thu Jun 24 23:17:32 2010 +0100

    Xephyr: delete unused hostx_get_extension_info function

    v2: Also remove the prototype (anholt)

    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
    Signed-off-by: Julien Cristau <jcristau@debian.org>
    Signed-off-by: Eric Anholt <eric@anholt.net>

commit d72c11b9df4a98fd80cb6635d34964483e33bc41
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Jun 21 14:25:11 2010 +0100

    Xephyr: delete unused proxy code

    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
    Reviewed-by: Eric Anholt <eric@anholt.net>
    Signed-off-by: Julien Cristau <jcristau@debian.org>

commit a71ea3f96769da157dde82a591e43264820772ac
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jun 20 23:34:54 2010 +0100

    Xephyr: xcb-ify visual list construction

    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
    Reviewed-by: Eric Anholt <eric@anholt.net>
    Signed-off-by: Julien Cristau <jcristau@debian.org>

commit ac2b0348e00d692ec1bd8d6c8ab99e9198e755a7
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jun 20 23:34:39 2010 +0100

    Xephyr: xcb-ify pointer/keyboard grab
Xephyr: no need for XDisplayKeycodes

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 1f93e6b350d1b9a058009052a666a2e8796708cb
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jun 20 23:34:03 2010 +0100

Xephyr: use xcb-shape instead of XShape*

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit a2b73da78de4e627965213d24a6c33f243a60eb6
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jun 20 00:05:40 2010 +0100

Xephyr: start converting hostx.c over to xcb

v2: Dropped the hostx_load_keymap changes, now that that function is gutted (anholt).

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 762606b4cdfb57c5202ae128ce4dbb8afe172d4e
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Jun 25 17:59:13 2010 +0100

Xephyr: stop loading the host's keymap

This isn't used anywhere.

v2: Rebase to the top of the patch series (anholt)

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net> (v1)
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Eric Anholt <eric@anholt.net>

commit 3752a815800626ae93f64a856f5889aa6636344e
Author: Marc Haesen <marha@users.sourceforge.net>
Date: Sat Aug 10 17:38:38 2013 +0100

 hw/xwin: Remove unnecessary and incorrect HWND casts

 Signed-off-by: Marc Haesen <marha@users.sourceforge.net>
 Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 34932ce6cc800fbdf2f375506057ed8cd1e07f6
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Apr 1 13:43:00 2013 +0100

 hw/xwin: Fix compilation of winauth.c with -Werror=implicit-function-declaration

 /jhbuild/checkout/xorg/xserver/hw/xwin/winauth.c: In function 'MitGenerateCookie':
 /jhbuild/checkout/xorg/xserver/hw/xwin/winauth.c:87:5: error: implicit declaration of function 'MitAddCookie' [-Werror=implicit-function-declaration]

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
 Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit 2a08554a0bf80b862c15676c31ecd463b616518c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 23:54:01 2013 +0100

 hw/xwin: Remove unused extern g_fUseUnicode from winclipboardwndproc.c

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
 Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit 69401f38a697c941ea58351028f4cd4b810f9188
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 18:37:26 2013 +0100

 hw/xwin: Remove unneeded forward declaration of winProcessXEventsTimeout()

 Remove unneeded forward declaration of winProcessXEventsTimeout(), the actual
definition immediately follows.

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit 9c45a1ad44f12ac25e1c3b7a18a3bceb85a2cf38
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 16:58:47 2013 +0100

hw/xwin: Remove prototype for non-existent winDeinitClipboard()

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit acc46fc217352b94f77a6b5b14808ea89875a2a1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 17 00:40:13 2013 +0100

hw/xwin: Remove unused externs from winclipboardwrappers.c

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit fcc7767f8cd6c318861b1060ef6a3936750a0dd2
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jun 10 17:31:12 2013 +0100

hw/xwin: Remove unused winProcQueryTreeOrig variable

Unused since 47c7b6d3e626497747ae2780f259a15b8e6c846f "Remove no-longer needed tricks used to prevent the clipboard client from being killed"

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit 8fa882a980abea6f05b4b59447a187eea2c793a1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Aug 10 12:41:07 2013 +0100

hw/xwin: Fix ARGB cursor conversion on x86_64

Fix erroneous use of unsigned long * for lpBits in winXCursorToHCURSOR() which leads to ARGB cursors being vertically streched on x86_64 by interleaving blank rows of pixels.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>
Commit: 4bfb2dce5eea4923eaf86eca33b96087b28235f5
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sun Apr 7 23:59:44 2013 +0100

hw/xwin: Fix an issue in winSetSpansNativeGDI() identified by -Warray-bounds

The BITMAPINFO local only has room for a single RBGQUAD in bmiColors, but we
access two (black and white for a mono-color DIB). Fix by changing to a dynamic
allocation big enough for a BITMAPINFO and a RGBQUAD.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

Commit: 784c006adb22c6693ad30dd0b1b05369cfaa7b5e
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sat Aug 10 11:55:23 2013 +0100

hw/xwin: Fix -Warray-bounds warning in winXCursorToHCURSOR()

Rewrite winXCursorToHCURSOR() so access to BITMAPINFO bmiColors member doesn't
trigger an -Warray-bounds warning.

Note that the underlying storage is allocated as a BITMAPV4HEADER, so has
sufficient room for the extra RGBQUADs bmiColors after the BITMAPINFO bmiHeader.

wincursor.c: In function 'winSetCursor':
wincursor.c:293:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:294:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:295:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:296:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:297:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:298:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:299:24: error: array subscript is above array bounds [-Werror=array-bounds]
wincursor.c:300:24: error: array subscript is above array bounds [-Werror=array-bounds]

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

Commit: 41d03e9ccce665b919b180bbb819b78c750aa325
Author: Marc Haesen <marha@users.sourceforge.net>
Date: Fri Aug 2 18:19:22 2013 +0100

hw/xwin: Correct size of _WINDOWSWM_NATIVE_HWND property on x86_64

Use the correct size of a HWND on x86_64 in XChangeProperty() and
XGetWindowProperty() calls for the _WINDOWSWM_NATIVE_HWND property.

Signed-off-by: Marc Haesen <marha@users.sourceforge.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 390cfec10ef7d52391f890c7593ac82a7d77d856
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Aug 9 16:48:12 2013 +0100

hw/xwin: Correct winprefs.c function signatures for x64.

Correct SetupRootMenu(), SetupSysMenu(), HandleCustomWM_INITMENU() and
HandleCustomWM_COMMAND() function signatures which use unsigned long parameters,
where just a specific HWND or HMENU handle type should have been used.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit e716baedc4d8e52a60f43ef21aba771b340d8c8b
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sat Mar 31 14:42:45 2012 +0100

Move pseudoramiX code where it can be shared between Xwin and Xquartz

Move pseudoramiX code to a separate top-level directory. Link Xwin and Xquartz
with libPseudoramiX

I'm not sure moving this to a top-level directory is appropriate, but I'm not
sure where else it fits.

Future work: pseudoramiX can probably be consolidated with the rrxinerama code
(which I think provides fake xinerama data when real XINERAMA is disabled and we
only have one screen)

v2: fix distcheck

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commit ce0217b98261dcf8b20cfb743831965dda1950ec
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sat Aug 10 12:35:55 2013 +0100

hw/xwin: Fix winglobals.h for MinGW64 build
Include pthread.h in winglobals.h to fix build with latest MinGW64 headers

In file included from
winmultiwindowicons.c:47:0:
winglobals.h:92:1: error: unknown type name ‘pthread_mutex_t’

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commits b27756db6e6a1be4633ec47a8fe92a4c217f68f93
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Sun Aug 11 12:15:11 2013 +0100

hw/xwin: Fix inclusion of shlobj.h in MinGW64 build

Fix build with latest MinGW64 headers by wrapping Status type in shlobj.h as well

In file included from InitOutput.c:51:0:
/usr/i686-w64-mingw32/sys-root/mingw/include/shlobj.h:1231:44: error: expected identifier or '(' before 'int'
/usr/i686-w64-mingw32/sys-root/mingw/include/shlobj.h:1248:44: error: expected identifier or '(' before 'int'

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Marc Haesen <marha@users.sourceforge.net>

commits 94d4e29aede69431fa9b299ca1b67947173d7a24
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 26 15:51:46 2013 +1000

Xi: allow for XIAllowEvent requests larger than XI < 2.2 size (#68554)

XIAllowEvents changed length in XI 2.2 (for the touchid). A bug in libXi causes libXi to always use the new request length if the server supports 2.2, regardless of the client's XIQueryVersion request.

The server takes the client's XIQueryVersion request into account though, resulting in a BadLength error if a 2,[0,1] client calls XIAllowEvents on a XI 2.2+ server.

Can't fix this in libXi, so work around this in the server.

X.Org Bug 68554 <http://bugs.freedesktop.org/show_bug.cgi?id=68554>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commits 82939e02392cbb880313fe92957091ff89ce2f2b
dix: check for grab type before checking XI2 mask

if the grab type isn't XI2, grab->xi2mask is random. That random data may have the enter/leave mask set, leading to events sent to the client that the client can't handle.

Source of these errors:
_xgeWireToEvent: Unknown extension 131, this should never happen.

Simplest reproducer:
 Start Xephyr, press button inside window, move out. As the pointer leaves the Xephyr window, the errors appear.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Xi: replace loop with memset

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

include: wrap EMASKSIZE in parentheses

Otherwise things like EMASKSIZE * foo will yield interesting results.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

test: fix the gcc diagnostics pragma

pop without push restores the commandline options. The proper way is to push, then ignore, then pop.
And while we're at it, change the pop argument to a comment - pop ignores the argument, but be proper about it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 05ea6307fa4f0bee3d3bf536396059f3906791a0
Author: Egbert Eich <eich@freedesktop.org>
Date:   Fri Aug 16 19:52:16 2013 +0200

DIX/Xi: Pass correct client to CheckDeviceGrabAndHintWindow()

If we have a client which has registered for a DeviceButton grab be sure to pass this to CheckDeviceGrabAndHintWindow(). Since the order of clients is arbitrary there is no guarantee that the last client in the list is the one that belongs to this class.

Signed-off-by: Egbert Eich <eich@freedesktop.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e01a3f65d3e6d92f92ef2992b338cc9625bde082
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 14:50:37 2013 +0200

ephyr: Fix warning about XID vs unsigned long * by changing function args

There's no reason to pass the data back out to the caller, since the caller was dropping it on the floor. The original data is a CARD32, so no need to mess with weird unsigned longs.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 77c7a2014e3942b55e0b78308edf02eab33f2e60
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 14:36:09 2013 +0200

ephyr: Drop is_ok logging.

The only cases that lead to !is_ok are already EPHYR_LOG_ERROR, and it fixes set-but-unused compiler warnings.
kdrive: Fix const cast warnings in arguments processing.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 7107937e473a3557c37d719cb100b2e9b09075dd
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 13:11:17 2013 +0200

kdrive: Fix const cast warnings in driver name handling.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 56c405d46a86853771a0b808da4c8a9ef626960c
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 13:07:23 2013 +0200

kdrive: Fix a few easy cast warnings.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a9c48a07eea50468fa47ab178cdd91ed0b0b5727f
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 13:06:23 2013 +0200

kdrive: Drop dead code.

This is unused as of the introduction of a helper in e7150db5350bc2113ff4126019b489847a4dc217

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 873ae962bdb7559c952b5955ba262285701982a8
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 13:01:57 2013 +0200

ephyr: Fix dead code warning.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 34af2eebe19e2f8afe35a5614d4d44fa4fd89d6b
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 13:01:32 2013 +0200
ephyr: Fix const-cast warnings for setting window title.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 7edf5066db48434739ac64e0576fbb4fd0f37f9
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Aug 17 12:54:33 2013 +0200

ephyr: Fix const cast warnings in ephyrhostvideo.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit fe7463b8ce0de301c2f82b108c93963424f77219
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Jul 27 12:09:07 2013 +0200

dix: add missing include for DeleteWindowFromAnySelections

Fixes build error with XACE disabled:
window.c:886:5: error: implicit declaration of function 'DeleteWindowFromAnySelections' [-Werror=implicit-function-declaration]
   DeleteWindowFromAnySelections(pWin);
^

Debian bug#701372

Reported-by: Matthias Klose <doko@debian.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6a49f8836a649322d38a364d9ae084be40fb2305
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 17 12:17:36 2013 +0200

Add .dir-locals.el

Enforce X.org style with an emacs configuration file

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f67d022523c59a27f3bf8791aa9ca6624318b1fd
Merge: 5a36cdd915 9680f6a12d
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Aug 6 07:12:12 2013 +0200
Merge commit '9680f6a12d642c2e4bfa09bf459d678214059d74'

commit 5a36cdd91530d27627e39159a89b53f9fb75280
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Aug 5 20:46:45 2013 -0700

Allow disabling XFree86-DGA, DRI, VidModeExtension extensions

Code to recognize these in extension enable/disable options was wrapped
in #ifdef XorgLoader, but that's not defined when building minitext.c
since the great module merge of 1.13. Change to an #ifdef that is defined.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Robert Hooker <robert.hooker@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9680f6a12d642c2e4bfa09bf459d678214059d74
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 6 13:14:56 2013 +1000

  xfree86: de-duplicate some AM_CPPFLAGS

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit bbef8e46f2fed8f823ee4b97e96c3fcee2f3b75
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 6 13:08:13 2013 +1000

  Replace INCLUDES with AM_CPPFLAGS

  newer automake gets quite noisy about this.
  hw/xfree86/ddc/Makefile.am:7: warning:
  'INCLUDES' is the old name for 'AM_CPPFLAGS' (or '_CPPFLAGS')
  and many more of these.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit c218ba8423a73a7a643cb17789db8a1dd0901ca6
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Aug 2 20:07:36 2013 +0200

  xfree86: improve check for posix saved ids

  Replace hardcoded SVR4 || linux || CSRG_BASED with an autoconf check and
the _POSIX_SAVED_IDS macro.

Suggested-by: Mark Kettenis <mark.kettenis@xs4all.nl>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 930c6ff15d437dfb0f897e8cb4253abba70819cc
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Aug 2 23:46:00 2013 +0200

test: include dix-config.h in hashtabletest.c

Missing _XSERVER64 define caused inconsistent sizeof(XID) between the
test and hashtable code, leading to test failures on 64bit big endian
archs like s390x or ppc64.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b6e5c4669e0db391966deb397e8c975ec7f0124d
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Tue Jul 30 15:31:24 2013 +0200

test/xi2: fix protocol-xiqueryversion test

The old code was broken and allowed setting client version >= XIVersion,
this was fixed in the previous patch, but updating the value for XIVersion
broke the tests, so fix the tests too.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 500e844a24962c9e70abb3d614f1973013b2de73
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Tue Jul 30 14:45:21 2013 +0200

Xi: Clamp XIClient maximal version to XIVersion

Do not allow setting client version to an arbitrary value >= XIVersion.
Fixes a test error with test/xi2/protocol-xiqueryversion.c, introduced by
commit 4360514d1c "Xi: Allow clients to ask for 2.3 and then 2.2 without failing"

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
xfree86/man: document AutoAddGPU

This at least mentions AutoAddGPU and hints at when you might want to disable it.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 836daf4c7a276108a9f950e524828744aeda0a3c
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jul 31 11:24:48 2013 +1000

target naming: change output names for secondary GPUs

if we are a secondary GPU modify the output name to avoid clashes.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ff38bfe81ace85bf675bbaa0a9ca5f3b32ede449
Merge: bdd1e22cbdbd360514d1c
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 25 22:50:27 2013 -0700

  Merge remote-tracking branch 'whot/for-keith'

commit 4360514d1cc8e3132f93f56172d291074e8c770f
Author: Keith Packard <keithp@keithp.com>

  Xi: Allow clients to ask for 2.3 and then 2.2 without failing

  This allows different sub-systems within the same application to request different Xi versions without either getting old behaviour everywhere or simply failing with a BadValue.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bdd1e22cbdee9ea2324e4e1991c9e152f22f88151
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Apr 30 14:14:23 2013 -0700
xfree86: detach scanout pixmaps when detaching output GPUs

Commit 8f4640bdb9d3988148e09a08d27e3bab1d538d6 fixed a bit of a chicken-and-egg problem by detaching GPU screens when their providers are destroyed, which happens before CloseScreen is called. However, this created a new problem: the GPU screen tears down its RandR crtc objects during CloseScreen and if one of them is active, it tries to detach the scanout pixmap then. This crashes because RRCrtcDetachScanoutPixmap tries to get the master screen's screen pixmap, but crtc->pScreen->current_master is already NULL at that point.

It doesn't make sense for an unbound GPU screen to still be scanning out its former master screen's pixmap, so detach them first when the provider is destroyed.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3d8756631070c440cefa31b35fea3d407f187810
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 22 13:43:07 2013 +1000

dix: set the valuator mask to ensure XI 1.x events have data

XI 1.x only allows for first + num valuators, so if a device sends data for valuators 0 and 2+ only (i.e. valuator 1 is missing) we still need to get the data for that from somewhere.
XI 1.x uses the hack of an unset valuator mask to get the right coordinates, i.e. we set the value but don't set the mask for it so XI2 events have the right mask.

For an absolute device in relative mode, this broke in b28a1af55cf, the value was now always 0. This wasn't visible on the cursor, only in an XI 1.x client. The GIMP e.g. sees jumps to x/0 every few events.

Drop the condition introduced in b28a1af55cf, data in valuators is always absolute, regardless of the mode.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fb686d6a6f777950f0e0d55b848cd2af4cbad372
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 24 11:50:00 2013 +1000

dix: check the xi2mask, not the grab type for touch listeners
grab->type is only non-zero for passive grabs. We're checking an active grab here, so we need to check if the touch mask is set on the grab.

Test case: grab the device, then start two simultaneous touches. The grabbing client won't see the second touchpoints because grab->type is 0 and the second touch is not an emulating pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 43ac0491e36cdbb716b5c9d39e97d0aba3bebd75
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Mon Apr 8 01:28:36 2013 +0100

hw/xwin: Fix numerous 64-bit format/type cast issues with debug printing of pointers

Numerous pieces of debug output cast a pointer to an int and then use a "%08x" printf format.

Use "%p" format for 64-bit portability.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e95bb97073ca77193e4c51bd1504403fbe245533
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Tue Jun 25 21:34:43 2013 +0100

hw/xwin: Fix possible crash in winMultiWindowGetClassHint

Fix a possible crash in winMultiWindowGetClassHint() when an application doesn't null terminate the WM_CLASS property class name (which is an ICCCM conformance bug in the application)

(Reported for running the contiki cooja simulator in multiwindow mode, although it seems that many Java clients may have this problem, see [1])

Based on a patch by Marc Haesen.

v2: Avoid using strnlen() which is missing on MinGW
v3: Align with Xming patch


Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
commit 4bc375aa2f08bd092f60d3e358d345fc9a0d3637
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Jun 18 19:21:02 2013 +0100

hw/xwin: Remove obsolete WIN_XEVENTS_SHUTDOWN

Remove obsolete WIN_XEVENTS_SHUTDOWN. This event is never generated.

(I think the idea was to listen for WM_DELETE_WINDOW, but that's not a very useful thing to do for a hidden window.)

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 2663203cd6994166e107e796c4724a4ed3b59370
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Jun 18 18:03:05 2013 +0100

configure.ac: Check for python at configure time when building XWin with AIGLX

Check for python at configure time when building XWin with AIGLX, it's used to generate the wrapper code for native GL functions.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9fe360bf2be5c959fb21835955ef550098ccbf0
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Sun Jun 16 00:07:57 2013 +0100

hw/xwin: Avoid a null dereference if CreateDIBSection() fails in NetWMToWinIconAlpha()

Avoid a null dereference of DIB_pixels if CreateDIBSection() fails in NetWMToWinIconAlpha()

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 71b5f56302bbd8be62f63f0dd62cbcd33aab3ac5
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Feb 21 17:12:17 2013 +0000

hw/xwin: Handle WM_MOUSEHWHEEL

Handle WM_MOUSEHWHEEL tilt wheel messages, similarly to WM_MOUSEWHEEL scroll wheel messages, to generate X button 6 and 7 presses and releases.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cf9c777ee094d660e0c95559373fd23ee910362e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:  Thu Feb 21 17:10:45 2013 +0000

hw/xwin: Map extra mouse buttons 1 and 2 to X buttons 8 and 9

Map extra mouse buttons 1 and 2 to X buttons 8 and 9, as conventional, leaving X buttons 6 and 7 for tilt wheel.

Also add button labels for buttons 6, 7, 8 and 9 and change btn_labels in from a dynamic allocation to a fixed one of the required size for all the labels we use.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c9d7b9516f4a04cb9012c6c1e9466491a468aa07
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:  Tue Feb 19 14:38:40 2013 +0000

hw/xwin: Remove unneeded WM_XBUTTON message defines

Remove unneeded WM_XBUTTON message defines, they have been provided by w32api for a long time now.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5dccfc63f9c7056e7cd30884e1d3cea86a2f419
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:  Mon Dec 17 22:38:00 2012 +0000

hw/xwin: Change winTranslateKey() to return it's result as it's return value

Change winTranslateKey() to return it's result as it's return value, and change it's uses as well.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9b4cec76f1d7792d4bf64fa069ea6b64bc42da0d
Author: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Date:  Mon Nov 5 15:05:32 2012 +0000

hw/xwin: Consider left and right modifier keys independently on gaining focus
Handle left and right ctrl and shift keys independently

Assume that all modifiers are cleared when all keys are released on focus lost, as internalKeyState doesn't record which modifier key was pressed.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 235149d0b4af9097e47b3af0ba56d4eb0179518c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Apr 5 14:22:39 2010 +0100

hw/xwin: Remove an extra \n' from some log messages

Remove an extra \n' from internal client IOError log messages

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c799f7578e721b0c9e565e7a085b6aeb30bf2ac
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Feb 4 17:04:11 2012 +0000

hw/xwin: _NET_WM_STATE is ATOM[] not ATOM

_NET_WM_STATE is ATOM[] not ATOM, a list of window state hints, so check all of
the atoms, not just the first one

See EWMH specification, section "Application Window Properties"

v2: Actually use [] on the returned atom data

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 682ccac90b18f293520f77db5b163fcb40328e2b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Aug 31 21:35:14 2011 +0100

hw/xwin: Improve WM_ENDSESSION handling using separate messaging window thread

Currently, WM_ENDSESSION just calls GiveUp() to set the DE_TERMİNATE flag. But
for the X server to exit cleanly, we also need the X server dispatch loop to be
unblocked so it can notice that DE_TERMİNATE has been set and exit, removing
it's lock file and any unix domain socket.

It appears that the system will terminate the process when the last UI thread in
that process returns from processing WM_ENDSESSION for the last top-level
window.

Since WM_ENDSESSION appears to be sent by the system via SendMessage() (synchronously) and the wndproc is called to process it in the message thread for that window (the X server thread), we can't easily terminate the X server dispatch loop from inside the WM_ENDSESSION message processing.

So, create a messaging window, a hidden, top-level window, with a separate thread to catch this message, and process it by calling GiveUp() and then blocking on a mutex until the X server dispatch loop exits.

Also, notice when this is a shutdown cancel WM_ENDSESSION message and take no action.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 15febb05d77cc7e7185c942f35459838f75cfdc0
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Mon Sep 3 15:19:43 2012 +0100

Allow DDX to provide a main()

XQuartz already conditionally renames main() as dix_main() so it can provide it's own main(). This isn't the ideal way of doing this, as it prevents libdix built this way from being useful with any other DDX.

So instead, always name that function dix_main(), and also provide a stub main() which just calls dix_main(), which can be overriden in the DDX.

Add a main() to XWin (XQuartz already has one, of course).

It's no longer neccessary to link XWin and XQuartz with libmain.

v2: Remove unneeded stub main hw/xwin/InitOutput.c

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d5ebe20f9ba9569351c4a4144986679fd60ba45
Merge: 21ea7ebb6a33f7e60785
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 22 20:34:41 2013 -0700

Merge remote-tracking branch 'alanc/master'

Commit 21ea7ebb6a1ad56f3060747af0df235ca6ff27fa
dix: scale y back instead of x up when pre-scaling coordinates

The peculiar way we handle coordinates results in relative coordinates on absolute devices being added to the last value, then that value is mapped to the screen (taking the device dimensions into account). From that mapped value we get the final coordinates, both screen and device coordinates.

To avoid uneven scaling on relative coordinates, they are pre-scaled by screen ratio:resolution:device ratio factor before being mapped. This ensures that a circle drawn on the device is a circle on the screen.

Previously, we used the ratio to scale x up. Synaptics already does its own scaling based on the resolution and that is done by scaling y down by the ratio. So we can remove the code from the driver and get approximately the same behaviour here.

Minor ABI bump, so we can remove this from synaptics.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Emmanuel Benisty <benisty.e@gmail.com>

commit 33f7e60785f12770ce10558c2ca7ce1323eefc59
Author: Thomas Klausner <wiz@NetBSD.org>
Date:   Fri Jul 12 08:21:19 2013 +0200

Fix typo in header guard.

Signed-off-by: Thomas Klausner <wiz@NetBSD.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit ddc52b9cbae017f04c7a232af4e8b16c9f96823d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Jul 5 22:43:17 2013 -0700

Xephyr: Use _XEatDataWords (from Xlib 1.6) instead of _XEatData

Simplifies code and reduces risk of overflow from converting length field in X replies from words to bytes.

One call to _XEatData is left in ephyrHostGLXGetStringFromServer where it's already been checked for overflow, and other values have been subtracted from it to reduce the size of data remaining to be eaten.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit a3d43ed7f1847f4b486f971405d2b457f81b73d1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Jul 5 22:35:32 2013 -0700

glxproxy: Use _XEatDataWords (from Xlib 1.6) instead of _XEatData

Reduces risk of overflow from converting length field in X replies from words to bytes. (Also seems to be what several calls were already incorrectly passing to _XEatData.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 87b0cabc145a9b5f6faffdfb544ce1c647b8ab72
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Jul 5 22:32:10 2013 -0700

glxproxy: Use _XReadPad instead of _XEatData to clean up the slop

Xlib already provides a function to eat padding bytes after the data read, so use it instead of calculating it ourselves.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 1cb182cbdc11fc1c97507c57875f1d2453f27328
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Apr 15 08:41:14 2013 -0700

Xephyr: integer overflow in XF86DRIGetClientDriverName()

clientDriverNameLength is a CARD32 and needs to be bounds checked before adding one to it to come up with the total size to allocate, to avoid integer overflow leading to underallocation and writing data from the network past the end of the allocated buffer.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 20644e53b385c54d73242c86a7d3f981d18a3843
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Apr 15 08:39:03 2013 -0700

Xephyr: integer overflow in XF86DRIOpenConnection()

busIdStringLength is a CARD32 and needs to be bounds checked before adding one to it to come up with the total size to allocate, to avoid integer overflow leading to underallocation and writing data from the network past
the end of the allocated buffer.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit c37ceda76bf9ec6f5166122e864663e10f106546
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Apr 14 10:50:50 2013 -0700

Xephyr: integer overflow in ephyrHostGLXGetStringFromServer()

reply.length & reply.size are CARD32s and need to be bounds checked before
multiplying or adding to come up with the total size to allocate, to avoid
integer overflow leading to underallocation and writing data from the
network past the end of the allocated buffer.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 5fbd8c45b46ab93522e417240aa770466c30b735
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Apr 14 09:45:26 2013 -0700

Xdmx: integer overflow in GetGLXFBConfigs()

numFBConfigs & numAttribs are CARD32s and need to be bounds checked before
multiplying by structure sizes to come up with the total size to allocate,
to avoid integer overflow leading to underallocation and writing data from
the network past the end of the allocated buffer.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit c89bcd12f4fc7233830a8dbe7863c312f657da3c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Apr 14 09:33:57 2013 -0700

Xdmx: integer overflow in GetGLXVisualConfigs()

numVisuals & numProps are both CARD32 and need to be bounds checked before
multiplying by structure sizes to come up with the total size to allocate,
to avoid integer overflow leading to underallocation and writing data from
the network past the end of the allocated buffer.

Reported-by: Ilja Van Sprundel <ivansprundel@ioactive.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit 74469895e39fa38337f59edd64c4031ab9bb51d8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 15 13:06:28 2013 +1000

dix: allow a ConstantDeceleration between 0 and 1 (#66134)

A constant deceleration of x simply means (delta * 1/x). We limited that to
values >= 1.0f for obvious reasons, but can also allow values from 0-1.
That means that ConstantDeceleration is actually a ConstantAcceleration, but
hey, if someone needs it...

X.Org Bug 66134 <http://bugs.freedesktop.org/show_bug.cgi?id=66134>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0e3be0b25fcfeff386bad132526352c2e45f1932
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 12 14:10:10 2013 +1000

dix: UpdateTouchesForGrab must only free the listener grab if it is non-NULL

If a client calls XIGrabDevice in response to a ButtonPress event (regular
event selection), the device will have a grab, but listener->grab is NULL.

Check for that, to avoid logspam.

[ 26293.863] (EE) BUG: triggered 'if (!pGrab')
[ 26293.863] (EE) BUG: grabs.c:256 in FreeGrab()
[ 26293.863] (EE)
[ 26293.863] (EE) Backtrace:
[ 26293.864] (EE) 0: /usr/bin/Xorg (FreeGrab+0x54) [0x45d3fc]
[ 26293.864] (EE) 1: /usr/bin/Xorg (UpdateTouchesForGrab+0x135) [0x447d4e]
[ 26293.864] (EE) 2: /usr/bin/Xorg (ActivatePointerGrab+0x1ba) [0x447f3d]
[ 26293.864] (EE) 3: /usr/bin/Xorg (GrabDevice+0x3e6) [0x4503bc]
[ 26293.864] (EE) 4: /usr/bin/Xorg (ProcXIGrabDevice+0x1f9) [0x5981b1]
[ 26293.865] (EE) 5: /usr/bin/Xorg (ProcIDispatch+0x78) [0x58aa17]
[ 26293.865] (EE) 6: /usr/bin/Xorg (Dispatch+0x30d) [0x43347e]
[ 26293.865] (EE) 7: /usr/bin/Xorg (main+0x61d) [0x498175]
[ 26293.865] (EE) 8: /lib64/libc.so.6 (__libc_start_main+0x5f) [0x3df5621b75]
[ 26293.865] (EE) 9: /usr/bin/Xorg (_start+0x29) [0x423a19]
[ 26293.866] (EE) 10: ? (?+0x29) [0x29]
[ 26293.866] (EE)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 24cbb47ca80cd7a47749ece0ff3a98657ddf3ae3
config: provide example configuration for multi-seat setups

Seats other than seat0 need custom configuration. Provide that with a
default configuration file so we can share it across distros.

This file intentionally does not end in .conf so it won't get picked up by
the server after a normal installation. gdm, or whatever starts up the
servers will have to explicitly specify this config file.

This file replaces the one currently written by systemd's multi-seat-x
binary:
http://cgit.freedesktop.org/systemd/systemd/tree/src/login/multi-seat-x.c

CC: Lennart Poettering <lennart@poettering.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 791121e00692e12cb4c38c8d018bd72eb5081eb7
Author: François Tigeot <ftigeot@wolfpond.org>
Date:   Mon Jul 15 21:54:26 2013 +0200

Fix mouse header include on DragonFly and FreeBSD

  * __FreeBSD_kernel_version doesn't exist anymore

  * The removed check was for FreeBSD versions from before September 2000
    which are no longer supported anyway

  * Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=66045

Signed-off-by: François Tigeot <ftigeot@wolfpond.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 59a6d3f1eb03010ab831b32b03706a1d6143c732
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Nov 8 13:41:13 2012 +0000

os: Remove any old logfile before trying to write to it

If we are not backing up logfiles, remove the old logfile before trying to write
a new logfile, as otherwise the operation may fail if the previous logfile was
created by a different user.

This change is useful when:
  - The DDX doesn't use the logfile backup mechanism (i.e. not Xorg)
- The DDX is run by a non-root user, and then by a different non-root user
- The logfile directory doesn't have the restricted-deletion flag set

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Acked-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8eeaa74bc241acb41f1d3ed64971e0b01e794776
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 9 13:27:19 2013 +1000
dix: when ungrabbing an active grab, accept pointer grabs (#66720)

Ungrabbing a device during an active touch grab rejects the grab. Ungrabbing a device during an active pointer grab accepts the grab.

Rejection is not really an option for a pointer-emulated grab, if a client has a button mask on the window it would get a ButtonPress emulated after UngrabDevice. That is against the core grab behaviour.

X.Org Bug 66720 <http://bugs.freedesktop.org/show_bug.cgi?id=66720>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit a2d6932ad48f2cbfccc4c5fb8272e47106d08ac78
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Jul 1 19:39:30 2013 +0200

xkb: don't call atoi(NULL) when parsing argv

If the -ardelay or -arinterval options have no argument, there's no point trying to read it.

See
http://www.forallsecure.com/bug-reports/feb3db57fc206d8df22ca53a6907f74973876272/

Reported-by: Alexandre Rebert <alexandre@cmu.edu>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 77e51d5bbb97eb5c9d9dbff9a7c44d7e53620e68
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jun 17 15:51:19 2013 -0700

Revert "DRI2: re-allocate DRI2 drawable if pixmap serial changes"
This reverts commit 3209b094a3b1466b579e8020e12a4f3fa78a5f3f. After a long debug session by Paul Berry, it appears that this was the commit that has been producing sporadic failures in piglit front buffer rendering tests for the last several years.

GetBuffers may return fresh buffers with invalid contents at a couple reasonable times:

- When first asked for a non-fake-front buffer.
- When the drawable size is changed, an Invalidate has been sent, and obviously the app needs to redraw the whole buffer.
- After a glXSwapBuffers(), GL allows the backbuffer to be undefined, and an Invalidate was sent to tell the GL that it should grab these appropriate new buffers to avoid stalling.

But with the patch being reverted, GetBuffers would also return fresh invalid buffers when the drawable serial number changed, which is approximately "whenever, for any reason". The app is not expecting invalid buffer contents "whenever", nor is it valid. Because the GL usually only GetBuffers after an Invalidate is sent, and the new buffer allocation only happened during a GetBuffers, most apps saw no problems. But apps that do (fake-)frontbuffer rendering do frequently ask the server for the front buffer (since we drop the fake front allocation when we're not doing front buffer rendering), and if the drawable serial got bumped midway through a draw, the server would pointlessly ditch the front *and* backbuffer full of important drawing, resulting in bad rendering.

The patch was originally to fix bugzilla:
https://bugs.freedesktop.org/show_bug.cgi?id=28365

Specifically:

To reproduce, start with a large-ish display (i.e. 1680x1050 on my laptop), use the patched glxgears from bug 28252 to add the -override option. Then run glxgears -override -geometry 640x480 to create a 640x480 window in the top left corner, which will work fine. Next, run xrandr -s 640x480 and watch the fireworks.

I've tested with an override-redirect glxgears, both with vblank sync enabled and disabled, both with gnome-shell and no window manager at all, before and after this patch. The only problem observed was that before and after the revert, sometimes when alt-tabbing to kill my gears after completing the test gnome-shell would get confused about override-redirectness of the glxgears window (according to a log message) and apparently not bother doing any further compositing.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Tested-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 227015d6544115258b74c31b700f9bd163540ee24
Merge: d9005d58c0 80054fcafb
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 18 10:53:08 2013 -0700

Merge remote-tracking branch 'jturney/master'

commit 951d2f83fc65a1367177fb8090510d053e3f3a6c0
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Wed Jun 12 14:11:53 2013 +0200

bump to 0.8.0

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>

commit 525ac7fb9a0d639253fc5d6556db3ed7239f932
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Wed Jun 12 14:05:19 2013 +0200

modesetting: probe only succeeds if connectors are detected

This will prevent modesetting being used for outputless intel or nvidia cards.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>

commit d4791dd97b85ddac1295761bf6ab4f10c08346d7
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 11 10:29:25 2013 +1000

modesetting: fix adjust frame crash

When SDL called this it was totally broken, actually hook up to the underlying drmmode function.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=64808

Thanks to Peter Wu <lekensteyn@gmail.com> for harassing me.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 80054fcafb095aff76f6df00d348c7fd85e8ddbc
Author: Jon TURNLEY <jon.turney@droncode.org.uk>
Date:   Sat Mar 30 19:44:14 2013 +0000
hw/xwin: Update manifest to target all architectures, not just x86

Update manifest to target all architectures, not just x86

Also: Write explicit dependencies for Xwin.rc. XWin.exe.manifest and X.ico are included the resource compiler output, so add a dependency on them to cause it to be recompiled if they change.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 689e7ad9b0fecd582cde63796cc90a99f141f589
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:    Sun Mar 31 18:36:37 2013 +0100

hw/xwin: Win32 Windows properties are of pointer type HANDLE, not an integer type

Win32 Windows properties are of pointer type HANDLE, not an integer type, but we use the Windows property WINDOW_WID_PROP to store the X window XID.

Add appropriate casts to show it doesn't matter that an XID is smaller than a pointer on 64-bit build.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e1a0945e8d4a3858838a14e64022524ef9d73c905
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:    Sun Mar 31 18:35:35 2013 +0100

hw/xwin: winMultiWindowGetTransientFor() returns an XID not a WindowPtr

winMultiWindowGetTransientFor() accesses the WM_TRANSIENT_FOR property, which is an X window XID (which we compare with WINDOW_WID_PROP) and not a WindowPtr.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit be201ac257687355bf0916d7c525d598ed9b1282
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:    Sat Mar 30 19:47:16 2013 +0000

hw/xwin: Change winIconIsOverride() to take a HICON parameter

Change winIconIsOverride() to take a HICON parameter, so some unnecessary casts, which weren't portable to 64-bit Cygwin, can be removed.
Fix uses of CreateDialogParam() to be more strictly correct, for 64-bit builds

dwInitParam parameter is LPARAM, not int
Return type of DLGPROC is INT_PTR, not WINBOOL

Also: Reporting the value of g_hDlgDepthChange is completely uninteresting, we are just interested in GetLastError() if it is NULL.

The deprecated interface cygwin_convert_to_win32_path() doesn't exist in 64-bit cygwin, but both the ID_ABOUT_CHANGELOG control and the referenced file who's path we are converting haven't existed for a while, so just remove this unused, cygwin-specific code.

Fix a 64-bit portability issue with casting HINSTANCE result of ShellExecute() to an integer

Fix a 64-bit portability issue with casting HINSTANCE result of ShellExecute() to an integer: Since HINSTANCE is a pointer type, use INT_PTR rather than int.
config: add a quirks file for devices needing special configuration

This is the fedora quirks file configuring the special handling some devices need. Rather than keeping this distro-specific add it to the tree so we can share these quirks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 04ce6f6f6c880281e42c9e6b21d6f980ddae79b4
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date: Thu May 30 11:23:07 2013 +0200

dix: add missing dixFreeRegistry define

Fixes a build failure on debian's udeb builds.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c21344add2fc589df83b29be5831c36a372201bd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon May 27 13:46:49 2013 +1000

dix: remove logspam in RefCursor()

This shouldn't have been in the patch

Reported-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cb3018d8a15add48efb3335e1f79b66378166008
Merge: c76a1b343d 6589f3b55e
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 23 19:58:46 2013 -0600

Merge remote-tracking branch 'whot/unreviewed'

commit c76a1b343d6a56aa9529e87f0eda8d61355d562b
Merge: 891123ce9d 9a5ad65330
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 23 19:58:36 2013 -0600
Merge remote-tracking branch 'whot/touch-grab-race-condition-56578-v3'

commit 891123ce9dac5e52685b9a921b33d8279ba52956
Merge: 7e97166c4f 49521edaf8
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 23 10:30:15 2013 -0600

Merge remote-tracking branch 'whot/for-keith'

commit 6589f3b55e335eeef6c658c8ba1fe15a062f7e31c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 14 08:31:19 2013 +1000

dix: devices must have valuators before touch is initialized

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 756ab88d93542f0589ec9bf46f40c5b57df64f0fd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 26 15:10:08 2013 +1000

dix: fix device scaling to use a [min,max] range.

defmin/defmax are screen coords and thus use a min-inclusive, max-exclusive range. device axes ranges are inclusive, so bump the max up by one to get the scaling right.

This fixes off-by-one coordinate errors if the coordinate matrix is used to bind the device to a fraction of the screen. It introduces an off-by-one scaling error in the device coordinate range, but since most devices have a higher resolution than the screen (e.g. a Wacom I4 has 5080 dpi) the effect of this should be limited.

This error manifests when we have numScreens > 1, as the scaling from desktop size back to screen size drops one device unit.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5cc2c96f824dbb28b9f8da61efc41596f8bd0561
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Mar 9 20:43:51 2013 +1000

dix: pre-scale x by the screen:device:resolution ratio

commit 61a99aff9d33728a0b67920254d2d4d79f80cf39
   dix: pre-scale relative events from abs devices to desktop ratio (#31636)

added pre-scaling of relative coordinates coming from absolute devices to
undo uneven scaling based on the screen dimensions.

Devices have their own device width/height ratio as well (in a specific resolution) and this must be applied for relative devices as well to avoid scaling of the relative events into the device's ratio.

e.g. a Wacom Intuos4 6x9 is in 16:10 format with equal horiz/vert resolution (dpi). A movement by 1000/1000 coordinates is a perfect diagonal on the tablet and must be reflected as such on the screen.

However, we map the relative device-coordinate events to absolute screen coordinates based on the axis ranges. This results in an effective scaling of 1000/(1000 * 1.6) and thus an uneven x/y axis movement - the y axis is always faster.

So we need to pre-scale not only by the desktop dimenstions but also by the device width/height ratio _and_ the resolution ratio.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9a5ad65330693b3273972b63d10f2907d9ab954a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 15 19:01:11 2013 +1000

Abstract cursor refcounting

Too many callers relied on the refcnt being handled correctly. Use a simple wrapper to handle that case.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 35c2e263db01b2b61354298e5e85aa3cae8ac317
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue May 14 14:51:31 2013 +1000

dix: call UpdateDeviceState() for emulated TouchEndEvents

ProcessTouchEvents() calls UDS for all touch events, but if the event type was switched to TouchUpdate(pending end) UDS is a noop.

Daniel Drake found this can cause stuck buttons if a touch grab is activated, rejected and the touch event is passed to a regular listener. This sequence causes the TouchEnd to be changed to TouchUpdate(pending end).

The actual TouchEnd event is later generated by the server once it is passed to the next listener. UDS is never called for this event, thus the button remains logically down.
A previous patch suggested for UDS to handle TouchUpdate events [1], however this would release the button when the first TouchEvent is processed, not when the last grab has been released (as is the case for sync pointer grabs). A client may thus have the grab on the device, receive a ButtonPress but see the button logically up in an XQueryPointer request.

This patch adds a call to UDS to TouchEmitTouchEnd(). The device state must be updated once a TouchEnd event was sent to the last grabbing listener and the number of grabs on the touchpoint is 0.


Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b9dc2628115dcb3f3601ad19b1ae157df21b9ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 14 07:46:25 2013 +1000

dix: devices must have valuators before touch is initialized

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fd5ea0237db6725a48f76b706135df9d3246b82
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 13 15:22:12 2013 +1000

Xi: fix warning - remove unused 'rc'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 481702101b86ff003430e952dc65fb41eb56400
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 3 15:07:58 2013 +1000

dix: fix cursor refcounting

The cursor is referenced during CopyGrab(), thus doesn't need to be handled manually anymore. It does need to be refcounted for temp grabs though.

The oldGrab handling in ProcGrabPointer is a leftover from the cursor in the grab being refcounted, but the grab itself being a static struct in the DeviceIntRec. Now that all grabs are copied, this lead to a double-free of the cursor (Reproduced in Thunderbird, dragging an email twice (or more often) causes a crash).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 49521edaf8930b335afac2185209e26e7000820b
ephyr: add -resizeable to the man page

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7a4bbfd9f2ce7aad231488ba01bb3f1071da696a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 15 08:46:38 2013 +1000

ephyr: fix typo in man page

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 7e97166c4fc38076b6224e4dbdd632b43444149f
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Tue May 14 13:04:53 2013 +0200

Shadow: Switch the Amiga/Atari bitplane code to the canonical X.Org license
Also add my name to the list of authors in COPYING

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3093f78d17e48a506aahb170a9089cd10e21af299
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 3 15:02:05 2013 +1000
dix: free the old grab when activating a new grab

A client may call XIGrabDevice twice, overwriting the existing grab. Thus, make sure we free the old copy after we copied it. Free it last, to make sure our refcounts don't run to 0 and inadvertently free something on the way.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2566bdd8be996ccode77b846819808c6239a89d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 24 14:46:06 2013 +1000

Xi: check for HAS_ACCEPTED only for grab listeners
If we have one listener left but it's not a grab, it cannot be in LISTENER_HAS_ACCEPTED state.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5b00fc52270e9cfdfc77ac1838a21defe50fc3d31
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 24 14:40:31 2013 +1000

Move TouchListenerGone call to CloseDownClient

TouchListenerGone cleans up if a client disappears. Having this in FreeGrab() triggers cyclic removal of grabs, emitting wrong events. In particular, it would clean up a passive grab record while that grab is active.

Move it to CloseDownClient() instead, cleaning up before we go.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 34c9b39d9937c2e19c2dffe9748605f90d40f965
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 24 12:53:52 2013 +1000

dix: remove all listeners when freeing a touch

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 395124bd2782823de37e5c5b2f15dba49cf05f6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 17 20:15:35 2013 +1000

dix: always copy grabs, don't reference them

Introduced in xorg-server-1.13.99.901-2-g9ad0fdb. Storing the grab pointer in the listener turns out to be a bad idea. If the grab is not an active grab or an implicit grab, the pointer stored is the one to the grab attached on the window. This grab may be removed if the client calls UngrabButton or similar while the touch is still active, leaving a dangling pointer.

To avoid this, copy the grab wherever we need to reference it later. This is also what we do for pointer/keyboard grabs, where we copy the grab as soon as it becomes active.

Reported-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 925e35122e8bad877395bcf13676e9dbbeb254bd7a
dix: AllocGrab can copy if an argument is passed in

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Commit 4980bcef9973ba1f90f53028f061669ee5d2661b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 23 15:46:04 2013 +1000

Dix: freeing a null grab is a bug, complain if doing so

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Commit ccfa0f2d5de557546815a5e4f59552e2af46b578
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 23 15:39:32 2013 +1000

Dix: use a temporary variable for listeners[0]

No functional changes

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Commit 5363433a5cc64e2f83859aa1e32a89e5e1ddf9e4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 18 10:32:11 2013 +1000

Dix: drop DeviceIntRec's activeGrab struct

Obsolete since 4bc2761ad5ec2d0668aec639780ff8b136605f8c8. This struct existed so copying a passive grab could be simply done by
activeGrab = *grab

And thus have a copy of the GrabPtr we'd get from various sources but still be able to check device->grab for NULL.

Since 4bc2761 activeGrab is a pointer itself and points to the same memory as grabinfo->grab, leaving us with the potential of dangling pointers if either calls FreeGrab() and doesn't reset the other one.

There is no reader of activeGrab anyway, so simply removing it is sufficient.

Note: field is merely renamed to keep the ABI. Should be removed in the future.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 7dbf61817d3bd4b1fc71710677e56c5d8cfcd4e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 17 20:14:56 2013 +1000

dix: use a tmp variable for the to-be-removed touch listener

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a71a283934406d870bcd8de376eb1c9ce1c8bb4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 17 20:13:34 2013 +1000

dix: invert a loop condition

Change the single if condition in the loop body to a
  if (!foo) continue;
and re-indent the rest.

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5174b1f98204beee79eba74c4cda5f2be0a60a8f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 28 11:02:40 2013 +1000

dix: XAllowEvents() on a touch event means accepting it

A sync grab is the owner once it gets events. If it doesn't replay the
event it will get all events from this touch, equivalent to accepting it.

If the touch has ended before XAllowEvents() is called, we also now need to
send the TouchEnd event and clean-up since we won't see anything more from
this touch.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e7f79c48b0faea910dc881034c00eb807fcd6210
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 1 12:52:35 2013 +1000

dix: move EmitTouchEnd to touch.c

No functional changes, this just enables it to be re-used easier.
Xi: Don't emit a TouchEnd event to a frozen device

EmitTouchEnd calls DeliverTouchEvents directly instead of through public.processInputProc. If a device is frozen, the TouchEnd is processed while the device is waiting for a XAllowEvents and thus ends the touch point (and the grab) before the client decided what to do with it. In the case of ReplayPointer, this loses the event.

This is a hack, but making EmitTouchEnd use processInputProc breaks approximately everything, especially the touch point is cleaned up during ProcessTouchEvents. Working around that is a bigger hack than this.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: use public.processInputProc to replay the touch history

If a device is frozen in results to a grab, we need to enqueue the events.

This makes things complicated, and hard to follow since touch events are now replayed in the history, pushed into EnqueueEvent, then replayed later during PlayReleasedEvents in response to an XAllowEvents.

While the device is frozen, no touch events are processed, so if there is a touch client with ownership mask _below_ the grab this will delay the delivery and potentially screw gesture recognition. However, this is the behaviour we have already anyway if the top-most client is a sync pgrab or there is a sync grab active on the device when the TouchBegin was generated.

(also note, such a client would only reliably work in case of ReplayPointer anyway)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: when punting to a new owner, always create TouchEnd events

If a touch is pending_finish and we just punted it to the next owner, that client must receive a TouchEnd event.

If we just punted to the last owner and that owner not a touch grab, we need to end the touch since this is the last event to be sent, and the client cannot accept/reject this.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 026627fe19ad007544eccf209f0dea05e67a7a7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 1 09:15:37 2013 +1000

Xi: save state for early acceptance

Delivering an event changes the state to LISTENER_IS_OWNER and we thus lose the information of early acceptance.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d905348134c80f19793eeb761731b00559ddf3a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 28 15:28:46 2013 +1000

Xi: if a passive async grab is activated from an emulated touch, accept

Async grabs cannot replay events, they cannot reject, so we can do an early accept here.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b0d21044956f3810199d5e2f38ce33069e97be7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 28 13:04:36 2013 +1000

Xi: fix lookup in ActivateEarlyAccept

ActivateEarlyAccept() can only be called from a grabbing client, so we can ignore the rest. And it's easy enough to get the client from that since 9ad0fd1b35a1c336771aee1f6eab75a6ad874aff.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d08bae297f9d7651ed1923d6b0d6b14b3d674fc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 28 13:08:27 2013 +1000
Xi: update the core listener state if we delivered the touch event

If a TouchBegin is sent to a core client, that client is now the owner.

By the time the TouchEnd is being processed, the client cannot replay
anymore, so we can assume that this is the final touch end and we can clean
up the touch record.

Note: DeliverTouchEmulatedEvent is called for all listeners and immediately
bails out if the client is not the owner and thus shouldn't get the
event. Thus, check the return code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 81554d274f04951c55ea7f2e38d0455e2025e08d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 25 11:21:07 2013 +1000

Xi: if we delivered a TouchEnd to a passive grab, end it

This requires us to count the actually delivered events too (first hunk).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 363b6387da6e669099a2da3861c73a29808295a6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 13 11:26:11 2013 +1000

dix: don't prepend an activated passive grab to the listeners

If the device is currently grabbed as the result of a passive grab
activating, do not prepend that grab to the listeners (unlike active grabs).
Otherwise, a client with a passive pointer grab will prevent touch grabs
from activating higher up in the window stack.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 9cc45c18ad1511adf3fb163dd4cefbef106edeb23
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 13 10:49:23 2013 +1000
Xi: not having an ownership mask does not mean automatic acceptance

If we only have a single touch-grabbing client, setting the client as owner would clean up the touch once the TouchEnd was processed. If the client then calls XIAllowTouches() it will receive a BadValue for the touch ID (since the internal record is already cleaned up).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2f1aedcaed8fd9b823d451bf1fb02330c078f67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 9 14:30:50 2013 +1000

input: print warnings if drivers don't initialize properly

If drivers supply incorrect values don't just quietly return False, spew to the log so we can detect what's going on. All these cases are driver bugs and should be fixed immediately.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 8a88b0ab52ba375ae84463a90503db88af10e368
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 9 14:30:49 2013 +1000

dix: don't overwrite proximity/focus classes

InitPointerClassDeviceStruct/InitKeyboardDeviceStruct allocate a proximity/focus class, respectively. If a driver calls InitFocusClassDeviceStruct or InitProximityClassDeviceStruct beforehand, the previously allocated class is overwritten, leaking the memory.

Neither takes a parameter other than the device, so we can simply skip initialising it if we already have one.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 34b0d07ebf4a7874fe7fd336bef5bbdd8debda1c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 10 09:44:29 2013 +1000

dix: reset the OsBuffers after killing all clients

==21860== 24 bytes in 1 blocks are still reachable in loss record 85 of 397
==21860== at 0x4C2B3F8: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
==21860== by 0x61ED93: AllocateOutputBuffer (io.c:1037)
os: Reset input buffer's 'ignoreBytes' field

If a client sends a request larger than maxBigRequestSize, the server is supposed to ignore it.

Before commit cf88363d, the server would simply disconnect the client. After that commit, it attempts to gracefully ignore the request by remembering how long the client specified the request to be, and ignoring that many bytes. However, if a client sends a BigReq header with a large size and disconnects before actually sending the rest of the specified request, the server will reuse the ConnectionInput buffer without resetting the ignoreBytes field. This makes the server ignore new X clients' requests.

This fixes that behavior by resetting the ignoreBytes field when putting the ConnectionInput buffer back on the FreeInputs list.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ddc11397a56c745b5d1fb377e9d9b1fccc73802c8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 18:36:39 2012 +1000

dix: delete all callbacks before reset

DeleteCallbackManager() introduced for better symmetry in the caller, they do the same thing.
==2042== 8 bytes in 1 blocks are still reachable in loss record 2 of 97
==2042== at 0x4C2A4CD: malloc (vg_replace_malloc.c:236)
==2042== by 0x4C2A657: realloc (vg_replace_malloc.c:525)
==2042== by 0x4802F5: XNFrealloc (utils.c:1095)
==2042== by 0x43A17A: CreateCallbackList (dixutils.c:855)
==2042== by 0x43A1EF: AddCallback (dixutils.c:870)
==2042== by 0x4B1752: GEExtensionInit (geext.c:209)
==2042== by 0x41C8A8: InitExtensions (miinitext.c:389)
==2042== by 0x5AC9E4: main (main.c:208)
==2042==

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6993f8b459e25b1a7a0a03e209688a28ce6c2c56
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 24 14:59:11 2013 +1000

Xi: free barrier code at reset time

==29423== 16 bytes in 1 blocks are definitely lost in loss record 73 of 328
==29423== at 0x4A06B6F: calloc (vg_replace_malloc.c:593)
==29423== by 0x5987C0: XIBarrierInit (xibarriers.c:908)
==29423== by 0x58F370: XInputExtensionInit (extinit.c:1300)
==29423== by 0x4F33C3: InitExtensions (miinitext.c:337)
==29423== by 0x4997DB: main (main.c:208)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 042c6d861f7bb7038ddcdd6b59766d9094d0e52
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 30 15:44:37 2013 +1000

os: Use ErrorFSigSafe from FatalError and it's friends

Backtrace logging etc. is already sigsafe, but the actual FatalError message in response is not yet, leading to amusing logs like this:

  (EE) Segmentation fault at address 0x0
  (EE) BUG: triggered 'if (inSignalContext)'
  (EE) BUG: log.c:499 in LogVMessageVerb()
  (EE) Warning: attempting to log data in a signal unsafe manner while in signal context.
  Please update to check inSignalContext and/or use LogMessageVerbSigSafe() or ErrorFSigSafe().
  The offending log format message is:
Fatal server error:

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d9848fb4b182ca21bacf28ed7410d1a502cb000e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 16:24:53 2013 +1000

os: complain about unsupported pnprintf directives

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d903d17d7f006fa333265b8476063b189c20d082
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 16:19:34 2013 +1000

os: support %c in pnprintf

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 58ef34ee6d0f68aa28f6f1a26e56f49ec85ed9bf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 16:13:22 2013 +1000

os: support %% in pnprintf

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5ea21560dd071ea4ab87430000d087fd5fe1f092
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 15:34:32 2013 +1000

os: support pnprintf length modifiers for integers

Mainly for %ld, smaller than int is propagated anyway, and %lld isn't really used.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d3d4af5f9e505d444b6c82c6ea238206433fd24b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 18:59:45 2012 +1000
Heaps of these:

==2042== 15,360 bytes in 120 blocks are still reachable in loss record 94 of 97
==2042== at 0x4C2A4CD: malloc (vg_replace_malloc.c:236)
==2042== by 0x4C2A657: realloc (vg_replace_malloc.c:525)
==2042== by 0x45FB91: double_size (registry.c:65)
==2042== by 0x45FC97: RegisterRequestName (registry.c:85)
==2042== by 0x460095: RegisterExtensionNames (registry.c:179)
==2042== by 0x460729: dixResetRegistry (registry.c:334)
==2042== by 0x5AC992: main (main.c:201)

xkb: free XkbRulesUsed and XkbRulesDflt on extension cleanup

==2547== 1 bytes in 1 blocks are still reachable in loss record 1 of 111
==2547== at 0x4C2A4CD: malloc (vg_replace_malloc.c:236)
==2547== by 0x64D1551: strdup (strdup.c:43)
==2547== by 0x4802FB: Xstrdup (utils.c:1113)
==2547== by 0x585B6C: XkbSetRulesUsed (xkbInit.c:219)
==2547== by 0x58700F: InitKeyboardDeviceStruct (xkbInit.c:595)
==2547== by 0x419FA3: vfbKeybdProc (InitInput.c:74)
==2547== by 0x425A3D: ActivateDevice (devices.c:540)
==2547== by 0x425F65: InitAndStartDevices (devices.c:713)
==2547== by 0x5ACA57: main (main.c:259)

and a few more of the above.

If neither HAL nor udev backends are enabled, warn the user

If both are missing, input device hotplugging will not work out of the box. 
While we still have a DBus-API or the user may want to set AAD off all the

time, the most likely source of this is misconfiguration (i.e. lack of the
udev/hal devel packages).

Message printed last to make it more obvious to the user.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit dce40e2266200421647044ec7e856656d2ef952d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 26 12:34:21 2013 +1000

Xi: always return BadMatch for XTest devices ChangeDeviceControl requests

The only controls that still do something are DEVICE_RESOLUTION and
DEVICE_ENABLE.

XTest devices have no resolution to change, and they cannot be disabled. So
skip the lot, and prevent a crash in the DDX when it's trying to
de-reference pInfo->control_proc on device with no pInfo struct.

Likewise, don't allow setting device mode or the valuators.
XTest pointers are always relative, they don't have a mode.

Test cases:
xts5/XI/ChangeDeviceControl (1/10)
xts5/XI/SetDeviceValuators (1/6)
and a few others

Reported-by: Knut Petersen <Knut_Petersen@t-online.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 23d1bc69f305edd5a6e2cfe3dfe8fe8a0881c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 14 11:07:57 2013 +1000

dix: send the current axis value in DeviceChangedEvents (#62321)

X.Org Bug 62321 <http://bugs.freedesktop.org/show_bug.cgi?id=62321>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 27b11f5c19d67e2f6784d86cb7df86bba3b588bb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 15 11:19:10 2013 +1000

Xi: fix comment - XI2 grabs aren't keysym grabs
Comment dates back to a pre-release version of XI2 that supported keysym grabs. That never made it into a release, it was ditched before.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2746c681639f9512e6e45fb8d0151b996b6aff7f
Merge: le6cf8ec20 9878e097a7
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 6 10:52:40 2013 -0700

Merge remote-tracking branch 'alanc/master'

commit le6cf8ec20d07b73a11116564aba71b4e4291dcd
Merge: dbfeaf7062 5860408a19
Author: Keith Packard <keithp@keithp.com>
Date:   Mon May 6 10:20:21 2013 -0700

Merge remote-tracking branch 'jturney/unused-but-set-variable-warning-fix'

commit dbfeaf70623a83e1a3f3255c94d52e0e04702837
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Apr 30 14:30:18 2013 -0700

xfree86: don't enable anything in xf86InitialConfiguration for GPU screens

There's no point in turning on outputs connected to GPU screens during initial configuration. Not only does this cause them to just display black, it also confuses clients when these screens are attached to a master screen and RandR reports that the outputs are already on.

Also, don't print the warning about no outputs being found on GPU screens, since that's expected.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Dave Airlie <airlied@gmail.com>

commit 5860408a19d956f8cebb7ae39cfdbfceb5e6360
Author: Jon TURNERY <jon.turney@dronencode.org.uk>
Date:   Wed Apr 3 18:43:26 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in ProcWindowsWMFrameGetRect()

/jhbuild/checkout/xorg/xserver/hw/xwin/winwindowswm.c: In function 'ProcWindowsWMFrameGetRect':
Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit bcf523c150b34e9304d174ba812160c611f270d
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Apr 3 18:34:38 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in winMWExtWMUpdateWindowDecoration()

/jhbuild/checkout/xorg/xserver/hw/xwin/winwin32rootlesswindow.c: In function 'winMWExtWMUpdateWindowDecoration':
/jhbuild/checkout/xorg/xserver/hw/xwin/winwin32rootlesswindow.c:189:11: error: variable ‘dwStyle’ set but not used [-Werror=unused-but-set-variable]

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit fb819e24dc080f166c6f29bf46b064c6b8c
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Apr 3 16:40:35 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in winHotKeyAltTabPrimaryDD()

/jhbuild/checkout/xorg/xserver/hw/xwin/winpbdd.c: In function ‘winHotKeyAltTabPrimaryDD’: /jhbuild/checkout/xorg/xserver/hw/xwin/winpbdd.c:518:20: error: variable ‘rcSrc’ set but not used [-Werror=unused-but-set-variable]

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 7dae1e59ce6077f475c04a41fa00096a74114064
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Apr 3 16:33:39 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in winMinimizeWindow() when built !XWIN_MULTIWINDOWEXTWM


Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b28466609b77f9c2f048fee222015a353152a57f
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Apr 3 16:27:45 2013 +0100
hw/xwin: Fix unused-but-set-variable warning in winClipboardProc()

/jhbuild/checkout/xorg/xserver/hw/xwin/wincallbackthread.c: In function ‘winClipboardProc’:

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d414a09bb7f8d4440b36cbe6f0b4ca0eafe5cbf
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Apr 3 16:25:54 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in winWindowProc()

/jhbuild/checkout/xorg/xserver/hw/xwin/winwindowproc.c: In function ‘winWindowProc’:

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 7726102671690eb28138d032e8398ae903b97606
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Apr 3 16:24:08 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in winCopyWindowNativeGDI()

/jhbuild/checkout/xorg/xserver/hw/xwin/winwindow.c: In function ‘winCopyWindowNativeGDI’:

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b9a2566a6e2f56a0335cd4a089b2066c06a67455
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Apr 3 16:50:38 2013 +0100

hw/xwin: Fix unused-but-set-variable warning in finishScreenInitFB()


Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c97fbd39adbc0a8eb8537f40b12c091aee29221a
hw/xwin: Fix unused-but-set-variable warning in winIsFakeCtrl_L()

/jhbuild/checkout/xorg/xserver/hw/xwin/winkeybd.c:331:17: error: variable ‘lastMessage’ set but not used [-Werror=unused-but-set-variable]

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cdb74fe17dcb3b5a9c61951f897deaf07f86775f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Apr 3 16:16:06 2013 +0100

hw/xwin: Fix unused-but-set-variable warnings in windialog.c

/jhbuild/checkout/xorg/xserver/hw/xwin/windialogs.c: In function ‘winChangeDepthDlgProc’: 
/jhbuild/checkout/xorg/xserver/hw/xwin/windialogs.c: In function ‘winAboutDlgProc’: 

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f2fd8ec3725a61abbc831f0a9ec28fa2b7020c47
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jan 9 12:52:13 2013 +1000

gpu: call CreateScreenResources for GPU screens

I didn't think we needed this before, but after doing some more work with reverse optimus it seems like it should be called.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 8fcb9d91b69abc72ddf31b9f2e8585580c6cad2
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jan 9 12:52:08 2013 +1000
dix: allow pixmap dirty helper to be used for non-shared pixmaps

this allows the pixmap dirty helper to be used for reverse optimus, where the GPU wants to copy from the shared pixmap to its VRAM copy.
xf86crtc: don't use scrn->display for gpu screens

scrn->display is a property of the main screen really, and we don't want to have the GPU screens use it for anything when picking modes or a front buffer size.

This fixes a bug where when you plugged a display link device, it would try and allocate a screen the same size as the current running one (3360x1050 in this case), which was too big for the device. Avoid doing this and just pick sizes based on what's plugged into this device.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f0d0df75bfe62553d3e355f89f46ff13dd863f8e8
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 9 12:51:55 2013 +1000

dix/gpu: remove asserts for output/offload from same slave

We should have no problem allowing output/offload from the same slave, I asserted here, but in order to implement reverse optimus this makes perfect sense. (reverse optimus is intel outputting to nvidia).

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9d26e8eaf5a2d7c3e65670ac20254c60f665c463
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 9 14:26:35 2013 +1000

randr: report changes when we disconnect a GPU slave

When we disconnect an output/offload slave set the changed bits, so a later TellChanged can do something.

Then when we remove a GPU slave device, sent change notification to the protocol screen.

This allows hot unplugged USB devices to disappear in clients.
randr: only respected changed on the protocol screen

We don't want to know about changes on the non-protocol screen, we will fix up setchanged to make sure non-protocol screens update the protocol screens when they have a change.

randr: make SetChanged modify the main protocol screen not the gpu screen

When SetChanged is called we now modify the main protocol screen, not the the gpu screen. Since changed stuff should work at the protocol level.

randr: don't directly set changed bits in randr screen

Introduce a wrapper interface so we can fix things up for multi-gpu situations later.

This just introduces the API for now.

hw/xfree86: Only report SetDesiredModes() failed if at least one modeset fails
hw/xfree86: Require only one working CRTC to start the server.

changed the logic to try to set the mode on all connected outputs rather than abort upon the first failure. The return error code was then tweaked such that it reported success if it set a mode on any crtc. However, this confuses the headless case where we never enable any crtc and also, importantly, never fail to set a crtc.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=59190

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Also-written-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Only call xf86platformVTProbe() when it's defined

Fixes build on non-udev systems, since XSERVER_PLATFORM_BUS is only defined in configure.ac if $CONFIG_UDEV_KMS is true.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

shadow: Define c2p_unsupported

Just make this call BUG_WARN(1) to indicate that something unexpected happened

Signed-off-by: Keith Packard <keithp@keithp.com>

sparcPromPathname2Node: free name when returning error, instead of leaking it
Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

xf86SbusCmapLoadPalette: Delay malloc until needed, avoiding leak on error

Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

V2: check for malloc failure

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 174ccd84931ece5a92a09c4a1d6a47e0958ebf7e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 10 10:24:59 2013 -0800

dmxVDLRead: if we opened a file, close it instead of leaking it

Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6bca0184d167388cd417d113031317990489987d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 10 10:18:02 2013 -0800

__glXDRIscreenProbe: free screen when DRI2Connect fails, instead of leaking it

Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

V2: goto existing error handler, instead of replicating more of it here

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8c5ff2e9373b24adff741b25fc1e31b2f5dd0ac
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 10 10:24:59 2013 -0800

glxXDRIscreenProbe: free screen when DRI2Connect fails, instead of leaking it

Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

V2: goto existing error handler, instead of replicating more of it here

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9567fa9a7269765bc59ac71b931e16df261d794d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
__glXDRIscreenCreateContext: free context on failure, instead of leaking it

Reported with other leaks found by cppcheck in bugzilla #50281
https://bugs.freedesktop.org/show_bug.cgi?id=50281

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 7ab9bafec9a3426fd40f8ae693430491333ba4fc
Merge: 53da26af86a260317a
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 24 14:14:45 2013 -0700

    Merge remote-tracking branch 'geertu/master'

commit 53da26af86a260317a
Merge: 5ece86e921 d8d3c78b6e
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 24 10:27:19 2013 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 5ece86e921a1df457a9baab6a2357ccda4ad6957
Merge: ef0a726bc8 22cab8a28a
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 24 10:23:51 2013 -0700

    Merge remote-tracking branch 'airlied/for-keithp-gpu-vt-owner'

commit ef0a726bc8d5c415244cb4f86d664938b0127a5d
Author: Jeremy White <jwhite@codeweavers.com>
Date:   Thu Mar 21 10:58:42 2013 -0500

    Eliminate the use of xf86Rename.h

Signed-off-by: Jeremy White <jwhite@codeweavers.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2b539239e465faa9e8c6d96f1ef00e593d46c18
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 24 10:11:03 2013 -0700

    Bump to 1.14.99.1

    Snapshot with fix for CVE-2013-1940.
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d8d3c78b6ebdf63836951d2dbd2d3d621ff26da2
Author: Andreas Müller <schnitzeltony@googlemail.com>
Date:   Tue Apr 16 14:30:43 2013 +0200

dixstruct.h: fix segfaults - char is unsigned for ARM and PowerPC architectures

see ARM related bug reports [1-3]

[1] https://github.com/archlinuxarm/PKGBUILDs/issues/446I

Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d722796c678532e8c5897c673c43184da353f44
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 17 19:47:42 2013 +1000

dix: plug memory leak in freeing TouchClass

==15562== 1,800 bytes in 1 blocks are definitely lost in loss record 298 of 330
==15562== at 0x4A06B6F: calloc (vg_replace_malloc.c:593)
==15562==    by 0x4312C7: InitTouchClassDeviceStruct (devices.c:1644)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5ab260317ad3b2aafff31a97df21620db52eadc1
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Sun Mar 10 21:04:19 2013 +0100

Xfbdev: Wire up Amiga afb4 and afb8 support

Add support for Amiga-style bitplanes, with 4 or 8 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit 672bc5bb38918304cf68114a1112cd48651a5e83
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Sun Mar 10 17:17:26 2013 +0100

Xfbdev: Wire up Atari iplan2p4 and iplan2p8 support
Add support for Atari-style interleaved bitplanes, with 2 bytes interleave and 4 or 8 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 95a3c7536c1a4afe97af955980034cc69af9c2f
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Sun Mar 10 17:17:26 2013 +0100

Xfbdev: Force shadowfb for frame buffers with non-packed pixels

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0e808110df216649e05503baecd06cd5a3e50421
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Sun Mar 10 17:17:26 2013 +0100

Xfbdev: Reject unsupported frame buffer types

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cf10576812c36f5844805eb95ed1f2d093d1691
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Sun Mar 10 21:03:44 2013 +0100

Shadow: Add support for Amiga afb8

Add support for Amiga-style bitplanes, with 8 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit a1b8e7f1e6118b611ba9d332b8763ee2b44f550c
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Wed Mar 27 09:37:02 2013 +0100

Shadow: Add support for Amiga afb4

Add support for Amiga-style bitplanes, with 4 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit d7181e567d1629c387b834da7eeclf618d14718e
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Sun Mar 10 17:16:17 2013 +0100

Shadow: Add support for Atari iplan2p8

Add support for Atari-style interleaved bitplanes, with 2 bytes interleave
and 8 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit 3f7506b0fca72b2462b85bc4f613de809ae95859
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Sun Mar 10 21:01:02 2013 +0100

Shadow: Add support for Atari iplan2p4

Add support for Atari-style interleaved bitplanes, with 2 bytes interleave
and 4 bits per pixel.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit 87af9ab7d52578b0ea315fc4f8ddf906d19755fb
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Sun Mar 10 17:15:05 2013 +0100

Shadow: Add c2p core

Add Chunky-to-Planar core functionality, to be used by the Atari and Amiga
(interleaved) bitplanes code.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Acked-by: Keith Packard <keithp@keithp.com>

commit 4ee2566c3e420a717be36f79126a14e15edac30f
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Tue Mar 12 18:10:40 2013 +0100

Xfbdev: Treat 1 bpp pseudocolor as monochrome

miCreateDefColormap() only preallocates black and white pixels if
depth > 1.
Hence override the visual, so fbdevCreateColormap() takes care of it.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 6dfb94a891ed445f47832ba1364fcfb1de018f4a
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Tue Mar 12 14:16:10 2013 +0100

Xfbdev: Add support for monochrome visuals

Monochrome supports StaticGray, with hardcoded black and white pixels.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1049b32166760bdc00106625e213d31a8fc60bad
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Tue Mar 12 14:19:25 2013 +0100

Xfbdev: Handle unset fix.line_length

Older frame buffer devices may not fill in fix.line_length, in which
case it must be calculated by the application.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>

commit 5c509c360d97bea78ef461596ab4b7bde69020ac
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Fri Feb 22 13:21:28 2013 +0100

Xfbdev: Make char *fbdevDevicePath const

This fixes:

hw/kdrive/fbdev/fbdev.c: In function 'fbdevInitialize':
  hw/kdrive/fbdev/fbdev.c:41:25: warning: assignment discards 'const' qualifier from pointer target type [enabled by
default]

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b08afbc53c1d583c3913b92e67db44823077b112
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Tue Mar 12 15:20:00 2013 +0100

KDrive: Bail out if screen initialization failed

Else we may get a segmentation fault later.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit e7045e9dd208a1afe36526ab21ef15f8b01ce8bd2
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Sat Feb 23 20:09:22 2013 +0100

test/input: Fix double-aligned test in dix_valuator_alloc() on m68k

On m68k, doubles are not 64-bit aligned, just like on i386 and sh.

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>

commit 8bb0616cc2799c2e34448da6337ea8cb9438cda7
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date: Fri Feb 22 21:10:07 2013 +0100

mieext/shadow/shpacked.c: Remove unused PickBit() define

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6ca03b9161d33b1d2b55a3a1a913cf88deb2343f
Author: Dave Airlie <airlied@gmail.com>
Date: Wed Apr 10 16:09:01 2013 +1000

xf86: fix flush input to work with Linux evdev devices.

So when we VT switch back and attempt to flush the input devices,
we don't succeed because evdev won't return part of an event,
since we were only asking for 4 bytes, we'd only get -EINVAL back.

This could later cause events to be flushed that we shouldn't have

gotten.

This is a fix for CVE-2013-1940.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ddc149beaf708e84fb5573c4322d4f859c517917
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 18:50:46 2012 +1000

Stop the shouting

Meanwhile, here in the future lowercase letters have been invented.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
commit 27356a45b4f6bad4d0bbf356e6d976d0c8dd257b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 27 17:22:16 2012 +1000

dix: only allocate unused classes for master devices

Slave devices don't need these and the matching code in CloseDevice() has a
IsMaster() condition on freeing these, causing a leak.

---

commit 98b94c36d6b1d286b84d4cb414e54b4b95a1484b0
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Mon Apr 15 16:53:48 2013 +0200

dix: copy event in TouchConvertToPointerEvent correctly

Fixes reading random memory read beyond the end of original event.

sizeof device_event: 424
sizeof internal_event: 2800

---

commit 4bff442ec5aa4b93a3f5c11782d4b7b9d1ae13ac
Author: Knut Petersen <Knut_Petersen@t-online.de>
Date:   Tue Feb 26 07:52:59 2013 +0100

Never try to execute BellProcPtr NULL.

This prevents xts XI/XDeviceBell-2 test
from segfaulting the server.

---

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: fix swapped grab mode args for keyboard devices in XIGrabDevice

The protocol says that the grab_mode argument applies to the device being grabbed and paired_device_mode to the paired master device. GrabDevice() however takes in a pointer mode and a keyboard mode and so we have to swap the values according the type of device being grabbed.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: Revert workaround for drm race condition.

Revert 70739e817b2d64bc020ea491f23a3574bd6155e and mostly revert c31eac647a9ecf0fb20dc98266cadf0ba923ba14.

Further investigation shows the encountered race condition is between lightdm and plymouth-splash, as implemented in the Ubuntu distribution within the limitations of upstart's job coordination logic, and can (and should) be fixed within those limitations. Not in xserver itself.

This leaves some of the diagnostic improvements from the recent patch series, in case others run into a similar situation.

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: change a log message

This path is technically executed through config/udev, but having two messages in the form "config/udev: Adding drm device" makes it appear as if the udev filters are wrong and it's trying to add the same device twice. In fact, it's only one device, only added once, but a duplicate log message.
xf86: don't hotplug output devices while VT switched.

We don't want to hotplug output devices while we are VT switched, as we get races between multiple X servers on the device open, and drm device master status. This just queues device opens until we return from VT switch.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>

xf86: use new xf86VTOwner interface in a few places

This replaces some previous uses of direct xf86Screens[0] accesses.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Dave Airlie <airlied@gmail.com>

xfree86: add VT owner interface

This is just a simple interface to avoid accessing x86Screens[0] directly.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Dave Airlie <airlied@gmail.com>

Xi: Do not handle ET_TouchOwnership in ProcessTouchEvent

The event struct is different, causing memory corruption on 1.13 and 1.14,
as can be witnessed in https://bugs.freedesktop.org/show_bug.cgi?id=56578

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dbba50a1280cbda9ecff6f37884b4c5756c30bab
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 9 16:23:19 2013 -0700

Xi: Use correct destination when swapping barrier events

Write the swapped values to the destination rather than the source.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jasper St. Pierre <jstpierre@meecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b86b3d10bb2fee1a922bb831e8bb415c339f3d99
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 4 07:58:41 2013 +1000

dix: don't set non-exisiting flags on touch events

Unlike pointer/keyboard events, the flags field for ET_Touch* is a set of server-internal defines that we need to convert to XI protocol defines. Currently only two of those defines actually translate to the protocol, so make sure we don't send internal garbage down the wire.

No effect to current clients since they shouldn't look at undefined bits anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ecf62755086fd65898998d5a509aee5f29a9583d
Author: Jeremy White <jwhite@codeweavers.com>
Date:   Thu Mar 21 10:58:57 2013 -0500

Define prototypes for hw/xfree86/modes/xf86Modes.c only in xf86Modes.h.

This removes a large number of redundant declaration warnings.

Signed-off-by: Jeremy White <jwhite@codeweavers.com>
Reviewed-by: Robert Morell <rmorell@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e13f29984251dbbe6076264ed710ce2922312eed1
Author: Bryce Harrington <bryce@canonical.com>
Date: Tue Mar 19 12:12:46 2013 -0700

xfree86: Be verbose if waiting on opening the drm device

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 70739e817b2d64bc020ea491f23a3574bd6155e
Author: Bryce Harrington <bryce@canonical.com>
Date: Tue Mar 19 12:12:45 2013 -0700

xfree86: Fix race condition failure opening drm.

If other processes have had drm open previously, xserver may attempt to open the device too early and fail, with xserver error exit "Cannot run in framebuffer mode" or Xorg.0.log messages about "setversion 1.4 failed".

In this situation, we're receiving back -EACCES from libdrm. To address this we need to re-set ourselves as the drm master, and keep trying to set the interface until it works (or until we give up).

See https://bugs.launchpad.net/ubuntu/+source/libdrm/+bug/982889

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c31ec4647a9ecf0fb20dc98266cadf0ba923ba14
Author: Bryce Harrington <bryce@canonical.com>
Date: Tue Mar 19 12:12:44 2013 -0700

xfree86: Keep trying to set interface on drm for 2 seconds.

And if we've had to delay booting due to not being able to set the interface, fess up.

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d1cc210de8c13f2db9f6f284ecc652305c28801e
Author: Bryce Harrington <bryce@canonical.com>
Date: Tue Mar 19 12:12:43 2013 -0700

xfree86: Provide more details on failure
Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f059d0dabc553a5f748d86de9115da00be5997d5
Author: Bryce Harrington <bryce@canonical.com>
Date:   Tue Mar 19 12:12:42 2013 -0700

xfree86: Track error code and add label for error handling.

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4d7052bd7bbf49b573dc4d34ad14e7f058a0d884
Author: Bryce Harrington <bryce@canonical.com>
Date:   Tue Mar 19 12:12:41 2013 -0700

xfree86: (Cleanup) Close fd if drm interface 1.4 could not be set.

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c64fa9a2961f82719cc7734a4222f31297a2e593
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Wed Apr 3 12:08:44 2013 +0200

support 32 bpp pixmaps when 24 bpp fb is used.

Fixes background corruption in ubuntu.

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>

commit 8928f8fa0bb154ce437af703ff702016f0dfcf127
Author: Geert Uytterhoeven <geert@linux-m68k.org>
Date:   Mon Mar 18 23:38:10 2013 +0100

kdrive/fbdev: revive randr new screen size logic

hw/kdrive/fbdev/fbdev.c: In function 'fbdevRandRSetConfig':
  hw/kdrive/fbdev/fbdev.c:470:19: warning: variable 'newheight' set but not used [-Wunused-but-set-variable]
  hw/kdrive/fbdev/fbdev.c:470:9: warning: variable 'newwidth' set but not used [-Wunused-but-set-variable]

Signed-off-by: Geert Uytterhoeven <geert@linux-m68k.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 808c87bf710263f5a7b3c12a7e7fec54672fed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 25 14:51:58 2013 +1000

Revert "kdrive: fix "set but not used" warnings"

Partial revert of commit 4149ee8ec0193acbf3812c7ee2627b93b9a89997, better
fix coming up.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3a9a6c972e44b8de3de9399df3b0cda759cd70
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Wed Mar 27 10:33:46 2013 +0100

bump version to 0.7.0

commit ac4c2abe985ce6816a3389c41eb23462c6ac2486
Author: vdb@picaros.org <vdb@picaros.org>
Date:   Thu Mar 7 16:07:31 2013 +0100

xserver: add monitor Option "ZoomModes" [v2]

Section "Monitor"
    Identifier "a21inch"
    Option "PreferredMode" "1600x1200"
    Option "ZoomModes" "1600x1200 1280x1024 1280x1024 640x480"
EndSection

The option's effect is to search for and mark once each named mode in
the output modes list. So the specification order is free and the zoom
modes sequence follows the order of the output modes list. All marked
modes are available via the Ctrl+Alt+Keypad-{Plus,Minus} key
combination.

See also http://bugs.freedesktop.org/show_bug.cgi?id=17954.

This option has its use for combined monitor and television setups.
It allows for easy switching between 60 Hz and 50 Hz modes even when a
monitor refuses to display the input signal.

(Includes a few minor changes suggested by Aaron for v2)

Signed-off-by: Servaas Vandenberghe <vdb@picaros.org>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 862bc2836835b93f4b2cfd2de6ca344f65484a00
modesetting: return null for get_modes if output could not be retrieved

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>

commit 6b79a8791d35bbd1a3ebdec1c582f66c559c039
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Tue Mar 26 15:19:33 2013 +0100

modesetting: clean up leaks

Signed-off-by: Maarten Lankhorst <maarten.lankhorst@canonical.com>

commit 2967391c6d35f03121afa8003e0fb94b62495129
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 28 10:43:05 2013 +1000

Xi: add a comment to make a condition a bit clearer

The commit message to 676447190190d8546165e21be242cf16dd69f5ae explains it, but that doesn't stop the WTF moment when reading the code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2fdde2c40d83695438bb6f5615f98bd7ae801b43d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 25 15:21:32 2013 +1000

dix: update coords for touch events in PlayReleasedEvents

Note: this is only hit for #ifdef PANORAMIX

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 697071ab2b2b7f8910e01ed74618138538291cd1e8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 28 10:30:15 2013 +1000

Xi: compress two if statements with the same body

We do the same thing here, compress them into one body.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 11bead1fa205a1353e6a33c6024c7e8ace80be7c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 25 11:13:52 2013 +1000

dix: fix a comment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit fc504a44d12d537d4e07f659f1863f200a0272ad
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 1 08:26:06 2013 +1000

Xi: use a temp variable for the new listener

Instead of accessing ti->listener[0] all the time.

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9978b57b8d94f061d72a67b99a02b0ba16a11429
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 1 08:43:58 2013 +1000

Xi: return !Success from DeliverTouchEmulatedEvent if we didn't deliver

All callers currently ignore the new value, so this patch has no effect.

Inverse call graph:

DeliverTouchEmulatedEvent
    DeliverEmulatedMotionEvent             Ignores value
    DeliverTouchEvent
        DeliverTouchEvents             Ignores value
    DeliverTouchBeginEvent
        DeliverTouchEvent
            DeliverTouchEvents             Ignores value
    DeliverTouchEvent
        DeliverTouchEvents             Ignores value

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1754973206c09a901747e71d4abdf666293da59e
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Feb 20 17:27:16 2013 -0800
modesetting: match PCI class 3, any subclass

If a device is not primary, the PCI device match fails because the xf86-video-modesetting driver looks specifically for a PCI class match of 0x30000 with a mask of 0xffffffff. This fails to match, for example, a non-primary Intel VGA device, because it is reported as having a class of 0x38000.

Fix that by ignoring the low 16 bits of the class in the pci_id_match table.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed on IRC by Adam Jackson <ajax@redhat.com>

commit cc3d1a5a6120e721a46c67446ba68f5596055633
Author: Piotr Dziwinski <piotrdz@gmail.com>
Date:   Sat Feb 23 13:14:45 2013 +0100

glx: fix uninitialized var in __glXDRIscreenProbe

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=59825

Signed-off-by: Piotr Dziwinski <piotrdz@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c2ede8f92f0d6f15b1b2a04889cb54cd17288780b
Merge: 190b032151 7050aae69c
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 18 11:26:24 2013 -0700

   Merge remote-tracking branch 'whot/for-keith'

commit 190b0321510b99d4738915f540cea5c0c51e07e2
Author: Zack Rusin <zackr@vmware.com>
Date:   Thu Feb 14 15:06:57 2013 -0800

GLX/DRI2: Do not expose INTEL_swap_event without swap control

Swap events depend on the implementation of ScheduleSwap. By unconditionally enabling GLX_INTEL_swap_event we're breaking the system with drivers that don't support it because the apps are forever stuck waiting for an event that will never be delivered. So let's enable the extension only if the hooks it depends on are actually there.

Signed-off-by: Zack Rusin <zackr@vmware.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 116f020102fd6c2a603069a639b113dfa31b48b7
Merge: cf89aa5374 0f537da72d
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 18 11:18:58 2013 -0700

    Merge remote-tracking branch 'whot/next'

commit cf89aa53748b964f9d9eceaa12a7d6f1a076d1ee
Author: Tomasz Lis <tomasz.lis@intel.com>
Date:   Mon Mar 11 10:21:28 2013 +0100

    Full support of sRGB capable fbconfigs.

changes to correctly initialize the sRGB capability attribute and
transfer it between XServer and the client. Modifications include
extension string, transferring visual config attribs and fbconfig
attribs. Also, attribute is initialized in the modules which do not
really use it (xquartz and xwin).
This version advertises both ARB and EXT strings, and initializes
the capability to default value of FALSE. It has corrected required
GLX version and does not influence swrast. The sRGB capable attribute
is attached only to those configs which do have this capability.
Both ARB and EXT versions share the same GLX extension enabling bit.

    Signed-off-by: Tomasz Lis <tomasz.lis@intel.com>
    Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 679ccecd8bc6d797e99f3b707f8041b727ca7a49
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 18 10:01:20 2013 -0700

    Bump release to 1.14.99.0

    Get us off the release number so that we don't conflict with the
stable branch.

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit beb1715e96b649a0903fa61f30dd1eb69411da2f
Author: Colin Walters <walters@verbum.org>
Date:   Wed Jan 4 22:37:06 2012 +0000

    autogen.sh: Implement GNOME Build API

http://people.gnome.org/~walters/docs/build-api.txt
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7050aae69c2a55dfdbb5c6af7882307e90ba4275
Author: Robert Morell <rmorell@nvidia.com>
Date:   Tue Mar 12 09:40:16 2013 -0700

list.h: Make xorg_list_init inline

Otherwise this file is emitted in every unit that includes it.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 31595b528645a7e4903eb81da0fc332d78407f25
Author: Robert Morell <rmorell@nvidia.com>
Date:   Tue Mar 12 09:37:43 2013 -0700

configure.ac: Require inputproto 2.3

This picks up support for Xi pointer barriers in the protocol.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3ac2e61705432951f9e1b96b42b4214e7f748f94
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Mar 9 17:12:53 2013 +1000

xfixes: ifdef PanoramiXFixes* (#62015)

Fixes build failure with --disable-xinerama introduced by
482e0cb cursor: Move pointer barrier code over to XI

Reason is new include order: sdksyms.sh includes xfixes.h, which previously
did not include xfixesint.h.

As of 482e0cb xfixes.h includes xibarriers.h which includes xfixesint.h

X.Org Bug 62015 <http://bugs.freedesktop.org/show_bug.cgi?id=62015>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Daniel Martin <consume.noise@gmail.com>

commit 5047810a4c20fab444b8c6eb146c55dcdb0d4219
Author: Aaron Plattner <aplattner@nvidia.com>
fb: Rename wfbDestroyGlyphCache

Renaming this function was missed in commit 9cbcb5bd6a5360a128d15b77a02d8d3351f74366, so both libfb.so and libwfb.so define functions named fbDestroyGlyphCache.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Søren Sandmann <ssp@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 103b77c59e3638a45179bf6d7908f5c738d2d872
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 5 22:31:17 2013 -0800

Version bumped to 1.14

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0f537da72d414ed84e3cd14e3bb7e08565136bd7
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date:   Sun Mar 3 20:25:44 2013 +0100

xb: Fixes to LatchMods/LatchGroup

The main problem this patch addresses is that if a latch is put on multi-level key with a Latch/Lock/Set, it is possible that after all keys are released, still base modifiers are set, which typically will make the keyboard unusable. To see how it happens (without the patch), assume that key AltGr sets Mod5 when pressed by itself, and latches Mod3 when pressed together with Shift. Now press Shift, then AltGr and release both keys in reverse order. Mod3 is now latched, and the LatchMods filter remains active as the second filter. Now press AltGr; Mod5 base modifier gets set, and the Setmods filter will become active as the first filter. Release AltGr: First, the SetMods filter will set clearMods to Mod5, then the LatchMods filter will overwrite clearMods with Mod3. Result: the Mod5 base modifier will remain set. This example becomes practically relevant for the revised German standard layout (DIN 2137-1:2012-06).

Other changes implement the latch behaviour more accurately according to the specification. For example, releasing a modifier latching key can at the same time clear a locked modifier, promote another modifier that is latched to locked, and latch a third modifier. Overall, what the code does should be straightforward to compare what the XKB protocol specification demands, see the table in section 6.3.
Finally, releasing a key no longer cancels a latch that has not become pending yet. In my opinion, the specification is not clear; it speaks of "operating" a key, which the patch effectively interprets as "press" rather than "press or release". From my experience, using the latter interpretation makes latches on higher levels practically unusable. In the example given above, one would have to release AltGr always before Shift to get the Mod3-Latch. The practical relevance of latches on higher levels is once more given by the revised German standard layout.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eadda231091aa6feb68207ee22f6bc3a390d4556
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 15 11:19:09 2013 +1000

xephyr: fix "set but not used warnings"

ephyrvideo.c: In function 'ephyrPutVideo':
ephyrvideo.c:1009:42: warning: variable 'drw_h' set but not used
ephyrvideo.c:1009:31: warning: variable 'drw_w' set but not used
ephyrvideo.c:1009:20: warning: variable 'drw_y' set but not used
ephyrvideo.c:1009:9: warning: variable 'drw_x' set but not used
ephyrvideo.c: In function 'ephyrGetVideo':
ephyrvideo.c:1058:42: warning: variable 'drw_h' set but not used
ephyrvideo.c:1058:31: warning: variable 'drw_w' set but not used
ephyrvideo.c:1058:20: warning: variable 'drw_y' set but not used
ephyrvideo.c:1058:9: warning: variable 'drw_x' set but not used
ephyrvideo.c: In function 'ephyrPutStill':
ephyrvideo.c:1107:42: warning: variable 'drw_h' set but not used
ephyrvideo.c:1107:31: warning: variable 'drw_w' set but not used
ephyrvideo.c:1107:20: warning: variable 'drw_y' set but not used
ephyrvideo.c:1107:9: warning: variable 'drw_x' set but not used
ephyrvideo.c: In function 'ephyrGetStill':
ephyrvideo.c:1156:42: warning: variable 'drw_h' set but not used
ephyrvideo.c:1156:31: warning: variable 'drw_w' set but not used
ephyrvideo.c:1156:20: warning: variable 'drw_y' set but not used
ephyrvideo.c:1156:9: warning: variable 'drw_x' set but not used

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Robert Morell <rmorell@nvidia.com>

commit 4149e8ec0193acb53812c7ee2627b93b9a89997
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 15 11:19:08 2013 +1000

kdrive: fix "set but not used" warnings
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  34183

kinput.c: In function 'KdEnqueueKeyboardEvent':
kinput.c:1845:16: warning: variable 'ctrl' set but not used
kinput.c:1844:17: warning: variable 'keye' set but not used

kinput.c: In function 'KdEnqueuePointerEvent':
kinput.c:1887:12: warning: variable 'ms' set but not used

kxv.c: In function 'KdXVDisable':
kxv.c:1181:19: warning: variable 'ScreenPriv' set but not used

mouse.c: In function 'ps2SkipInit':
mouse.c:444:9: warning: variable 'skipping' set but not used
mouse.c: In function 'ps2Init':
mouse.c:473:10: warning: variable 'waiting' set but not used
mouse.c:472:9: warning: variable 'skipping' set but not used

fbdev.c: In function 'fbdevRandRSetConfig':
fbdev.c:468:19: warning: variable 'newheight' set but not used
fbdev.c:468:9: warning: variable 'newwidth' set but not used

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Robert Morell <rmorell@nvidia.com>
commit 44fc062f85df7288c17d2d64b73a4957b91fd6d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 18 14:57:58 2013 +1000

os: document pnprintf as sigsafe snprintf

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit c100211034ab69ce453a1644fb61c6808d7e3eda
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 18 14:12:40 2012 +1000

dix: only show the cursor if a window defines one (#58398)
e02f864fdf "Suppress cursor display until the first XDefineCursor() request" disabled cursor display a priori unless -retro is given.

On a plain server, calling XFixesHideCursor() and XFixesShowCursor() would show the default root cursor, despite no client actually defining a cursor.

Change the logic, disable CursorVisible by default and only enable it from the window's CWCursor logic. If no window ever defines a cursor, said cursor stays invisible.
X.Org Bug 58398 <http://bugs.freedesktop.org/show_bug.cgi?id=58398>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Bastien Nocera <hadess@hadess.net>
Reviewed-by: Daniel Martin <consume.noise@gmail.com>

commit 6238bd68bd71323f8b4f1808f34dabe2ae447fe3
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Mar 5 13:04:46 2013 -0800

DPMS: include GPU screens in DPMS code

Otherwise, displays driven by GPU screens remain on all the time.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dd4ab8b572956f9457616869d6e383c8ed964c73
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 5 10:14:29 2013 +1000

Xi: force dtime to 0 on the first BarrierHit

dtime to the previous event is 0 on the first BarrierHit event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 604169af8b67af74a292c9db9070a3a1f26d7e536
Merge: 8f4640bd9 6ea59dc2d8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 4 21:09:59 2013 -0800

Merge commit '6ea59dc2d8887102bf8d7c838d2e7ab17645ae'

commit 6ea59dc2d8887102bf8d7c838d2e7ab17645ae
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Sun Mar 3 04:50:55 2013 -0500

xibarriers: Remove accidental use of the comma operator

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bd58ebe4cf3b0ce60f87fbb26a3715f774dabd349
Author: Daniel Martin <consume.noise@gmail.com>
ephyr: Fix crash on 24bpp host framebuffer

Use bytes_per_line and bits_per_pixel from the created XImage to fix
https://bugzilla.redhat.com/show_bug.cgi?id=518960

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8f4640bdb9d3988148e09a08d2c7e3bab1d538d6
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 9 12:58:28 2013 +1000

randr: cleanup provider properly

So in the cold plug server shutdown case, we reap the resources before we call CloseScreen handlers, so the config->randr_provider is a dangling pointer when the xf86CrtcCloseScreen handler is called,

however in the hot screen unplug case, we can't rely on automatically reaped resources, so we need to clean up the provider in the xf86CrtcCloseScreen case.

This patch provides a cleanup callback from the randr provider removal into the DDX so it can cleanup properly, this then gets called by the automatic code for cold plug, or if hot unplug it gets called explicitly.

Fixes a number of random server crashes on shutdown
Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=58174
Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=891140

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3ec35c45ca17f5ed6fd02c50fc49ae7b8d128dcb
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jan 9 12:53:14 2013 +1000

xf86: actually set the compat output in the failure case

The previous fix for the previous fix, didn't fully work,

If we don't set compat_output we end up doing dereferences of arrays with -1, leading to valgrind warnings.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
xfree86/hotplug: cleanup properly if the screen fails to initialise

Due to another bug, the modesetting/udl driver would fail to init properly on hotplug, when it did the code didn't clean up properly, and on removing the device the server could crash.

Found in F18 testing.

os: use libunwind to generate backtraces

Libunwind generates backtraces much more reliably than glibc's "backtrace".

Before:
0: /opt/xserver/bin/X (0x400000+0x18ce36) [0x58ce36]
1: /opt/xserver/bin/X (xorg_backtrace+0x9) [0x58d119]
2: /opt/xserver/bin/X (0x400000+0x190d69) [0x590d69]
3: /lib64/libpthread.so.0 (0x7fbb904268000+0x10a90) [0x7fbb904278a90]
4: /lib64/libc.so.6 (ioctl+0x7) [0x7fbb904f987]
5: /usr/lib64/libdrm.so.2 (drmIoctl+0x28) [0x7fbb904f98a8]
6: /usr/lib64/libdrm.so.2 (drmCommandWrite+0x1b) [0x7fbb904235b5]
7: /usr/lib64/libdrm_nouveau.so.2 (nouveau_bo_wait+0x89) [0x7fbb9019c7000+0xb6e0]
8: /opt/xserver/lib/xorg/modules/drivers/nouveau_drv.so (0x7fbb90222e000+0x76f3) [0x7fbb9022156f3]
9: /opt/xserver/lib/xorg/modules/libexa.so (0x7fbb9019c7000+0x8d80) [0x7fbb9019d2ae0]
10: /opt/xserver/bin/X (0x400000+0x17d2b3) [0x57d2b3]
11: /opt/xserver/bin/X (0x400000+0xc9930) [0x4c9930]
12: /opt/xserver/bin/X (0x400000+0x3a81a) [0x43a81a]
13: /opt/xserver/bin/X (0x400000+0x3d6a1) [0x43d6a1]
14: /opt/xserver/bin/X (0x400000+0x2c2ca) [0x42c2ca]
15: /lib64/libc.so.6 (___libc_start_main+0xf5) [0x7fbb902fd19b5]
16: /opt/xserver/bin/X (0x400000+0x2c6d0) [0x42c6d0]
17: ?? [0x0]

After:
0: /opt/xserver/bin/X (OsSigHandler+0x39) [0x590d69]
A fixed-mode output device like a panel will often only inform of its preferred mode through its EDID. However, the driver will adjust user specified modes for display through use of a panel-fitter allowing greater flexibility in upscaling. This is often used by games to set a low resolution for performance and use the panel fitter to fill the screen.

v2: Use the presence of the 'scaling mode' connector property as an indication that a panel fitter is attached to that pipe.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=55564

commit e27b2e61632b220ddc36d0d0387581a9f4774f21
Author: Peter Harris <pharris@opentext.com>
Date:   Tue Feb 19 16:08:52 2013 -0500

xkb: Set nIndicators in XkbGetIndicatorMap

Xlib doesn't use this value (it computes it from the reply length instead) which is why nobody has noticed yet. But the spec
says that it should be set.

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3aac7a59dc6ef2d8bbf46ba5d37acdf6013e9450
Author: Daniel Martin <daniel.martin@secunet.com>
Date: Tue Dec 11 17:23:55 2012 +0100

ephyr: Add -resizeable option

With this option passed, ephyr windows can be resized like normal windows on the fly, without the need of an explicit parent window.

Signed-off-by: Daniel Martin <daniel.martin@secunet.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f9198e278becccc158b570204e99fc1de822ac76b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 16:43:10 2012 +1000

dix: FreeAllAtoms() on reset

==5712== 6 bytes in 1 blocks are still reachable in loss record 17 of 585
==5712== at 0x4A074CD: malloc (vg_replace_malloc.c:236)
==5712== by 0x3D1DE885B1: strndup (strndup.c:46)
==5712== by 0x41CB71: MakeAtom (atom.c:121)
==5712== by 0x55AE3E: XIGetKnownProperty (xiproperty.c:401)
==5712== by 0x4251C9: AddInputDevice (devices.c:312)
==5712== by 0x42AC0C: AllocDevicePair (devices.c:2657)
==5712== by 0x425E6E: InitCoreDevices (devices.c:677)
==5712== by 0x5ACA05: main (main.c:257)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 88517ced1fa2e621be2d05a319b522b3111da516
Merge: 82425c66e7 73974dd7ea
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 15 11:58:52 2013 +1000

Merge branch 'master' of git+ssh://people.freedesktop.org/~alanc/xserver into next

commit 82425c66e7a8c436b5be7ad44880dd4be6c1f06a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 10:21:47 2013 +1000
xfree86: remove redundant declaration of inputInfo

xf86Cursor.c:19:18: warning: redundant redeclaration of 'inputInfo'
[-Wredundant-decls]
In file included from xf86Cursor.c:18:0:
./../include/inputstr.h:614:57: note: previous declaration of 'inputInfo' was here

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 6133c417595a9c8fc158b0d68fd4a7a2e58f6c47
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Feb 14 10:15:33 2013 +1000
	xkb: remove unused variable 'names'

xkb.c: In function '__XkbSetNamesCheck':
xkb.c:3987:18: warning: variable 'names' set but not used
[-Wunused-but-set-variable]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 63d00c6b146d7f5f8b80f20f19066088059042a5e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Feb 14 10:13:53 2013 +1000

Xext: rename two shadowing variables

panoramiX.c: In function 'PanoramiXCreateConnectionBlock':
panoramiX.c:599:10: warning: declaration of 'disableBackingStore' shadows a global declaration [-Wshadow]
In file included from ../include/windowstr.h:60:0,
    from panoramiX.c:47:
    ../include/opaque.h:56:52: warning: shadowed declaration is here [-Wshadow]

panoramiX.c: In function 'PanoramiXConsolidate':
panoramiX.c:834:19: warning: declaration of 'pScreen' shadows a previous local [-Wshadow]
panoramiX.c:813:15: warning: shadowed declaration is here [-Wshadow]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
commit 8bbea9f48f43e54c55c8b60ea36bda3134a86af2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 10:09:53 2013 +1000

Xext: renaming shadowing variable

xvdisp.c: In function 'ProcXvStopVideo':
xvdisp.c:712:11: warning: declaration of 'rc' shadows a previous local
[-Wshadow]
xvdisp.c:705:17: warning: shadowed declaration is here [-Wshadow]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 7b79a2e4a11b5c5f0ebaa495828725e235d2b08e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 10:06:55 2013 +1000

fb: drop two unneeded shadowing variables

fbpict.c: In function 'fbGlyphs':
fbpict.c:188:6: warning: declaration of 'x' shadows a previous local
[-Wshadow]
fbpict.c:111:9: warning: shadowed declaration is here [-Wshadow]
fbpict.c:188:9: warning: declaration of 'y' shadows a previous local
[-Wshadow]
fbpict.c:111:12: warning: shadowed declaration is here [-Wshadow]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Soren Sandmann <ssp@redhat.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 858d8b19b3a5bb59e5c5f9a9e68adce2495b5e31
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 14 10:04:06 2013 +1000

xfree86: drop unused prevSIGIO

Unused as of 5d309af2ed93e91c7d72f548a11052051efbb40f

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 592d35ae0f0a8089a344543cf5a425e0537e0431b
randr: fix "set but unused" warnings

rrcrtc.c: In function 'RRCrtcDetachScanoutPixmap':
rrcrtc.c:366:9: warning: variable 'ret' set but not used
[-Wunused-but-set-variable]
rrcrtc.c: In function 'rrCheckPixmapBounding':
rrcrtc.c:505:13: warning: variable 'ret' set but not used
[-Wunused-but-set-variable]
rrcrtc.c:445:9: warning: unused variable 'i' [-Wunused-variable]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 90642948cc78834d95f7a3bddaac7ff7b68ed7e
Merge: 9a35d4240e eda7dbff5a
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Feb 14 11:05:48 2013 -0800

Merge remote-tracking branch 'jeremyhu/master'

commit 9a35d4240e2aa91ac1040f0f9f86f83ff9a2d3d04
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 14 16:31:13 2013 +1000

os: fix pnprintf OOB buffer read for unterminated length modifiers

Format strings with length modifiers but missing format specifier like "%0"
will read one byte past the array size.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit eda7dbff5a9f35efefe1e3dedacb82daadbf5945e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Feb 9 20:53:02 2013 -0800

XORG_TLS: Pick the first option that works (ie: prefer __thread)

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 5da82f872daf25939a8fa04f1561b01f0315a623
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Sat Feb 9 20:40:10 2013 -0800
os: Ensure `<dix-config.h>` is included in `strndup.c`

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 67eaf4b46f678bc904f47dfc6b655e170d843e0
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat Feb 9 20:34:33 2013 -0800

XQuartz: Ensure `<dix-config.h>` is included in `capabilities.c`

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 955d434f4d755d00a23ae4068b9957765989d672
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 13 21:39:37 2013 -0800

Update to version 1.3.99.902 (1.14 RC2)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7115f6c709898a5124b67e19c61dc01334471358
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Jan 23 16:58:47 2013 -0800

`randr`: unreff the provider shared pixmap the appropriate number of times

When an `RandR` shared pixmap is created in `rrCreateSharedPixmap`, it has a refcnt of 1. Then, `PixmapShareToSlave` bumps the refcnt to 2. However, there's no corresponding `PixmapUnshareFromSlave` where the refcnt can be decreased again, and there's no convenient common place where the refcnt can be decremented when the slave pixmap is destroyed.

Fix this by just unreffing the pixmap twice in `RRCrtcDetachScanoutPixmap`.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit da92690107d90061205340d4cde98b73b59db9b2
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Mon Feb 11 14:31:56 2013 -0800

`xf86`: use `nt_list_for_each_entry_safe` to walk `InputHandlers` in `xf86Wakeup`

This is necessary when the input handler deletes itself from the
list. Bug found by Maarten Lankhorst, this patch uses the list macros instead of open-coding the fix.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d0a14877872b6a33172fb8c8f335792a28b9499b
Author: Bryce Harrington <bryce@canonical.com>
Date:   Fri Feb 8 15:56:02 2013 -0800

xfree86: Man page shouldn't say Device is mandatory anymore

man xorg.conf states that the 'Device' identifier is required in the 'Screen' section, yet current xserver defaults properly and boots up fine without it.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=20742
Signed-off-by: Bryce Harrington <bryce@canonical.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5e91054aa070ea09b661325b7e479d767b02730e
Author: Bryce Harrington <bryce@canonical.com>
Date:   Fri Feb 8 15:56:01 2013 -0800

xfree86: Use fbdev/vesa driver on Oaktrail, Medfield, CDV rather than -intel

Instead of defaulting to -intel for Oaktrail, Medfield, and CDV chips, default to -fbdev. For Poulsbo (only), attempt to use -psb if it's installed, and fallback to fbdev otherwise. All other Intel chips should use -intel.

This fixed an issue where -intel would load on these chips and cause a boot failure. Newer -intel drivers avoid the boot hang, but it's still the wrong driver to load, so why take chances.

The patch was originally created by Stefan Dirsch for OpenSUSE. We have included it in our stable release (Ubuntu "quantal" 12.10) since December.

ref:  https://bugzilla.novell.com/show_bug.cgi?id=772279
ref:  https://bugs.launchpad.net/ubuntu/+bug/1069031
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=60514
Signed-off-by: Bryce Harrington <bryce@canonical.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c1602d1c17967bddd4db9db19b3a9c0dfca6a58aa
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Feb 5 07:46:06 2013 -0800
randr: bump advertised RandR version to 1.4

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9f79e93b6b3416055d08a0e8f9f16d5fd0649ec36
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 30 03:20:07 2013 +0000

Short-cut the input device cleanup process during AbortServer()

If we're about to abort, we're already in the signal handler and cannot call
down to the default device cleanup routines (which reset, free, alloc, and
do a bunch of other things).

Add a new DEVICE_ABORT mode to signal a driver's DeviceProc that it must
reset the hardware if needed but do nothing else. An actual HW reset is only
required for some drivers dealing with the HW directly.

This is largely backwards-compatible, hence the input ABI minor bump only.

Drivers we care about either return BadValue on a mode that's not
DEVICE_{[INIT|ON|OFF|CLOSE]} or print an error and return BadValue. Exception
here is vmmouse, which currently ignores it and would not reset anything.
This should be fixed if the reset is required.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b58221f9da8c549d979215271359c6cd88b5568a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 8 14:52:02 2013 +1000

dix: support the transformation matrix for relative devices.

The transformation matrix we previously stored was a scaled matrix based on
the axis ranges of the device. For relative movements, the scaling is not
required (or desired).

Store two separate matrices, one as requested by the client, one as the
product of [scale . matrix . inv_scale]. Depending on the type of movement,
apply the respective matrix.

For relative movements, also drop the translation component since it doesn't
really make sense to use that bit.

Input ABI 19

 Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
 Reviewed-by: Keith Packard <keithp@keithp.com>
 Signed-off-by: Keith Packard <keithp@keithp.com>

commit b173eb2ae3349c557db1ff9e424fa540b8289bb2
Author: Keith Packard <keithp@keithp.com>
Date:  Fri Feb 8 08:57:43 2013 -0800

os: Round fraction in pprintf %f format

Truncating the fraction part leads to a test failure where -1203.30 is
printed as -1203.29. Round this to the nearest value instead by adding
0.5 before converting to an integer

 Signed-off-by: Keith Packard <keithp@keithp.com>

commit 509b3c3dc82e7abce1900d5e1cddd90f23be5a87
Author: Carlos Garnacho <carlosg@gnome.org>
Date:  Wed Feb 6 14:07:22 2013 +0100

dix: Set focus field on XI2 crossing events

Set on DeviceEnterLeaveEvent() the xXIEnterEvent->focus field
similarly to how the CoreEnterLeaveEvent() function above does
for core events.

This fixes bug https://bugzilla.gnome.org/show_bug.cgi?id=677329
reported to GTK+, where focus handling on window managers with
sloppy focus or no window manager present was broken due to this
field being always set to FALSE.

 Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
 Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
 Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3e4be4033ade78b2bb3a18d51f0963989ef1af3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Fri Jan 25 11:47:32 2013 +1000

dix: when shutting down slave devices, shut down xtest devices last

XTest devices are the first ones in the list, being initialised together
with the master devices. If we disable the devices in-order and a device has
a button down when being disabled, the XTest device is checked for a
required button release (xkbAccessX.c's ProcessPointerEvent). This fails if the device is already NULL.

Instead of putting the check there, disable the devices in the reverse order they are initialised. Disable physical slaves first, then xtest devices, then the master devices.

Testcase: shut down server with a button still held down on a physical device

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0d5bb882600ee7734af034fbea935a79d21d1e70
Merge: b33fcb1497 61a99aff9d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 8 14:10:52 2013 +1000

Merge branch 'ptraccel-fixes' into for-keith

commit 61a99aff9d33728a0b67920254d2d4d79f80cf39
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 11 14:22:07 2013 +1000

dix: pre-scale relative events from abs devices to desktop ratio (#31636)

Absolute devices may send relative events depending on the mode (synaptics by default, wacom per option). The relative events are added to the previous position, converted into device coordinates and then scaled into desktop coordinates for pointer movement.

Because the device range must be mapped into the desktop coordinate range, this results in uneven scaling depending dimensions, e.g. on a setup with width == 2 * height, a relative movement of 10/10 in device coordinates results in a cursor movement of 20/10 (+ acceleration)

Other commonly user-visibility results:
* the touchpad changing acceleration once an external monitor as added.
* drawing a circle on a wacom tablet in relative mode gives an ellipsis in the same ratio as the desktop dimensions.

Solution: pre-scale the incoming relative x/y coordinates by width/height ratio of the total desktop size. Then add them to the previous coordinates and scale back with the previous mapping, which will undo the pre-scaling and give us the right movement.

X.Org Bug 31636 <http://bugs.freedesktop.org/show_bug.cgi?id=31636>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a6ba2b79ae8ad0fdee3f208d5e030b012df48785
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 11 08:53:24 2013 +1000

  dix: unify prefix for ptraccel debugging in DebugAccelF macro

  If we're already using our own custom macro, might as well use it properly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0d7d79406011169ad95e23c6e937f6d15a5ec3cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 11 08:52:08 2013 +1000

  dix: use BUG_RETURN_VAL for an error message

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a0c38ea6cbad61edcfefff0e5dd6330ed706f13
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 11 08:49:15 2013 +1000

  dix: add some more info to a ptraccel debug msg

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 95125a7c0cbbbae40216a0497acdd863dde645ed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 10 13:19:27 2013 +1000

  dix: fix ptraccel debugging printfs

  This is mostly sigsafe code, so use sigsave printf. And update some fields
to double that used to be int.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b33fb149710a28fd8767b2307a97bf367de695e
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date: Tue Jan 29 21:49:20 2013 +0100
xkb: Fix repeat behaviour of redirect and message actions

The redirect and the message action filter functions implicitly assumed that when they receive an event for the same keycode they were activated for, that this is the a release of the key that activated the filter. This is not true if the key autorepeats. Due to the incorrect assumption, the effective key repeat rate was effectively halved.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8571c648a79444bcee9a0fe6e395129116372f49
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Jan 26 15:53:08 2013 +1000

Xext: if a root window is given in XTestFakeInput, move to that

For absolute events, if the client specifies a screen number offset the coordinates by that. And add a new flag so we know when _not_ to add the screen offset in GPE.

Without this offset and the flag, GPE would simply add the offset of the current screen if POINTER_SCREEN is set.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9fd6cb89539fde44a41ae5183c89ef9c8831c8dd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 29 15:13:44 2013 +1000

Xext: pass the current screen to miProcessDeviceEvent() from xtest calls

Not passing in a screen means we skip the screen crossing updates, so a xtest event that changes between ScreenRecs won't do so until the next physical event comes in or never, whichever comes earlier.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a191dbfe850ed9c6440346f59cb0078e0e844edc
Author: Sybren van Elderen <sowmestno@msn.com>
Date:   Tue Jan 29 15:43:57 2013 +1000

dix: when scaling from desktop coord, take the total desktop size (#51904)

Scaled is already in desktop coordinates, take the total width into account,
not just the current screen's width.

Fixes Xdmx pointer position calculation.

X.Org Bug 51904 <http://bugs.freedesktop.org/show_bug.cgi?id=51904>

Signed-off-by: Sybren van Elderen <sowmestno@msn.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1cb19803f0f8df1d1e0fb9d189afe2262c24a0be5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 29 12:51:15 2013 +1000

include: fix typo in list description

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3d35dfcf5bad1b0a028fbed65cb6cf6ebf12503
Author: Ted Felix <ted@tedfelix.com>
Date:   Tue Jan 29 16:36:48 2013 +1000

xfree86: bail on misformed acpi strings (#73227)

If acpid sends a string in a format that we can't parse, bail out instead of potentially dereferencing a NULL-pointer.

X.Org Bug 73227 <http://bugs.freedesktop.org/show_bug.cgi?id=73227>

Signed-off-by: Ted Felix <ted@tedfelix.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fdc451588816c4bc798d54e56316530e9066be80
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 29 11:01:29 2013 +1000

Xi: limit valuator copy to valuator array size (#59939)

mask[(MAX_VALUATORS + 7)/8] is larger than data[MAX_VALUATORS], so static code checkers think we may be running OOB on the data array. Mask is initialized to 0, so this should not happen, but change it anyway to shut up code analyzer noise.

X.Org Bug 59939 <http://bugs.freedesktop.org/show_bug.cgi?id=59939>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit 48bc30c5413a1be0039fa77affcbb4fe677479f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:  Tue Jan 29 10:24:32 2013 +1000

XTest: avoid null-pointer dereference in XTestFakeInput (#59937)

dv is still NULL at this point, so return firstValuator instead (which is
the same value dv->firstValuator would be once initialized)

X.Org Bug 59937 <http://bugs.freedesktop.org/show_bug.cgi?id=59937>

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1058fcf57fdcb94d92e7b5f4483b347853d5f8e6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Sat Jan 26 14:13:33 2013 +1000

dmx: don't include dmx-config.h from xdmxconfig (#37502)

dmx-config.h is a server header which includes dix-config.h. That again
defines a bunch of server-specifics, including setting the size of XID to
32 bit.

libX11 uses unsigned long (8 bits on x86_64). XGCValues thus ends up being
16 bytes smaller in xdmxconfig than in the library, causing garbage to be
sent to the server.

X.Org Bug 37502 <http://bugs.freedesktop.org/show_bug.cgi?id=37502>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ac34281b8a487640c61f258ae45af17a4fb3cc0
Author: Dave Airlie <airlied@redhat.com>
Date:  Thu Feb 7 12:24:20 2013 +1000

modesetting: provide dummy hooks for shadow

Since in some weird cases the server can call these without checking they
exist.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 73974dd7ea9ca4d4cdd5464cb813088a6ee9770b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Avoid memory leak in ddc resort() if find_header() fails

Call find_header first, returning on failure before calling malloc.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b1129a1f1771c9d1653cc15aae94a61f081638a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 27 14:00:54 2013 -0800

xf86XvMCScreenInit: Avoid leak if dixRegisterPrivateKey fails

Found by parfait 1.1 memory analyser:
Memory leak of pointer 'pAdapt' allocated with malloc((88 * num_adaptors))
   at line 162 of hw/xfree86/common/xf86xvmc.c in function 'xf86XvMCScreenInit'.
   'pAdapt' allocated at line 158 with malloc((88 * num_adaptors)).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 563db909bcf965b6103c1807bf9f00ede957077d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 27 13:55:50 2013 -0800

Avoid memory leak on realloc failure in localRegisterFreeBoxCallback

Also avoids leaving invalid pointers in structures if realloc had to
move them elsewhere to make them larger.

Found by parfait 1.1 code analyzer:
Memory leak of pointer 'newCallbacks' allocated with realloc(((char*)offman->FreeBoxesUpdateCallback), (8 *(offman->NumCallbacks + 1))))
   at line 328 of hw/xfree86/common/xf86fbman.c in function 'localRegisterFreeBoxCallback'.
   'newCallbacks' allocated at line 320 with realloc(((char*)offman->FreeBoxesUpdateCallback), (8 *(offman->NumCallbacks + 1))).
   newCallbacks leaks when newCallbacks != NULL at line 327.
Memory leak of pointer 'newPrivates' allocated with realloc(((char*)offman->devPrivates), (8 *(offman->NumCallbacks + 1))))
   at line 328 of hw/xfree86/common/xf86fbman.c in function 'localRegisterFreeBoxCallback'.
   'newPrivates' allocated at line 324 with realloc(((char*)offman->devPrivates), (8 *(offman->NumCallbacks + 1)))).
   newPrivates leaks when newCallbacks == NULL at line 327.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Avoid NULL pointer dereference in xf86TokenToOptinfo if token not found

Reported by parfait 1.1 code analyzer:

Error: Null pointer dereference (CWE 476)
Read from null pointer 'p'
at line 746 of hw/xfree86/common/xf86Option.c in function 'xf86TokenToOptName'.
Function 'xf86TokenToOptinfo' may return constant 'NULL' at line 721, called at line 745.
Null pointer introduced at line 721 in function 'xf86TokenToOptinfo'.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Make xf86ValidateModes actually copy clock range list to screen pointer

Our in-house parfait 1.1 code analysis tool complained that every exit path from xf86ValidateModes() in hw/xfree86/common/xf86Mode.c leaks the storeClockRanges allocation made at line 1501 with XNFalloc.

Investigating, it seems that this code to copy the clock range list to the clockRanges list in the screen pointer is just plain insane, and according to git, has been since we first imported it from XFree86.

We start at line 1495 by walking the linked list from scrp->clockRanges until we find the end. But that was just a diversion, since we've found the end and immediately forgotten it, and thus at 1499 we know that storeClockRanges is NULL, but that's not a problem since we're going to immediately overwrite that value as the first thing in the loop.

So we move on through this loop at 1499, which takes us through the linked list from the clockRanges variable, and for every entry in that list allocates a new structure and copies cp to it. If we've not filled in the screen's clockRanges pointer yet, we set it to the first storeClockRanges we copied from cp. Otherwise, as best I can tell, we just drop it into memory and let it leak away, as parfait warned.

And then we hit the loop action, which if we haven't hit the end of the cp list, advances cp to the next item in the list, and then just
for the fun of it, also sets storeClockRanges to the ->next pointer it
has just copied from cp as well, even though it’s going to overwrite
it as the very first instruction in the loop body.

v2: rewritten using nt_list_* macros from Xorg's list.h header

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 89badba082e81d20fe35cb064c16e131ff288ca3
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 27 12:08:47 2013 -0800

Free keymap on error in Xephyr's hostx_load_keymap

Found by parfait 1.1 code analyser:
Memory leak of pointer 'keymap' allocated with XGetKeyboardMapping(HostX.dpy, min_keycode,
((max_keycode - min_keycode) + 1), &host_width)
   at line 861 of hw/kdrive/ephyr/hostx.c in function 'hostx_load_keymap'.
   'keymap' allocated at line 845 with XGetKeyboardMapping(HostX.dpy, min_keycode, ((max_keycode -
   min_keycode) + 1), &host_width).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 48b94651205b175760904e448f94111d1ab85e13
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Jan 27 11:20:45 2013 -0800

Stop leaking overlayWin in PanoramiXCompositeGetOverlayWindow error paths

Found by parfait 1.1 code analyzer:

Error: Memory leak (CWE 401)
Memory leak of pointer 'overlayWin' allocated with malloc(72)
at line 806 of composite/compext.c in function 'PanoramiXCompositeGetOverlayWindow'.
   pointer allocated at line 794 with malloc(72).
   <unknown> leaks when rc != 0 at line 804.
at line 816 of composite/compext.c in function 'PanoramiXCompositeGetOverlayWindow'.
   pointer allocated at line 794 with malloc(72).
   <unknown> leaks when pOc == NULL at line 815.
at line 825 of composite/compext.c in function 'PanoramiXCompositeGetOverlayWindow'.
   pointer allocated at line 794 with malloc(72).
   <unknown> leaks when cs->pOverlayWin == NULL at line 822
      and compCreateOverlayWindow(pScreen) == 0 at line 823.
at line 834 of composite/compext.c in function 'PanoramiXCompositeGetOverlayWindow'.
   pointer allocated at line 794 with malloc(72).
   <unknown> leaks when rc != 0 at line 832.
Handle failure to create counter in init_system_idle_counter

Check for NULL pointer (which can be returned for multiple reasons) before trying to dereference it to add privates. To avoid memory leak in error path, delay malloc of privates until we're ready to add them.

In case we do return NULL up through SyncInitDeviceIdleTime, handle the possibility of getting NULL passed back down to SyncRemoveDeviceIdleTime.

As reported by parfait 1.1:
Error: Null pointer dereference (CWE 476)
   Read from null pointer 'idle_time_counter'
      at line 2764 of xserver/Xext/sync.c in function 'init_system_idle_counter'.
      Function 'SyncCreateSystemCounter' may return constant 'NULL' at line 952, called at line 2756.
      Null pointer introduced at line 952 in function 'SyncCreateSystemCounter'.

protocol-versions: Bump minor version of XI

This was accidentally excluded when we added barriers.

config/udev: fix "removing GPU device" format string mistake

udev.c: In function 'device_removed':
   udev.c:270:9: warning: format '%d' expects argument of type 'int', but argument 3 has type 'const char *' [-Wformat]
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 605dfc6804a05ff2bda5692fec26c37344fd95cb
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Jan 22 07:39:53 2013 +1000

xserver: fix build regression since 91ab237358c6e33da854914d3de493a9cbea7637
inputstr, double defines TouchListener typedef, maybe some gcc handles it, but not all.

fixes tinderbox

Reported-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 069d8ed3eb659c48dd2b0f8b7b8c11f092fdb362
Merge: 591c06277b d6dcede7a03
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jan 20 15:58:38 2013 -0800

    Merge remote-tracking branch 'jturney/xserver-next'

commit 591c06277bb120ab9615633f2d28addbd3a2aa5f
Merge: 6703a7c7cf fa6ab7d9b2
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jan 20 15:52:26 2013 -0800

    Merge remote-tracking branch 'whot/for-keith'

commit cde7cbe9674e8a771f9a4e646c1772a46a8230fb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 10 13:20:12 2013 +1000

os: add support for %f to pnprintf

This is the lazy man's %f support. Print the decimal part of the number, then append a decimal point, then print the first two digits of the fractional part. So %f in sigsafe printing is really %.2f.

No boundary checks in place here.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 20def57632583ae095ca18792c7fcee16d2d9004
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 10 13:24:05 2013 +1000

    os: silently ignore length modifiers in pnprintf

    Until we have support for them, ignore any length modifiers so we don't need
    to update all callers.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>

commit f53b2012f39085d866f267dda1442a48ace3c5a5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 17 16:19:51 2013 +1000

    test/signal-logging: simplify tests using sprintf

    Ever looked at your own code and thought 'WTF was I thinking?': yeah, that.

    Instead of passing in the expected string just use sprintf to print the
    number for us and compare. In the end we're just trying to emulate printf
    behaviour anyway.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>

commit d6dce7a03bb38c17ffe4ec5f0ca1c161e54569f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Feb 11 12:22:17 2012 +0000

    hw/xwin: Stop assuming WS_EX_APPWINDOW style in WM_SHOWWINDOW

    Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 56e94403f8f9182e05428d895a983371c7737d2a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 9 20:15:01 2013 +0000

    hw/xwin: Use ITaskBarList interface to ensure show-on-taskbar state is updated correctly

    Use ITaskBarList interface to ensure that the taskbar notices if the window has
    changed it's style in a way which affects if the taskbar shows it or not.

    Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit c94d1cb0a49106f44714f4511720a197cc549164
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Jan 10 14:35:56 2013 +0000

 hw/xwin: Ensure full styling is applied when the window is mapped

 Move styling update code from WM_WM_HINTS_EVENT to a function UpdateStyle(),
 which is also invoked from WM_WM_MAP3, so everything which needs to be done
 to style the window happens when it is mapped

 (Otherwise, the appearance of the window is sensitive to the timing of the
 notification of the windows appearance hint properties being set relative to
 window creation. e.g. see [1])


 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ef61f8acc84080c9156675f9ce26a27e8a90ac1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Mar 31 18:45:28 2012 +0100

 hw/xwin: Make sure that WM_WM_HINTS_EVENT does nothing for override-redirect windows

 Future work: It looks like this code could be rationalized quite a lot: It might
 make sense to pull the checking for override-redirect up out of UpdateIcon() and
 UpdateName() and consolidate WM_WM_MAP2 and WM_WM_MAP3

 Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
 Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3628559e594fcbdfcc14b1e8fa60aa841f184e19
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Feb 5 11:25:39 2012 +0000

 hw/xwin: Add a new WM_WM_HINTS_EVENT event to update window style

 Add a new WM_WM_HINTS_EVENT event to update window style if any of the
 properties which affect window style change

 Check PropertyNotify events for any of the window properties which we consider
 to decide on the window style, and update the window style by sending a
 WM_WM_HINTS_EVENT message to the WM.

 This allows the styling of the window to change during it's lifetime.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34208

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 066ecbd11d516ea68d7ebe7470232d01c5717546
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Jan 10 14:37:45 2013 +0000

hw/xwin: Move reshape code from winUpdateWindowPosition() to the map event handler

Move reshape code, which was only used when handling a map event, from
winUpdateWindowPosition(), to put it explicitly in the map event handler.

Remove 'reshape' parameter from winUpdatePosition().

(Note that there's no handling of the ShapeNotify event to notice when the
window shape changes, instead we hook the screen SetShape procedure and reshape
the native window then)

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 852d1fb042f4160fe023a015f1e9a34126bf911a
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Sat Dec 1 16:58:40 2012 +0000

hw/xwin: Add missing include xwin-config.h to winglobals.h

winglobals.h checks if RELOCATE_PROJECTROOT is defined to see if a declaration
of g_fLogFileChanged is needed, so must include xwin-config.h

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ab686ce029208abf970a4bcd1435bf8411a44de9
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Wed Oct 26 17:03:25 2011 -0500

include: Add RELOCATE_PROJECTROOT to xwin-config.h header

RELOCATE_PROJECTROOT is AC_DEFINED in configure.ac, but currently has no effect
as it doesn't appear in any AC_CONFIG_HEADER header.

When packaged for Windows, we do not have a unix-style filesystem tree, where
file needed by the X server can be found in fixed, absolute paths under the
prefix (PROJECTROOT).

Instead, the filesystem tree containing files needed by the X server and clients
will be installed with the directory containing the X server executable as the root directory of that tree.

(Typically, this will be in the Program Files directory, which does not have a fixed name, as it can be moved, localized, or added to to indicate x86 or x64 binaries)

So, RELOCATE_PROJECTROOT is used to make a native Windows build of the X server look for various files (fonts, xkb data) in locations relative to the X server rather than at absolute paths, by translating those paths at run-time.

Additionally the XKEYSYMDB, XERRORDB, XLOCALEDIR env vars checked by libX11 are set appropriately for clients started by the X server.

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit fa6ab7d9b2d7fd8184f1e068360607845f5c33ab
Merge: adde4e64480315dc5b47a727ee37d86f5cd8584f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 11 14:58:17 2013 +1000

Merge branch 'pointer-emulation-fixes-56558-v2' into for-keith

commit adde4e64480315dc5b47a727ee37d86f5cd8584f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 10 10:33:05 2013 +1000

dix: typo fix in comment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 05ed095dd8d6cf939b4ebd9a59d70ce32705df7c
Author: Benjamin Tissoires <benjamin.tissoires@gmail.com>
Date: Wed Jan 9 19:32:19 2013 +0100

dix: fix error logging occuring in signal context of GetTouchEvents

GetTouchEvents is usually called in a signal context.
Calling ErrorF for the error messages leads to X complaining about log:

(EE) BUG: triggered 'if (inSignalContext)'
(EE) BUG: log.c:484 in LogVMessageVerb()
(EE) Warning: attempting to log data in a signal unsafe manner while in signal context.
Please update to check inSignalContext and/or use LogMessageVerbSigSafe() or ErrorFSigSafe().
The offending log format message is:
%: Attempted to start touch without x/y (driver bug)
Signed-off-by: Benjamin Tissoires <benjamin.tissoires@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f4a58469a298c226668fd8dce375bf22331c902d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 9 13:58:56 2013 +1000

xfree86: don't access the old input handler after freeing it

Introduced in 323869f3298cbbfe864af9404a8aed1bf7995d79

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 205cfbd6d9824fb9a67c21b19bc8f1e66c9df4d2
Author: Dave Airlie <airlied@gmail.com>
Date:   Sat Jan 5 18:35:42 2013 +1000

xf86: bump input ABI version to 19

The changes to miPointerGetPosition interface from int->double breaks the SIS driver build, so time to bump this.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ad3bc571348a7007a2960bf87ae739397c5511ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 8 11:19:09 2013 +1000

xfree86: update the device state for all DGA events (#59100)

DGA only handles master devices but it does intercept slave device events as well (since the event handlers are per event type, not per device).

The DGA code must thus call into UpdateDeviceState to reset the button/key state on the slave device before it discards the remainder of the event.

Test case:
- Passive GrabModeSync on VCP
- Press button
- Enable DGA after ButtonPress
- AllowEvents(SyncPointer)
- Release button

The button release is handled by DGAProcessPointerEvent but the device state
is never updated, so the slave ends up with the button permanently down.
And since the master's button state is the union of the slave states, the
master has the button permanently down.

X.Org Bug 59100 <http://bugs.freedesktop.org/show_bug.cgi?id=59100>

Reported-by: Steven Elliott <selliott4@austin.rr.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit c5f2818edbec2f87383baa6c6be5c389b73ca6f9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 8 10:13:53 2013 +1000

xfree86: set event->detail for DGA pointer events

Reported-by: Steven Elliott <selliott4@austin.rr.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 519d183d78e0b0eaf47a473e94f5d8611ba8463
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 7 10:44:33 2013 +1000

Fix two typos "requires an string value"

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4e13dd90144d9e47550acee4db4b4329e531279
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 22 10:34:07 2012 +1000

dix: don't filter RawEvents if the grab window is not the root window (#53897)

If a XI2.1+ client has a grab on a non-root window, it must still receive
raw events on the root window.

Test case: register for XI_ButtonPress on window and XI_RawMotion on root.
No raw events are received once the press activates an implicit grab on the
window.

X.Org Bug 53897 <http://bugs.freedesktop.org/show_bug.cgi?id=53897>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a2037d7080ae64ea55f7d76971716346aa3ec6d3
Author: Jon TURNLEY <jon.turney@dronencode.org.uk>
Date: Wed Nov 28 22:25:35 2012 +0000

hw/xwin: Fix MinGW build of winSetAppModelID.c

Add missing #include <pthread.h>

In file included from /jhbuild/checkout/xorg/xserver/hw/xwin/winSetAppModelID.c:31:0:
/jhbuild/checkout/xorg/xserver/hw/xwin/winwindow.h:140:11: error: expected declaration specifiers or ‘...’ before ‘pthread_t’
/jhbuild/checkout/xorg/xserver/hw/xwin/winwindow.h:141:11: error: expected declaration specifiers or ‘...’ before ‘pthread_t’
/jhbuild/checkout/xorg/xserver/hw/xwin/winwindow.h:142:11: error: expected declaration specifiers or ‘...’ before ‘pthread_mutex_t’

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f57100bb36eae3b4d75f3c315973405f705b8de6
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Tue Feb 23 13:38:48 2010 +0000

hw/xwin: Process one Windows message per wakeup, rather than all of them.

De-queuing Windows messages and X events happens in the same thread of execution. Draining the windows message queue can lead to the X event queue overflowing if lots of those windows messages cause X events (e.g. if a keyboard macro program has just dumped thousands of keypresses into the Windows message queue). See the mailing list thread [1] for more details.

Processing one Windows message per wakeup, rather than all of them gives the X server a chance to do stuff as well after each message.


Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e30e1ea998720acc583f34c830a1c1b7e3e88f694
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Dec 17 22:38:25 2012 +0000

hw/xwin: Fix some comments in winkeybd.c

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6f4a48f8a55bc54bd6d3e9d80734be05750c024de
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Apr 1 15:08:26 2010 +0100

hw/xwin: Bring the X screen window to the front on a single left-click on the tray icon

Bring the X screen window to the front on a single left click on the tray icon, like the comment says we do

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6703a7c7c7cf1a349c137e247a0c8eb462f7b07be
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jan 8 20:24:32 2013 -0800

hw/xfree86: Require only one working CRTC to start the server.

Instead of requiring every mode set to complete successfully, start up as long as at least one CRTC is working. This avoids failures when one or more CRTCs can't start due to mode setting conflicts.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 34a571c5b9781025897ba5e5c5e2a34ae5262266
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jan 9 13:04:00 2013 +1000

modesetting: bump to 0.6.0

commit 8650ff14a52047173fa32f12f22ec6f4e38ff433
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jan 9 12:48:30 2013 +1000

modesetting: fix crashes caused by udev race conditions

So the kernel removes the device, and the driver processes the first udev event, and gets no output back from the kernel, so it check and don't fall over.

This fixes a couple of crashes seen when hotplugging USB devices.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 0e1ab433f4048b3367bb2f01d16cd00502538e4d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 4 12:26:58 2013 +1000

dix: remove already-moved hunk
Should've been removed in bc1f90a615018c05994fae3e678dd2341256cd82a, but got left here due to a botched rebase.

Fixes stray button events sent to clients after deactivating an async pointer grab on a pointer-emulating-touch.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 32a6d8a6b59c42f8d65002d7ca1cafb1957b656f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 20 16:25:43 2012 +1000

dix: check for the right device's xi2 mask

events.c: In function 'DeactivatePointerGrab':
  events.c:1524:51: warning: 'dev' may be used uninitialized in this function
  [-Wuninitialized

  dev is unset when we get here, the device to check is "mouse".
  Introduced in ece8157a59751b3ed492fb2e1eb8d5f20221e195.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit f59499b5d05fde83813709e9848152951592120d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 30 12:44:08 2012 +1000

dix: add resource type to touch listeners

Instead of guessing what resource type the listener is and what property to retrieve, store the resource type in the listener directly.

Breaks XIT test cases:
  TouchGrabTestMultipleTaps.PassiveGrabPointerEmulationMultipleTouchesFastSuccession

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=56557

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Chase Douglas <chase.douglas@ubuntu.com>

commit 9ad0fdb135a1c336771aee1f6eab75a6ad874aff
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 27 11:21:17 2012 -0800
input: Record grab pointer in TouchListener

This places a pointer to the grab related to a TouchListener directly in the TouchListener structure rather than hoping to find the grab later on using the resource ID.

Passive grabs have resource ID in the resource DB so they can be removed when a client exits, and those resource IDs get copied when activated, but implicit grabs are constructed on-the-fly and have no resource DB entry.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 91ab237358c6e333da854914d3de493a9cbea7637
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 27 11:21:16 2012 -0800

input: Pull TouchListener declaration to top-level

No reason to have a struct declared inside another struct

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3578cc3c2e1b5cb8eb191e2d12ad88e1bc9e6e1e
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date:   Wed Dec 19 18:13:21 2012 +0100

xkb: Do not use base group as an array index.

The base group is not brought into range and, therefore, using it as an array index crashed the X server. Also, at this place, we should ignore locked groups, but not latched groups. Therefore, use sum of base and latched groups, brought into range.

Reproducible with:
key <FK07> { 
    type= "ONE_LEVEL",
    symbols[Group1]= [ NoSymbol ],
    actions[Group1]= [ LatchGroup(group=-1, clearLocks) ]
};

And hitting F7 will exceed the group level and access arbitrary memory.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
render: Unwrap early on the animated cursor BlockHandler

The loop above the previous call may end up triggering other handlers attaching to the same function slot, so unwrapping the handler after that could leave the just attached handler in a dangling but not unset state.

This issue was most visible on the XO, where destroying a window with an animated cursor set and running would trigger this inconsistent state, never calling the miSpriteBlockHandler again after the animated cursor is unset.

mi: Ensure pointer emulating touch events update the sprite

Different miPointerSpriteFuncRec implementations do a varying business at ultimately calling miPointerUpdateSprite(), this particularly fails when using the plain mi sprite on touch events, where the sprite is just moved/updated on cursor changes.

So, ensure miPointerUpdateSprite() is called generically for pointer emulating touch events as with regular motion events.

dix: Make small bitfields that store enums unsigned

Commit 31bf81772e146af79b0c456aae2159eba8b0280f changed the clientState field
from a signed int to a signed int 2-bit bitfield. The ClientState enum that is expected to be assigned to this field has four values: ClientStateInitial (0), ClientStateRunning (1), ClientStateRetained (2), and ClientStateGone (3). However, because this bitfield is signed, ClientStateRetained becomes -2 when assigned, and ClientStateGone becomes -1. This causes warnings:

```
    test.c:54:10: error: case label value exceeds maximum value for type [-Werror]
    test.c:55:10: error: case label value exceeds maximum value for type [-Werror]
```

The code here is a switch statement:

```
      switch (client->clientState) {
      case ClientStateGone:
      case ClientStateRetained:
          [...]  
      break;
      default:
          [...]  
      break;
      }
```

It also causes bizarre problems like this:

```plaintext
    client->clientState = ClientStateGone;
    assert(client->clientState == ClientStateGone); // this assert fails
```

Also change the signedness of nearby bitfields to match.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Colin Harrison <colin.harrison at virgin.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8f4820be7a2e0f6e286ddc85c4b75bcddbe8a730
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 20 12:44:16 2012 +1000

test/xi2: fix compiler warning

```
    protocol-xiwarppointer.c: In function 'ScreenSetCursorPosition':
    protocol-xiwarppointer.c:71:53: warning: declaration of `screen' shadows a global declaration [-Wshadow]
```

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bd91b05b631f13afdd17a9d6cbe40c5408b523a
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 19 12:47:35 2012 -0800

Update to version 1.13.99.901 (1.14 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2a0b544f5e09f79e4ab04ea8103a5ecf59ee2e7b
Merge: 0eb1559eb2 ba4bb3bc1b
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 19 12:26:00 2012 -0800

Merge remote-tracking branch 'jeremyhu/master'

commit 0eb1559eb29d11e63c2b33e317590a88d86fe313
Merge: 386e4d76ba ea1d76d1b6
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 19 12:21:31 2012 -0800

Merge remote-tracking branch 'yselkowitz/master'

I checked this patch with diff -w to check that it only affected whitespace.

commit 386e4d76baaffe226d2d561ff936509454eb0ac2
Merge: 014a5c8a9d 9ff2e83151
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 19 12:17:59 2012 -0800

Merge remote-tracking branch 'alanc/master'

commit 014a5c8a9d86f2f992183bff9106354fac2c3b0e
Merge: f793b5fd3e 2eefa5d6e8
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 19 12:09:31 2012 -0800

Merge remote-tracking branch 'whot/barriers'

Conflicts:
  Xi/xichangehierarchy.c

Small conflict with the patch from

  Xi: don't use devices after removing them

Was easily resolved by hand.

Signed-off-by: Keith Packard <keithp@keithp.com>
commit 9ff2e831517875f96477862f9979abff39e8d551
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Dec 18 00:41:08 2012 -0800

EnableDisableExtensionError: Use ARRAY_SIZE rather than sentinel
d785368e0e converted the other miinitext functions to use ARRAY_SIZE, and removed the sentinel, but missed EnableDisableExtensionError so passing an invalid extension name could cause the server to walk off the end off the list looking for a sentinel that wasn't there.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ba4bb3bc1b87eb57cc34d2ad1f302e9d2a15c847
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Tue Dec 18 01:29:12 2012 -0800

XQuartz: Don't add the 15bit visual any more

Mountain Lion only supports 32bit backing stores, so don't use 15bit visuals until libXplugin adapts

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit c298f9c42ec05486ac88fc91a84739d7c3e3ea9e
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Tue Dec 18 01:28:02 2012 -0800

XQuartz: Revert some unfortunate auto-indenting mishaps with our super-nested for-loops

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 07a91fa6c6d535f3f05d4c3bd9e4d28c382c475
Author: Rob Clark <robdclark@gmail.com>
Date: Wed Dec 5 23:21:27 2012 +0000

hw/dmx: fix build without GLX

Fixes this compile break that showed up on arm recently:
dmxinit.c:746:26: error: 'glxSupported' undeclared (first use in this function)
dmxinit.c:746:26: note: each undeclared identifier is reported only once for each function it appears in

Signed-off-by: Rob Clark <robdclark@gmail.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 5692a1e8f5befd3698134b1a5516a4dadda00115
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Support compilers with alternate spellings of typeof

The AC_C_TYPEOF adds a #undef typeof to its autogenerated config.h.in
template, but b8ab93d6fc7f292 didn't copy that to dix-config.h.in
when HAVE_TYPEOF was, so the macro could claim typeof support but not
make it work, when used with compilers like Solaris Studio 12.1 which
only recognize it as __typeof__.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f793b5fd3eb16a2ada130367c2ffebeede69a322
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 11 13:36:02 2012 +1000

dix: don't copy the wrong event mask when activating a passive grab

GrabMask is a union of core, XI1 and XI2 masks. If a XI2 grab is activated,
the value is a random pointer value, using it as mask has unpredictable
effects.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit dd3242c87a0a58cb055eb99c0e3cf03153e4b8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 14 11:34:15 2012 +1000

dix: don't allow overriding a grab with a different type of grab (#58255)

If a client has a core grab, don't allow re-grabbing with type XI2, etc.
This was the intent of the original commit
xorg-server-1.5.99.1-782-g09f9a86, but ineffective.

X.Org Bug 58255 <http://bugs.freedesktop.org/show_bug.cgi?id=58255>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2eeefa5d6e870c57ac6a5930883d8cfe3a3882a43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 13 14:42:32 2012 +1000

Xi: if a MD is removed, send a barrier leave event (if applicable)
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit e2423b627ef7e4d08ea0685af5e771ddd2b511ce
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 13 14:04:13 2012 +1000

Xi: don't store the window pointer in barriers, store the window ID

When a client shuts down and resources are being freed, the window may have been freed already, so accessing it to get the window ID is bad. Plus, we never care about the window anyway other than for stuffing it into the event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit f71c2f895c9e2f9d0d42feaac2a3e1d2deb71f67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 12 15:41:32 2012 +1000

Xi: fix per-device barrier handling

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 58bff17e43a80eb21b3ff6d4bb1596230e61f707
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 13 11:49:54 2012 +1000

Xi: don't use devices after removing them

RemoveDevice() frees the DeviceIntPtr, we shouldn't use the pointer after that

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3420a7778c7d5ea638327f31dd460554e257bb1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 12 11:02:19 2012 +1000

xfree86: print message to the log when zapping the server

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 6d508b81857edaed03c7ee06410434ea56d9b701
Merge: d982d87743 bb6f3514ca
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 17 11:45:45 2012 -0800

    Merge remote-tracking branch 'whot/for-keith'

    I've looked at these patches, but I can't say I've actually
    reviewed them...

commit d982d877436377597b8ed04bca1438d2edaf53ee
Merge: da3eaf6bdb 6b4aa8a359
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 17 10:56:12 2012 -0800

    Merge remote-tracking branch 'airlied/for-keithp'

commit da3eaf6bdbd7ce3bebf2c490cbe2448b4c402dba
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Dec 17 15:40:17 2012 +1000

        glx/dri2: initialise api to avoid indirect rendering failing randomly

        Running glxinfo under indirect rendering would randomly fail against the
        intel driver, as it would create a context with no attribs, and then the
        api value would be passed to the driver uninitialised.

        Signed-off-by: Dave Airlie <airlied@redhat.com>
        Reviewed-by: Keith Packard <keithp@keithp.com>
        Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
        Signed-off-by: Keith Packard <keithp@keithp.com>

commit cc10ac8f0e07854647e1fd7cc70b7e9f8d919fd1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 10 11:00:46 2012 +1000

        Xi: fix swapping for barrier events

        Protocol events don't contain pointers, so it's easier to copy everything
        over, then swap in-place.

        Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
        Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 151d44149a09dd125e25b3d94f22a609f0221548
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 10 10:53:49 2012 +1000
Xi: swap sequence number and evtype in barrier events

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit d4065493b211e90b46f9d4178f23f347af8d8043f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 10 11:02:32 2012 +1000

tests/xi2: at protocol conversion test for barrier events

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 938187f2fe00e6a67677df26d5b06999b54b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 7 15:55:59 2012 +1000

  Require inputproto 2.2.99.1

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 78376a9217058aa66e52a0399fc2be469d70ce32
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 7 09:26:13 2012 +1000

  mi: rename mipointer's internal event list

  Avoid name shadowing warnings, change the event list to a more specific
  name.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 88a2c8c37cac4e171f9bfc020017d6fa66ae417
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 7 09:11:13 2012 +1000

  Xi: if the device is currently grabbed, flag the barrier event

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 353aa515922e1095047161ecc47a272272218f20
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 6 15:09:27 2012 +1000
Xi: deliver barrier events as grabbed events where necessary

If the grab_window is the barrier window and the client owns the grab, deliver as normal grabbed event (respecting owner_events). Otherwise, deliver as usual.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 3b161401700a2d916da0f81f99b39e75fdbe78df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 6 14:13:26 2012 +1000

dix: ignore barrier events in FixUpEventFromWindow

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit a1eeb6f8e0bd9665a9158b27c273e83b3ab351
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 6 13:25:29 2012 +1000

dix: handle barrier events properly when converting to core/XI 1.x

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit 1b83775f6712a7e48c49a3411a87103e8e906e67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 6 12:39:04 2012 +1000

dix: skip delivery if it's not the right pointer barrier client

Only deliver to the client that created the barrier, not to other clients.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>

commit c50db6faba4ee1c27b735c6e9c98a4276ba3c7ff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 6 12:58:55 2012 +1000

Xi: fill in barrier root x/y after clamping to RandR outputs

x/y for barrier events should contain the actual pointer position.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jasper St. Pierre <jstpierre@mecheye.net>
Pass the event list through to the pointer barrier code to return it

Instead of having the pointer barrier code enqueue events separately from GetPointerEvents, pass the event list through and let it add to it.

Barriers: Support line and ray barriers

This allows clients to add barriers that extend to the edge of the screen. Clients are encouraged to use these instead of precise coordinates in these cases to help prevent pointer leaks.

Barriers: Replace complex intersection test with simpler math

Since barriers are axis-aligned, we can do the intersection test with simple interpolation rather than line-segment intersection. This also helps us out in the future when we want the barriers to extend to be rays and lines rather than just segments.

Barriers: Send an XI_BarrierLeave event when a barrier is destroyed

This ensures that we always complete an event sequence.
barriers: Clean up code

Rename a variable. This is to make the diff in the next commit cleaner.

barriers: Send a BarrierLeave event when we leave the hitbox

Additionally, add flags when the pointer is released.

barriers: Increment event ID on hit box leave

We eventually want to send a new notify event on hitbox leave, which signifies the dawn of a new barrier event ID, so it's convenient if we can put the code here.

barriers: Add a couple pixels of elbow room for the hit detection

Pointers (and the hands that drive them) aren't very precise, and the slightest amount of nudging to either side might be enough to reset the event ID, making clients think they have an entirely new hit. Allow for a slightly bigger "hit box" before these barriers get reset.
barriers: Add support for edge cases when releasing barriers

If we release a barrier, we want to ensure that we block all other barriers afterwards, rather than capping the limit to the two nearest barriers.

barriers: Don't allow releasing the pointer on other client's barriers

barriers: Don't allow destroying other client's barriers

Add support for XI2.3: Pointer barrier events and releases.

This adds support for clients that would like to get a notification every time a barrier is hit, and allows clients to temporarily release a barrier so that pointers can go through them, without having to destroy and recreate barriers.

Based on work by Chris Halse Rogers <chris.halse.rogers@canonical.com>
barriers: Reindent the constrainment hook

This is to make future diffs much cleaner. Best viewed with -w.

barriers: Switch to finding the nearest barrier client

When we add events, we eventually want to add more state to the PointerBarrierClient, so return one of these instead of the dummy public structure that's not very interesting.

barriers: Switch to an explicit hook for barrier constrainment

Rather than riding on the ConstrainCursorHarder hook, which has several issues, move to an explicit hook, which will help us with some RANDR interaction issues.

barriers: Don't loop over the server to destroy a barrier

This is completely pointless as far as I can tell.
cursor: Move pointer barrier code over to XI

In order to send events to specific windows associated with the barrier, we need to move the code that handles barriers to somewhere where it's easier to construct and send events. Rather than duplicating XSync with its XSyncSelectAlarm, re-use the existing XI infrastructure.

For now, just move a bunch of code over, rename some things, and initialize the new structures, but still consider it a separate codebase. Pointer barrier requests are still handled by XFixes, so this is a weird intermediate state. It's unknown whether we'll add explicit requests to pointer barriers inside XI.

Xi: fix touch event selection conflicts (#57301)

There are limits on which client may select for touch events on a given window, with restrictions being that no two clients can select on the same device, but narrower selections are allowed, i.e. if one client has XIAllDevices, a second client may still select for device X.
The current code had a dependency on which client selected first and which device, resulting in inconsistencies when selecting for events. Fix that, responding with the right errors regardless of who selected what first.

X.Org Bug 57301 [http://bugs.freedesktop.org/show_bug.cgi?id=57301]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7c97d37ef0d14ec97869082dec049637cfe7a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 20 11:38:39 2012 +1000

dix: split xi2_mask_isset into a per-device function

For touch selection conflicts, we need to check not only if the mask is set for the device, but if it is set for only that specific device (regardless of XIAll*Devices)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08da994a08bb74a5ae81176e56f52b525d0439274b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Nov 26 12:33:29 2012 +1000

dix: add FIXME, TouchRemovePointerGrab does nothing

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00def5144557cfe8bf535f926212a8e084dc7c6f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Nov 26 14:55:13 2012 +1000

Xi: if a TouchEnd appears on a actively grabbing client, always accept

Once the TouchEnd appears on the device, the touch is done. If the client still has a pointer grab, accept it to avoid clients with TouchOwnership selections to wait indefinitely for the actual touch event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ece8157a59751b3ed492fb2e1eb8d5f20221e195
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Nov 26 15:14:19 2012 +1000

dix: when deactivating pointer-only grabs, don't emulate TouchEnd events

A client with a pointer grab on a touch device must reject the touch when
detacti\ing the grab while the touch is active. However, such a rejecting must not trigger a ButtonRelease event to be emulated and sent to the client.

Set the grabbing listener's state to HAS_END, so we simply skip delivery to that client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc1f90a615018c05994fae3e678dd2341256cd82
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Nov 26 12:23:54 2012 +1000

dix: only reject active grabs on ungrab and do it before actually ungrabbing

An active grab ungrabbing is the same as rejecting the grab, since the client is no longer interested in those events. So reject any touch grab, but do so before actually deactivating since we're interested in the TouchEnd for the current grabbing client.

A passive grab otoh is _not_ like rejecting a grab, since it deactivates automatically when the touch ends.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 146f48c2934fc85ec095496da5c8f0102bc7f5b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 22 13:49:34 2012 +1000

dix: don't call ProcessInputEvents() when accepting/rejecting touches

TouchListenerAcceptReject may be called during normal event processing, but ProcessInputEvents is not reentrant and calling it here smashes the event queue.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ead21f9426122536adfb4787ac181008ae83cd4b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Nov 19 16:16:10 2012 +1000

Xi: fix typo "mechansims" "mechanisms"

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6b4aa8a359822cc70666de3b18744f05dd9b5f45
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Dec 12 12:56:46 2012 +1000
Revert "xf86: Fix non-PCI configuration-less setups"

This reverts commit 76d9c62eb2be2010a19bf36285012d086cdd180b.

This breaks multi-GPU setups here, so lets drop it for now.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 785af88ab0120036e0ce3d0139f3c560ff71e10b
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Sep 26 16:16:40 2012 +1000
dri1: fix dri1 startup since 459c6da0f907ba33d733c7e62a116184ba2f14e5

This commit regresses dri1 since it moves the drmSetServerInfo from being called at module load time to extension init time. However DRIScreenInit relies on this being called before it gets control.

This patches moves the call into DRIScreenInit and seems to work here.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 36740d02b9ca117f1404e077367fbbbe271a17d6
Author: Daniel Martin <consume.noise@gmail.com>
Date: Fri Dec 7 19:38:55 2012 +0100
xfixes: Fix minor number in QueryVersion

Due to a typo the major version number was passed as minor version to version_compare().

Regression-from: ffd4874798ba54f86acac75779a15b4babeaa5f3

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b34cfd27b9ef46e1dd477219cbb90e36d5609e3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 3 11:39:08 2012 +1000
include: fix comment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ea1d76d1b68c7cbcedcaa1f967c5027e0cc1c7a2
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Mon Nov 5 23:50:58 2012 -0600
Fix formatting of address operators

The formatter confused address operators preceded by casts with
bitwise-and expressions, placing spaces on either side of both.
That syntax isn't used by ordinary address operators, however,
so fix them for consistency.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5daa442fe15d9a87112a2def673c99a5f2506dcf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 4 15:28:14 2012 +1000

  xkb: only post a XTest release if the XTest device has the button down

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c4fee9d2ecdfdd4c055b04e9f02b23f10f2938b8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 4 15:03:37 2012 +1000

  xkb: always post XTest button up when the physical button released (#28808)

Regression introduced by commit 2decff6393a44b56d80d53570718f95354fde454
  xkb: ProcesssPointerEvent must work on the VCP if it gets the VCP

  XTest buttons must be released when a physical button is released. This was
  fixed in 14327858391ebe929b806efb53ad79e789361883, but
  2decff6393a44b56d80d53570718f95354fde454 changed a condition that this code
didn't get triggered anymore.

  "dev" for pointer events is now always the VCP which doesn't have a xkbi
  struct. So move this condition out and always trigger the XTest released for
  button events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Frank Roscher <Frank-Roscher@gmx.net>

commit b51a1bd2766e7de975ca8f1cacc3f8bd0e1a68a3
Merge: e9ea6d6a8ce6b652929
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 30 09:31:46 2012 -0800

  Merge remote-tracking branch 'whot/for-keith'

commit e9ea6d6a88f197928c82b008953f1810de6f792
Author: Dave Airlie <airlied@gmail.com>
Date: Fri Nov 30 20:54:38 2012 +1000

randr: call RRProviderInit in the proper place.

No idea where this got lost across development cycles, but its definitely missing.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=57448

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ce6b6529290f7d42717aad3f8a83aaaaf8962de
Merge: 6e18599d69 3b9f1c7017
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Nov 29 14:49:22 2012 +1000

Merge branch 'high-resolution-touch-devices' into for-keith

commit 6e18599d691036eca6ff082c17727d9fbb92b984
Author: Sybren van Elderen <sowmestno@msn.com>
Date: Tue Nov 27 19:27:10 2012 +0100

hw/dmx: add update_desktop_dimensions() call

The Xdmx server did not update the desktop dimensions when computing screen origins.

Signed-off-by: Sybren van Elderen <sowmestno@msn.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 59d70b30e93f8be93db9e87342353f7e4419811
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Nov 23 10:05:02 2012 +1000

dix: use pixman for fp1616 conversions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Søren Sandmann <ssp@redhat.com>

commit 2c4388a00ec308bc2d48ba751ff510cd5c1b2384
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 26 10:30:35 2012 +1000

xkb: fill in keycode and event type for slow keys enablement
eventType is set for the type that triggered a XkbControlsNotify event. Technically, SlowKeys is triggered by a timer which doesn't have a matching core event type. So we used to use 0 here.

Practically, the timer is triggered by a key press + hold and cancelled when the key is released before the timeout expires. So we might as well set KeyPress (keycode) in the ControlsNotify to give clients a chance to differ between timer-triggered SlowKeys and client-triggered ones.

This is a chance in behaviour, though I suspect with little impact.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

When resetting device idle time, reset XIAll(Master)Devices too (#56649)

When the screen saver is forcibly deactivated, the idle time counter is reset for all devices but not for the fake XIAllDevices and XIAllMasterDevices. XScreenSaverQueryInfo uses XIAllDevices to fill the "idle" field, thus returning the wrong value.

Regression introduced in
commit 6aef209ebc2e54f5465da505a780f7b4cc273ee0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 12 13:51:02 2012 +1000

Change lastDeviceIdleTime to be per-device

X.Org Bug 56649 <http://bugs.freedesktop.org/show_bug.cgi?id=56649>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Giacomo Perale <ghepeu@virgilio.it>
Reviewed-by: Keith Packard <keithp@keithp.com>

cursor: Revise edge cases for the pointer moving towards barriers

Since barriers block the invisible line between pixels, that means that we need to explicitly check the boundaries, or else we’ll have a potential off-by-one error. This fixes issues when trying to move
down or right across a barrier and having the pointer visibly bounce.

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0b198248ecfbc7e7c61688145be4005366da23d
Author: Thierry Reding <thierry.reding@avionic-design.de>
Date:   Thu Nov 8 14:28:10 2012 +0100

Remove call to miInitializeBackingStore()

Recent versions of the X server no longer provide this function, which
has been obsolete for over 2 years now.

Signed-off-by: Thierry Reding <thierry.reding@avionic-design.de>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 739d6c067a9167226ce248aa82997bfc2cca7259
Author: Thierry Reding <thierry.reding@avionic-design.de>
Date:   Thu Nov 8 14:28:09 2012 +0100

build: Put m4 macros in m4 subdirectory

This silences a warning from libtoolize when running the autogen.sh
script.

Signed-off-by: Thierry Reding <thierry.reding@avionic-design.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 1712a45422a63f11b2146541279616fcfda09ec6
Merge: e54f71a2c7 338bec3005
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 28 07:54:13 2012 -0800

Merge remote-tracking branch 'jturney/mingw-patches'

commit 338bec30054bb5d41cb66f5b5d37439f3c8124cad
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Fri Nov 9 12:19:31 2012 -0600

hw/xwin: Fix for MinGW-w64 DirectDraw headers

mingw-w64 headers handle NONAMELESSUNION earlier than mingw.org's, so it must be
defined before including any headers. It also provides a ddraw.h, so use it.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
dix/dispatch.c, os/utils.c: Disable smart scheduler on WIN32

setitimer() and SIGALRM aren't available on WIN32, so smart scheduler
code cannot be built. Provide only stubs for smart scheduler timer
code, and disable smart scheduler by default.

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Tested-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

os/osinit.c: no getpgrp() and setpgrp() on WIN32

MinGW doesn't have kill(), so use raise() instead

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Keith Packard <keithp@keithp.com>

os/utils.c: Fix compilation of OsBlockSIGIO when SIGIO isn't defined

Fix compilation of OsBlockSIGIO with -Werror=return-type when SIGIO isn't
defined.

/jhbuild/checkout/xorg/xserver/os/utils.c: In function 'OsBlockSIGIO':
/jhbuild/checkout/xorg/xserver/os/utils.c:1248:1: error: control reaches end of non-void function [-Wreturn-type]

v2: Shuffle around to avoid writing unreachable code

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Tested-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8e2bac0a69173b51e17a39d70e1d154b47fd0139
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date: Fri Apr 20 13:46:21 2012 +0100

os/osinit.c, os/utils.c: Exclude sigaction code when building for MinGW

MinGW doesn't have sigaction, so this patch is needed for building.

No attempt is made to actually install the fatal error signal handler, as MinGW
will simply terminate the process rather than deliver a fatal signal.

Also avoid using strsignal

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Tested-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e54f71a2c7a1677a5c5032d1e7dc099d5204144b
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Sat Nov 10 10:26:08 2012 +0000

xf86: select a fake output for headless servers

Following commit 37d956e3ac9513b74078882df489f9b0a7a5a28
Author: Keith Packard <keithp@keithp.com>
Date: Mon Sep 10 11:14:20 2012 +1000

xf86: fix compat output selection for no output GPUs

headless servers can no longer startup as we no longer select a compat
output for the fake framebuffer.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=56343
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
xf86: Fix non-PCI configuration-less setups

For non-PCI video devices, such as those found on many ARM embedded systems, the X server currently requires the BusID option to specify the full path to the DRM device's sysfs node in order to properly match it against the probed platform devices.

In order to allow X to start up properly if either the BusID option was omitted or no configuration is present at all, the first video device is used by default.

Signed-off-by: Thierry Reding <thierry.reging@avionic-design.de>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d50a94568e06a06df682a0028579d37a7b209d15
Merge: 87b60efb85 cf05db8dde
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 27 15:14:26 2012 -0800

Merge remote-tracking branch 'daniels/master'

commit 87b60efb859d86fd9e96306112bc5453a549fa69
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Sep 2 22:39:32 2012 +0100

hw/xwin: Don't spam MotionNotify events when the mouse hasn't moved

Don't spam MotionNotify events when the mouse hasn't moved, when polling the mouse position outside any X window

(Test with 'xev -root' after mouse polling has started.)

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEny <jon.turney@dronecode.org.uk>

commit 886f4c389266bf759414f15a5e25e50b5935dc9d
Author: Jon TURNEny <jon.turney@dronecode.org.uk>
Date:   Mon Jun 25 15:58:21 2012 +0100

hw/xwin: Don't log all fbConfigs and GL/WGL extensions

Don't log all fbConfigs and GL/WGL extensions, unless verbose logging
Log the number of pixelFormats which gave rise to the fbConfigs

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9b10f20f472e6b0d6114fb61e88906e349e47f2b
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 10 13:36:46 2012 +0000

hw/xwin: Use pre-computed extent of damage for creating GDI region

When -clipupdates option is specified, use the pre-computed extent of damage, rather than computing a GDI region which combines all the individual boxes in the damage.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3ab95a2a5c848e8ce4c39be243fd5e2ac6bb1c1a
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 24 15:32:26 2012 +0000

hw/xwin: Ensure we own the clipboard before checking the format of it's contents

Ensure we own the clipboard before checking the format of it's contents, this prevents the contents from changing underneath us.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a4f357c620ae9e2270316197a61fb8e1d5183a51
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Mon Apr 9 15:48:08 2012 +0100

hw/xwin: Disable minimize button on window with skip-taskbar state

If a window has had its taskbar button removed, disable its minimize button to prevent it becoming lost

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit a2983452ee1e2051ab54cded7a3a7735be020db6
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jul 8 17:48:03 2009 +0100

hw/xwin: Process _NET_WM_STATE_SKIP_TASKBAR hint in multiwindow mode.
Set WS_EX_TOOLWINDOW style to hide window from Alt-Tab switcher

Use ITaskBarList interface to ensure that the taskbar notices if the window has changed it's style in a way which affects if the taskbar shows it or not

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit de759cc38ccc8a7811923eb9620f01301aedc10e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Feb 5 17:57:04 2012 +0000

hw/xwin: Add a simple interface to the ITaskbarList COM interface

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 19d875187a113ca7772a770767ea2ceb2ade5a43
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 4 17:40:14 2012 +0000

hw/xwin: Enable RANDR resize by default

Also fix erroneous use of `--resize` not `--resize`, and document `-noresize` in man page

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 444580673221bf3f89df9ca3518b5ed4ecabc23
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sat Dec 31 22:11:18 2011 -0600

hw/xwin: Enable AIGLX by default

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 11bb32e561b3f1c657a99b3902f9beea786babbb
Author: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Date: Sun Jan 8 20:30:02 2012 +0000

hw/xwin: Restore non-latching modifier key state when an X window gains focus

In multiwindow mode, the state of the modifier keys was lost when a window is created (or raised) and focus moved to that window.
For example: In window A Ctrl + some key opens a window B, then in window B Ctrl + some other key triggers the next action. However after the opening of window B the Ctrl key has to be released and pressed again. If the user keeps the Ctrl key held down when the window B is opened, the next key press X will be interpreted as X and not as Ctrl+X.

Extended the function winRestoreModeKeyStates in winkeybd.c to consider not only the latching modifier keys but also the modifiers Ctrl, Shift, Alt/AltGr by using the Windows function GetAsyncKeyState.

A combined Ctrl+AltGr modifier state cannot be restored correctly, as Windows always fakes a Ctrl-L when AltGr is pressed.

Signed-off-by: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 47291d0b7d7bfee74156f83badae15a0818c68ad
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Nov 5 14:54:51 2012 +0000

hw/xwin: Give our logical xor operator a more logical name

Also, rather than a comment about why we need a logical operator, let's have a comment about what we are doing to the keyboard state...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8aa27ae82109e4fab0ff3ed86ad1d152438a2585
Author: Tobias Häußler <tobias.haeussler@gmx.de>
Date:   Mon Jul 18 14:48:23 2011 +0100

hw/xwin: Add correct taskbar grouping of X windows on Windows 7

I created a small patch for XWin that adds correct grouping of taskbar icons when 'Always combine, hide labels' is set in the taskbar properties. It uses the new taskbar APIs introduced in Windows 7 to set an application id for each window. The id is based on the X11 class hints.

v2: Add file to _SOURCES to fix distcheck

v3 : Fix compilation with mingw-w64 w32api headers
Include propkey.h, propsys.h rather than defining necessary stuff ourselves

v4: Fix up names taskbar->propertystore, AppID->AppUserModelID, etc.
Link directly with ole32 for PropVariantClear(), prototyping it if neccessary.
v5: Put winSetAppUserModelID()-related code in a separate file. Drop a superfluous assign to hr of ignored HRESULT of SetValue()

Signed-off-by: Tobias Häußler <tobias.haeussler@gmx.de>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f3ae7f9561d2723da0d1438a8b276b77a1e672e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Sep 2 16:04:25 2012 +0100

hw/xwin: Fix function name in log message

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 127a7068b75258d396776cc101aba0bef10a5cef
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Apr 14 23:10:23 2011 +0100

hw/xwin: Allow XScreenSaverSuspend() to effect Windows screen saver or monitor power off

Reset the idle timer in the block handler if screenSaverSuspended is set.

This isn't quite a complete solution. We should also set the block timeout to something less than the idle timer timeout to ensure we will reset the idle timer before it times out if we are blocking.

The idle timer timeout is presumably the first one to expire of the screen saver activation or monitor low power or power down timeout, depending on configuration.

Unfortunately this is probably not straightforward to do. Whilst SystemParametersInfo(SPI_GETSCREENSAVETIMEOUT) is portable, apparently SPI_GETLOWPOWERTIMEOUT and SPI_GETPOWEROFFTIMEOUT are not supported by Windows versions 6.0 or later, and the interface for discovering equivalent value is complex.

This doesn't matter in the case where a media player or similar application is the one making the XScreenSaverSuspend() requests, as it will be continuously drawing, causing the X server to become unblocked often.

In the case where slide show presentation application or similar is the one making the XScreenSaverSuspend() request, this might be a problem.

Since "Powerpoint is Evil" [1], I think we'll leave it like this till someone complains :-)
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34244


v2: conditionalize on SCREENSAVER

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 190f165317c4a58adf38e3e32acfe7cf04850e91
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Mon Nov 5 13:02:46 2012 +0000

hw/xwin: Avoid logging an extra blank line if BUILDERSTRING is empty

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ef9dbea24f5ce7e1e400463ab2a333076d98a28e
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Aug 31 20:57:05 2011 +0100

hw/xwin: Report which drawing engines are being enabled when checking for support

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5824166256c8e96c91e225f4cccb2b094b8f045b
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Fri Mar 12 14:38:51 2010 +0000

hw/xwin: Show any fatal error message

Report the fatal error message in the dialog we pop up, rather than just referring the user to the logfile.

v2: Do this a better way since the "Pass the FatalError message to OsVendorFatalError" patch has landed, and OsVendorFatalError() now gets passed the fatal error message

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cf05db8ddce948d907915e1c9569d743e8771def
Author: Sjoerd Simons <sjoerd.simons@collabora.co.uk>
Date:   Tue Oct 30 17:02:58 2012 +0100

Ephyr: Find the right host screen when embedded

When Xephyr is embedded into another application (e.g. in xoo), the
input events may come from the parent Window instead of our own. So make sure we find the host screen in that case as well instead of crashing.

Signed-off-by: Sjoerd Simons <sjoerd.simons@collabora.co.uk>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ac1a60e7b6f06fd075cc5bf55d6bc67206a01d29
Author: Raphael Kubo da Costa <raphael.kubo.da.costa@intel.com>
Date:   Fri Nov 16 19:51:58 2012 +0200

vfb: Initialize the GLX extension again.

This should fix a regression in the 1.13.0 release: commit 5f5bbbe543f65c48ecbb5ccee80116a86ca3fbe86 made it use the default one when initializing extensions. However, this meant the GLX extension was not initialized anymore since it is not part of the `staticExtensions` array.

Since it is not possible to just add it to that array after commit aad428b8e21c77397c623b78706eb64b1f0e77c9, adopt an approach similar to xwin's and xquartz's and initialize the extension from vfb's `InitOutput`.

Signed-off-by: Raphael Kubo da Costa <raphael.kubo.da.costa@intel.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 353b14ea77324b3f7b3ea29d6f03618fd9916d5f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Nov 19 15:00:22 2012 +1100

DMX: Add DMX and GLX extensions

Unfortunately this also got lost in the extmod fallout, leaving the DMX server not exposing the DMX or GLX extensions.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3556d43010f0a37bf30aa2e0cee9a8bbcad311d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Nov 19 15:29:34 2012 +1100

Constify extensions in LoadExtension users

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit db83830eeef38a86a471378121213162da180537d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 19 15:28:07 2012 +1100

Constify argument to LoadExtension

Since we never modify it.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3b9f1e701787965246638c1a6fd99fb2b6078114
Author: Yuly Novikov <ynovikov@chromium.org>
Date: Mon Nov 19 21:04:57 2012 -0500

dix: Save touchpoint last coordinates before transform. #49347

DDXTouchPointInfoRec.valuators used to store axis values after transform.
This resulted in Coordinate Transformation Matrix
being applied multiple times to the last coordinates,
in the case when only pressure changes in the last touch event.

Changed DDXTouchPointInfoRec.valuators to store values before transform.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=49347

Signed-off-by: Yuly Novikov <ynovikov@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d0fd592fc7be1706084923f43fa057e50122562c
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Oct 13 23:18:50 2012 -0400

Simplify GetTouchEvents

With only one callee left, we are free to assume that
!(flags & TOUCH_CLIENT_ID)

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fe59774c55e5d423633405e0869c22f4ce382548
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Oct 13 23:08:27 2012 -0400

Don't use GetTouchEvents in EmitTouchEnd

As before GetTouchEvents causes unwanted side effects. Add a new
function GetDixTouchEnd, which generates a touch event from the touch point. We fill in the event's screen coordinates from the MD's current sprite position.

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cc79107a5b60d2926e16ddbee04149e8d5ace969
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Oct 13 22:51:24 2012 -0400

Don't use GetTouchEvents when replaying events

GetTouchEvents has plenty of side effects such as moving the pointer or updating the master device, which we don't want to happen when replaying. The only reason for calling it was to generate a DCCE event, but GetTouchEvents doesn't even do that right (we might need a DCCE event even when replaying a master event, or clients could interpret valuator data incorrectly).

This discussion is moot at the moment anyway, since DeliverTouchEvents doesn't appear to deliver DCCE events.

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

[Added call to processInputProc instead of direct call to DeliverTouchEvents]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 90b177e5cbb9047453af426d2abfe9c0514fe866
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Oct 13 22:43:26 2012 -0400

Update the MD's position when a touch event is received

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a6c3afe71ac82a93d9fd0034dd5bbdef0eae1ea
Merge: 14c9e245ba 6f145084d5
Author: Keith Packard <keithp@keithp.com>
Date: Sun Nov 18 21:50:20 2012 -0800

Merge remote-tracking branch 'whot/for-keith'
commit 6f145084d5b9ca4a023dfc538a69bbf30edeac4a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 16 13:46:32 2012 -0500

linux: Prefer ioctl(KDSKBMUTE, 1) over ioctl(KDSKBMODE, K_OFF)

K_OFF is a slightly broken interface, since if some other process
(cough, systemd) sets the console state to K_UNICODE then it undoes
K_OFF, and now Alt-F2 will switch terminals instead of summoning the
Gnome "run command" dialog.

KDSKBMUTE separates the "don't enqueue events" logic from the keymap, so
doesn't have this problem. Try it first, then continue falling back to
older methods.

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=859485
Tested-by: Josh Boyer <jwboyer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0ff1c77b17062a3a3ff520709ef719316bc1d8bb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 16 14:21:47 2012 +1000

xfixes: let PointerBarrierClient->device_ids point to allocated memory

"Fixed" up Jasper's original patch [1] to use pointers instead of
zero-length arrays but didn't actually set the pointer to anywhere.

[1] 9a536820f6174befb22431bab375ef1af0a1ec29

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-By: Jasper St. Pierre <jstpierre@mecheye.net>

commit aa9a9ad08b8a6e7e95dc7c2bf45d93dd50f9ca87
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Wed Nov 7 11:31:01 2012 +0100

Xi: Fix modifier swapping in XIPassiveGrabDevice

XIPassiveGrabDevice uses a list of uint32_t as modifier sets.

The ModifierInfo struct represents the current modifier states and is
therefor used in XIQueryPointer and various events.

Signed-off-by: Daniel Martin <consume.noise@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
remove init_event

The function is identical to init_device_event from inpututils.c with the first two arguments swapped.

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 710065da37b68a9ec7a0c9dc995247f39e3d01e9
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 15:58:25 2012 +1100

XKB: Remove component listing support

No-one uses this - not xkbcomp, not GNOME, not KDE. The preferred way to deal with component listing (which gives you RMLVO rather than KcCGST) is to use the XML files on the client side.

Indeed, a couple of hours after making this commit, it emerged that all *.dir files built with xkbcomp 1.1.1 (released two years ago) and later have been catastrophically broken and nearly empty. So I think that's reasonable proof that no-one uses them.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

input: drop FP1616 macro

The double_to_f1616() functions do the same thing, and they're tested.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 14c9e245bae2447f0e57a3ea4daa8d2085fa8b8f
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date: Sat Nov 17 11:52:10 2012 -0500
XQuartz: Opt-in to NSSupportsAutomaticGraphicsSwitching

http://xquartz.macosforge.org/trac/ticket/668

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 011f8458805e443ac9130865d2840a929a00cabf
Merge: 54ba26cb1f b4e44b285e
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 5 17:16:07 2012 -0800

Merge remote-tracking branch 'whot/for-keith'

commit b4e44b285ed0eeed06514215a4b01d54f40094b
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Wed Oct 31 19:29:45 2012 +0100

Xi: Set modifier mask on touch events

Button mask should be out-of-band with the emulated pointer events as touch devices don't truly have "buttons". Even though, it's handy to have the modifier mask from the paired keyboard on touch events.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 863f32c930d71073ee5f78452b78bd459d024867
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Wed Oct 31 19:32:57 2012 +0100

Xi: Update the device after delivering the emulated pointer event(#56558)

Ensure emulated pointer events contain the state that applies before the event was processed, so the device state must be updated after delivering such emulated events.

Co-authored-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9a536820f6174befb22431bab375ef1af0a1ec29
Author: Jasper St. Pierre <jstpierre@meceye.net>
Date: Sat Nov 3 20:23:46 2012 -0400
cursor: Fix up implementation for per-device barriers

Support multiple mast devices being specified as a parameter to the barrier. This should implement all parts of the XFixes specification, minus the existing non-specification detail where specifying no devices is the same as specifying XIAllDevices.

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 944213bbc7099f1e0238f39973653d459efdc2e9
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date: Sat Nov 3 20:23:45 2012 -0400

cursor: Clean up barrier finding code a bit

The current code manually unrolls the loop, by finding a barrier, clamping it, and then repeating the code. Since we want to modify both passes of the loop to support device-specific barriers, make it into an actual loop.

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1536bc2d213713af45541a15b5e49c552d8d0592
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date: Sat Nov 3 20:23:44 2012 -0400

cursor: Clean up pointer barrier creation code a tiny bit

This will make it much simpler when we add more error paths to the code that constructs pointer barrier clients.

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 04c885de715a7c989e48fc8cf2e61db2b401de2d
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date: Sat Nov 3 20:23:43 2012 -0400

cursor: CreatePointerBarrier has a variable request length

Support this, and swap the devices in the SProc as well. Don't actually do anything with the devices just yet -- specifying any should still emit a BadImplementation.

Based on a patch by Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d74b63f95fc622afe83c53580f1bb5346d55fa7a
Author: Jasper St. Pierre <jstpierre@mecheye.net>
Date:   Sat Nov 3 20:23:42 2012 -0400

cursor: Fix a minor unused variable warning

Signed-off-by: Jasper St. Pierre <jstpierre@mecheye.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit aad65415bf1f2e6860e19beac42e4165e598a40f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 11 13:02:27 2012 +1000

dix: don't allow disabling XTest devices

Disabling a XTest device followed by an XTest API call crashes the server. This could be fixed elsewhere but disabled devices must not send events anyway. The use-case for disabled XTest devices is somewhat limited, so simply disallow disabling the devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5b7384a3154a95a805b040e1910e276b52aada96
Author: Alexey Ten (Lynn) <alexeyten@gmail.com>
Date:   Tue Oct 23 12:32:31 2012 +0400

Apply partial matches for option (#25873)

Rules which match star (*) and option, like one below, should be applied

layout[2] option  = symbols
*     misc:typo = +typo(base)

This is port of patch from #19563 (https://bugs.freedesktop.org/19563) because here we have own copy of maprules.c

X.Org Bug 25873 <http://bugs.freedesktop.org/show_bug.cgi?id=25873>

Signed-off-by: Alexey Ten (Lynn) <alexeyten@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 54ba26cb1f9c59559cc3c449aeb3b31b2ce23bd6a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Mon Oct 29 22:37:37 2012 -0500

os: Add libnettle as a choice of SHA1 implementation

libnettle is smaller than libgcrypt, currently being released more frequently, and has replaced the latter in gnuTLS-3.x (which is used by TigerVNC, so they can avoid pulling in two crypto libraries simultaneously).

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 2ff56033de2b493a11d2bdf411b7057b1b3a22d7
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Tue Oct 16 02:11:59 2012 -0500

Xi: fix fprintf format warning

exevents.c: In function 'ProcessTouchEvent':
exevents.c:1601:20: warning: too many arguments for format

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d631dbe9b6a1faa4cd18ab7a4a0276db02b84b77
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sat Oct 27 21:50:01 2012 -0500

Xext: fix shadow warnings

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 20cf7918ed954a932a4cc404b3d0c4ca87a6ae16
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Tue Oct 16 21:08:52 2012 -0500

Xext: fix redundant redeclaration warnings

panoramiX.c:595:13: warning: redundant redeclaration of 'CreateConnectionBlock'
./include/dix.h:167:23: note: previous declaration of 'CreateConnectionBlock' was here
./include/extinit.h:109:13: note: previous declaration of 'ResExtensionInit'
xtest.c:60:12: warning: redundant redeclaration of 'DeviceValuator'
./Xi/exglobals.h:61:12: note: previous declaration of 'DeviceValuator' was here
Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 89447e1b50d2fb0e046102664045d1f9d4efc542
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Mon Oct 15 01:33:05 2012 -0500

Xext: fix unused variable warnings in xf86bigfont.c

These were rendered unused by commit 2c7c520cfe0df30f4bc3ada59d9c62582823bf8.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 344eea237fc07dedfd733d14f95ed0ad26bb5f81
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 02:04:34 2012 -0500

xkb: fix shadow warnings

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7f1d74e8a906210eafc637df81ded62c3adff748
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 02:06:54 2012 -0500

render: fix shadow warnings

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8e86d123998d26d260f60dcb9836c38e5a4c3a5
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 01:19:12 2012 -0500

randr: export more provider property symbols

These were added as part of commit 66d92afeaead9f4a19267d95a1f81b9bf27162a5
but never declared or exported. Fixes warnings:

rrproviderproperty.c:255:1: warning: no previous prototype for 'RRPostProviderPendingProperties'
rrproviderproperty.c:327:1: warning: no previous prototype for 'RRConfigureProviderProperty'

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit f02e27e4fcc34413b2051e5a01ede92172fa8612
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 02:16:17 2012 -0500

mi: fix shadow warnings

mibitblt.c: In function 'miGetImage':
mibitblt.c:617:20: warning: declaration of 'pt' shadows a previous local
mibitblt.c:609:17: warning: shadowed declaration is here
mibitblt.c: In function 'miFillUniqueSpanGroup':
mispan.c:456:33: warning: declaration of 'i' shadows a previous local
mispan.c:382:9: warning: shadowed declaration is here
mispan.c:488:17: warning: declaration of 'i' shadows a previous local
mispan.c:382:9: warning: shadowed declaration is here

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1fe30c000679bd36a6355b48b94b87564d528ff28
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 02:21:04 2012 -0500

fb: fix shadow warnings

fbblt.c: In function 'fbBlt':
fbblt.c:76:16: warning: declaration of 'src' shadows a previous local
fbblt.c:52:13: warning: shadowed declaration is here
fbblt.c:77:16: warning: declaration of 'dst' shadows a previous local
fbblt.c:52:19: warning: shadowed declaration is here
fbbltone.c: In function 'fbBltPlane':
fbbltone.c:742:13: warning: declaration of 'w' shadows a previous local
fbbltone.c:725:9: warning: shadowed declaration is here

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e8d45f301845f70b76407577b92363934ca4f19e
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 20:54:56 2012 -0500

dix: fix shadow warnings

dispatch.c: In function 'ProcCopyArea':
dispatch.c:1608:5: warning: declaration of 'rc' shadows a previous local
dispatch.c:1604:9: warning: shadowed declaration is here
dispatch.c: In function 'ProcCopyPlane':
dispatch.c:1647:5: warning: declaration of 'rc' shadows a previous local
dispatch.c:1643:9: warning: shadowed declaration is here
events.c: In function 'GetClientsForDelivery':
events.c:2030:68: warning: declaration of 'clients' shadows a global declaration
./include/dix.h:124:28: warning: shadowed declaration is here
events.c: In function 'DeliverEventToWindowMask':
events.c:2113:19: warning: declaration of 'clients' shadows a global declaration
./include/dix.h:124:28: warning: shadowed declaration is here
events.c: In function 'EventSuppressForWindow':
events.c:4420:12: warning: declaration of 'free' shadows a global declaration

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1aa78354e21a263b0973516850656b13fd18f0d
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 16 14:06:30 2012 -0500

dix: fix redundant redeclaration warnings in dixfont

These functions are already declared in <X11/fonts/fontproto.h>. Redeclaring them just for _X_EXPORT causes tons of warnings throughout xserver, but they need to be declared somewhere to be picked up by sdksyms.sh. Doing so in a private header limits the warnings to sdksyms.c; fixing those as well would require changes to fontsproto.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 27c5966de35d4726dd9795b4828d4236851f6a88
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Mon Oct 15 01:25:17 2012 -0500

xfree86: os-support: fix old-style function definition warnings

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Cooperstih <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6ab961bb21369aa694d883f361a36bc23b19b9
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Oct 24 23:57:11 2012 -0500

macros: clarify documentation

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0f4f980ead5e9af066143a921e0a0e98f26f28ee5
Merge: a194630f7fa4941ce496
Merge remote-tracking branch 'jturney/mingw-w64-w32api'

commit a4941ce4961f254ac31e2ceff6dd0863866246bab
Author: Jon TURNHEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 21 15:31:16 2012 +0100

hw/xwin: Wrap 'Status' when including ddraw.h

Status is #defined as an alias for a type in xkbsrv.h, which conflicts with it's
use as a parameter name in rpcdce.h

This fixes compilation with MinGW-w64 w32api headers

(The MinGW-w64 w32api headers actually provide a ddraw.h, so this fix tries to
do things in a way which will still work if our private copy of ddraw.h is
eventually removed)

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 57bbf6e2aad6c76a9f5d43829b58868a26059
Author: Jon TURNHEY <jon.turney@dronecode.org.uk>
Date:   Mon Oct 29 14:35:45 2012 +0000

hw/xwin: Remove pointless winFinishCreateWindowsWindowDDNL()

Remove pointless winFinishCreateWindowsWindowDDNL() and the useless DirectDraw
surface pointers in the window privates

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5bc4c53d23d02d3d7297a8f00a92b6e4d5e0d6fe
Author: Jon TURNHEY <jon.turney@dronecode.org.uk>
Date:   Tue Sep 4 17:28:16 2012 +0100

hw/xwin: Link with libdxguid rather than defining the DirectX GUIDs ourselves

Decruftify by linking with libdxguid rather than defining the DirectX GUIDs
ourselves. This fixes compilation with MinGW-w64 w32api headers, which do not
provide GUID_SECT (which only ever did anything for gcc prior to 2.95, anyhow)

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
ABS_MT_DISTANCE exists since kernel v2.6.38,
ABS_MT_TOOL_X|Y appeared in v3.6.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Sync TouchListener memory allocation with population in TouchSetupListeners()

The allocated TouchListener array may fall short by 1 if hitting the worst case
situation where there's an active grab, passive grabs on each window in the
sprite trace and event selection for touch in one of the windows. This may lead
to memory corruptions as the array is overflown.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

EXA: Track source/mask pixmaps more explicitly for Composite fallback regions.
In particular, make sure pExaScr->src/maskPix are cleared when the corresponding pictures aren't associated with drawables, i.e. solid or gradient pictures. Without this, we would in some cases associate the source/mask region with unrelated pixmaps from previous Composite fallbacks, resulting in random corruption.

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=47266

Signed-off-by: Michel Dänzer <michael.daenzer@amd.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f32ad6dd314a587c301b7f1a6e4ee74e5d8cc06c
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 21 12:32:49 2011 -0500

os/utils.c: Provide only stubs for Lock/UnlockServer on WIN32

MinGW and MSVC lack the POSIX functions to compile the lock file code.

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 74735c5ebff15db8891808068fe8569d8ccde9e7
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sat Feb 18 20:37:19 2012 +0000

hw/xwin: fmemopen is available on cygwin but not MinGW

This is a follow-up to commit 0659437f5ec0e3f646373394f5f9c5461e2170f3.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 748be9da20a8bf3dd99701a95eac7ee3895a28de
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue May 1 20:08:41 2012 +0100

doc: Update documentation about Windows platforms support a bit

Update what c-extensions says about Windows platforms support a bit:
- Document that MinGW Win32 gets let off being POSIX-compilant
- Document the minimum Windows version supported

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
xfree86: remove unused variable sigstate

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e7cd5ccee740e653000fb1192b600268dcf77dde2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 18 15:11:31 2012 +1000

dix: fix zaphod screen scrossing (#54654)

POINTER.Screen coordinates are screen-relative. For a Zaphod setup, the
coordinates after a screen crossing are already relative to the new screen's
origin. Add that offset to the coordinates before re-setting.

regression introduced by
commit bafbd99080be49a17be97d2cc758fbe623369945
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 8 11:34:32 2012 +1000

    dix: work around scaling issues during WarpPointer (#53037)

X.Org Bug 54654 <http://bugs.freedesktop.org/show_bug.cgi?id=54654>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 676447190190d8546165e21be242cf16dd69f5ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 17 14:13:29 2012 +1000

    Xi: don't deliver TouchEnd to a client waiting for TouchBegin (#55738)

    If a client is still waiting for the TouchBegin, don't deliver a TouchEnd
    event.

X.Org Bug 55738 <http://bugs.freedesktop.org/show_bug.cgi?id=55738>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Thomas Jaeger <thjaeger@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3018f9c1e5109680d6f69b8f2d7807696a473bde
Xi: set xChangeDeviceControlReply.status to Success by default

If the status is other than Success, the code will set it to the required value.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2decff6393a44b56d80d53570718f95354fde454
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 11 16:03:33 2012 +1000

xkb: ProcesssPointerEvent must work on the VCP if it gets the VCP

For button release events, the current code picks the VCK. Because that has a XKB struct, it thinks this is a PointerKeys event and proceeds to send the release event through the XTest pointer. That has no effect in normal operation as the button is never down and an attempt is silently discarded (normal event processing continues with the VCP).

On server shutdown, the XTest device is already removed, leading to a null-pointer dereference when the device is checked for whether buttons are down (XkbFakeDeviceButton button_is_down(xtest pointer)).

The current state has only worked by accident, the right approach here is to handle the VCP's event as such and not switch to the keyboard.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit cc1d8fa8a4ef2e34e9837a44945094fd77e40a0b
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sun Oct 14 23:38:20 2012 -0500

Configure fixes for MinGW

As for Cygwin, define FD_SETSIZE for uses of select() to be correct. Link with libpthread.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit 53830281b4da096f9c13107d73ec9c76ff1d14cc
Merge: abc2ef590c 9cbcb5bd6a
Author: Keith Packard <keithp@keithp.com>
Use new pixman_glyph_cache_t API that will be in pixman 0.28.0

This new API allows glyphs to be cached in a data structure in pixman,
and entire glyph strings to be composited in one go.

Also bump pixman dependency to 0.27.2.

Results from the cairo peformance test suite running against Xvfb with
a screen size of 1680x1050@32bpp:

Speedups
========

<table>
<thead>
<tr>
<th></th>
<th>Time</th>
<th>Speedup</th>
</tr>
</thead>
<tbody>
<tr>
<td>xlib firefox-talos-gfx</td>
<td>12416.63</td>
<td>3.45x speedup</td>
</tr>
<tr>
<td>xlib xfce4-terminal-a1</td>
<td>1727.57</td>
<td>1.65x speedup</td>
</tr>
<tr>
<td>xlib evolution</td>
<td>1370.49</td>
<td>1.58x speedup</td>
</tr>
<tr>
<td>xlib gnome-terminal-vim</td>
<td>1832.83</td>
<td>1.46x speedup</td>
</tr>
<tr>
<td>xlib poppler</td>
<td>1519.70</td>
<td>1.26x speedup</td>
</tr>
<tr>
<td>xlib firefox-planet-gnome</td>
<td>6982.55</td>
<td>1.25x speedup</td>
</tr>
<tr>
<td>xlib ocitysmap</td>
<td>1142.77</td>
<td>1.07x speedup</td>
</tr>
</tbody>
</table>

No slowdowns were reported.

Results of x11perf -aa10text:

Before:
8000000 reps @ 0.0007 msec (1450000.0/sec)
8000000 reps @ 0.0007 msec (1460000.0/sec)
8000000 reps @ 0.0007 msec (1460000.0/sec)
8000000 reps @ 0.0007 msec (1470000.0/sec)
8000000 reps @ 0.0007 msec (1480000.0/sec)
40000000 trep @ 0.0002 msec (4910000.0/sec)
32000000 reps @ 0.0002 msec (4830000.0/sec)
32000000 reps @ 0.0002 msec (4890000.0/sec)
32000000 reps @ 0.0002 msec (4830000.0/sec)
32000000 reps @ 0.0002 msec (4900000.0/sec)
160000000 trep @ 0.0002 msec (4870000.0/sec)

After:

32000000 reps @ 0.0002 msec (4910000.0/sec)
32000000 reps @ 0.0002 msec (4830000.0/sec)
32000000 reps @ 0.0002 msec (4890000.0/sec)
32000000 reps @ 0.0002 msec (4830000.0/sec)
32000000 reps @ 0.0002 msec (4900000.0/sec)
160000000 trep @ 0.0002 msec (4870000.0/sec)

Version 2: Destroy the glyph cache at server regen time

Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit c5396ec05a5c6cab6608ba677f703c5227b1de13
Author: Thierry Reding <thierry.reding@avionic-design.de>
Date: Wed Oct 17 12:11:49 2012 +0200

xf86: Fix build against recent Linux kernel

Recent Linux kernels reworked the linux/input.h header file, which is now part of the "user-space API". The include guard therefore has an additional _UAPI prefix.

Instead of adding another case to the #ifdef, drop any include guard checks and instead always undefine the BUS_* definitions on Linux.

Signed-off-by: Thierry Reding <thierry.reding@avionic-design.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d89eb4978a6649be22747c3de2886781e311647
Author: Colin Walters <walters@verbum.org>
Date: Wed Jan 4 17:37:06 2012 -0500

autogen.sh: Honor NOCONFIGURE=1

(Also while we have the patient open, use exec instead of hanging around uselessly in waitpid)
http://people.gnome.org/~walters/docs/build-api.txt

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Colin Walters <walters@verbum.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c0a752d286487203216005375a6a1973fadeffe
Author: Lionel Elie Mamane <lionel@mamane.lu>
Date:   Tue Oct 9 03:17:49 2012 +0200

dix: fix Ungrab action #55785

UngrabAllDevices(Bool kill_client):
If we are not going to kill the client (kill_clients false),
we need to deactivate grabs of active clients, too.
(If we are going to kill the client,
no need to deactivate the grab,
as this will be done as part of the client kill.)

Fixes: X.Org Bug 55785 <http://bugs.freedesktop.org/show_bug.cgi?id=55785>

Signed-off-by: Lionel Elie Mamane <lionel@mamane.lu>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3b67cd26149eb991b5f015061a818af65369e668
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Thu Jun 7 14:12:06 2012 -0700

End physically active touches when device is disabled

Otherwise:

* We can't end the touches while device is disabled
* New touches after enabling the device may erroneously be mapped to old
  logical touches

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e85e5e62819e9e516d66e19836f9f5d7a5d3e87
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Oct 11 18:05:47 2012 +0100

hw/xwin: Fix no return value warning in winClipboardProc()

winclipboardthread.c: In function ‘winClipboardProc’:
Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 51ed6a7d46c6cc19eb9af838be41eb57fd8230a
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Oct 11 17:57:37 2012 +0100

hw/xwin: Remove unused variable in winmultiwindowwm.c

winmultiwindowwm.c: In function ‘UpdateName’:
winmultiwindowwm.c:522:14: warning: unused variable ‘pszName’ [-Wunused-variable]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 5886b1dc4d2ce12a238a2e3600f6576abc6e419
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Oct 11 17:56:11 2012 +0100

hw/xwin: Remove unused variables in winwindow.c

winwindow.c: In function ‘winCreateWindowNativeGDI’:
winwindow.c: In function ‘winDestroyWindowNativeGDI’:
winwindow.c:85:19: warning: unused variable ‘pWinPriv’ [-Wunused-variable]
winwindow.c: In function ‘winPositionWindowNativeGDI’:
winwindow.c: In function ‘winChangeWindowAttributesNativeGDI’:
winwindow.c: In function ‘winUnmapWindowNativeGDI’:
winwindow.c:241:19: warning: unused variable ‘pWinPriv’ [-Wunused-variable]
winwindow.c: In function ‘winMapWindowNativeGDI’:
winwindow.c:265:19: warning: unused variable ‘pWinPriv’ [-Wunused-variable]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 08b33882f34f6ed0c23d54ff7361efc5833868a4b
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Oct 11 17:52:11 2012 +0100

hw/xwin: Remove unused variables in winvalargs.c

winvalargs.c: In function ‘winValidateArgs’:
winvalargs.c:62:10: warning: unused variable ‘fImplicitScreenFound’ [-Wunused-variable]
winvalargs.c:60:9: warning: unused variable ‘iMaxConsecutiveScreen’ [-Wunused-variable]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 7e665f1a21468118dababdb6d8573f1ce1ebd47
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Oct 11 17:50:42 2012 +0100

hw/xwin: Remove unused variables in winwindowswm.c

winwindowswm.c: In function ‘ProcWindowsWMQueryVersion’:
winwindowswm.c:85:9: warning: unused variable ‘n’ [-Wunused-variable]

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit e893d570aa3e9ae8df6a30ac4adaf0949a2fc733
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Oct 11 19:36:13 2012 +0100

Use X_ATTRIBUTE_PRINTF where suggested for os.h

InitOutput.c: In function ‘OsVendorInit’:
InitOutput.c:630:29: warning: assignment left-hand side might be a candidate for a format attribute [-Wmissing-format-attribute]

winprocarg.c: In function ‘ddxProcessArgument’:
winprocarg.c:231:29: warning: assignment left-hand side might be a candidate for a format attribute [-Wmissing-format-attribute]

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e59cc83bcdca6b64c1bfb2de395d741757f615f6
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Oct 11 19:35:19 2012 +0100

hw/xwin: Use X_ATTRIBUTE_PRINTF where suggested for winmsg.c

winmsg.c: In function ‘winVMMsg’:
winmsg.c:47:5: warning: function might be possible candidate for ‘gnu_printf’ format attribute [-Wmissing-format-attribute]

winmsg.c: In function ‘winDrvMsg’:
winmsg.c:56:5: warning: function might be possible candidate for ‘gnu_printf’ format attribute [-Wmissing-format-attribute]

winmsg.c: In function ‘winMsg’:
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

commit 3d6e6a394ea2d5dcb77aa706f751423315d8a7ed
Author: Jon TURNYE <jon.turney@dronecode.org.uk>
Date: Thu Oct 11 19:32:24 2012 +0100

hw/xwin: Use X_ATTRIBUTE_PRINTF where suggested for winerror.c

Also, fix the typoed name OsVendorVErrorF (sic), so it actually gets prototyped
and remove redundant declarations of it's prototype.

winerror.c: In function 'OsVendorVErrorF':
winerror.c:56:5: warning: function might be possible candidate for ‘gnu_printf’ format attribute [-Wmissing-format-attribute]
winerror.c: In function ‘winMessageBoxF’:
winerror.c:104:5: warning: function might be possible candidate for ‘gnu_printf’ format attribute [-Wmissing-format-attribute]

Signed-off-by: Jon TURNYE <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 13fb6b36b8742a79b9768944ee6d1ad66d7e4d9
Author: Jon TURNYE <jon.turney@dronecode.org.uk>
Date: Thu Oct 11 16:20:35 2012 +0100

hw/xwin: Use char strings in winClipboardUNIXtoDOS for consistency with the rest of the clipboard code

winclipboardxevents.c: In function ‘winClipboardFlushXEvents’:
winclipboardxevents.c:575:13: warning: passing argument 1 of ‘winClipboardUNIXtoDOS’ from incompatible
pointer type
  winclipboard.h:102:2: note: expected `unsigned char **` but argument is of type `char **`

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit fa36a7cd488e4f7f91beed8a87764b8e0c1a72f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Oct 11 15:51:39 2012 +0100

hw/xwin: Fix warning about discarding const in initializing winKBLayouts

winlayout.h:46:5: warning: initialization discards qualifiers from pointer target type
winlayout.h:46:5: warning: initialization discards qualifiers from pointer target type
winlayout.h:46:5: warning: initialization discards qualifiers from pointer target type
[repeated for each layout]

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0ea6df8a5f97a6fe5225226493aa01380080d2f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Sep 27 17:23:43 2012 +0100

hw/xwin: Fix some of the warnings in generated gl wrapper code

Fix some of the warnings in generated gl wrapper code:
- glWinResolveHelper takes a const char * argument
- ensure formal parameter names don't collide with reserved names or shadow global declarations (e.g. near, far, index (from string.h), remainder (from math.h), pointer (from Xdefs.h) by postpending a `_'

generated_gl_wrappers.c:13:3: warning: passing argument 2 of `glWinResolveHelper' discards qualifiers from pointer target type
  glwrap.c:70:1: note: expected `char *' but argument is of type `const char *'
[repeated many times]

generated_gl_wrappers.c: In function `glVertexAttrib1dARBWrapper': generated_gl_wrappers.c:6884:47: warning: declaration of `index' shadows a global declaration [-Wshadow]
  generated_gl_wrappers.c:6886:3: warning: passing argument 2 of `glWinResolveHelper' discards qualifiers from pointer target type
[repeated many times]

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f7f0739311927ad177dece7119272481b75b73b4
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Tue Oct 19 23:42:53 2010 +0100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34269

hw/xwin: Warning fix in ProcWindowsWMFrameSetTitle()

winwindowswm.c: In function ‘ProcWindowsWMFrameSetTitle’:
winwindowswm.c:514: error: pointer targets in passing argument 2 of ‘strncpy’ differ in signedness

If you're going to stick random casts into your code, at least use the goddammed right ones. :-)

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 97c9ed026a7f7e5fca02c188bcbd5d7c594e9
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 19:01:55 2012 +0000

hw/xwin: Fix shadowed local variable i in HandleCustomWM_COMMAND()

Fix shadowed local variable i in HandleCustomWM_COMMAND()

Also, fds are meant to be representable as an int

winprefs.c: In function ‘HandleCustomWM_COMMAND’:
winprefs.c:346:23: error: declaration of ‘i’ shadows a previous local
winprefs.c:322:7: error: shadowed declaration is here

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b55d0b92fc536793a877f6073754801a7c3c2dd5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 18:56:22 2012 +0000

hw/xwin: Fix shadowed local variables in winLoadCursor()

Move shadowed local variables x and y to the places they are used

wincursor.c: In function ‘winLoadCursor’:
wincursor.c:212:11: error: declaration of ‘x’ shadows a previous local
wincursor.c:166:7: error: shadowed declaration is here
wincursor.c:212:14: error: declaration of ‘y’ shadows a previous local
wincursor.c:166:10: error: shadowed declaration is here
wincursor.c:228:11: error: declaration of ‘x’ shadows a previous local
wincursor.c:166:7: error: shadowed declaration is here
wincursor.c:228:14: error: declaration of ‘y’ shadows a previous local
wincursor.c:166:10: error: shadowed declaration is here

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Fix using Mask as a formal parameter shadows the typedef of the same name from X.h

indirect.c: In function ‘GetShift’:
indirect.c:1629:14: warning: declaration of ‘Mask’ shadows a global declaration [-Wshadow]

Using screenInfo as a formal parameter to InitOutput() shadows a global declaration of screenInfo.
Change the formal parameter name from screenInfo to pScreenInfo, as everywhere else uses.

Using menu as a formal parameter shadows a global variable of the same name

Using menu as a formal parameter shadows a global variable of the same name
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit efe96a17bd741f222c9b226d306b5c1dc1f25ade
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 18:54:57 2012 +0000

hw/xwin: Fix using index as a formal parameter shadows index()

Using index as a formal parameter shadows index() from strings.h

winallpriv.c: In function ‘winInitCmapPrivates’:
winallpriv.c:119:45: error: declaration of ‘index’ shadows a global declaration

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 451c5d9175cdeb36fd614502ff0317f968490dfe
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 19:09:12 2012 +0000

hw/xwin: Fix using index as a formal parameter in winscrinit.c shadows index()

Using index as a local variable shadows index() from strings.h

winscrinit.c: In function ‘winFinishScreenInitFB’:
winscrinit.c:274:28: error: declaration of ‘index’ shadows a global declaration
winscrinit.c: In function ‘winFinishScreenInitNativeGDI’:
winscrinit.c:623:35: error: declaration of ‘index’ shadows a global declaration

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 21faee4b383a12bef58f300b4ad1a3bd34d66de2d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 19:05:42 2012 +0000

hw/xwin: Fix using index as a local variable shadows index()

Using index as a local variable shadows index() from strings.h

winprefs.c: In function ‘LoadImageComma’:
winprefs.c:574:7: error: declaration of ‘index’ shadows a global declaration

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 2d9123fd0c89c1a72e7281e56985196bc53507bf
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
hw/xwin: Fix using index as a formal parameter in winmonitors.c shadows index()

Fix using index as a local variable shadows global declaration of index() from strings.h

winmonitors.c: In function ‘QueryMonitor’:
winmonitors.c:59:23: error: declaration of ‘index’ shadows a global declaration

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5b0435dbdaa47404629800e4e9c5a6952a7bb260
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 18:53:02 2012 +0000

hw/xwin: Fix using system as a local variable in winCheckMount() shadows system()

Using system as local variable in winCheckMount() shadows the global declaration of system() from stdlib.h

InitOutput.c: In function ‘winCheckMount’:
InitOutput.c:296:10: error: declaration of ‘system’ shadows a global declaration

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 17d84c743d6b52f32c4ca0341aebaff972522945
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 17:18:12 2012 +0000

hw/xwin: Remove obsolete redundant declarations of winPushPixels()

winPushPixels() and winpushpxl.c was removed in it's entirety in commit f31bd087e8a7f65cd588bd1d022bb18e72b2a60c "Death to mfb"

wingc.c:37:1: error: redundant redeclaration of ‘winPushPixels’
win.h:1104:1: note: previous declaration of ‘winPushPixels’ was here

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f06b468d96af3323e28645dde44170ab367da4f1
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 17:09:18 2012 +0000

hw/xwin: Fix redundant declarations in winmultiwindowwm.c

winmultiwindowwm.c:139:14: error: redundant redeclaration of ‘display’
Fix redundant declarations in winclipboardwrappers.c.
Also remove obsolete winProcQueryTree() prototype.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0975fa0b391d7bd8d7e8a127ebf7a863e53fcb7d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 17:06:27 2012 +0000

hw/xwin: Fix redundant declaration in winclipboardthread.c

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
hw/xwin: Fix redundant declaration in winclipboardinit.c

In file included from winclipboardinit.c:35:0:
winclipboard.h:81:13: error: redundant redeclaration of ‘ErrorF’
../../include/os.h:558:13: note: previous declaration of ‘ErrorF’ was here

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 30f31b80f0105676359105c895bc195b9f3e704c
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 16:48:45 2012 +0000

hw/xwin: Fix various warnings in code generated by lex/yacc

Remove various redundant declarations.

Instruct lex not to generate code which isn’t going to be used, thus avoiding some unused function warnings.

Note that bison <2.5 expects stdlib.h to define _STDLIB_H if it’s been included, and avoids prototyping free/malloc in that case. Some stdlib.h (e.g. newlib) may not match precisely (e.g. defining _STDLIB_H_), so we define it after including stdlib.h to be sure, and avoid a redundant declaration warning for those symbols.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 70087c55fffc3cbc52f550418e6b1230bb1b3b3
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 16:38:49 2012 +0000

hw/xwin: Fix redundant declaration in winprefs.c

winprefs.c:63:14: error: redundant redeclaration of ‘display’
../../include/opaque.h:52:14: note: previous declaration of ‘display’ was here

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 4231b9541c6fd26f43b605ecc9dd76622dd786f7
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 17:05:25 2012 +0000
hw/xwin: Fix redundant declaration warnings in winmonitors.c

Include xwin-config.h so HAVE_STRLCPY and HAVE_STRNDUP are defined, so
duplicate declarations of strlcpy(), strlcat() and strndup() aren't made
by os.h

In file included from ../../../include/misc.h:111:0,
    from ../../../include/screenint.h:51,
    from ../../../include/scrnintstr.h:51,
    from win.h:157,
    from winmonitors.c:31:
../../../include/os.h:491:15: error: redundant redeclaration of ‘strlcpy’
/usr/include/string.h:86:35: note: previous declaration of ‘strlcpy’ was here
../../../include/os.h:492:15: error: redundant redeclaration of ‘strlcat’
/usr/include/string.h:85:35: note: previous declaration of ‘strlcat’ was here
../../../include/os.h:496:15: error: redundant redeclaration of ‘strndup’

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9904c8fe75e96cf84d8885aa95f2743c1b25ea37
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 25 16:09:59 2012 +0000

hw/xwin: Remove completely unused winregistry.c

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a69429a17bf4630f6e26f61630a1c2b287202627
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Sep 7 14:58:06 2012 +0100

Fix 'make distcheck' for hw/xwin

Add some missing header files to _SOURCES so they get distributed properly

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 1d9fd7f0b03f6e44f3a8736a94e4558203ce607
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Sep 6 13:51:38 2012 +0100

Fix compilation of Xorg DDX without XF86VIDMODE
Fix compilation of Xorg DDX without XF86VIDMODE since 6e74fdda, by putting xf86vmode.c back under the XF86VIDMODE automake conditional it was accidentally taken out of.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Tested-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 25741b1aa3a0fb39cb842a43ab52935673cfdefa
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Sep 2 15:17:05 2012 +0100

hw/xwin: Only add GLX extension once.

Using of LoadExtension() to add GLX onto to the end of the list of extensions on every server regeneration leads to hilarious consequences (i.e. crashing) after the first regeneration :-)

Possibly xf86ExtensionInit() and QuartzExtensionInit() need a similar fix.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 7ceb85481280fecedcfe33f147f0f7834cad890c6
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Sep 2 14:55:25 2012 +0100

Correct description of -displayfd option in man page.

A display number, not a port number, is written to the specified fd.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 4b7f00346daed20c96f3e8ea13ae411858a5424b
Author: Peter Hutterer <peter.hutterer@who-t.net>

dix: fix crash on shutdown if a disabled device is still grabbed (XI1 grab)

A disabled device doesn't have a sprite (less so a sprite->win) and triggers a NULL-pointer dereference on shutdown when all active grabs are released as part of the cleanup.

Fix this by checking for sprite being non-null and setting the focus window to the NullWindow if it is. The rest of the patch just attempts to make things more readable.
os: fix typo in OsSigHandler() error message

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0c7109f3215378bb3ed6c00c71129a63ff4b4e787
Author: Denys Vlasenko <dvlasen@redhat.com>
Date: Mon Oct 8 14:18:02 2012 +1000

os: fix typo in OsSigHandler() error message

Recieved Received

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0a75bd640b3dc26b89d9e342999a7f4b7e98edbf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 3 13:12:27 2012 +1000

xfree86: add xf86UpdateDesktopDimensions()

This call is required for external drivers (specifically NVIDIA) that do
not share the xfree86 infrastructure to update the desktop dimensions.
Without it, the driver would update the ScreenRecs but not update the total
dimensions the input code relies on for transformation.

This call is a thin wrapper around the already-existing internal call and
should be backported to all stable series servers, with the minor ABI bump.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
CC: Andy Ritger <aritger@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 09f1e5b15b769e1122f0a8d7cae0820038992312
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Oct 7 18:40:35 2012 +0200

Revert "kinput: allocate enough space for null character."

This reverts commit 5317855dd746d64ef7f473a83ca73bb20e74b6fca.

The above commit breaks Xephyr option parsing. Andrzej writes:

Xephyr -retro -keybd evdev,.device=/dev/input/event2,xkbrules=evdev,xkbmodel=evdev,xkblayout=pl -mouse
evdev,.device=/dev/input/event1 :3

results in:
<snip>

Pointer option key (device=) of value (/dev/input/event1) not assigned!
Kbd option key (device=) of value (/dev/input/event2) not assigned!
Kbd option key (xkbrules=) of value (evdev) not assigned!
Kbd option key (xkbmodel=) of value (evdev) not assigned!
Kbd option key (xkblayout=) of value (pl) not assigned!
<snip>

The effect of the patch is that the "key=value" pairs are parsed in such a way that the key is added an "equals" sign to it and we end up with keys like "device=" instead of "device". This in turn has effect on KdParsePointerOptions and KdParseKbdOptions: the key does not match any choice presented in the "switch" statement, and so "Pointer/Kbd option key (...) of value (...) not assigned!" happens, making all "key=value" options inaccessible to the user. Reverting the patch makes them available again.

Reference: http://bugs.debian.org/689246
Reported-by: Andrzej Pietrasiewicz <andrzejtp2010@gmail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Cc: Dave Airlie <airlied@redhat.com>
Reviewed-by: Søren Sandmann <ssp@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7f9d78d8ffb1a312f9b3d69c05323f601571e162
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 4 22:51:06 2012 -0700

os: Don't re-declare ConnectionInputPtr and ConnectionOutputPtr

They're declared in osdep.h, so don't redeclare them in io.c as well. Keeps the compiler happier.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit d5bf6f95f31037bd49b11348b500c3c13b7e0c99
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 4 14:42:37 2012 -0700

Fix FlushClient to write extraBuf when provided (regression fix)

In commit:

commit 092c57ab173c8b71056f6feb3b9d04d063a46579
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 17 14:03:01 2011 -0400
the check for an empty output buffer was moved from one calling
location into the FlushClient implementation itself. However, this
neglected the possibility that additional data, in the form of
'extraBuf' would be passed to FlushClient from other code paths. If the
output buffer happened to be empty at that time, the extra data would
never be written to the client.

This is fixed by checking the total data to be written, which includes
both pending and extra data, instead of just the pending data.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 8367dd9736d74eca971da345c2bf559ce5bbf649
Merge: 36c18bb81b 7998e26159
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 4 13:08:35 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 36c18bb81be619df712778bcb99dd6f1fa38701a
Author: Stephan Schreiber <info@fs-driver.org>
Date:   Wed Aug 29 20:03:58 2012 +0200

int10: fix pci_device_read_rom usage

I noticed that the build-in int10 driver always reports
"Unable to retrieve all of segment 0x0C0000."
even though the entire BIOS data is retrieved with success.

The associated code is in hw/xfree86/int10/generic.c, in the function
xf86ExtendedInitInt10():
pci_device_read_rom() and of the supplied BIOS size.

Debian bug#686153

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4bf3eac5fe20fb203b917a486f69514c55be595a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 27 17:12:19 2012 -0400

c configure: Stop using AM_MAINTAINER_MODE

All this does is make it so editing configure.ac or Makefile.am doesn't rebuild the makefiles. Which is just stupid.

v2: Remove --enable-maintainer-mode from autogen.sh

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 262679d436941580485a10e030938974958f7d588
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 4 11:42:22 2012 -0700

Set version to 1.14 development branch (1.13.99.0)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f179b13b91c8891254d31345ee04e773839e6b87
Merge: 4dd5989d15 3d2b768efa
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 4 11:39:46 2012 -0700

Merge remote-tracking branch 'daniels/master'

commit 7998e26159893674be69183a73a89a53f5608d58
Author: Jason Gerecke <killertofu@gmail.com>
Date: Fri Sep 28 15:03:42 2012 -0700

Fix additional gcc -Wwrite-strings warning in xf86 ddx

Commit 09e4b78f missed a case.
Signed-off-by: Jason Gerecke <killertofu@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f64254d85e731d0b4369d871a9a735b03f283ba6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Aug 23 15:00:24 2012 +1000

mi: drop two useless conditions in miPointerSetPosition

pDev cannot be NULL here since fill_pointer_events is the only caller.
And if the screen is NULL, then the device tries to send events before it is
fully initialised. That certainly shouldn't happen and would be a bug
elsewhere.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 314776eb369ca2e438907795ae030dd743c281fc
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 7 18:30:23 2012 +0100

Touch: Fix duplicate TouchBegin selection with virtual devices

Given the following scenario:
   1) client A selects for TouchBegin on window W for device D
   2) client B selects for TouchBegin on window W for XIAllDevices
   3) client C selects for TouchBegin on window W with device E

Step 3 will fail with BadImplementation, because attempting to look up
XIAllDevices or XIAllMasterDevices with dixLookupDevices doesn't work.
This should succeed (or, if it was selecting for device D, fail with
BadAccess as it would be a duplicate selection).

Fix this by performing the appropriate lookup for virtual devices.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Cc: Chase Douglas <chase.douglas@ubuntu.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3e6358ee6c33979329b78fe2097a1fd76fb69cd
Author: Daniel Drake <dsd@laptop.org>
Date:   Fri Sep 7 21:48:35 2012 -0400

Xi: Don't check for TOUCH_END, it's never set
This flag is never set, so checking for it here means that we'll never release the simulated mouse button press after the user touches (and releases) the touchscreen for the first time.

Fixes a problem where the XO laptop touchpad became totally unusable after touching the screen for the first time (since X then behaved as if the mouse button was held down all the time).

Signed-off-by: Daniel Drake <dsd@laptop.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9d6b8365702e4648e793fea21ad22f7174558680
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 28 11:49:29 2012 +1000

dix: fix crash on XI 1.x grabs on disabled devices. (#54934)

If the device is disabled, the sprite window is NULL and dereferencing crashes the server.

This is only triggered for XI 1.x grabs (ProcXGrabDevice) as XI2 grabs would trigger another code path, creating a sprite for the disabled device as if detaching it (which is wrong and fixed with this patch too).

Grabbing a disabled device doesn't make sense as it won't send events anyway. However, the protocol specs do not prohibit it, so we need to keep it working.

Luckily, oldWin is only used for focus out events, which aren't necessary given that the device is disabled.

X.Org Bug 54934 <http://bugs.freedesktop.org/show_bug.cgi?id=54934>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@ubuntu.com>

commit 3d2b768efae9936c6929c2bc13c7a1acc074ecd3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 7 18:17:46 2012 +0100

Touch: Fix duplicate TouchBegin selection with virtual devices

Given the following scenario:
1) client A selects for TouchBegin on window W for device D
2) client B selects for TouchBegin on window W for XIAllDevices
3) client C selects for TouchBegin on window W with device E

Step 3 will fail with BadImplementation, because attempting to look up
XIAllDevices or XIAllMasterDevices with dixLookupDevices doesn't work.
This should succeed (or, if it was selecting for device D, fail with
BadAccess as it would be a duplicate selection).

Fix this by performing the appropriate lookup for virtual devices.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Chase Douglas <chase.douglas@ubuntu.com>

commit e3903a9383351b061b1a99dfc653ca50de764ec4
Author: Frederic Plourde <frederic.plourde@collabora.com>
Date:   Wed Sep 12 10:48:32 2012 -0400

Add glXCreateNewContext support in Xephyr #54798

Similar to how we intercept and pass through CreateContext, also pass
through newer CreateNewContext requests.

Fixes Clutter Xephyr VirtualBox.

Signed-off-by: Frederic Plourde <frederic.plourde@collabora.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 11afebc92ce1a7462ff2886286504425b1c8f0ba
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 7 18:10:35 2012 +0100

Xephyr: GLX: Support MakeContextCurrent and MakeCurrentReadSGI

We need to pass these requests through to the host server in the same
way we do glXMakeCurrent. Generalise the existing MakeCurrent
submission into once that will send MakeCurrent, MakeContextCurrent or
MakeCurrentReadSGI, depending on the request and the host server's
capabilities, and add decoding/hijack support for incoming
MakeContextCurrent and MakeCurrentReadSGI requests.

Fixes Clutter Xephyr VirtualBox.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 4dd5989d15465f3f3480b521d4e36673972fa24a
Merge: 0b02150c27 506e3437c7
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 24 11:43:01 2012 -0700

Merge remote-tracking branch `ajax/server-1.14-abi-churn'
commit 0b02150c27e98f996e10d7489f9f67a30e4e3497
Author: Yufeng Shen <miletus@chromium.org>
Date: Mon Sep 24 14:03:31 2012 -0400

dix: fix scale_to_desktop for edge ABS events

Scale_to_desktop() converts ABS events from device coordinates to screen coordinates:
[dev_X_min, dev_X_max]  -> [screen_X_min, screen_X_max]
[dev_Y_min, dev_Y_max]  -> [screen_Y_min, screen_Y_max]

An edge ABS event with X = dev_X_max (e.g., generated from the edge of a touchscreen) will be converted to have screen X value = screen_X_max, which, however, will be filtered out when xserver tries to find proper Window to receive the event, because the range check for a Window to receive events is
\[ \text{window_X_min} \leq \text{event_screen_X} < \text{window_X_max} \]
Events with event_screen_X = screen_X_max will fail the test get and rejected by the Window.

To fix this, we change the device to screen coordinates mapping to:
[dev_X_min, dev_X_max]  -> [screen_X_min, screen_X_max-1]
[dev_Y_min, dev_Y_max]  -> [screen_Y_min, screen_Y_max-1]

Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Signed-off-by: Yufeng Shen <miletus@chromium.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7722bcbab2507d263c7685b15cccbfdd52fc3a24
Merge: 4dc2a76740 f54987de97
Author: Keith Packard <keithp@keithp.com>
Date: Sun Sep 23 16:04:13 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 4dc2a76740d921c824a4d8193f39dd373475f02a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 20 17:57:00 2012 -0400

miext/damage: Only wrap into the GC ops chain if there's a listener (v3)

<table>
<thead>
<tr>
<th>before</th>
<th>after</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1148346.9</td>
<td>1191807.5</td>
<td>PutImage 10x10 square</td>
</tr>
<tr>
<td>2091666.1</td>
<td>2180983.0</td>
<td>ShmPutImage 10x10 square</td>
</tr>
</tbody>
</table>
v3: In miDamage{R,Unr}egister, bump the serial number of the affected 
drawable (and all children if it's a window) so subsequent drawing 
against the damage will trigger another ValidateGC pass and we wrap 
in/out correctly. Spotted by Aaron Plattner.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ad0156c369a40762df6b70780358ce14e5f2e9b1
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 20 11:16:26 2012 -0400

dix: Remove MapUnmapEventsEnabled and friends

This hack was added to suppress events generated by Composite's internal 
unmap/map cycle on redirection state change. Since that cycle was 
removed in 193ecce8b4, these can go.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Ville Syrjälä <syrjala@sci.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 387b1ac33ca63d27e42d4f61cf248baf7c43c17
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 20 11:16:25 2012 -0400

dix: Factor out DeliverUnmapNotify

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d20cc0fca4e36ad9bd8da8950c4466b1976e70a1
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 20 11:16:24 2012 -0400

dix: Factor out DeliverMapNotify

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

cmmmit 63843cb70030812bb3a311b2e8dfb0d1b0a75176
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Sep 20 11:16:23 2012 -0400

dix: Factor out MaybeDeliverMapRequest
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dab7a1ec7fd97e07405e0b01dc1f1ec6e5fc2e7c
Author: Adam Jackson <ajax@redhat.com>
Date:    Thu Sep 20 11:16:22 2012 -0400

dix: Fix some indentation

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3d1051aeceb1955084804133cad12c7f696833a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 20 05:56:39 2012 +1000

dix: set the device transformation matrix

The property handler is registered after setting the property, so
dev->transform remains as all-zeros. That causes pixman_f_transform_invert()
fail (in transformAbsolute()) and invert remains as garbage. This
may then cause a cursor jump to 0,0.

Since the axes are not yet initialized here and we need to allow for drivers
changing the matrix, we cannot use the property handler for matrix
initialization, essentially duplicating the code.

Triggered by the fix to (#49347) in 749a593e49adccdf1225be28a521412ec85333f4

https://bugzilla.redhat.com/show_bug.cgi?id=852841

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@ubuntu.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1cb0261ef54b7dd6a7ef84e1c3959e424706228b
Author: Daniel Martin <consume.noise@gmail.com>
Date:    Thu Sep 6 00:38:26 2012 +0200

dix: Delete mibstore.h

Since Nov 2010 (commit c4e4676) the only purpose of mibstore.h was to
define an empty function (miInitializeBackingStore()) for backward
compatibility. Time to say goodbye.
dix: Remove refs to mi backing store from docs

Remove any reference to mibstore.h and miInitializeBackingStore() from the documentation.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 08a9ed2524679ed939fa0ad466ee3fa905b8ac4
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Thu Sep 6 00:38:25 2012 +0200

dix: Remove #includes of mibstore.h

Remove more backing store leftovers.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 76d8739b1f4ed07b874ae56a492d1e0aa0f9b04
Author: Daniel Martin <consume.noise@gmail.com>
Date:   Thu Sep 6 00:38:24 2012 +0200

dix: Delete mibstore.c

The only reference to mibstore.c was removed with commit c4e4676. Remove the file itself too.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f54987de97720200ee94eba1c7a737d4ad8c55c8
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Sep 20 21:11:21 2012 -0700

XQuartz: Add some verbose logging to debug xp_lock_window being unbalanced

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
commit 25d26875bc9bd6fd23ae1b5280f015abf1b033b7
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Sep 20 21:49:40 2012 -0700

XQuartz: Avoid a possible deadlock with DRI on OS X 10.7.5 and OS X 10.8.2

<rdar://problem/12338921>
http://bugs.winehq.org/show_bug.cgi?id=31751

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 506e3437c73e5ae935ff7c056d7808fbb0c7e614
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 20 14:22:48 2012 -0400

dix: Fix types in WindowOptRec

No reason for these to be 64 bits on LP64.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 092c57ab173c8b71056f6feb3b9d04d063a46579
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 14:03:01 2011 -0400

os: Hide the Connection{In,Out}put implementation details

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e2c7d70e5ddb8b17676a13ceebfbb87d14d63243
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 13:43:38 2011 -0400

dix: Extend initial connection handshake for forwarding proxies

Forwarding proxies like sshd will appear to be local, even though they
aren't really. This leads to weird behaviour for extensions that truly
require running under the same OS services as the client, like MIT-SHM
and DRI2.

Add two new legal values for the initial connection's byteOrder field,
‘r’ and ‘R’. These act like ‘T’ and ‘B’ respectively, but have the side
effect of forcing the client to be treated as non-local. Forwarding
proxies should attempt to munge the first packet of the connection
accordingly; older servers will reject connections thusly munged, so the
proxy should fall back to passthrough if the munged connection attempt
fails.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 31bf81772e146af79b0c456aae2159eba8b0280f
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 20 14:00:09 2012 -0400

dix: Repack ClientRec

Pick smaller types where possible, including bitfielding some Bools and
small enums, then shuffle the result to be hole-free.  192 -> 128 bytes
on LP64, 144 -> 96 bytes on ILP32.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ff8e3ad8074cd2c8bed49b39c40c2b4892118270
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 20 13:16:59 2012 -0400

dix: Pull client-is-local flag up to the ClientRec

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3f7bc222638d5d38324ecbc8c2e4e39af17d110e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 16 17:40:24 2011 -0400

os: Repack ConnectionOutput for LP64

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d01921ec18c21f21d377b60626cc2d3418b84a7c
Merge: 70e5766874 245e7e0361
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 20 17:26:48 2012 +0200

Merge remote-tracking branch 'ajax/ioperm'

commit 5109e7f6581b3e4e23700bf03b4daf0ba97630e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 20 11:19:39 2012 -0400

xfree86: Bump video ABI to 14
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 245e7e0361b18766583ae391a2ac1231bb1a1f84
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 26 14:32:31 2012 -0400

xfree86: Change the semantics of driverFunc(GET_REQUIRED_HW_INTERFACES)

This is a really awkward interface, since we're calling it well before
the driver knows what device it's going to drive. Drivers with both KMS
and UMS support therefore don't know whether to say they need I/O port
access or not, and have to assume they do.

With this change we now call it only to query whether port access might
be needed; we don't use that to determine whether to call a driver's
probe function or not, instead we call them unconditionally. If the
driver doesn't check whether port access was enabled, they might crash
ungracefully. To accommodate this, we move xorgHWAccess to be explicitly
intentionally exported (sigh xf86Priv.h) so that drivers can check that
before they attempt port access.

v2: Move initial xf86EnableIO() nearer the logic that determines whether
to call it, suggested by Simon Farnsworth.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d88fb00d791c2b19cf9dd244276838aba3a6b442
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 26 13:15:45 2012 -0400

linux: Make failure to iopl non-fatal

We load the driver list, then enable I/O, then call driver probe based
on whether I/O enable succeeded. That's bad, because the loaded
security policy might forbid port access. We happen to treat that as
fatal for some reason, which means even drivers that don't need I/O
access (like kms and fbdev) don't get the chance to run. Facepalm.

How about we just make that non-fatal instead, that sounds like a much
better plan.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 048674a6aeb61149a1b5f6b0bc3762ddf57f38ee
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 26 13:12:45 2012 -0400

linux: Refactor xf86{En,Di}ableIO

Pull platform methods into their own sections for legibility, and
rewrite the ifdefs to be more concise.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 70e5766874a919039678bb2ed75f2ceca0cb4345
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Aug 27 15:22:44 2012 +1000

xf86: fix multi-seat video device support. (v2)

If we are not seat 0 the following apply:

don't probe any bus other than platform
don't probe any drivers other than platform
assume the first platform device we match on the bus is the primary GPU.

This just adds checks in the correct places to ensure this, and
with this X can now start on a secondary seat for an output device.

v2: fix Seat0 macros
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 37d956e3ac9513b74078882df489f9b0a7a5a28
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 10 11:14:20 2012 +1000

xf86: fix compat output selection for no output GPUs

This should work properly with dynamic outputs.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit e0b92f5f86f8ce71ab4c80e9902e51e2525f9705
Author: Dave Airlie <airlied@gmail.com>
Date:   Thu Sep 13 18:44:06 2012 +1000

config/udev: ignore change on drm devices
for input devices we handle change like remove/add, but for
drm devices we get change events when we hotplug outputs,
so lets just ignore change at this level, and let the drivers
handle it. We may in the future want to route driver udev
from here instead.

Reported-by: Timo Aaltonen <timo.aaltonen@canonical.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commits 10672a5abe7d4e924844d7e41c86c24d6367a52b
Author: Dave Airlie <airlied@redhat.com>
Date: Mon Sep 10 14:48:37 2012 +1000

xf86/platform: scan pci after probing devices

This solves a race if we are trying to dynamically power off
secondary GPUs. Its not the greatest fix ever but it probably
as good as we can do for now.

The GPU probing causes the devices to be powered up, then when
we scan the PCI bus we get the correct information from the kernel,
rather than a bunch of 0xff due to the device being powered off.

drop gratuitous '&'.

Reported-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commits e47ad8a0aec7662970c7f81e6ee487330bf094c1
Author: Dave Airlie <airlied@redhat.com>
Date: Mon Sep 17 11:48:14 2012 +1000

modesetting: remove alloca usage again

this slipped back in.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commits 22746df15b5f75dc85f5cf5b73932eb8a44cb89b
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 6 16:33:54 2012 +1000

dri2: invalidate drawable after sharing pixmap

After we share the pixmap, the backing storage may have changed,
and we need to invalidate and buffers pointing at it.
This fixes GL compositors and prime windows lacking contents initially.

Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f8eb8c1cb4f453bdbe6a81815be8ecefba2084aa
Author: Alon Levy <alevy@redhat.com>
Date:   Tue Aug 28 11:46:47 2012 +1000

modesetting: add virtual connector support

[airlied: also make sure we don't crash in future.]

Signed-off-by: Alon Levy <alevy@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5eb697d88f0735e98fe9a97770dda83202b1597
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Thu Sep 13 08:45:14 2012 +0200

bump version to 0.5.0

commit f0bad69edd57facd6cfdde8eb0863d1a735e2492
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 5 14:45:08 2012 -0700

Version bumped to 1.13

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 856f80c8d7f22b979c72d9c70b70187df6004a03
Merge: 0db936a5b7 b8ab93dfbc
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 5 11:02:58 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 0db936a5b7125d9b73633733cb34e5e4b72f01e8
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Sep 3 15:09:36 2012 +1000

xf86: call enter/leave VT for gpu screens as well

Otherwise we can't do fast user switch properly for multiple GPUs.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 18deac48db0d2387242461025904eb28a0f71fac
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Aug 27 15:17:21 2012 +1000

config/udev: respect seat for hotplugged video devices.

This respects the seat tag for hotplugged video devices at X start.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ec740cffeba59216f4293fba829097654cde3b11
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Aug 27 15:15:19 2012 +1000

config/udev: add wrapper around check if server is not seat 0

this is a simple clean-up that is useful to stop further propagation of this construct.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 49ec57d5094be0dd2b67435ac7bb04ead780f36d
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Aug 24 13:23:01 2012 +1000
dix: free default colormap before screen deletion

If we don't free this here, it gets freed later in the resource cleanup, however it then looks up up pmap->pScreen, which we freed already in this function. So free the default colormap when we should.

This fixes a bug after a couple of hotplug cycles when you try to exit the X server and it crashes.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 20f601a0fbc01a4f8ab85e54ee45f78f7817cdb5
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Aug 24 12:56:18 2012 +1000

xf86/crtc: don't free config->name

This is set by pre_init not screen init, so if we free it here
and then recycle the server, we lose all the providers.

I think we need to wrap FreeScreen here to do this properly, will investigate for 1.14 most likely, safer to just leak this on server exit for now.

 Reviewed-by: Keith Packard <keithp@keithp.com>
 Signed-off-by: Dave Airlie <airlied@redhat.com>

commit b8ab93dfbc7f292b5bfe7e9113e1af824ccbd1a8
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue Aug 28 10:06:51 2012 -0700

list: Use offsetof() and typeof() to determine member offsets within a structure

Some compilers have difficulty with the previous implementation which relies on undefined behavior according to the C standard. Using offsetof() from <stddef.h> (which most likely just uses __builtin_offsetof on modern compilers) allows us to accomplish this without ambiguity.

This fix also requires support for typeof(). If your compiler does not support typeof(), then the old implementation will be used. If you see failures in test/list, please try a more modern compiler.

v2: Added fallback if typeof() is not present.

 Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
 Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 148583d62b84832369e9df39b3e527b99ca96761
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 29 09:11:35 2012 +1000

tests: move GCC diagnostics pragma outside of function

This is a gcc 4.6+ feature.

signal-logging.c:210: error: #pragma GCC diagnostic not allowed inside functions

 Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
 Reviewed-by: Dave Airlie <airlied@redhat.com>
 Signed-off-by: Keith Packard <keithp@keithp.com>

commit c75e947b6e9bc725821b28835f3667c4aabcdef9ee
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Tue Aug 28 12:43:55 2012 -0700
test/list: Fix test_xorg_list_del test

We never use child[2], so it's state is undefined.

This issue seems to have existed since the test was first written: 92788e677be79bd04e5ef140f4ced50ad8b1bf8e

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 486038fe16957b39d39842365c5409e494c9a8df
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Aug 27 22:35:51 2012 -0700

XQuartz: Bump Info.plist version to 2.7.4

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit b90b3f6aeac34616c46ab693fafeb67b73a04f407b
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Mon Aug 27 17:15:19 2012 -0700

test: Make os test more compliant

sighandler_t is not UNIX.

Regression from: 7f09126e068015db54c56b982b8f9108575700

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a557edca6152ad09c685a00e01534c35a1f00f2e
Merge: 6619f5c0e1 24ffcfceded
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 27 08:06:09 2012 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 24ffcfced6b4b024958801e8a6cec36d9a3e3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 20 10:28:26 2012 +1000

    os: fix typo, fsync when WIN32 is _not_ defined

    Introduced in 164b38c72fe9c69d13ea4f9c46d4ccc46566d826

    Reported-by: Jon TURNEY <jon.turney@droncode.org.uk>
mi: don't check for core events in miPointerSetPosition (#53568)

As of 81cfe44b1ed0de84ad1941fe2ca74bebef3fc58d, miPointerSetPosition now returns the screen pointer of the device. This broke floating slave devices, as soon as a motion event was submitted, miPointerSetPosition returned NULL, crashing the server.

dev->coreEvents is only false if the device is a floating slave, in which case it has a sprite.

X.Org Bug 53568 <http://bugs.freedesktop.org/show_bug.cgi?id=53568>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

Relase 1.12.99.905

RC with updated ABI version numbers.

Signed-off-by: Keith Packard <keithp@keithp.com>

dix: work around scaling issues during WarpPointer (#53037)

In WarpPointer calls, we get input in screen coordinates. They must be scaled to device coordinates, and then back to screen coordinates for screen crossing and root coordinates in events.

The rounding errors introduced (and clipping in core/XI 1.x events) can lead to the actual position being different to the requested input coordinates. e.g. 200 scales to 199.9999, truncated to 199 in the event.

Avoid this by simply overwriting the scaled screen coordinates with the input coordinates for the POINTER_SCREEN case.
X.Org Bug 53037 <http://bugs.freedesktop.org/show_bug.cgi?id=53037>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1ebba43052d68d874148e63c9ae38489ddf5ec1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 15 14:49:04 2012 +1000

os: don't block signal-unsafe logging, merely warn about it.

Throw an error into the log file, but continue anyway. And after three
warnings, stop complaining. Not all input drivers will be fixed in time (or
ever) and our printf implementation is vastly inferior, so there is still a
use-case for non-sigsafe logging.

This also adds more linebreaks to the message.

CC: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4912b4adb666dad96b832ab2d7caaae49808723e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 13 14:44:44 2012 +1000

os: add support for %d and %i to pnprintf

The mouse driver uses %i in some debug messages

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 7f8c39c8b5ef89153ecd84d16331e96d8feb18ef
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 13 14:24:36 2012 +1000

Add FormatInt64 to convert signed integers in signal-safe manner

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 36c1d92ec0ef0f3927034a12d4cb79dccc22bd185
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 13 12:24:39 2012 +1000

test: add a few tests for signal-safe logging
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b69536b475118a8787c1726355b504207bf83f8f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 13 11:15:54 2012 +1000

test: assert from signal-safe number conversion

Throw an assert when the conversion fails instead of just returning. Asserts are more informative.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 3e091e1075dc29120e54ab2ef110b04ce7383fffd
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Aug 17 11:26:05 2012 -0700

xfree86: Bump extension ABI to 7.0

Commit 9d457f9c55f12106ba44c1e9db59d14f978f0ae8 added an array of DevPrivateSetRec structures in the middle of the ScreenRec, which throws off extension modules trying to call things like pScreen->DestroyPixmap.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ac616d8ed5a634c6b32775eb7b071a13c575fd97
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Aug 16 19:09:42 2012 -0700

XQuartz: Use asl_log_descriptor for children as well

This change is #if'd out due to a bug in asl_log_descriptor, but it is left here as reference to be enabled in the future.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit ad123071e54d890d36d1373f59b8a6eb4937e936
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Thu Aug 16 13:02:28 2012 -0700

XQuartz: Use asl_log_descriptor on Mountain Lion

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
commit 7c3d2e4828deb4e8ec38e8ef88d6f92b2d931033
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:    Thu Aug 16 19:42:54 2012 -0700

XQuartz: console_redirect: Properly zero-out the tail of the array on realloc()

We forgot to multiply by sizeof(), so it wasn't fully zeroed out.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit a32e01802ff1c938e0afe0cc007a273b9ada8610
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:    Thu Aug 16 15:43:34 2012 -0700

XQuartz: console_redirect: Set the correct location for reading into the buffer

Prior to this change, it was possible that a large message would have some
of its data prepended to subsequent messages due to our not incorrectly
setting the location to write into the buffer.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit e3d7d518e3281677890064679af459e1af108cf
Author: Adam Jackson <ajax@redhat.com>
Date:    Thu Jul 19 22:15:10 2012 +0000

Implement ->driverFunc

Copied from fbdev, makes it so we can run without iopl.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ad5fe2d9614959b68bf71e23abf7e5abac9e2734
Merge: 16d8da5ca9 99b94af1ff
Author: Keith Packard <keithp@keithp.com>
Date:    Wed Aug 15 13:29:17 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 16d8da5ca99211bd180f532d78d7e5943d38c8ad
Author: Paul Berry <stereotype441@gmail.com>
Date:    Tue Jul 31 15:15:56 2012 -0700

glx: Skip multisampled configs when matching pre-existing X visuals.

In __glXScreenInit() we generate the set of GLX visuals in two steps:
first we match each pre-existing X visual with a corresponding
FBConfig, then we generate a new X visual to correspond to all the
remaining FBConfigs.

The first step is used for the two default 24-bit visuals (true color and direct color) and for the 32-bit visual. If windowsystem multisampling is enabled in Mesa, we need to ensure that none of these three visuals gets matched to a multisampled config.

Fixes a bug with windowsystem multisampling in gnome-shell. If the X server happens to match up a multisampled FBConfig to the 32-bit visual, gnome-shell will try to use it to read pixels from alpha-blended windows (such as gnome-terminal), resulting in no window appearing on screen.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Chad Versace <chad.versace@linux.intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 99b994af1ffber7047f88e7d6c594242d172bec02
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Aug 15 10:28:16 2012 -0700

XQuartz: Fix build regression for GlxExtensionInit

quartz.c:153:6: error: use of undeclared identifier 'GlxExtensionInit'; did you mean 'GEExtensionInit'? [Semantic Issue]

Regression-from: aad428b8e21c77397c623b78706eb64b1fefa77c9
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c0540b4c8db676d18a9a09828f1590b0b16f9ebc
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 7 17:49:48 2012 -0700

Kludge -- Call RandR screen before cleaning up xf86 crtc

The core RandR screen cleanup now involves cleaning up any GPU screen associations, and those call down into DDX to clean up the driver. If the pointers from the xf86 structures back to the core randr structures are set to NULL at that point, bad things happen.

This patch "knows" that the core RandR close screen is underneath the xf86 randr close screen function, and so makes sure it gets called first.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Close GPU screens before core screens

This should make cleaning up the GPU screens easier as the core screens they are associated with will still be around.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

Only free Render filter names on last screen close

Hotplugging screens causes the render filter names to get freed while still in use: wait for the last core screen to be closed before freeing them. That only happens at server reset, when we want them to be freed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

fb: reorder Bresenham error correction to avoid overshoot.

When fbBresSolid draws a line, it can happen that after the last pixel, the Bresenham error term overflows, and fbBresSolid paints another pixel before adjusting the error term.

However, if this happens on the last pixel (len=0), this extra pixel might overshoot the boundary, and, in rare cases, lead to a segfault.

Fix this issue by adjusting for the Bresenham error term before drawing the main pixel, not after.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=24274
Signed-off-by: Simon Schubert <2@0x2c.org>
Tested-by: Mitch Davis <mjd@freedesktop.org>@afork.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Release 1.12.99.904

Closing the non-critical bug window for 1.13

Signed-off-by: Keith Packard <keithp@keithp.com>

Distribute include/glx_extinit.h

This changed should have been in aad428b8e21c77397c623b78706eb64b1fea77c9

Signed-off-by: Keith Packard <keithp@keithp.com>

Bump glproto requirement to 1.4.16

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Merge remote-tracking branch 'whot/for-keith'

Merge remote-tracking branch 'airedl/for-keithp'

Merge remote-tracking branch 'airedl/for-keithp'

Merge remote-tracking branch 'airedl/for-keithp'
Merge remote-tracking branch 'alanc/master'

commit 7f09126e068015db54c56bb982b8f91065375700
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 3 15:36:34 2012 +1000

  os: don't unconditionally unblock SIGIO in OsReleaseSignals()

  Calling OsReleaseSignal() inside the signal handler releases SIGIO, causing
  the signal handler to be called again from within the handler.

  Practical use-case: when synaptics calls TimerSet in the signal handler,
  this causes the signals to be released, eventually hanging the server.

  Regression introduced in 08962951de.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cb306a8f174bec9ded95191b91797f59250e6808
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 31 16:09:38 2012 +1000

  dix: make sure the mask is set for emulated scroll events (#52508)

  If a device has smooth scrolling axes, but submits scroll button events, we
  convert those to motion events and update the valuators. For legacy button
  events, the valuator mask is likely unset though, causing
  add_to_scroll_valuator() to return early, leaving us with an empty mask.
  That again skipped the rest of the code and no events were generated.

  Fix it by making sure that the scroll valuator in the mask is at least
  initialized to 0.

  Broke evdev wheel emulation, introduced by
  54476b5e4461f523e935961affabc0fde12c556.

  X.Org Bug 52508 <http://bugs.freedesktop.org/show_bug.cgi?id=52508>

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4a6f42dda00ba3b5616f8a86f0d4e9a652c7d9d4
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 23 16:34:28 2012 -0400

  sync: Fix logic error from b55bf248581dc66321b24b29f199f6d8c8d02db1b
That commit adds two hunks, and I _think_ they're backwards. It adds code to modify `bracket_greater` on NegativeTransition triggers, and `bracket_less` on PositiveTransition triggers. That breaks symmetry with the surrounding code; the code as of this commit could probably be simplified further.

I can't keep the sync trigger rules in my head for more than about five minutes at a time, so I'm sending this on for more eyes. RHEL 6.3's xserver is shipping with b55bf248 reverted:

https://bugzilla.redhat.com/show_bug.cgi?id=748704#c33

And there appear to be some upstream reports of the same issue:

https://bugzilla.gnome.org/show_bug.cgi?id=658955

So I'd like to get this sorted out.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 454d0e3a1bb14d7f2579ccb5e513cec5686160e7
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jul 26 12:56:51 2012 +1000

`randr: fix xinerama output for output slaves`

This fixes the xinerama geometry when output slaves are enabled.

Tested with xdpyinfo -ext XINERAMA before after slave added.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ac09a4a091a43188241365152e1244fd8fd93ee7
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Aug 3 16:43:22 2012 +1000

`dri2: fix master pixmap free and reset pointer`

These are two minor changes, one to reset the pointer to NULL, after freeing the pixmaps, one to make sure we use the right API for the master pixmap, though I doubt it'll ever really matter.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
commit 64623ef90db649e89345f71871affc7a9606f6ea
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Aug 3 16:42:44 2012 +1000

dri2: free slave pixmap on app exit

When the drawable disappears we need to free the prime master/slave combos.

This fixes a leak after a prime app is run.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit 1a465fef9bc21142eecca3999f0761a3c0501a09
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Aug 3 16:41:45 2012 +1000

pixmap: have slave pixmap take a reference on master pixmap

Since the free routines free the master pixmap then the slave, we should be taking a reference when we bind them together.

Fixes a use-after-free when resizing a primed gears.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>

commit c37c65052f674cd58894ad0b9ec22928a62c624e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 16 21:12:06 2012 -0700

Make indentation of dix/tables.c much more consistent and readable

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 9f7ef7f7f0566f6319d8328ce0a1e6d0fa866720
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 16 20:53:00 2012 -0700

Fix up formatting of initializers for arrays of structs

The indenter seems to have gotten confused by initializing arrays of structs with the struct defined inline - for predefined structs it did a better job, so match that.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit c7b7abfa068042e396d19538215402cfbb4f1e4
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Jul 14 11:21:15 2012 -0700

RRModeCreate: plug memory leak of newModes if AddResource fails

Reported by parfait 1.0:

Error: Memory leak (CWE 401)
Memory leak of pointer 'newModes' allocated with realloc(((char*)modes), ((num_modes + 1) * 8))
at line 93 of randr/rrmode.c in function 'RRModeCreate'.
   pointer allocated at line 82 with realloc(((char*)modes), ((num_modes + 1) * 8)).
Error: Memory leak (CWE 401)
Memory leak of pointer 'newModes' allocated with malloc(8)
at line 93 of randr/rrmode.c in function 'RRModeCreate'.
   pointer allocated at line 84 with malloc(8).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1eb7be863353be2cf3e83738253eb60c5fe49d19
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Jul 14 09:29:52 2012 -0700

rrproperty.c: free newly allocated prop in more error paths

Reported by parfait 1.0:

Error: Memory leak (CWE 401)
Memory leak of pointer 'prop' allocated with RRCreateOutputProperty(property)
at line 220 of randr/rrproperty.c in function 'RRChangeOutputProperty'.
   'prop' allocated at line 154 with RRCreateOutputProperty(property).
   prop leaks when pending != 0 at line 160.
Error: Memory leak (CWE 401)
Memory leak of pointer 'prop' allocated with RRCreateOutputProperty(property)
at line 346 of randr/rrproperty.c in function 'RRConfigureOutputProperty'.
   'prop' allocated at line 334 with RRCreateOutputProperty(property).
at line 350 of randr/rrproperty.c in function 'RRConfigureOutputProperty'.
   'prop' allocated at line 334 with RRCreateOutputProperty(property).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 42e655de4d95eb108ae50eefc6bbdb709bb13d7
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Jul 10 23:29:53 2012 -0700
rrproviderproperty.c: free newly allocated prop in more error paths

Reported by parfait 1.0:

Error: Memory leak (CWE 401)

Memory leak of pointer 'prop' allocated with RRCreateProviderProperty(property)
at line 221 of randr/rrproviderproperty.c in function 'RRChangeProviderProperty'.
'prop' allocated at line 155 with RRCreateProviderProperty(property).
prop leaks when pending != 0 at line 161.

Error: Memory leak (CWE 401)

Memory leak of pointer 'prop' allocated with RRCreateProviderProperty(property)
at line 345 of randr/rrproviderproperty.c in function 'RRConfigureProviderProperty'.
'prop' allocated at line 333 with RRCreateProviderProperty(property).
at line 349 of randr/rrproviderproperty.c in function 'RRConfigureProviderProperty'.
'prop' allocated at line 333 with RRCreateProviderProperty(property).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 94b514d5e4b376d054e106eb3853da511256e8545
Merge: 7d87545ba77328900042
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 6 15:13:17 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 7d87545ba77395ade507cca7bdca7052b26ed18d8
Merge: ad707a7dccc988d7ace19
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 6 15:11:13 2012 -0700

Merge remote-tracking branch 'jturney/master'

commit ad707a7dccc65c30e030c7600b54f734090e56a91
Merge: 5a51cb86f3884f51e977
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 6 15:08:01 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 5a51cb86f39a6809305e403beea54c3625d3e6259
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 10 23:09:47 2012 -0700

xfree86: When xf86CrtcCloseScreen is called, the randr CRTC structures are gone

The RandR CRTC structures are freed when their resource IDs are
destroyed during server shut down, which is before the screen is
closed. Calling back into RandR with stale pointers just segfaults the
server.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Tested-by: Knut Petersen <knut_petersen@t-online.de>

commit 1bf81af4a6be1113bce3b940ab264d5e9e00c5d
Author: Rui Matos <tiagomatos@gmail.com>
Date: Mon Jul 30 14:32:12 2012 -0400

xf86RandR12: Don't call ConstrainCursorHarder() if panning is enabled

Panning is at odds with CRTC cursor confinement. This disables CRTC cursor
confinement as long as panning is enabled.

Fixes regression introduced in 56c90e29f04727c903bd0f084d23bf44eb1a0a11.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ff56f88616aa63797384c2c484b2bd0f194df96a
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jul 30 14:32:11 2012 -0400

randr: Fix up yet another corner case in preferred mode selection

Let's say - purely for the sake of argument, mind you - that you had a
server GPU with anemic memory bandwidth, and you walked up to it and
plugged in a monitor that was 1920x1080 because that's what happened to
be on the crash cart. Say the memory bandwidth is such that anything
larger than 1280x1024 gets filtered away. Now you're in trouble,
because the established timings section includes a 720x400 mode because
that's what DOS 80x25 is, and that happens to just about match the
physical aspect ratio.

Instead let's reuse the logic from the existing aspect-match path: pick
the larger mode of either the physical aspect ratio or 4:3.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 531785dd746d64ef7f473a83ca73bb20e74b6fca
Author: Dave Airlie <airlied@redhat.com>
kininput: allocate enough space for null character.

This code wasn't allocating enough space and was assigning the NULL one past the end.

Pointed out by coverity.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8843aed82e7d694d22e7763a35832a2be8126723f
Author: Vic Lee <llyzs@163.com>
Date:   Mon Jul 30 14:32:09 2012 -0400

ephyr: Resize screen automatically when parent window is resized

Bugzilla: https://bugs.freedesktop.org/25804
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Vic Lee <llyzs@163.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b46bbafae6d0a8b3f2f7853d5c1475fc223b1ed6
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 30 14:32:08 2012 -0400

ephyr: Fix up some bizarre formatting

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7328900042b9c1312a48753d6054e64613e4c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 30 23:37:06 2012 -0700

XIChangeDeviceProperty: free newly allocated prop when SetProperty fails

Reported by parfait 1.0:

Error: Memory leak (CWE 401)
  Memory leak of pointer 'prop' allocated with XIChangeDeviceProperty(property)
  at line 774 of Xi/xiproperty.c in function 'XIChangeDeviceProperty'.
  'prop' allocated at line 700 with XIChangeDeviceProperty(property).
  prop leaks when handler != NULL at line 768
    and handler->SetProperty != NULL at line 769
and checkonly != 0 at line 772
and rc != 0 at line 772.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4dbbcdf64563cb95f83c04b2442cb7e868384264
Author: Daniel d'Andrada <daniel.dandrada@canonical.com>
Date:   Thu Jul 26 17:31:57 2012 -0300

Do sent TouchEnd to listeners that don't own an accepted touch

When the owner of a touch accepts it, the other listeners must receive a TouchEnd.

Even though there's code implementing the logic above in ProcessTouchOwnershipEvent(), DeliverTouchEndEvent() was refusing to send those TouchEnd events in this situation.

Signed-off-by: Daniel d'Andrada <daniel.dandrada@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 02d91ccb0955252153206061a44340f051077624
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 21 15:42:17 2012 +1000

test: always add DIX_LIB and OS_LIB on XORG builds

With --disable-xorg, We also disabled a bunch of tests because of their perceived reliance on a DDX. The cause was libtool missing some object files that never ended up in libxservertest.la. Only the xfree86 test has a true dependency on XORG.

DIX_LIB was pointing to dix.O (instead of libdix.la) when DTRACE_SPECIAL_OBJECTS was defined. libdix.la should be part of XSERVER_LIBS but dix.O is not a recognised libtool object, so it got skipped for libxservertest.a. Only in the XORG case would we add DIX_LIB and OS_LIB manually, thus forcing linkage with the dtrace-generated objects.

Fixing this by packaging up the dtrace-generated files as part of libdix.la/libos.la doesn't work for Solaris (and possible others), so simply always force linkage against the DIX_LIB/OS_LIB in the case of dtrace objects.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Tested-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Commit 988d7ace19a009991a4528e783d1a94c2444e66a
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Jul 5 09:38:44 2012 +0100

glx: Do not report the GLX_INTEL_swap_event extension for indirect swrast

Commit 84956ca4 bogusly adds GLX_INTEL_swap_event to the extensions reported by swrast.

"DRI2 supports this now - and already enables it explicitly - but drisw does not and should not. Otherwise toolkits like clutter will only ever SwapBuffers once and wait forever for an event that's not coming."

(A similar bug for direct swrast is already fixed in mesa commit 25620eb1)

(Not that this may be papering over the cracks somewhat, as if we do report GLX_INTEL_swap_event, some clutter apps fail with GLXBadDrawable calling GLXChangeDrawableAttributes to change the setting of GLX_BUFFER_SWAP_COMPLETE_INTEL_MASK in the GLX_EVENT_MASK, apparently after the drawable is destroyed, which suggests a bug with GLXDrawable lifetimes)

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

Commit fd3d45c137bb849aa9030d732ea9277292e01d3d
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Jul 5 09:34:24 2012 +0100

glx: Don't note GLX_INTEL_swap_event as being required by GLX 1.4, it isn't.

Don't note GLX_INTEL_swap_event as being required by GLX 1.4, it isn't.
(This data is not currently used in the server)

(A similar change is made in mesa commit d3f7597be9ff6d5)

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

Commit a846d4f28dea78201e3e4398eb3bcb745e10087
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sun Jul 22 13:15:02 2012 +0100

os: Fix TMP fall-back in Win32TempDir()

Fix Win32TempDir() in the case where we fell back to checking the TMP environment variable. It looks like this has been wrong since forever.
open source used in field network director for virtual machine installation 4.7.1 34313

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit f6e7b82acafca8239edc0f7e72cd0f3f9cfe2c4
Author: Marc Haesen <marha@users.sourceforge.net>
Date: Sat Jul 21 21:18:44 2012 +0100

hw/xwin: Fixes to pixelFormat <-> fbConfig conversion in WGL mode

Fix FIXME in fbConfigToPixelFormat() to correctly populate RGBA-mask shift parameters. Also request colourindex pixelFormats correctly.

Now that they are requested correctly, don't skip colorindex visuals when converting pixelFormats to fbConfigs.

Populate transparent colour information when converting pixelFormat from DescribePixelFormats() to a fbConfig.

Signed-off-by: Marc Haesen <marha@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 45c432871d6a244e9e558a6a4e7c36e90764135e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Jul 21 14:13:37 2012 +0100

hw/xwin: Introduce winProcessXEventsTimeout() to the concept of fractions of a second

Oh this is terrible.

Currently we only compute the select timeout in whole seconds. This means if we have less than 1 second remaining, we select with a timeout of 0 (i.e. poll) which causes the task to spin, burning 100% CPU for the remaining timeout (and possibly preventing the process we are waiting for from running :S)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 23ed4d0174194e10721d26e465fd1a1c52f001520
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Jul 21 12:33:05 2012 +0100

hw/xwin: Fix winUpdateWindowPosition() not to assume WS_EX_APPWINDOW style

Also improve it's debug output a bit

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
commit 527cf13135cfd279733060e0028bbfbe02be5167
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Jul 21 14:09:16 2012 +0100

hw/xwin: Make winOverrideIcon() thread-safe for icon data access

winOverrideIcon() is called from the internal WM client thread.

Accessing server-internal data structures to get icon data or window hints is
not safe, as there is no lock to ensure we do not collide with these data
structures being updated in the server thread.

Rewrite so the internal client thread uses X client calls to obtain this data
safely

We used to also set the icon inside the server when the window was initially
created. For simplicity, we simply send a message to the internal WM to update
the icon when the window is created (rather than writing different icon update
code which can work in the server thread for that one case...)

extwm mode used to do the icon update in the server. I'm not sure that actually
made much sense. Let's assume the external WM client can do it instead...

v2
Make sure that WM_WM_ICON_EVENT does nothing for override-redirect windows

v3
Reinstate check that native window actually has expected properties for an X
window before trying to update it's icon; some auxiliary windows owned by the
XWin process don't, which would cause a crash

v4
Various fixes to pixmap icon conversion:
- remove left-over malloc in winScaleXimageToWindowsIcon causing a memory leak
- don't recalculate DDBitmap stride in winScaleXimageToWindowsIcon, when we already have worked it out
- properly check that XGetWindowProperty(NET_WM_ICON) returned some data
- don't try to retrieve WM_HINTS icon_mask if it isn't set
- restore accidentally dropped calculation of effBpp, stride, maskStride of output DDBitmap
- make sure imageMask is zero-initialized before we use it to mask the DDBitmap

v5
Remove a left-over unused variable

v6
Avoid XDestroyImage(NULL) crash if XGetImage failed for icon_pixmap

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
hw/xwin: Also update icon when _NET_WM_ICON property changes

_NET_WM_ICON property is also considered to decide on the window icon, so also send a WM_WM_ICON_EVENT message to the WM if the PropertyNotify event is for _NET_WM_ICON property

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a07541f1fffc28c57a762bee9c7b0ac49b0a4
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Jul 22 16:15:12 2012 +0100

hw/xwin: Rename WM_WM_HINTS_EVENT to WM_WM_ICON_EVENT

WM_WM_HINTS_EVENT only updates the icon, so rename it to WM_WM_ICON_EVENT

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 884f51e9770c9cc0b38a14ea393ea27a5ef235
Author: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
Date:   Wed Aug 1 18:46:08 2012 -0700

XQuartz: Fix xp_window_bring_all_to_front linking on OS versions with older libXplugin

Found-by: Tinderbox
Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>
pbproxy: Fix a warning about a bad method prototype

x-selection.m:1502:1: warning: method has no return type specified; defaults to 'id'
[-Wmissing-method-return-type,Semantic Issue]
  - init
  ^
  (id)
I warning generated.

Signed-off-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit f193907f1b2f8d17dac9b59b7e93ddbb0f4e31ca
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Fri Jun 22 14:56:22 2012 +0100

Fix pseudoramiX.c compilation without darwin.h

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston Sequoia <jeremyhu@apple.com>

commit 067931ccce592e319baffa26d4f7380d8d924537
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jul 23 12:16:36 2012 +0100

hw/xquartz: Various fixes for pseudoramiX.c

Various fixes, applied to panoramiX.c in commit 2b266eda, also need applying to pseudoramiX.c:
  Fix panoramiX request and reply swapping
  Set window and screen values in panoramix replies
  Prevent buffer overrun in ProcPanoramiXGetScreenSize

These fixes seem to be necessary in order to compile pseudoramiX.c with gcc

pseudoramiX.c: In function 'ProcPseudoramiXGetState':
pseudoramiX.c:221:56: error: call to 'wrong_size' declared with attribute error: wrong sized variable passed to swap
pseudoramiX.c: In function 'ProcPseudoramiXGetScreenCount':
pseudoramiX.c:250:62: error: call to 'wrong_size' declared with attribute error: wrong sized variable passed to swap
pseudoramiX.c: In function 'ProcPseudoramiXGetScreenState':
pseudoramiX.c:283:56: error: call to 'wrong_size' declared with attribute error: wrong sized variable passed to swap
pseudoramiX.c:284:57: error: call to 'wrong_size' declared with attribute error: wrong sized variable passed to swap
glx: drop GLX_LIBS from X server and workaround sdksyms.

We've had reports of two copies of the GLX bits, one in the server and one in libglx.so causing problems, I didn't understand why the X server needed a copy so drop it, however then we have to fix a missing GlxExtensionInit that comes from sdksyms, so work around it by moving that one declaration into a header that sdksyms doesn't scan.

Thanks to Jon Turney for debugging the actual problem.

(copyright header from extinit.h that seems most appropriate put on top).

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=52402
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit afa53fe7c1f1f25ca818cb955a78c0c1c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 19 15:00:05 2012 -0400

doc: Drop XAA references from xorg.conf man page

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dea928477bf835a13b2bd2b16c0dbaaaf5468130c
xfree86: Drop some dead XAA decls from SDK headers

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

cw: Remove

XAA was the only consumer.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Acknowledged-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 20b4d90f32b3ca5def5be2fd04a91ae6c47f125
Merge: 83df169538 fd228d3184
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 25 13:52:35 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit fd228d318428d00d9dea52ca560a9b66660d2d2d02
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jul 25 11:40:33 2012 -0700

XQuartz: Call xp_window_bring_all_to_front if available in libXplugin

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 83df169538bddief3a61e2c5e02aaf3e10af93b60
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Jul 20 00:59:20 2012 -0700
dix: don't use "new" as a parameter name

"new" is a reserved word in C++.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 02811f1a9cc35c5f82acb0459cb3910165e7c45
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jul 19 14:12:59 2012 +1000

modesetting: add output slave support.

This allows the driver to operate as an output slave.

It adds scan out pixmap, and the capability
checks to make sure they available.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit fa171c5a81b1c226b5da54f35e6726d9e13af
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Jun 5 14:43:21 2012 +0100

modesetting: add platform bus support

commit 709dbc68cdea9d282ba318c1cbe76614e98f41c4
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jul 25 15:38:34 2012 +1000

modesetting: fix warning about close being undefined.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 71b86ea8dd69f21d090edd4f61698ad11b952d5e
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jul 25 15:33:52 2012 +1000

modesetting: drop useless xf86PciInfo include

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3b7f313b3d74f9df876152c55d55cbb339bf2d02
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jul 24 00:32:30 2012 -0700

XQuartz: Fix runtime regressions introduced by extension loading changes
* GLX is now loaded
* PseudoramiX loading is back in miinitext. It needs to be loaded before RandR.

Regression-from: 27a624bee66d2797eacf90317054207dce248028
Regression-from: 5f5bbbe543f65c48ecbb5cce80116a86ca3fbe86

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0d64e88a31a89d28f2ded9b8e83e93632870a16
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jul 23 23:16:29 2012 -0700

XQuartz: Build fix for __GLXscreen::createContext changes

Regression-from: 96d74138b1c0273e88933220d99a893858b649cd

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 77de2994774e7be24a0bad521180628feb1027c6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 17 15:47:39 2012 -0700

Bump to version 1.12.99.902

Signed-off-by: Keith Packard <keithp@keithp.com>

commit beeaa70495a8d5c4afc1b1eb2cc06a24ab1a986d
Merge: 6e438a0e186910280297
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 17 12:17:39 2012 -0700

Merge remote-tracking branch 'alanc/master'

commit 6e438a0e183af5a6c22070746c038af53d5b935ca
Merge: 5884e7dede75966a4186
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 17 12:12:53 2012 -0700

Merge remote-tracking branch 'jturney/master'

commit 75966a4186955f3a4625e93796145036c5986d2e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 13 14:36:25 2012 -0700

xwin: Clean up os wrappers for System, Popen and Pclose on Windows
Popen and Pclose are never used on Windows, so don't bother to even try to define them.

System(s) was defined as system(s), but the two users of that function are in xkb, which carefully redefines that as Win32System. Move Win32System and Win32TempDir to os/utils.c, renaming Win32System to be just System, which simplifies the xkb code

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit 6910280297ab610100dd8e7fbc5bb5cc08968f2f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Jul 14 10:54:36 2012 -0700

Use C99 designated initializers in DRI2GetParam replies

DRI2GetParam was going through review in parallel with main batch of C99 initialization changes - sync up now that both have landed.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a6c5b8d3ee053c6f685b0e4de96407ad6df4dd4
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Jul 14 10:50:41 2012 -0700

Use C99 designated initializers in RandR 1.4 extension Events

RandR 1.4 was going through review in parallel with main batch of C99 initialization changes - sync up now that both have landed.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ada04ef0ca8a1213e865ba2c000cc6ed6d0e371
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Jul 14 10:45:29 2012 -0700

Use C99 designated initializers in RandR 1.4 extension Replies

RandR 1.4 was going through review in parallel with main batch of C99 initialization changes - sync up now that both have landed.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit fb73f7f40fa46458990038332017d4496ca0691
Fix two more C99 initialization mistakes using members of same struct

Similar to 34cf559bc9f9dad, use temporary variables instead of referencing members of the struct being initialized in the middle of the initialization.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

xf86: Re-export extension disable flags

These flags were unexported by commit a1d41e311c21eb6627caa0d168e070ceaf90806f, which moved the declarations around and lost the _X_EXPORT attributes in the process. Since drivers need these and it's late in the release cycle, just re-export them for now.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Andy Ritger <aritger@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

hw/xwin: Refer to xkeyboard-config man page for XKB configuration option values

Also polish the keyboard configuration text a bit
Include man section number in references to setxkbmap
Consistently refer to 'manual page' rather using both that and 'man page'

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

hw/xwin: Fix command line arguments for multiple monitors.

Moving Xwin to a certain monitor using "-screen 0 @2" would fail, printing "ddxProcessArgument - screen - Querying monitors failed".
This happened since commit 3ead1d810b0e157078db39712e02ea6dc85216d8, because EnumDisplayMonitor() returns FALSE if its callback function returns FALSE (which is not clearly documented), and QueryMonitor() would then also return FALSE.

Moving back to the old behaviour, where the return value of EnumDisplayMonitors() is ignored.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 18801f5e5a98d80f4811ade8c98df65175b1935a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 10 09:27:16 2012 +0000

hw/xwin: Remove unused WindowExposuresProcPtr storage in screen private

We don't wrap the WindowExposures screen function

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8fd30859c293035fe505da76d87e64131bd5bc0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 10 13:25:32 2012 +0000

hw/xwin: Remove long obsolete README for hw/xwin

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3568d4af4ff2490c79286d242916e81afed57b58
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Feb 23 22:32:09 2012 +0000

hw/xwin: Remove a pointless OS version check in winInstallKeyboardHookLL()

Checking for OS later than NT4 SP3 (which we didn't do correctly anyhow, just checking for NT) is pointless when other code in hw/xwin assumes at least NT 5.0

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0ed0d3979050c4ee7bef64441d50c494d58d93b0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Jul 5 22:08:38 2012 +0100
hw/xwin: Remove winClipboardDetectUnicodeSupport()

This code for detecting if the Windows clipboard can support unicode is long obsolete.

All NT versions of Windows support unicode clipboard, so any version of Windows we can run on must support unicode clipboard.

The -nounicodeclipboard flag to disable use of unicode on the clipboard is retained.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c98471fad7d85fc9d9959b1c48ed90415f7bf15
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Jul 5 18:00:06 2012 +0100

hw/xwin: Consolidate duplicated code as getHwnd() function

Consolidate code to find the native HWND of an X window, stored in the _WINDOWSWM_NATIVE_HWND property, duplicated in UpdateName() and PreserveWin32Stack() as getHwnd()

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit df7636dddb4981e14ee7d128c43bb08bdf6a8727
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Jul 5 14:20:52 2012 +0100

hw/xwin: Correct function name in log message

Correct function name in log message winInitializeDefaultScreens -> winInitializeScreenDefaults

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9cdd3ed07425b222e8197b9a2f57ec1525c6fd54
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Mar 16 12:56:45 2012 +0000

hw/xwin: Tidy up some more pointless output which is always emitted

It's not very useful to log lines like the below when the About.. dialog is used

winAboutDlgProc - WM_COMMAND - IDOK or IDCANCEL
winAboutDlgProc - WM_CLOSE
hw/xwin: RANDR resize didn't occur when screen window was maximized or restored

In windowed mode, with option -resize, RANDR resize was missing when the screen window was maximized or restored.

hw/xwin: Bug fixes for screen sizing when the screen window is on a non-primary monitor

There is a bug that when the -screen option is used to specify a monitor for the screen window to be located on, but no explicit size is specified (and the -multiplemonitors option isn't specified), the screen window size is always constrained to fit the work area of the primary monitor (rather than the work area of the specified monitor)

This gives incorrect results if you want a screen the same size as your non-primary monitor (e.g. by using -screen 0 @2) and your non-primary monitor is larger than your primary monitor.

(This can be worked around by specifying -multiplemonitors and an explicit screen size the same size as the monitor (e.g. -multiplemonitors -screen 0 1600x1200@2))

Fix to use work area for the monitor specified for the screen, rather than the primary monitor work area (unless -multiplemonitors is used, in which case we continue to use the virtual desktop work area instead)

Also fix the adjustment for an autohide taskbar, so that it is only done if the taskbar is on the same monitor as the screen (or -multiplemonitors is used)
hw/xwin: Tidy up some pointless output which is always emitted

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9fe9c5f868886abf671b3be3964af1965dd92472
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:  Sun Feb 13 18:52:52 2011 +0000

hw/xwin: Don't bother reporting XORG_VERSION_CURRENT

Don't bother reporting XORG_VERSION_CURRENT, when we also
report the version number broken down into it's components
XORG_VERSION_MAJOR, XORG_VERSION_MINOR, etc. as well.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit d5977e5bd2c8ee77db08d5f948f266c9661b9fb5
Author: Dave Airlie <airlied@gmail.com>
Date:  Fri Jul 13 00:28:19 2012 +1000

xf86: include xf86platformBus.h in xf86AutoConfig.c

This fixes an implicit declaration,
xf86AutoConfig.c:202:5: error: implicit declaration of function 'xf86PlatformMatchDriver' [-Werror=implicit-function-declaration]
xf86AutoConfig.c:202:5: warning: nested extern declaration of 'xf86PlatformMatchDriver' [-Wnested-externs]

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit afa3b9ccd27ff99c58f536cb3b727e85feb6a6f6a
Author: Bartosz Brachaczek <b.brachaczek@gmail.com>
Date:  Fri Jul 6 02:52:40 2012 +0200

glx: Fix checking GL version

Signed-off-by: Bartosz Brachaczek <b.brachaczek@gmail.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Dave Airlie <airlied@gmail.com>

commit 743ccf6fa0a9a4579df6de6d10e2e6040640772d9
Author: Dave Airlie <airlied@gmail.com>
Date:  Thu Jul 12 19:09:15 2012 +1000
glx/dri2: don't return NULL in a function with no return.

Reported by gcc.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d1a00c26becde2490ab4660abf108eca09c30d23
Author: Dave Airlie <airlied@gmail.com>
Date: Thu Jul 12 19:05:41 2012 +1000

glx/dri2: use correct define from dri attrs.

Looks like idr renamed this and pushed the wrong one.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit c62205adcd48d497450655d0136f8ca5bd5c8ae7
Author: Dave Airlie <airlied@gmail.com>
Date: Thu Jul 12 19:04:13 2012 +1000

glx/dri2: fix incorrect == vs =

glx/dri2.c:486: warning: statement with no effect

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit defca4e192bd7f4af2b273c7cb1fe8665888772a
Author: Dave Airlie <airlied@gmail.com>
Date: Thu Jul 12 18:52:34 2012 +1000

glx/dri2: fix typo in the notification reset for robustness.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d1cae6bb80f7dfe889fd3c5d5eb116f4baf5149
Author: Dave Airlie <airlied@gmail.com>
Date: Thu Jul 12 18:51:52 2012 +1000

glx: pass screen into the convert function
when robustness is enabled, this is required.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ea74e381ae91f45ec195a5505262e2e5a3c0e1c9
Author: Dave Airlie <airlied@gmail.com>
Date: Fri Jul 13 00:47:24 2012 +1000

taxtest: add extinit.h for SyncExtensionInit

This adds the decl for SyncExtensionInit.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 746193a7f10f11ccccae05c98b933aaf58fc7375
Merge: a2d0829531 2b74949ad0
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 12 15:10:51 2012 -0700

Merge remote-tracking branch 'jturney/xwin-extmod-removal-fixes'

commit a2d0829531249e24dbca25fc20ed30a2bb2d8ed8
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Jul 12 13:16:37 2012 +0200

glx: Free DRI2 drawable reference to destroyed GLX drawable.

Otherwise the reference can lead to use after free in
__glXDRinvalidateBuffers().

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=50019

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8a87acc9e57be740e3bd252567622246051a0723
Author: Michel Dänzer <michel.daenzer@amd.com>
Date: Thu Jul 12 13:16:36 2012 +0200

dri2: Add DRI2CreateDrawable2.

Same as DRI2CreateDrawable, except it can return the DRI2 specific XID of the
DRI2 drawable reference to the base drawable.
Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2b74949ad02bd916c3ac502db3f28057f12a8117
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Thu Jul 12 00:36:43 2012 +0100

Restore GLX extension to XWin

- Add an XwinExtensionInit(), similar in spirit to QuartzExtensionInit() and xf86ExtensionInit()
- Load the GLX extension (I'm guessing XQuartz needs this adding somewhere as well)
- Also, since we now have a proper place to install the native GL provider where it will take priority over the the swrast provider, do so

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 656e5f6e6c9ca15f932889edcc590dd01c881945
Merge: 8b820f221a 1720cd9bad
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 12 08:26:35 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 8b820f221ad54eb96a16c7060048abc8824371b6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 11 17:31:53 2012 +0100

sdksym: Fix build with --disable-xv

I hate this [redacted] script.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 06ac7937fc37cdf073b77386bed47e14cf1f23628
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Thu Jul 12 12:37:05 2012 +0100

Restore extern to the declaration of __glXDRISWRastProvider

b86aa74 dropped the 'extern' from the declaration of __glXDRISWRastProvider
This turns out to be important to me, as without it, the final link only gets the tentative definition of __glXDRISWRastProvider implied by the declaration, and not the proper one from glxdriswrast.c, presumably because nothing else references anything in the object that file generates.

Revert bogus GlxPushProvider() in commit a1d41e3

a1d41e3 "Move extension initialisation prototypes into extinit.h"
also includes a change to GlxExtensionInit to install the swrast GLX provider.

Since b86aa74 "GLX: Insert swrast provider from GlxExtensionInit"
already does this (correctly, by installing the swrast provider
at the end of the chain, rather than at the beginning), and since this
would seem to have the effect of making the swrast provider the most
preferred provider, I'm guessing this wasn't intended.

Regression from: a1d41e311c21eb6627caa0d168e070ceaf90806f
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
CC: Daniel Stone <daniel@fooishbar.org>

pseudoramiX.c:129:1: error: conflicting types for 'PseudoramiXExtensionInit' [Semantic Issue]
PseudoramiXExtensionInit(int argc, char *argv[])
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 228f8bfe81890770f1ba109a0acca1c81a2fcee9
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jul 11 23:49:33 2012 -0700

XQuartz: Silence an unused-variable warning

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit deb08658e2a6b1647a7213a316c6f3019bcde48
Author: Maarten Lankhorst <maarten.lankhorst@canonical.com>
Date:   Wed Jul 11 16:27:46 2012 +0200

xfree86: Strip dangling pointers from desiredMode

Based on the original patch by Chris Wilson, which was a better fix than mine.

We stash a copy of the desiredMode on the crtc so that we can restore it after a vt switch. This copy is a simple memcpy and so also stashes a references to the pointers contained within the desiredMode. Those pointers are freed the next time the outputs are probed and mode list rebuilt, resulting in us chasing those dangling pointers on the next mode switch.
AllocDevicePair: Ensure XKB privates are initialised

Since we call directly into XKB and may be doing so before the extension has been initialised, make sure its privates are set up first. XTest had a hack to do this itself, but seems cleaner to just make sure we do it in AllocDevicePair.

Sync: Always initialise system counter list

Sync is designed to let you add system counters before the extension has been initialised, which means the system counter list may well be full of bees. Make sure it's initialised before we add to it, to avoid the risk of fatal injury.
In:

commit d792ac125a0462a04a930af543cbc732f8cdab7d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in dix Replies

the initializer for the .length element of the xGetPointerMappingReply
structure uses the value of rep.nElts, but that won't be set until
after this initializer runs, so we get garbage in the length element
and clients using it will generally wedge.

Easy to verify:

   $ xmodmap -pp

Fixed by creating a local nElts variable and using that.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 44bd27cdd13b6e6c4e6fd3873361e3308ef25ffe
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 10 01:14:13 2012 -0700

Version 1.12.99.901 (1.13 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6e12cb147da58bd12a158807b2cd5afac32ae70f
Merge: 532fbc29c9 023127915e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 10 00:52:11 2012 -0700

Merge branch 'local-fixes'

commit 532fbc29c900469ef4867ccb7eabb953019dcab5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:38 2012 +0100

GE: Remove unused RT_GECLIENT

Remove remnants of an earlier experiment which had the GE extension
handling event delivery directly. Nothing's used the resource since, so
purge it.
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0e70b333d4846b166bf4a0a0c5d1a80623ba08dc
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:37 2012 +0100

XFree86: os-support: Remove unused xf86MakeNewMapping

No drivers used this, so it got unexported, and now it's so unused it
got culled during the link. Take the poor function out behind the shed
and put it out of its misery.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 43f2393746c44e9d35be6a2a3555205f8e1b4ddf
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:36 2012 +0100

Xinerama: Reset Composite request vector on close

Similar (identical) to how it interacts with Render and XFixes, also
call PanoramiXCompositeReset() to restore the Composite dispatch table
to how it was when it started, on reset.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 766a403bc7ff249fd6b9049329b633e73738329
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:35 2012 +0100

XvMC: Remove unused XvMCGeneration

I wonder if this even works across multiple generations.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 7cef23a6dd7a5d76983cf20979e845ea6ae63a10
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:34 2012 +0100

    Render: Remove unused glyphDepths

    No-one has used this since 0a71e154.

    Signed-off-by: Daniel Stone <daniel@fooishbar.org>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 65011064d7e70aed59f771679ed3d76d196244ce
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:33 2012 +0100

    Xi: Remove dead Device[Enter,Leave]WindowMask

    These were an unused remnant of earlier MPX work; their only users got
    cleared out in dc153271, but the mask declarations remained. Remove
    them, and move DevicePropertyNotify's mask up to be contiguous with the
    rest of the range.

    Signed-off-by: Daniel Stone <daniel@fooishbar.org>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit fadfc2947075c832cd1107d2c0866ad13fa756c4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:32 2012 +0100

    GLX: Remove unused noGlxVisualInit

    No-one ever did anything with this variable except assign its default
    value to it.

    Signed-off-by: Daniel Stone <daniel@fooishbar.org>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 06e4ba8b26fb974bddd84144b3e002f0f7589e7f7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:31 2012 +0100
XKB: Geom: Remove unused code

These codepaths were never called by anyone. Shame there weren't more of them.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e191e296e6e7861978ea4a0ae9aa7b780e52732b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Jul 9 20:04:15 2012 +0100

Remove XAA

Commit 0c6987df in June 2008 disabled XAA offscreen pixmaps per default, as they were broken, leaving XAA only able to accelerate operations directly on the screen pixmap and nowhere else, eliminating acceleration for basically every modern toolkit, and any composited environment.

So, it hasn't worked for over four years. No-one's even come close to fixing it.

RIP.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit 66362441867f68dac97de33744bd0ca478fb65d3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:29 2012 +0100

Remove last remnants of XFree86LOADER define

Not to be confused with XFree86Loader or XorgLoader. Which are both now dead too.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a15dac550918c55b08bbe0007f068cc5096ebaa1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:28 2012 +0100

Remove unused setupFunc from extensions
setupFunc was used as an early callback for half-modular extensions such as Xv, XvMC and DGA to set up hooks between the core server and the modular component. Now we've rid ourselves of that, we can also bin setupFunc.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 710318e803c6d5c6b8ae170d38c8253f5d780472
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:27 2012 +0100

Replace NO_HW_ONLY_EXTS with Xorg DDX test

Turns out the only thing we use NO_HW_ONLY_EXTS for is to check whether or not we're building inside the Xorg DDX. Replace it with an XorgLoader test instead, and remove all its users.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5f5bbbe543f65c48e6bb5c0e80116a86ca3f686
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:26 2012 +0100

Unify miinitext.c

Rather than having a non-Xorg and an Xorg-specific path which basically just duplicated each other for no reason, we could ... just have one.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 147967f674976a87ed07fe11b59b174970f5d43
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:25 2012 +0100

Remove Xorg-specific extensions from non-Xorg miinitext

miinitext.c had a completely separate codepath for non-Xorg servers, which included tests for Xorg-specific extensions such as XFree86-VidMode, which were external even to the Xorg DDX. So we can just remove them, and the associated #undefs.
Quartz: Move PseudoramiX initialisation to DDX

As PseudoramiX is a DDX-specific extension, move its loading and initialisation to hw/xquartz. This creates a QuartzExtensionInit() similar in spirit to xf86ExtensionInit.

Move the remnants of loadext.c to miinitext.c

There was nothing XFree86-specific or loader-specific about this, aside from using xf86MsgVerb instead of ErrorF.

Loader: Move ExtensionModule types to DIX

In preparation for gutting loadext.c, move the ExtensionModule struct to the DIX, and unexport ExtensionModuleList (why, why, why, why was this ever exported in the first place, tbqh).

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34338
Loader: Remove extension initialisation sorting

Extensions could previously declare initialisation dependencies on other extensions, which would then get nicely sorted by the loader. We only had one user for this, GLX, which had one pointless (Composite) and one possibly useful dependency (DBE). As DBE is now a built-in, it will always be sorted by GLX, so we no longer have any users for it.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d52ab85c7ef5058dcbd8a75eb84058908dc22906
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:20 2012 +0100

GLX: Remove extension init dependencies

GLX was the only user of extension init order dependencies, using them to depend on Composite, which has always been built-in anyway, and DBE, which is now built-in.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2fba9445a0357f67641e41ac334b5529c37774a2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:19 2012 +0100

Add static extensions before those in modules

Make sure we add static extensions before anything in a module. This is more or less a no-op at the moment, but will come in handy later when extension dependency sorting is removed.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9a953e0e9dcb8a8e43cc27ffaef460268fbe1916
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:18 2012 +0100

Move DRI2 from external module to built-in
Instead of keeping a tiny amount of code in an external module, just man up and build it into the core server.

v2: Fix test/Makefile.am to only link libdri2.la if DRI2 is set

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b8a3267c36e2e335b888bd4f2ef2f2c477cdfdce
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:17 2012 +0100

DRI2: Remove prototype for DRI2DestroyDrawable

DRI2DestroyDrawable() was still being _X_EXPORTed, but hasn't existed since 1da1f33f last year.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7025a909bfe4d1f5518ec6fc5f89e2c3fb6501fd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:16 2012 +0100

XFree86: DRI: Don’t use per-target CFLAGS

AM_CFLAGS will suffice, given we only have one target in this directory.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 459c6da0f907ba33d733c7e62a116184ba2f14e5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:15 2012 +0100

Move DRI1 from external module to built-in

Rather than building the tiny amount of code required for XFree86-DRI as an external module, build it in if it’s enabled at configure time.

v2: Fix test/Makefile.am to only link libdri.la if DRI is set
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

fixup for DRI1 move

Signed-off-by: Keith Packard <keithp@keithp.com>

commit b905d87ba09b045eae41bb1ad366a4f9f1170a1b8
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:14 2012 +0100

Xext: Only build one library

Now that libXextmodule.la is both empty and unused, we can just build
the one libXext.la for everyone, rather than having Xorg be special and
unique.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a7a2f9f66ddc27df96557093f3dd266e24eb653b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:03:13 2012 +0100

Remove the last remnants of extmod

extmod was originally a big pointless module. Now it's an empty,
pointless module. This commit makes it unexist.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6e74fdda42fd4bd80fd48e1ae6471bfb8837804
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 22 00:28:18 2011 +0100

Move XF86-VidMode from extmod to built-in

As with DGA, move VidMode from being part of extmod to a built-in part
of the server, if compiled as such. This is initialised from
xf86ExtensionInit rather than miinitext because it's wholly dependent on
the Xorg DDX.
DGA: Remove excessive module-induced indirection

The DGA event base used to have to be passed through a function pointer, as the code was cleaved in two with half in a module, and half in the core server. Now that's not the case, just access DGAEventBase directly.

v2: Deal with Alan's event initialization cleanups

Move DGA from extmod to built-in

Rather than leave DGA languishing in extmod, move it to be a built-in extension. As it's quite specific to the Xorg DDX, just move it sideways to the rest of the DGA code in hw/xfree86/common, and initialise it from xf86ExtensionInit, rather than miinitext.

Move SELinux from extmod to built-in

Instead of letting it languish in extmod just because we want to configure bits of it from xf86, move XSELinux to the built-in part of Xext, and do its configuration from xf86ExtensionInit.
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5d92ee4081a23a6b4d4f9ba2a98985f539f99312
Author: Tomas Carnecky <tom@dbservice.com>
Date: Tue Jul 10 02:03:08 2012 +0100

Xv: Remove excessive module-induced indirection

Xv used to call XvScreenInit and co. through function pointers, as XvScreenInit may have been sitting on the other side of a module boundary from xf86XvScreenInit. Why this was so is a mystery, but make it not so any more.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Acknowledged-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2e6c5f959153edcea4b3f719621ebec495250f54
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:03:07 2012 +0100

XFree86: sdksyms: Remove unused -DXorgLoader

We no longer have anything in the tree that checks for XorgLoader. This was a fairly monumental hack: xvdi.h used to hide all its functions behind #ifdef XorgLoader, solely to avoid sdksyms.sh picking up its symbols, as it was previously a module rather than built-in.

This is no longer the case, so we can remove the define.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7a11b817c770cd2196814f1ac6264c6d87b76c6a
Author: Tomas Carnecky <tom@dbservice.com>
Date: Tue Jul 10 02:03:06 2012 +0100

Move Xv and XvMC from extmod to built-in

Always build these extensions into the core server, rather than letting
them languish in extmod.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7d859bd87834dd79c7fa3792075496ce698c082
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Tue Jul 10 02:03:05 2012 +0100
Move XRes from extmod to built-in

Always build XRes support into the core server, rather than letting it languish in extmod.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ba21fc29587e4f11320b88a70433beb1f22c0d3
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Tue Jul 10 02:03:04 2012 +0100
Move DPMS from extmod to built-in

Always build DPMS support into the core server, rather than letting it languish in extmod.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3ed2c6e11298e4299042cfe4578f6c02e441d58
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Tue Jul 10 02:03:03 2012 +0100
Move MIT-SCREEN-SAVER from extmod to built-in

If we've built MIT-SCREEN-SAVER support, then just build it into the main binary, rather than leaving it in extmod.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Move RECORD from external module to built-in

Rather than languishing in its own special module, move RECORD into the core server.

Move DBE from an external module to built-in

If DBE support is compiled in the server, just man up and build it into the server, rather than having it as an external module.

miinitext: Use ARRAY_SIZE rather than sentinel

NULL sentinels are totally lame.

v2: numExtensionModules isn't public, so keep using the provided sentinal - Keith Packard <keithp@keithp.com>
extmod: Use ARRAY_SIZE rather than sentinel

When the array gets down to size zero (which it does in later patches),
gcc complains that the index is out of bounds. Avoid this by using
ARRAY_SIZE on extensionModules instead.

Add xf86ExtensionInit for DDX extension configuration

xf86ExtensionInit is called after configuration file parsing, so it can
perform the two parts of extension initialisation currently done by
extmod: enabling and disabling of extensions through an 'omit' option,
and SELinux configuration.

Loader: Drop EXTERN_MODULE flag

EXTERN_MODULE was used to specify that we shouldn't worry about modules
lacking a ModuleData object. It was also completely unused. *shrug*

commit f48d8f58b39a0036365368d6ac35319d6d856d5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:02:59 2012 +0100
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d35884da2f5a250ff6dd5131de23ac629eccdd0c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:02:58 2012 +0100
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Stéphane Marchesin <stephane.marchesin@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4170e4e1f8e879394c896c490d9f08a38ecfdefd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:02:57 2012 +0100
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
Move extension initialisation prototypes into extinit.h

Create extinit.h (and xf86Extensions.h, for Xorg-specific extensions) to hold all our extension initialisation prototypes, rather than duplicating them everywhere.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b86aa74cafddf9bca5addfeb458a23f46ddcf132
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Tue Jul 10 02:02:55 2012 +0100

GLX: Insert swrast provider from GlxExtensionInit

Rather than making poor old miinitext.c do it, including making DMX have fake symbols just to keep it happy.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Stéphane Marchesin <stephane.marchesin@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 13552a5c4701097a1507a99ed8366ab1438844b6
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Tue Jul 10 02:02:54 2012 +0100

Reorder extension initialisation for non-Xorg

Reorder static extension initialisation in miinitext for non-Xorg servers to match Xorg's order.

Tested with Xephyr; checked that the extension list was identical before and after.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5079db78aea8fa42e781dd876c1ee1c31571b3ae
Author: Tomas Carnecky <tom@dbservice.com>
Date:  Tue Jul 10 02:02:53 2012 +0100

Replace INITARGS with void

INITARGS was a hardcoded define to void. Since knowing the function
signature for your extensions is kinda useful, just replace it with a hardcoded void, but leave the define there for API compatibility.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bddb8c6cbe52ba9923b1d36d01f5ac9391b0ec0e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:02:52 2012 +0100

Xinerama: Fix ExtensionInit prototype

Huh, so I guess INITARGS used to be int argc, char *argv then. Either way, it's now void, so fix that ...

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit eb9661ffe9f59587f898371f97a0952ac14d125f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 10 02:02:51 2012 +0100

Make extension.h self-contained, remove C++ externs

extension.h required bits from Xfuncproto.h and dixstruct.h, but included neither; fix that.

It also had _XFUNCPROTOBEGIN and _XFUNCPROTOEND wrappers, which is a bit pointless for a server-only library, as it's only needed for C++.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 854c1fa4a1e90288d1e2f3777fac3e1a9acb1235
Author: Daniel Stone <daniel@fooishbar.org>
Add a common ARRAY_SIZE macro to dix.h

Does what it says on the box, replacing those from Xi/ and glx/.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 67953d6f975ef2ee573b95e7641aaf3d72e9f8379
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:02:49 2012 +0100

Xorg: Link XKB DDX library after core server libs

libxorgxkb.a contains a number of libraries which are used by XKB action
code to call back into the DDX, e.g. for VT switching, termination, grab
breaking, et al. Make sure libxkb.a comes first in the link order, so
it can mark XkbDDX* as used in order for the linker to not discard them.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 656af2c7e73d94833863675e14cd827b46a97c4
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 10 02:02:46 2012 +0100

Don't make failure to -nolisten fatal

If failing to disable a protocol specified by -nolisten failed, we'd
throw a FatalError and bomb startup entirely. From poking at xtrans, it
looks like the only way we can get a failure here is because we've
specified a protocol name which doesn't exist, which probably doesn't
constitute a security risk.

And it makes it possible to start gdm even though you've built with
--disable-tcp-transport.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dc0c2dd92d5eb314582ea10830678753824375d9
Xext: Add hashtable.h to sources to fix distcheck

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ad4092cf7d59a89b1b2922440eeef65be5c0c5ebd
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:44 2012 -0700

Replace padlength tables with inline functions from misc.h

Adds new function padding_for_int32() and uses existing pad_to_int32()
depending on required results.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 2b1c1300cc23912ee1c59f8dde938dd4d7287f4a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:44 2012 -0700

eephyrGLXQueryServerString: Stop making an unused copy of server_string

ephyerGLXQueryServerString() carefully allocated a buffer padded to the
word-aligned string length for sending to the client, copied the string
to it, and then forgot to use it, potentially reading a few bytes of
garbage past the end of the server_string buffer.

Since WriteToClient already handles the necessary padding, just send
it the actual length of the original server_string, and don't bother
making a padded copy.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 7a29f6878284e2d65e69fcd157aa9ec01d21b3c0
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:44 2012 -0700

Initialize padding bits to 0 in ErrorConnMax()
Set padding bytes to 0 in WriteToClient

Clear them out when needed instead of leaving whatever values were present in previously sent messages.

Use C99 designated initializers in dix registry

Use C99 designated initializers in extension Events

Use C99 designated initializers in dix Events
Use C99 designated initializers in xf86 extension

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 14501fd33ee89ac9fc1d908003ed62f383d8bae
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in Xephyr

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit e4e827ec36fd20b7aee608db09790f76fb87e519
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in dmx

v2: fix in __glXGetVisualConfigs to not re-declare local 'reply' variable

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

Fixup for Use C99 designated initializers in dmx

Signed-off-by: Keith Packard <keithp@keithp.com>

commit bd6f948c41865c2e9d3fba1000bf5f7458d3afc1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in randr

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit a406bd07593edb69285cf2fd91a6af4a5d956817
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700
Use C99 designated initializers in xkb Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 26efa09d0c7ee2f6a18547205c84be75376e688b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in glx Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit cc5f09c86f7bea23b7546c3491b2c52ce8100a71
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in various extension Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 2f5caeaddb3616de9ff57d784f7feba589c536e7
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in Xinput Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 6a721e3af5e11b1ae1d59ca551a02470f35d9e844
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in Xext Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit d792ac125a0462a04a930af543cb732f8cdab7d
Use C99 designated initializers in dix Replies

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit 69fa5630b5902aaad267fc67d0da4ca93625886a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:43 2012 -0700

Use C99 designated initializers in SendErrorToClient

Let the compiler worry about 0-filling the rest of the fields, instead of memsetting the whole struct and then going back to overwrite some of the fields.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit cdf5bcd420e5bcf4a4a24a275d3133a4e16ece41e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:42 2012 -0700

Use calloc to zero fill buffers being allocated for replies & events

Ensures padding bytes are zero-filled

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit ef0f701c9245b0373eb0c7a84dd804af4738bb29
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jul 9 19:12:42 2012 -0700

xf86dga2.c & xf86vmode.c: Move REQUEST_SIZE_MATCH checks before using stuff

Seems silly waiting to check if the client failed to send us enough bytes until after we've already tried using them.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>
ProcRRListOutputProperties: skip atom walk if the list is empty

pAtoms is only allocated if numProps was non-zero, so move the walk through the property list to copy atoms to it inside the if (numProps)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

ProcRRGetScreenInfo: swap configTimestamp as well

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

Bug 51375: Xorg doesn't set status for RRGetOutputInfo

https://bugs.freedesktop.org/show_bug.cgi?id=51375
https://bugs.freedesktop.org/attachment.cgi?id=63397

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

Use temporary variables instead of parts of reply structures

When passing variable pointers to functions or otherwise doing long sequences to compute values for replies, create & use some new temporary variables, to allow for simpler initialization of reply structures in the following patches.

Move memsets & other initializations to group with the rest of the
filling in of the reply structure, now that they're not needed so early in the code path.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit c2fb1a7b2ab58d70b38ee03ab2fdeb4e7183a356
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:42 2012 -0700

ProcQueryKeymap: rework logic around permission to copy key states

Always initialize to zero, and then if permission is granted, copy the current key state maps, instead of always copying and then zeroing out if permission was denied.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit dccb0858d71341e1258800b37d1bb78c0115838d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:42 2012 -0700

Core events: invert check for permission to copy key states

Always initialize to zero, and then if permission is granted, copy the current key state maps. Use memcpy instead of memmove for the copy, since we're always copying to a newly allocated event on the stack, so guaranteed not to overlap with the device map structure.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

commit db69212df8a0bf09140368356d2d430c54afe346
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Jul 9 19:12:42 2012 -0700

Rework reply initialization in ProcGetProperty & NullPropertyReply

Don't need to pass an empty reply to NullPropertyReply, let it make it's own. Move reply initialization code in remaining replies in ProcGetProperty to group with the rest of the fields. (Prepares for coming C99 designated initializer conversion.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Fix more poorly indented/wrapped comments & code

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

Remove unnecessary casts from WriteToClient calls

Casting return to (void) was used to tell lint that you intended
to ignore the return value, so it didn't warn you about it.

Casting the third argument to (char *) was used as the most generic
pointer type in the days before compilers supported C89 (void *)
(except for a couple places it's used for byte-sized pointer math).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Tested-by: Daniel Stone <daniel@fooishbar.org>

Reliably reset signals at server init time

Each DDX currently calls OsReleaseSIGIO in case it was suspended when
the server regen started. This causes a BUG to occur if SIGIO was
*not* blocked at that time. Instead of relying on each DDX, make the
OS layer reliably reset all signal state at server init time, ensuring
that signals are suitably unblocked and that the various signal state
counting variables are set back to zero.

Signed-off-by: Keith Packard <keithp@keithp.com>
xfree86: In InitOutput, only call OsReleaseSIGIO if OsBlockSIGIO was called

Otherwise, OsReleaseSIGIO will complain, or perhaps something worse will happen (if SIGIO actually needs to be blocked here).

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea8b04507e5464e4817791db516a20c6ed2a6724
Author: Keith Packard <keithp@keithp.com>
Date:  Mon Jul 9 16:30:24 2012 -0700

privates: Resize GPU screen-specific privates too

When allocating new global privates, make sure the gpu screens get their private offsets updated.

This only affects GPU screens that enumerate before the non-GPU screens, which generally requires that the related device be present when the system boots so that it can get an earlier DRM filename.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit d1c639c006526b8cab14dac582508f3f54848967
Author: Keith Packard <keithp@keithp.com>
Date:  Mon Jul 9 16:29:04 2012 -0700

Add 'install-headers' target in the top-level Makefile

This target recursively locates directories with sdk headers and installs them all. Useful when you want to build a complete new X server and drivers without having to install the X server before the drivers are actually working.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 329db3292223cccd488706295662285c45a1523
Author: Dave Airlie <airlied@redhat.com>
Date:  Sat Jul 7 10:10:08 2012 +0100

dri2/prime: allocate prime id at screen allocation time

Add a static mask of prime id and allocate them at screen time, if the driver supports the prime interfaces and is a gpu screen.

This is instead of them changing due to user controlled randr commands, as suggested by Keith.
This adds the initial prime support for dri2 offload. The main thing is when we get a connection from a prime client, we stored the information and mark all drawables from that client as prime. We then create all buffers for that drawable on the prime device dri2screen.

Then DRI2UpdatePrime is provided which drivers can call to get a shared pixmap which they can use as the front buffer. The driver is then responsible for doing the back->front copy to the shared buffer.

prime requires a compositing manager be run, but it handles the case where a window get un-redirected by allocating a new pixmap and pointing the crtc at it while the client is in that state.

Currently prime can't handle pageflipping, so always does straight copy swap,

v1.1: renumber on top of master.
v1.2: fix auth on top of master.

This is required for the prime macros.

For DRI2 in some offload cases we need to set a new pixmap on the crtc,
this hook allows dri2 to call into randr to do the necessary work to set a pixmap as the scanout pixmap for the crtc the drawable is currently on.

This is really only to be used for unredirected full screen apps in composited environments.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit e2fd447e76c4a1233374c9d8fa9cae54a55dad50
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jul 5 15:50:56 2012 +0100

xf86: add callback for offloak sink setting support.

This adds support for setting the offload sink to the xf86 ddx.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 22f02120eb4092e1c283f81c8040f178693ff0a4
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 26 09:53:54 2012 +0100

xf86: store scanout pixmap in the xf86 struct as well.

This is so we can tell the scanout pixmap has changed between calls to the crtc set function.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 426bc0a28edbe0e9153f692a02dd25f744ffa034
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jul 5 15:41:38 2012 +0100

randr: add hooks for offload sink provider protocol

This adds the protocol handler and associated providers handling for the offload slaves, it allows two providers to be connected as offload sink/source.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 12905dfaf01088a00f4a0a78cfffba03329e7b724
Author: Dave Airlie <airlied@redhat.com>
Date: Sat May 26 13:11:01 2012 +0100

dix/xf86: initial offload slave tracking (v1.1)

add the linked list and provider hooks.

v1.1: add another assert in the add path.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a7c01da54ab43f9d29333ccbd79dfe00199dc5e3
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jul 5 20:34:54 2012 +0100

xf86: make sure rotate calcs are done on the right screen boundaries

This fixes a segfault where this code believes we are outside the screen boundaries on a slave device, but we aren't.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit cc02f4ef3e407be794132d004c947e9a4e14f4c2
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Jun 19 16:01:16 2012 +0100

xf86/cursor: fallback to sw cursor if we have slaves present.

Current USB devices have no hw rendered cursors, so we need the master GPU to render the cursor, so whenever we plug in a slave device, fallback to sw rendered cursors.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 98686512cbe1affb75222a63136854af79f1411b
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jul 5 15:50:24 2012 +0100

xf86: add output source setting callback (v2)

This adds support for the randr callback for setting the output source for a device.

v2: drop root clip change on detach
commit 4c92eb00f97f7b8258de8e366226880382cc9ce9
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jul  5 15:41:22 2012 +0100

randr: add output source setup

This adds the output sources to the associated list and adds the protocol
handler for the randr SetProviderOutputSource.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit bec4cb72c55bb6dee09c65c0844af201067a090f
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu May 24 15:47:22 2012 +0100

randr: hook up output slave to screen resources return

When the client asks for the screen resources list, it will now
get a list of crtc/outputs for the master + all attached slaves,
this will let randr configure all attached slave devices properly.

Keith asked I merge the two functions, but not just yet, the current
multi screen code doesn't handle primary yet properly, will fix it up later.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 88bc02bfaae2e15a30e606d34cf7940e6ad5ea14
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Jun 18 14:11:24 2012 +0100

xf86/crtc: add new interface to detach slave crtcs

This will detach any scanout pixmaps attached to slave crtcs.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9b8217f9ef6279fff6628631d18497bed0343ef9
dix/pixmap: track dirty pixmaps in server. (v4)

This adds two functions for drivers to use directly to keep a linked list of slave pixmaps to do damage tracking on and keep updated. It also adds a helper function that drivers may optionally call to do a simple copy area damage update.

v2: use damage.h not damagestr.h, fixes ephyr build.

v3: address ajax review: use slave_dst, drop unused dst member.

v4: check DamageCreate return, add SourceValidate comment, add a comment addressing possible optimisation possibility

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit c5cc2a8243c5e6bf454af989b7512ec7e20fc3f2
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 29 14:41:39 2012 +0100

randr: check the screen size bounds against the master

The master contains the complete screen size bounds, so check the width/height against it.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 26d848cb916c8a85f2c69d2ae004665ba07bf00
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 29 14:35:24 2012 +0100

randr: fix tellchanged to work with slave scanouts

Tell changed need to tell only for the master pixmap, however it gets called from various places for slave screens, so convert to telling clients about changes on the master screen.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 4bf0192d810e01c89a1903cc4bc5e639fc13a547
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 29 14:37:11 2012 +0100

randr: fix up constrain to work with slave screens.

    Current code constrains the cursor to the crtc's on the master
device, for slave outputs to work we have to include their crtc's
in the constrain calculations.

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 2ed3f64d9d453628ab5c03b8ae006093019c933
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 20 12:37:26 2012 +0100

xf86: add initial scanout pixmap support (v2)

    Add the simple passthrough interface for drivers to use,
so they can set scanout pixmaps.

    v2: detach scanout pixmap properly.

    Reviewed-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f2da2c12042d3447b1c954e7301632d174a08b4f
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 20 12:37:12 2012 +0100

randr: add initial scanout pixmap support (v3)

    When randr notices a crtc configuration request for a slave device,
it checks if the slave allocated pixmap exists and is suitable,
if not it allocates a new shared pixmap from the master, shares
it to the slave, and starts the master tracking damage to it,
to keep it updated from the current front pixmap.

    If the resize means the crtc is no longer used it will destroy
the slave pixmap.

    This adds the concept of a scanout_pixmap to the randr_crtc object,
and also adds a master pixmap pointer to the pixmap object, along
with defining some pixmap helper functions for getting pixmap box/regions.
v2: split out pixmap sharing to a separate function.

v3: update for void *

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 0b0e7148925e1f835d4f4f06e402a97023531828
Author: Dave Airlie <airlied@redhat.com>
Date: Thu May 24 16:03:31 2012 +0100

exa: pixmap sharing infrastructure (v3)

This just adds exa interfaces for mixed exa so drivers can share and set shared pixmaps up correctly.

v2: update for passing slave screen.

v3: update for void *

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit fd6c1bf0a3efced3ad4623db4716230a5f2419e
Author: Dave Airlie <airlied@redhat.com>
Date: Thu May 24 16:03:19 2012 +0100

dix: pixmap sharing infrastructure (v3)

This is a hooks for pixmap sharing and tracking.

The pixmap sharing ones get an integer handle for the pixmap and use a handle to be the backing for a pixmap.

The tracker interface is to be used when a GPU needs to track pixmaps to be updated for another GPU.

v2: pass slave to sharing so it can use it to work out driver.

v3: use void * as per keithp's suggestion.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 382dd45bb88fa92764bf0ecd655cb9890eb84960
Author: Dave Airlie <airlied@redhat.com>
dix: add ability to link output slave gpus to the current gpu (v1.1)

Just add the interfaces to attach/detach output slaves, and
a linked list to keep track of them. Hook up the randr providers
list to include these slaves.

v1.1: add another assert to the add path.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 05d2472cd242293a5fa205efff5734a3380072b4
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jun 14 15:03:02 2012 +0100

xf86dga: handle DGAAvailable for gpu screens. (v2)

v2: Split out DGAAvailable into two interfaces, one for calls from protocol
decoding and one for internal usage, after discussion with ajax and keithp.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3cbc4c10b52896324fe14d2ab56bd54577e9294c
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 13 14:35:49 2012 +0100

randr: expose unattached providers to the clients.

This provides the unattached provider list to the clients.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d0e138c3f3e58ef127dad6c6aeef48b1713b5ce58
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 13 14:32:05 2012 +0100

dix: attach unbound screens to protocol screen 0 (v2)

This is the default attachment, unbound gpu screens get
attached to the 0 protocol screen.
detach on hotunplug.

v2: detach after tearing down crtc/outputs.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 4caad34c932115dc0a9fd9c2995ebb2d38b9359c
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 13 14:27:42 2012 +0100

dix: add unattached list for attaching screens to initially. (v1.1)

This list is meant for attaching unbound gpu screens to initially, before the client side rebinds them.

v1.1: add another assert in the add path.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9b5cf2ed76b00937af12304e0e8dbd60df62067e
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 13 14:17:06 2012 +0100

xfree86: add framework for provider support in ddx. (v4)

This adds the framework for DDX provider support.

v2: as per keithp's suggestion remove the xf86 provider object and just store it in the toplevel object.

v3: update for new protocol

v4: drop devPrivate, free name

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 66d92afeaeed9f4a19267d95a1f81b9bf27162a5
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 13 14:03:04 2012 +0100

randr: add provider object and provider property support (v6)
This adds the initial provider object and provider property support to the randr dix code.

v2: destroy provider in screen close
v2.1: fix whitespace

v3: update for latest rev of protocol + renumber after 1.4 tearout.

v4: fix logic issue, thanks Samsagax on irc

v5: keithp's review: fix current_role, fix copyrights, fix master reporting crtc/outputs.

v6: port to new randr interface, drop all set role bits for now

v7: drop devPrivate in provider, not needed, add BadMatch returns for NULL SetProviderOffLoadSink and SetProviderOutputSource, drop the old typedef.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 44eae69f1d2d00e0c9f1ea8d3c4fae06bcacfb6
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jul 5 21:11:16 2012 +0100

configure: bump randrproto min requirements to 1.4.0

Needed to build latest randr stuff.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 4d24192bd24fb20d16d0054d77bffda883faeb79
Merge: 7c9d8cb3d6 74b786f7ce
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jul 6 12:17:17 2012 -0700

Merge remote-tracking branch 'airlied/for-keithp-stage1'

commit 7c9d8cb3d6c8ac53e7aed9308292614337db3be2
Author: Torsten Kaiser <just.for.lkml@googlemail.com>
Date: Fri Jul 6 12:10:25 2012 -0700

xfree86: EDID Est III parsing skips some modes

This loop needs to count from 7 to 0, not only from 7 to 1.
The current code always skips the modes \{1152, 864, 75, 0\}, \{1280, 1024, 85, 0\}, \{1400, 1050, 75, 0\}, \{1600, 1200, 70, 0\} and \{1920, 1200, 60, 0\}.

Signed-off-by: Torsten Kaiser <x11@ariolc.dyndns.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: EDID Est III parsing can walk off end of array

Using -O3 gcc notes that m could reach beyond the end of the EstIIIModes array, if the last bits of the 11s byte where set.
Fix this, by extending the array to cover all possible bits from est.

https://bugs.freedesktop.org/show_bug.cgi?id=45623

Signed-off-by: Torsten Kaiser <x11@ariolc.dyndns.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: add autoAddGPU option (v2)

This option is to stop the X server adding non-primary devices as gpu screens.

v2: fix per Keith's suggestion.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

xfree86: add platform bus hotplug support (v3)

This provides add/remove support for platform devices at xfree86 ddx level.

v2: cleanup properly if no driver found.

v3: load the modesetting driver before checking driver list.
xserver/config: add udev/drm hotplug callbacks. (v2)

This adds callbacks into the ddx for udev gpu hotplug.

v2: fix some strncmp returns.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 53b66c084f8bf5bdf8121632fabdc39b9fe8337
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 17:18:10 2012 +0100

xfree86: add DDX gpu screen support. (v3)

This just adds the structures and interfaces required for adding/deleteing
gpu screens at the DDX level. The platform probe can pass a new flag
to the driver, so they can call xf86AllocateScreen and pass back the new
gpu screen flag.

It also calls the gpu screens preinit and screeninit routines at
startup.

v2: fix delete screen use after free.

v3: split out pScrn into separate patch

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 726d467b534a30d8cbbaf8858339c638c9f83195
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Jun 25 11:51:26 2012 +0100

xf86: cleanup helper code to use a pointer. (v1.1)

This is in preparation for gpu screens in here, just use
a pScrn pointer to point at the new screen.

suggested by Keith.
v1.1: fix spacing as suggested by Aaron.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9d179818293b466ec6f1777f0b792e1fbeb318c
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 17:09:38 2012 +0100

dix: introduce gpu screens. (v5)

This patch introduces gpu screens into screenInfo. It adds interfaces
for adding and removing gpu screens, along with adding private fixup,
block handler support, and scratch pixmap init.

GPU screens have a myNum that is offset by GPU_SCREEN_OFFSET (256),
this is used for logging etc.

RemoveGPUScreen isn't used until "xfree86: add platform bus hotplug support".

v2: no glyph pictures for GPU screens for now.
v3: introduce MAXGPUSCREENS, fix return value check
v4: fixup myNum when renumbering screens (ajax)
v5: drop cursor privates for now.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3478af3374abfffa0e226ee077fda1fcfc0751e74
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 17:01:21 2012 +0100

screen: split out screen init code. (v2)

This is a precursor for reusing this code to init gpu screens.

v2: fixup int check as per Keith's review.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit cf66471353ac5899383b573a3cfc407e90d501e
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 8 14:26:47 2012 +0100

xfree86: use udev to provide device enumeration for kms devices (v10)
On Linux in order for future hotplug work, we are required to interface to udev to detect device creation/removal. In order to try and get some earlier testing on this, this patch adds the ability to use udev for device enumeration on Linux.

At startup the list of drm/kms devices is probed and this info is used to load drivers.

A new driver probing method is introduced that passes the udev device info to the driver for probing.

The probing integrates with the pci probing code and will fallback to the pci probe and old school probe functions in turn.

The flags parameter to the probe function will be used later to provide hotplug and gpu screen flags for the driver to behave in a different way.

This patch changes the driver ABI, all drivers should at least be set with a NULL udev probe function after this commit.

v2: rename to platform bus, now with 100% less udev specific,

this version passes config_odev_attribs around which are an array of id/string pairs, then the udev code can attach the set of attribs it understands, the OS specific code can attach its attrib, and then the core/drivers can lookup the required attribs.

also add MATCH_PCI_DEVICES macro.

This version is mainly to address concerns raised by ajax.

v3: Address comments from Peter.
fix whitespace that snuck in.
rework to use a linked list with some core functions that xf86 wraps.

v4: add free list, fix struct whitespace.
ajax this address most of your issues?

v5: drop probe ifdef, fix logic issue

v6: some overhaul after more testing.

Implement primaryBus for platform devices.
document hotplug.h dev attribs - drop sysname attrib
fix build with udev kms disabled
make probing work like the PCI probe code,
match against bus id if one exists, or primary device.

RFC: add new bus id support "PLAT:syspath". we probably want to match on this a bit different, or use a different property maybe. I was mainly wanting this for use with specifying usb devices in xorg.conf directly, but PLAT:path could also work i suppose.

v6.1: add missing noop platform function

v7: fix two interactions with pci probing and slot claiming, prevents pci and platform trying to load two drivers for same slot.

v8: test with zaphod mode on -ati driver, fixup resulting issue clean up common probe code into another function, change busid matching to allow dropping end of strings.

v9: fix platform probing logic so it actually works.

v9.1: fix pdev init to NULL properly.

v10: address most of Keith's concerns.

v4 was thanks to Reviewed-by: Adam Jackson <ajax@redhat.com>
v5 was Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commits 2c52d776a42a28bb3e1463edf0cfe0672d0c08a9
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Jun 19 16:01:08 2012 +0100

xf86: cursor code got mangled by indenting

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9e4b8b74b008dd72d1da7074bd7eace677cefd20
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 5 11:31:55 2012 -0700

privates: Allow device privates to be allocated after server start

This will permit midispcur to allocate its privates for hotplug outputs

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
commit 493ad83233707b0a42e5fbdd957a24fc6e52917
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 5 11:31:29 2012 -0700

dix: Allocate device privates separate from devices

This will allow device privates to be resized.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit f38b2b628322f4d763b0c7f8387d5ab0472a7d2b
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 5 11:15:18 2012 -0700

mi: Don't save midispcur rendering resources for each cursor

Instead, only save them for the most recently drawn cursor. This saves a bunch of storage for idle cursors.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 7651176b0093cf3a4cffe2277f6918a7d0451af41
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jul 3 16:12:59 2012 -0700

Use screen-specific privates for exa pixmap and gc privates

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 7ca32f1c282cb6d4d7255f118a1e2e6f54e6b3fa
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jul 3 16:05:42 2012 -0700

Use new screen-specific privates for fb window and gc privates

This ensures that only screens using fb will have this space allocated.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 9d457f9c55f12106ba44c1c9db59d14f978f0ae8
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jul 3 15:45:09 2012 -0700
Add screen-specific privates.

Screen-specific privates areas are only allocated for objects related to the target screen; objects allocated for other screens will not have the private space reserved. This saves memory in these objects while also allowing hot-plug screens to have additional private allocation space beyond what the core screens are using.

Drivers are encouraged to switch to this mechanism as it will reduce memory usage in multi-GPU environments, but it is only required for drivers which will be loaded after the server starts, like modesetting.

Objects providing screen-specific privates *must* be managed by the screen-specific private API when allocating or initializing privates so that the per-screen area can be initialized properly.

The objects which support screen-specific privates are:

- Windows
- Pixmaps
- GCs
- Pictures

Extending this list to include Colormaps would be possible, but require slightly more work as the default colormap is created before all colormap privates are allocated during server startup, and hence gets a bunch of special treatment.

Of particular note, glyphs are *not* capable of supporting screen-specific privates as they are global objects, not allocated on a screen-specific basis, and so each driver must be able to see their privates within the glyph.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit ed6daa15a7def8d9a930f67401f4c1c8ca2e6fac
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Wed Jul 4 15:21:09 2012 -0700

    glx/dri2: Enable GLX_ARB_create_context_robustness

    If the driver supports __DRI2_ROBUSTNESS, then enable
    GLX_ARB_create_context_robustness as well. If robustness values are
    passed to glXCreateContextAttribsARB and the driver doesn't support
    __DRI2_ROBUSTNESS, existing drivers will already generate the correct
    error values (so that the correct GLX errors are generated).
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 90aa2486e394c0344aceb2a70432761665a79333
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Jul 4 15:21:08 2012 -0700

glx: Allow attributes and flags from GLX_ARB_create_context_robustness

The assumption is that if the underlying provider (e.g., glxdri2.c) doesn't support this extension, it will generate BadMatch for these flags and attributes.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit aef0b4593e165634ca7fa0745882dad12a54ebed
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Jul 4 15:21:07 2012 -0700

glx: Track the reset notification strategy for a context

Also require that the reset notification for a new context and the other context in the share group match. There isn't yet any way to specify a non-default reset notification strategy, but that will come.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f8198285cfc4704bc4d56922e5a2e99030a83778
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Jul 4 15:21:06 2012 -0700

glx: Add extension string tracking for GLX_ARB_create_context_robustness

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4ffbc984e985d9c4a8a15925094614021de30dc8084e65
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Jul 4 15:21:05 2012 -0700

glx: Reject creations of indirect contexts with unsupportable versions.
glx: Implement GLX_EXT_create_context_es2_profile

This patch builds on the infrastructure put in place for GLX_ARB_create_context_profile. If GLX_CONTEXT_ES2_PROFILE_BIT_EXT is specified and the requested version is 2.0, create a context with the __DRI_API_GLES2 API.

This change assumes that any DRI2 driver can handle (possibly by saying "no") seeing an API setting other than __DRI_API_OPENGL or __DRI_API_OPENGL_CORE. This allows enabling the extension any time GLX_ARB_create_context (and GLX_ARB_create_context_profile) is enabled.

v2: Clean up some comments. Note that our behavior for GLX_CONTEXT_ES2_PROFILE_BIT_EXT w/version != 2.0 matches NVIDIA’s.

glx: Implement GLX_ARB_create_context_profile

Most of the infrastructure was already in place. This just adds:

* Validate values specified with the GLX_CONTEXT_PROFILE_MASK_ARB attribute.

* Select a DRI2 "api” based on the setting of GLX_CONTEXT_PROFILE_MASK_ARB.

* Enable GLX_ARB_create_context_profile extension.

This change assumes that any DRI2 driver can handle (possibly by saying "no") seeing an API setting other than __DRI_API_OPENGL. This allows enabling this extension any time GLX_ARB_create_context is enabled.
Also, the validation code in __glXDisp_CreateContextAttribsARB is structured in a very verbose manner (using a switch-statement) to ease the addition of GLX_EXT_create_context_es2_profile.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 09a8a169d5929665778ae33e58e345fe1192b64c
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Wed Jul 4 15:21:02 2012 -0700

glx: Implement GLX SetClientInfo2ARB protocol

The protocol is almost identical to SetClientInfoARB. The only difference is the GL versions include an extra 4 bytes for the supported profile.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 167993254a5cbe11a1f44fad1e8ae042089c1619
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 5 16:17:56 2012 +1000

list.h: don't crash when removing an element from a NULL list

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8aa6d49d46dacc31a85023d0159ce1fb67401df73
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Wed Jul 4 15:21:01 2012 -0700

glx: Don't request prototypes for GL extension functions

The server does not want GL extension prototypes. It never links with anything that could possibly provide implementations of these functions. It *is* the provide, and it does not provide these symbols. All this does is create hundreds of warnings like:

include/GL/glext.h:5570:45: warning: redundant redeclaration of 'glMultTransposeMatrixd' [-Wredundant-decls]
include/GL/gl.h:1940:45: note: previous declaration of 'glMultTransposeMatrixd' was here

I believe this was necessary back before the AIGLX days, but that was a long, long time ago. The warnings recently showed up with the addition of -Wredundant-decls to the CWARNFLAGS.
Look for ModuleData only in appropriate library

LoaderSymbol calls dlsym with RTLD_DEFAULT pseudo handle making it search in every loaded library. In addition glibc adds NODELETE flag to the library containing the symbol.

It's used in doLoadModule to locate <modulename>ModuleData symbol, the module's library gets the flag and is kept in memory even after it is unloaded.

This patch adds LoaderSymbolFromModule function that looks for symbol only in library specified by handle. That way the NODELETE flag isn't added.

This glibc behavior doesn't seem to be documented, but even if other implementations differ, there is no reason to search ModuleData symbol outside the module's library.

Signed-off-by: Michal Srb <msrb@suse.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

v2: Switch LoaderSymbolFromModule arguments order.
Correct description.
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Merge branch 'sigio-vt-switch-issues' into for-keith

Conflicts:
   test/Makefile.am
Xi: extend PropagateMask to EMASKSIZE

Number of devices is 2 + MAXDEVICES, with index 0 and 1 reserved for
XIAll[Master]Devices. At the current size, PropagateMask would be overrun in
RecalculateDeviceDeliverableEvents().

Found by Coverity.

Dix: fix memory leak in TouchEventHistoryReplay

Don't leak if ti->history is NULL.

Found by Coverity.

Dix: fix dereference before null check

Found by Coverity.

Xfree86: fix use-after-free issue in checkInput

*dev is the condition of the while loop we're in, reset to NULL after
freeing

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 252a69b592001b34714d0fe7508e1898883f9d01
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 20 14:25:54 2012 +1000

xkb: use local variable instead of casting arg

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d04dfe3f754ad3a5f158057175cbd44319c1ae51
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 22 15:18:53 2012 +1000

Drop custom sigio block/unblock functions from kdrive, ephyr and dmx

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 5d309af2ed93e91c7d72f548a11052051efbb40f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 22 14:56:25 2012 +1000

xfree86: drop ddx-specific SIGIO blocking

The hooks are left for this cycle, we can drop it next cycle once the drivers that need it (e.g. wacom) have been updated.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ff67135bec3ecea8cebeb46b42ec0a6671e231d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 22 13:09:35 2012 +1000

xfree86: use OsBlockSIGIO from the ddx

We can ignore the "wasset" argument now since the DIX will keep proper refcounting.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit 6bf356ef2831bacea77a650ed3fde0831e33c6c0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 22 13:02:40 2012 +1000

os: add OsBlockSIGIO and OsReleaseSIGIO

Let the dix be in charge of changing the sigprocmask so we only have one entity that changes it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 24525d96a3b9dba67eb75042500b2f208a2cc246
Merge: 4cd91bd4c6 35e3d22915
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 2 22:35:39 2012 -0700

Merge branch 'sigsafe-logging-varargs'

This merge includes a minor fixup for '%p' arguments; must cast to uintptr_t instead of uint64_t as we use -Werror=pointer-to-int-cast which complains when doing a cast (even explicitly) from a pointer to an integer of different size.

commit 35e3d229150395a222a0f53318daf5ddeb8f6eb6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 24 14:04:42 2012 +1000

Bump to ABI_XINPUT_VERSION 18

The input ABI hasn't changed, but input drivers need something to hook on if they want to log from within signal handlers and the input ABI is the simplest way of doing so.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 541934168ddeb17059542bb51da8eba7995fa05
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 28 10:10:30 2012 +1000

xfree86: constify InputDriverPtr->driverName and default_options

Already treated as const anyway by all drivers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: constify InputInfoPtr->type_name

This corresponds to XListInputDevice(3)'s "type" field (after being converted to an Atom). Input drivers use the XI_KEYBOARD and similar defines, even Wacom which falls out of the common defines uses constant strings here. The use-case for having this non-const is small.

Input ABI break technically, since we never freed this information anyway it is not a noticable change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log in OsVendorFatalError() in a signal safe manner

The function can be called from a fatal signal handler.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log in LoaderUnload() in a signal safe manner

The function may be called from a fatal signal handler.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log in UnloadModuleOrDriver() in a signal safe manner

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
The function may be called from a fatal signal handler.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log safely in fatal signal handler

While we probably don't need to be signal safe here since we will never return to the normal context, the logging signal context check will cause unsafe logging to be unhandled. Using signal safe logging here resolves the issue.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log mieq enqueue overflow in a signal safe manner

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log messages in TouchBeginDDXTouch() in a signal-safe manner

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Log messages in GetTouchEvents() in a signal safe manner

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Warn when attempting to log in a signal unsafe manner from signal context

Also, print out the offending message format. This will hopefully help developers track down unsafe logging.

Make BUG_WARN* signal safe

Backtraces are often printed in signal context, such as when a segfault occurs.

os: print offset as unsigned int, not long unsigned int

pnprintf() takes unsigned int for %u
Add ErrorFSigSafe() alternative to ErrorF()

ErrorF() is not signal safe. Use ErrorSigSafe() whenever an error message may be logged in signal context.

[whot: edited to "ErrorFSigSafe"]

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 164b38c72fe9c69d13ea4f9c46d4ccc46566d826
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Apr 6 08:28:40 2012 -0700

Add LogMessageVerbSigSafe() for logging messages while in signal context

[whot: edited to use varargs, squashed commit below]

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os: fix vararg length calculation

Make %u and %x sizeof(unsigned int), %p sizeof(void*). This is printf behaviour and we can't guarantee that void* is uint64_t anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4cd91bd4c6325b2e617ca90a725f02ac124c2372
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat May 12 10:11:33 2012 -0700

Enable no-undefined symbols mode in Solaris builds if -z parent is in ld

The Solaris linker recently added a -z parent flag for easier checking of symbol definitions in plugins against the program that loads them. If that's present, this enables it, along with -z defs to error on undefined symbols to alert us if any modules call symbols that won't be found at runtime.

This builds upon, and requires, the recent Cygwin work to build Xorg. It moves a couple more modules to be after the Xorg binary in the build order so that they can find the binary to check against, much as the Cygwin changes did (these would be modules built on Solaris but not
Cygwin).

v2: This version only sets the flags for the xorg-server build itself, and does not yet export them in xorg-server.pc to the drivers, since most of the drivers are not ready to build with -no-undefined yet.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit d31942e15c619e9355ef8183223f9165902a9d56
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat May 12 10:10:49 2012 -0700

Add pixman to module dependencies for pixman_region_* functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 339f38ef380d750c4c7af60331a559845e4184e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat May 12 10:09:41 2012 -0700

Build tda9885.c functions into fi1236 to avoid libtool relinking problems

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit a00066d2916b6910429cc1c7feedafaee0d4750
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Jun 28 15:15:53 2012 -0700

Add dixGetGlyphs to replace GetGlyphs from libXfont to simplify linking

No other Xfont consumer used it, and this saves us from having to link callers against libXfont for one simple function when doing -no-undefined symbols builds.

The function is given a new name to avoid clashing with existing libXfont binaries, but a #define is provided to preserve the API so we don't have to fix all the callers at the same time.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 212b9803238d2de2e77cbe5de62d3f616ae50daf
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Fri Jun 29 13:33:58 2012 -0700
randr: Fix REQUEST vs. REQUEST_SIZE_MATCH mismatch

ProcRRGetScreenSizeRange uses REQUEST(xRRGetScreenSizeRangeReq) followed by REQUEST_SIZE_MATCH(xRRGetScreenInfoReq). This happens to work out because both requests have the same size, so this is not a functional change, just a cosmetic one.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 957bf959fb577b29a3e4f6bb67740ca09e7aeb9
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 27 14:36:04 2012 +0100

dix/render: consolidate window format matching code.

This code existed in 3 different forms, perhaps it should be consolidated.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a7b97b0fa85d695ae19d194ca3267159d149e5d
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Thu Jun 28 12:07:11 2012 +1000

dri2: Fix authentication for < v8 clients (v2).

The legacy logic was embarassingly wrong; AuthMagic should return errno, so returning FALSE only when AuthMagic returns nonzero is exactly wrong.

v2: Match drmAuthMagic by returning -EINVAL rather than EINVAL
    Fix trailing whitespace

https://bugs.freedesktop.org/show_bug.cgi?id=51400
Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Tested-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Michel Dänzer <michel.daenzer@amd.com>
Tested-by: Knut Petersen <knut_petersen@t-online.de>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8b4f0a4fdd6c15f49458bc3a8c3135b8c389240d
Merge: 59294a2179 d642e71287
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 28 10:38:26 2012 -0700
Merge remote-tracking branch 'jturney/master'

commit 59294a2179bd5bb996693af004b470932df00ac6
Merge: 855003c333 191b630656
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 28 10:11:44 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 855003c333a0ead1db912695bc9705ef2b3144b4
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 21 18:45:18 2012 -0700

randr: Catch two more potential unset rrScrPriv uses

Ricardo Salveti <ricardo.salveti@linaro.org> found one place where the randr code could use the randr screen private data without checking for null first. This happens when the X server is running with multiple screens, some of which are randr enabled and some of which are not. Applications making protocol requests to the non-randr screens can cause segfaults where the server touches the unset private structure.

I audited the code and found two more possible problem spots; the trick to auditing for this issue was to look for functions not taking a RandR data structure and where there was no null screen private check above them in the call graph.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 32603f57ca03b6390b109960f8bb5ea53ae95ecb
Author: Ricardo Salveti de Araujo <ricardo.salveti@linaro.org>
Date: Thu Jun 21 00:55:53 2012 -0300

randr: first check pScrPriv before using the pointer at RRFirstOutput

Fix a seg fault in case pScrPriv is NULL at ProcRRGetScreenInfo, which later calls RRFirstOutput.

Signed-off-by: Ricardo Salveti de Araujo <ricardo.salveti@linaro.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cf196efa05bbefdeb43f6e6bce5f6d9080fea715
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Jun 22 15:24:43 2012 +0100
modesetting 0.4.0: bump configure.ac

commit 30ab80ef5421fefa9d9dd0779aa138892ff62bd6e
Author: Dave Airlie <airlied@gmail.com>
Date:   Fri Jun 22 15:26:28 2012 +0100

modesetting: pci probing requires interface version 1.4

Set the drm interface version to 1.4 so we get the bus id correctly.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d642e7128790ec6b709df8d1a91333ab87598077
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Jun 21 20:01:49 2012 +0100

configure.ac: link XWIN with GLX_SYS_LIBS

Link XWIN with GLX_SYS_LIBS, just like all the other DDXs

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9f1edced9abc066f0ba47672d006f50f206371
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 15 10:00:51 2012 +1000

xfree86: always enable SIGIO on OsVendorInit (#50957)

Drivers call xf86InstallSIGIOHandler() for their fd on DEVICE_ON. That function does not actually enable the signal if it was blocked to begin with. As a result, if one vt-switches away from the server (SIGIO is blocked) and then triggers a server regeneration, the signal remains blocked and input devices are dead.

Avoid this by always unblocking SIGIO when we start the server.

X.Org Bug 50957 <http://bugs.freedesktop.org/show_bug.cgi?id=50957>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4ba340cfaa8d430c808566495f8deda0ff1b4424
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 21 18:42:46 2012 -0700

randr: Clean up compiler warnings about unused and shadowing variables
set but not used variables
shadowing a previous local

A hidden problem was that the VERIFY_RR_* macros define local 'rc'
variables, any other local definitions for those would be shadowed and
generate warnings from gcc. I've renamed the other locals 'ret'
instead of 'rc'.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 191b630656ba206ad78b7803c3a76f7d9567d9d8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 21 11:25:24 2012 +1000

include: document _XkbErrCode2 macros

Why sending the number of the (implementation-dependent) error statement to
the client is a good idea is a bit beyond me, but at least document it so we
can all share the despair.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 7100118c8d3314d73b6ef0a262af56686b227055
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 18 11:28:52 2012 +1000

AC_SUBST the GLX_SYS_LIBS

libxservertest needs -lpthread from glxapi.c's pthread_once() call. Usually
this would be pulled in by the XORG_LIBS but not when building without Xorg.

This commit has no visible effect on the current tree, preparation for test
cleanup.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 014ad46f1b353a95e2c4289443ee857cfbabb3ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 21 14:26:15 2012 +1000

os: print newline after printing display name

Much easier for scripts that try to read the display value off the file
descriptor. Plus, this restores the behaviour we had for this patch in
Fedora since server 1.6 (April 2009).
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e1f86a7c77ed49e001ea42ef76ab83e87dbdf126
Author: Sergei Trofimovich <slyfox@gentoo.org>
Date: Mon Jun 18 01:13:21 2012 +0300

test/.gitignore: add hashtabletest

Signed-off-by: Sergei Trofimovich <slyfox@gentoo.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c9bbf8fe574591c8e191eeef20f8994781718772
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Jun 21 19:38:55 2012 +0100

hw/xwin/glx: Fix glxWinCreateContext() function pointer mismatch

Fix glxWinCreateContext() function signature to align with commit 96d74138
"glx: Extend __GLXscreen::createContext to take attributes", which added more
parameters to the screen createContext function for implementing GLX_ARB_create_context

indirect.c: In function 'glxWinScreenProbe':
indirect.c:683:36: warning: assignment from incompatible pointer type

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6e85660c7503c7e88e24003562444dffde6c88ff
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Mon Mar 5 23:07:56 2012 +0000

hw/xwin/glx: Update gen_gl_wrappers.py for the current glx/dispatch.h

Fix the code generator for the dispatch table initialization after
the whitespace/coding style changes to glx/dispatch.h

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit cb638ed9c81f07d8603b07db395e31a41fed8685
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Thu Jun 21 18:55:57 2012 +0100

hw/xwin/glx: Blacklist 'GDI generic' GL renderer
If the native GL renderer is the GDI generic renderer (as can happen if we are in safe mode, or the video driver is VGA, or we have hybrid graphics which hasn't noticed that xwin requires 3d acceleration), don't use it. It's not accelerated and we will probably get better conformance and performance from swrast.

Fix so we don't install screen function wrappers in glxWinScreenProbe unless we are successful.

Also, move fbConfig dumping to after GLX version has been determined from extensions

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8c24d20933ba9c2ef0e9a81815c3be23fa896aea
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Thu Jun 21 18:05:24 2012 +0100

hw/xwin/glx: Fix glxLogExtensions to handle a null string without crashing

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c08c7c8f655d7721c1e02bfeeb965b6379f72553
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Fri Jun 24 13:32:10 2011 +0100

hw/xwin/glx: Create a new dispatch table rather than modifying the existing one

Create a new dispatch table rather than modifying the existing one

struct _glapi_table is not a complete type after including glapi.h, so we use glapi_get_dispatch_table_size() to determine it's size (alternatively, we could include glapitable.h, to complete the type)

This could possibly be written to use _glapi_create_table_from_handle() instead, but that requires making all the wrapper functions exports

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3ef3ce069d52dafa932c90ccd30854a8d9daa15a
Merge: a0c8716edc ff541e0a1f
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 21 08:52:34 2012 -0700
Merge remote-tracking branch 'alanc/master'

commit 704b847abfd29e9adde27127a15a963414f8bfc4
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Apr 6 10:13:45 2012 -0700

Add FormatUInt64{,Hex}() for formatting numbers in a signal safe manner

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc85c81687a24ae738094ff11f4448fb3b3afbb
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Apr 6 08:03:09 2012 -0700

Save log file file descriptor for signal context logging

None of the FILE based functions are signal safe, including fileno(), so we need to save the file descriptor for when we are in signal context.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d3725549f0276487fba1d419094209d18e86669f
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Apr 6 07:43:57 2012 -0700

Add global variable inSignalContext

This will be used for checking for proper logging when in signal context.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a0c8716cdca139059e7ae8a3eb75726dd37a4a1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 21 13:45:06 2012 +1000

kdrive: adjust BlockHandler/WakeupHandler to new API

Missing API update caused Xephyr to crash on startup, garbage memory dereference when accessing timeout.
Introduced in 1f0e8bd5eb1a5539689cfc4f5a6b86b530907ec5
kdrive.c:868:27: warning: assignment from incompatible pointer type
kdrive.c:869:28: warning: assignment from incompatible pointer type

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ff541e0a1f84bd98966148793f35afeaf71c271b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jun 13 21:20:51 2012 -0700

Remove obsolete tab stop comments from hw/xfree86/parser/*.c

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 687536b1044a3297f6b9a45f6a2d2987daa7be59
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Jun 12 22:38:46 2012 -0700

Fix some overly indented/poorly line wrapped comments in dix/events.c

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 93a378aad4a4a03f37d7a979e20c1b6a9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Jun 12 22:29:51 2012 -0700

OtherClientGone: Remove unreachable return statement

Now that FatalError is marked as _X_NORETURN, the compilers know we can't get here, and the return statement added to make them happy in the past now makes them unhappy.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3f97284b10c250457888902deb4d793cb4544d4
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date: Wed Jun 20 13:53:53 2012 +1000

dri2: Pass a ScreenPtr through to the driver's AuthMagic function. (v3)

xwayland drivers need access to their screen private data to authenticate.
Now that drivers no longer have direct access to the global screen arrays, this needs to be passed in as function context.
v2: Don't break ABI
v3: Paint the bikeshed blue; drop fd from AuthMagic2ProcPtr prototype

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dae317e7265007b3801224722e3b3a06e904ed5
Author: Andy Ritger <aritger@nvidia.com>
Date: Thu Jun 14 09:15:37 2012 -0700
	randr: Don't recurse into mieqProcessInputEvents() from RRTellChanged().

Call UpdateCurrentTimeIf(), not UpdateCurrentTime(), from RRTellChanged().
The latter calls ProcessInputEvents(), which can trigger a recursion
into mieqProcessInputEvents(). The former omits the call to
ProcessInputEvents().

Signed-off-by: Andy Ritger <aritger@nvidia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 54476b5e4461ff523e935961affabcf0de12c556
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 7 16:52:20 2012 +1000

dix: if the scroll valuator reaches INT_MAX, reset to 0

Too much scrolling down may eventually trigger an overflow of the valuator.
If this happens, reset the valuator to 0 and skip this event for button
emulation. Clients will have to figure out a way to deal with this, but a
scroll event from (close to) INT_MAX to 0 is a hint of that it needs to be
ignored.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 8dc70acbf3d82611ae9ec1ec2a52edcc01934850
Merge: ff847a123d b59ade9c24
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 14 13:04:29 2012 -0700

Merge remote-tracking branch 'alanc/master'

commit ff847a123ddd1233f8b4229c2f23483652065c5e82
Merge: db9d2b8a50 b840ba5f54
Author: Keith Packard <keithp@keithp.com>
Merge remote-tracking branch 'idr/GLX_ARB_create_context'

commit db9d2b8a508ab812e5c717a41310faad81879b09
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jun 7 15:01:59 2012 +0100

xserver: fix build on arm tinderbox

Rob Clark got an ARM tinderbox up and running, and this code is built there but not here, this should fix it, though I hope that code never gets executed.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6d86b64dbae5fa16712fd1fd3157f716d238877
Merge: 812786fd4d 4c68f5d395
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 14 11:05:22 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit b59ade9c2427e5efac3513c20992723e23f92691
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Jun 7 20:58:01 2012 -0700

Make stub version of fbdevHWAdjustFrame match new prototype in fbdevhw.h

Removed flags argument to match api rework in commit 1f0e8bd5eb1a55

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 4c68f5d395c66f28b56e488cb3cd12f36820357b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 9 09:21:28 2012 +1000

dix: disable all devices before shutdown

f3410b97cf9b48a47bee3d15d232f8a88e75f4ef introduced a regression on server shutdown. If any button or key was held on shutdown (ctrl, alt, backspace are usually still down) sending a raw event will segfault the server. The the root windows are set to NULL before calling CloseDownDevices().

Avoid this by disabling all devices first when shutting down. Disabled devices won't send events anymore.
Master keyboards must be disabled first, otherwise disabling the pointer will trigger DisableDevice(keyboard) and the keyboard is removed from the inputInfo.devices list and moved to inputInfo.off_devices. A regular loop through inputInfo.devices would thus jump to off_devices and not recover.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 9c0e820216cd1631f75b037b7908d55ac091692c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 12:55:44 2012 +1000

Xi: drop forced unpairing when changing the hierarchy

Devices are unpaired as needed on DisableDevice now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e433d1046c222f9d969c2c28a4651ff9097614f4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 12:42:59 2012 +1000

dix: disable non-sprite-owners first when disabling paired devices

If a sprite-owner is to be disabled but still paired, disable the paired device first. i.e. disabling a master pointer will disable the master keyboard first.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit df1704365e700d3cf1d36a241bdfc479159a8df7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 15:33:15 2012 +1000

dix: free the sprite when disabling the device

Disabled devices don't need sprites (they can't send events anyway) and the device init process is currently geared to check for whether sprite is present to check if the device should be paired/attached.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e57d6a89027c55fe9f87cde259668ec48a8b4ea1b
Author: Peter Hutterer <peter.hutterer@who-t.net>
dix: move freeing the sprite into a function

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 46adcefb0e08515195d8e49985a4e210395700b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 12:10:12 2012 +1000

dix: return early from DisableDevice if the device is already disabled

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 076f9d3a6660fa7fe4ae9decaff2feebdd32c4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 12:20:37 2012 +1000

dix: drop client argument from PairDevices - unused

This is a leftover from early MPX days where any keyboard could be paired
with any pointer (before the device hierarchy).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d034605f3914e41e0d636eafff9278be1c041b2c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 14:13:20 2012 +1000

dix: rename shadowing loop variable in TouchResizeQueue

second 'i' shadows the function-wide one, rename to 'j'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit a86f3ef511db16be5ddc723bf14e770dad23ee45
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 10 11:55:21 2012 +1000

dix: change "still paired warning" to use BUG_RETURN_VAL

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
commit 4bcf43919a14cd2cd20af4099c2d13ce25792edeb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 10 15:32:47 2012 +1000

dix: use BUG_RETURN_Val for pairing errors

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 642569fc79a1814acca1c8f529539b054bf36907
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 10 12:11:57 2012 +1000

Replace a few BUG_WARN with BUG_RETURN_Val

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 11ecfb8884b7c4def0863a57868a6b9fa1b63ae5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 10 11:48:05 2012 +1000

include: add BUG_RETURN_* macros

Helper functions to avoid things like

if (foo) {
    BUG_WARN(foo);
    return 1;
}

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit ff41753b1bee414b16c0f1e8d183776e87c94065
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 6 14:38:49 2012 +1000

xkb: warn if XKB SlowKeys have been automatically enabled

Slow keys are enabled when the XKB AccessX features are generally enabled
(ctrls->enabled_ctrls & XkbAccessXKeysMask) and either shift key is held for
8 seconds. For the unsuspecting user this appears as if the keyboard
suddenly stops working.

Print a warning to the log, so we can later tell them "told you so".

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34400
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit f20a532ba3c7b7d74530f3906c7bacf0f16bb8faf
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun May 20 00:00:59 2012 -0700

Fix statement not reached warning in _DMXXineramaActive

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 1be317c4e5d99d11a124ad4e7a90a5dcae591e20
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Wed May 23 19:27:23 2012 -0700

Provide prototypes for Mnio functions for Solaris Studio on SPARC

Actual inline implementations are provided via external *.il files
generated from *.S files in hw/xfree86/os-support/solaris

Fixes missing prototype warnings that xorg-macros has recently elevated
to build-breaking errors.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Henry Zhao <henry.zhao@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 812786f4d4306cb16f8ed57fa4a1a32bb1d13fe3
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 19:55:52 2012 +0100

xwin: fixup block/wakeup handlers

These got missed out in the api changeover.

Reported-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3cbaf621782fb5f5679ac9104571d3ae2b48b72
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 17:54:02 2012 +0100

xfree86: fix new warnings introduced in rebase.

Spotted these in tinderbox:
xf86xv.c: In function 'xf86XVScreenInit':
xf86xv.c:282: warning: assignment from incompatible pointer type
xf86xv.c: In function 'xf86XVCloseScreen':
xf86xv.c:1275: warning: assignment from incompatible pointer type
xf86xv.c: In function 'xf86XVAdjustFrame':
xf86xv.c:1366: warning: assignment from incompatible pointer type

Missed removing one flags.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Tested-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ec79187d9a23ba30eafc7ba225049559e6bcb78d
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 14:41:18 2012 +0100

modesetting: workaround kernel bug reporting 0x0 as valid mins

It reports these but then you can't create a 0 sized bo.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 1f0e8bd5eb1a5539689fc4f5a6b86b530907ec5
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jun 5 13:22:18 2012 +0100

api: rework the X server driver API to avoid global arrays.

This is a squash merge containing all the API changes, as well as the video ABI bump.

Its been squashed to make bisection easier.

Full patch log below:

commit b202738bb0f0c5a1c1172767119c2c71f1e7f8070
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon May 14 15:16:11 2012 -0700

xfree86: Bump video ABI to 13.0

The ABI was broken by changes to convert from screen index numbers to ScreenPtr / ScrnInfoPtr in various structures and function signatures.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
xf86: xf86ClearEntityListForScreen should take a pScrn

When adding GPU screens this make life easier.

(also fix comment, as pointed out by Alan)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

xf86i2c: add pscrn for drivers to use

This just adds a pScrn pointer into the struct for the drivers to use
instead of scrnIndex. Mostly scrnIndex is used for logging, but some
drivers use it to lookup xf86Screens, so let them stash a pScrn instead.

Removing the scrnIndex is a bit more involved and I'm not sure its worth
the effort. Doing i2c in the X server is legacy code as far as I'm concerned.

Reviewed-by: Alex Deucher <alexander.deucher@amd.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

dix/gc: consolidate GC object creation in one place

The standard GC create and scratch GC create were 90% the same really,
and I have a need in the future for creating GC objects without the
other bits, so wanted to avoid a third copy.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d91482ea9b4f83e64e496f2768168e0ffa21ba1
Author: Dave Airlie <airlied@redhat.com>
Date: Wed May 23 10:24:06 2012 +0100
xf86: add a define to denote the new non-index interfaces are being used

This can be used by drivers to provide compatible APIs.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 37c3ae3e6cd4f3dedc72f371096d6743f8f99df3
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 15:09:12 2012 +0100

dix: make Create/Free scratch pixmaps take a ScreenPtr

While technically an API/ABI change I doubt anyone uses it, but it helps in splitting screens up.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 75f2062a3fe9f04764ecc7d2ff2fbbeccb9da60
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 14:57:55 2012 +0100

xf86/xv: remove scrnIndex from xf86FindXvOptions.

Move this interface to taking an ScrnInfoPtr.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f80c2374f40ea7b2ee0556e2e76cc07406f3d843
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 14:53:59 2012 +0100

xf86: make xf86DeleteScreen take a ScrnInfoPtr (v2)

stop passing indices into this function.

v2: drop flags argument.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 58824e414f35682435f15bfe6c4b656bd90b9235
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 14:48:09 2012 +0100

xf86: fix xf86IsScreenPrimary interface to take a pScrn (API/ABI)
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 6b4fc1f9d391b6cf7ca288766e49bce60f4635cd
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 14:18:59 2012 +0100

xserver: convert block/wakeup handlers to passing ScreenPtr (ABI/API) (v2)

Instead of passing an index, pass the actual ScreenPtr. This allows
more moving towards not abusing xf86Screens + screenInfo.

v2: drop the blockData/wakeupData args as per ajax's suggestion.,
fix docs.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 790d003de20f47674420a24dadd92412d78620d
Author: Dave Airlie <airlied@gmail.com>
Date:   Wed Apr 11 09:53:14 2012 +0100

xf86/common: remove some more pScrn->pScreen uses

remove some more conversions that appeared after api cleanups.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit aac85e18d1dd093f2cad6bd29375e40bd7af0b8f
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 16:34:53 2012 +0100

ddc: change API to take ScrnInfoPtr (v2)

This removes all xf86Screens usage from ddc code,
it modifies the API for some functions to avoid taking indices.

v2: address Alan's comments about dropping DDC2Init parameter.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
commit fe3f57b6eaf6860a33876a5f49439f69578f03a5
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 16:31:26 2012 +0100

vbe: don't use index for VBEInterpretPanelID (API)

Remove use of xf86screens from vbe module.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit abf1965f4ed91529036d3fdbc470d6a3ce6f29675
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 16:25:11 2012 +0100

int10/vbe: don't use xf86Screens. (ABI) (v3)

Pass the ScrnInfoPtr instead of the index in the int10 struct.

This saves us using it to dereference xf86Screens.

v2: address Alan's comment to fix struct alignment.

v3: squash in all the int10 fixes, test the vm86 code builds,
after comments by Keith.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 23cca612b4fb5efc33683c7624b803b457387e3d
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:30:18 2012 +0100

xserver: drop index argument to ScreenInit (ABI/API) (v2)

This drops the index argument, its the same as pScreen->myNum,
and its the last major index abuse I can find.

v2: address Alan's review - update docs, fix xwin/xnest/darwin

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 40d360e2d7e832407f3ed64e3a02c27ecc89a960
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:23:01 2012 +0100

xf86: migrate PointerMoved from index to ScrnInfoPtr (ABI/API)

This migrates PointerMoved from an index to ScrnInfoPtr.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit aa60a2f38679d0eeb979a9c2648e9bc771409bf9
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:20:46 2012 +0100

xf86: migrate PMEvent to a ScrnInfoPtr (ABI/API)

This migrates the PMEvent from index to ScrnInfoPtr.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d3f28ef44371ed4a039fffc5dd7eb6408d1269ba2
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:18:30 2012 +0100

xf86: migrate SetDGAMode from index to ScrnInfoPtr (ABI/API)

This migrates the SetDGAMode callback from an index to ScrnInfoPtr.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit baf5e4818a74f2b68c3dfdcce56f54322351039a0
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:14:11 2012 +0100

xf86: migrate ChangeGamma from index to ScrnInfoPtr (ABI/API) (v2)

This migrates the ChangeGamma interface to avoid passing a index.
v2: fix xf86RandR12.c + xf86cmap.c call

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 51e5f90ada929d6b23176090badbb42fdb3fa550
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:11:09 2012 +0100

xf86/EXA: migrate index to screen types for EnableDisableFBAccess (ABI/API)

The EXA interface migrates to ScreenPtr,
and the xf86 interface migrated to ScrnInfoPtr.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 94f1f21d17e86f9d4a54292a399160950087675
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:02:11 2012 +0100

xf86: migrate ValidMode callback to ScrnInfoPtr (ABI/API)

This migrates the ValidMode to passing a ScrnInfoPtr instead
of an index.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3f8f18198fed4f39ec805b508a3482e91eea26b2
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 14:59:46 2012 +0100

xf86: migrate SwitchMode to taking ScrnInfoPtr (ABI/API) (v2)

This migrate the SwitchMode interface to take a ScrnInfoPtr
instead of an index.

v2: drop flags.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
xf86: move AdjustFrame to passing ScrnInfoPtr (ABI/API) (v2)

This converts AdjustFrame code paths to passing a ScrnInfoPtr instead of an integer index.

v2: drop flags args.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@gmail.com>

commit 53d2f8608fdd4090d08e7d5cf2e92fb954959b90
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 14:41:27 2012 +0100

xf86: modify FreeScreen callback to take pScrn instead of index. (ABI/API) (v2)

Another index->pScrn conversion.

v2: drop flags arg.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@gmail.com>

commit 60db37c0b247052e0f5c54b1921fe58a3609c2e3
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 14:35:41 2012 +0100

xf86: change EnterVT/LeaveVT to take a ScrnInfoPtr (ABI/API break) (v2)

This modifies the EnterVT/LeaveVT interfaces to take a ScrnInfoPtr instead of an index into xf86Screens. This allows dropping more public dereferences of the xf86Screens and screenInfo.

v2: drop flags args as suggested by Keith, fix docs.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
xserver: remove index from CloseScreen (API/ABI breakage)

This drops the index from the CloseScreen callback, its always been useless really, since the pScreen contains it.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 12f9aff38ac2ec528387ce610e41fbd448698e2
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Fri Apr 6 12:44:07 2012 -0700

test/touch: Initialize device name

Without this change, the test will segfault when we switch to signal-safe logging.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3476eb38063473a7a5fcfd78e2095e284118de839
Merge: 78f0d9d6c4 42ae2e8199
Author: Keith Packard <keithp@keithp.com>
Date: Sun Jun 3 20:24:24 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 42ae2e8199fe875319978249963de7499607988b
Author: Siddhesh Poyarekar <siddhesh.poyarekar@gmail.com>
Date: Tue May 29 10:17:50 2012 +0530

xkb: Allocate size_syms correctly when width of a type increases

The current code seems to skip syms with width less than type->num_levels when calculating the total size for the new size_syms. This leads to less space being allocated than necessary during the next phase, which is to copy over the syms to the new location. This results in an overflow leading to a crash.
Signed-off-by: Siddhesh Poyarekar <siddhesh.poyarekar@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 88c767eb01ed7efb19ffe3a453e16107b27130b
Author: Michal Suchanek <hramrach@gmail.com>
Date: Wed May 23 11:22:05 2012 +0200

Fix crash for motion events from devices without valuators

A WarpPointer request may trigger a motion event on a device without valuators. That request is ignored by GetPointerEvents but during smooth scroll emulation we dereference dev->valuators to get the number of axes.

Break out early if the device doesn't have valuators.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e07c945ab992b1b1acdd9f5554e0688f744e4769
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Jun 1 12:34:42 2012 +0100

modesetting: bump to latest X server compat api.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 78f0d9cdc441a575e15e5f7200ce74750d2f7ad2
Author: Chad Versace <chad.versace@linux.intel.com>
Date: Wed May 2 16:18:49 2012 -0700

dri2: Add DRI2GetParam request (v2)

Bump dri2proto dependency to 2.7.
Bump DRI2INFOREC_VERSION to 7.

This new protocol request effectively allows clients to perform feature detection on the DDX. The request was added in DRI2 protocol 1.4.

If I had DRI2GetParam in June 2011, when I was implementing support in the Intel DDX and Mesa for new hardware that required a new DRI2 attachment format, then I could have avoided a week of pain caused by the necessity to write a horrid feature detection hack [1] in Mesa. In the future, when the work begins to add MSAA support to the Intel DDX, having a clean way to do feature detection will allow us to avoid revisiting and expanding that hack.

[1] mesa, commit aea2236a, function intel_verify_dri2_has_hiz
v2: If driver doesn't define ds->GetParam, don't crash. Fall back to
default behavior, per keithp.

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net> (v1)
Reviewed-by: Ian Romanick <idr@freedesktop.org> (v1)
Signed-off-by: Chad Versace <chad.versace@linux.intel.com>

commit 594b4a4f0601066d09e49a84c5af8c2eb6f07240
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 24 13:34:11 2012 +1000

Xext: include dix-config.h

silences
In file included from ../include/misc.h:111:0, from hashtable.c:2:
./include/os.h:559:1: warning: redundant redeclaration of 'strndup' [-Wredundant-decls]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit d348ab06aae21c153ecbc3511aeaf8eab6d8303
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri May 11 21:31:50 2012 +0200

Xvfb: destroy the screen pixmap in CloseScreen

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e4153c1d9138ed40de1e615525066a0fbb599dc
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri May 11 21:31:49 2012 +0200

Xi: make stub DeleteInputDeviceRequest call RemoveDevice

DeleteInputDeviceRequest is called from CloseDownDevices on reset, so
call RemoveDevice to avoid leaking devices in Xvfb/Xnest/Xwin.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b840ba5f54de5b00a7700ca49e51308b8cc66f92
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Fri Dec 16 14:44:55 2011 -0800
glx: Implement protocol for glXCreateContextAttribsARB

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 23612a63fc12be13442a63193a19f883d7a87e5d
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Fri Dec 16 14:42:51 2011 -0800

    glx: Make several functions available outside the glxcmds.c compilation unit

validGlXScreen, validGlxFBConfig, validGlxContext, and __glXdirectContextCreate will soon be used by createcontext.c.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit cd5689cac5ed722e9dc1a3fab9a260b798062ee6
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Sat Dec 10 15:15:18 2011 -0800

    glx: Use one function to add a context to all global tables

Instead of having separate __glXAddContextToList and AddResource functions, just have one function that does both steps.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit c1d91ab37025d3e0df7e8f647fb21816fe0e8420
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Sat Dec 10 15:11:57 2011 -0800

    glx: Initialize remaining context fields

There is no reason to assume the screen's context allocated initialized these fields, so don't.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 0db76e5f771fb964e67de716a254850a38e02f19
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Sat Dec 10 15:09:57 2011 -0800
glx: Initialize all context fields together

v2: Fix whitespace error noticed by Christopher James Halse Rogers.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit befa76d251eb5de85ed621056e652784722bc7
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Fri Dec 9 17:28:21 2011 -0800

glx: Implement GLX SetClientInfoARB protocol

v2: Bump glproto version to 1.4.15. This patch uses structure names that only exist in that glproto version and later. Noticed by Christopher James Halse Rogers.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 8b8cd66f6c871c83e638221f131801da7df9f
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Dec 5 13:52:01 2011 -0800

glx: Optionally call DRI2 createContextAttribs from __glXDRIscreenCreateContext

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 0a9226376c9a44c3b50baad25f2b7d2b9fecz708
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Dec 5 13:48:19 2011 -0800

glx: Add tracking for GLX_ARB_create_context and GLX_ARB_create_context_profile

The formatting of the extension data table was mangled by indent. This patch also undoes that and adds appropriate control comments so that indent won't do it again.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 96d74138b1c0273e88933220d99a893858b649cd
Author: Ian Romanick <ian.d.romanick@intel.com>
glx: Extend __GLXscreen::createContext to take attributes

The attributes will be used for glXCreateContextAttribsARB additions in follow-on patches.

v2: Add missing 'int *error' parameters noticed by Christopher James Halse Rogers.

v3: Remove redundant 'int err;' declaration noticed by Christopher James Halse Rogers. This was supposed to be in v2, but I missed it.

v4: Add comma missing from additions in v2. Ugh.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 62f06b0dced13cb87bc3d0c5ff86d8db7e3ff0ef
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Fri Dec 2 21:14:46 2011 -0800

   glx: Don't track GLClientmajorVersion or GLClientminorVersion

   Nothing uses these fields anywhere in the server.

   Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
   Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
   Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 724176a87afdb9a79ce630724bc7e869530aeef3
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Dec 5 10:55:20 2011 -0800

   glx: Fix mishandling of shared contexts

   Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
   Reviewed-by: Eric Anholt <eric@anholt.net>
   Reviewed-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 1c01090f6485cbb82c2511f461e66ff15a097358
Author: Dave Airlie <airlied@redhat.com>
Date: Wed May 23 11:31:39 2012 +0100

   modesetting: fix make distcheck

   add missing compat header file.
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ef47a1b3bfec33d4031af2e01bdd46d634be2f51
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 11:21:55 2012 +0100

modesetting: convert to new scrn conversion APIs.

Generated with util/modular/x-driver-screen-scrn-conv.sh

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3e46d578d8c40c95343278db0a66c931e85247c7
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed May 23 11:21:39 2012 +0100

modesetting: add compat header file

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 2d4fda4b09e67e47d3e6fc4743fc6e81bfc40f28
Author: Marcin Slusarz <marcin.slusarz@gmail.com>
Date:   Mon May 21 21:39:43 2012 +0200

xfree86: fix mouse wheel support for DGA clients

xf86-input-evdev (since "smooth scrolling" support was added) can send mouse
motion and wheel events in one batch, so we need to handle it properly.
Otherwise mouse wheel events which come with motion events are lost
and separate mouse wheel events are handled through non-DGA path.

Signed-off-by: Marcin Slusarz <marcin.slusarz@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9bc53d8cb04af2be3f3eebb1b10774c2d599a76b
Author: Michal Srb <msrb@suse.com>
Date:   Tue May 22 21:19:40 2012 -0700

dri2: SProcDRI2Connect - send the response.

The swapped implementation of DRI2Connect is always responding with empty
device and driver values. However the response was only prepared and never
sent (also had undefined .type member), causing e.g. glxinfo get stuck waiting
for response when started remotely from machine with different endianness.

Signed-off-by: Michal Srb <msrb@suse.com>
xf86: reimplement XF86SCRNINFO macro using new functions.

This macro did lookups via privates but we can just use the ScreenToScrn conversion instead.

This patch drops all in-server uses, we should drop the macro later, once drivers have been converted to not use it.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

xf86/modes: drop more pScrn->pScreen usages

Just simple conversion to use the lookup function.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

xaa: convert pScrn->pScreen to use accessor.

This uses a standard conversion function to do the conversion.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 738367ac9b6179593a38074d0105de206cbed296
Author: Dave Airlie <airlied@gmail.com>
Date:   Wed Apr 11 09:46:39 2012 +0100

xf86/modes: drop two uses of screenInfo

Just use new macros to access scrn->screen.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit cc4fe613d0b0891ea9502340801b37e64301f573
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat May 5 09:47:24 2012 +0100

render/exa: use glyph picture accessors

use the glyph picture accessors in the X server, render and EXA code.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a45e1d6d66f2a5f31ed737294351cfa251c0a030
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat May 5 09:38:28 2012 +0100

render: add GetGlyphPicture accessor.

This is a new API to stop the drivers directly looking up the glyph pictures
in a global array. It provides a define GLYPH_HAS_GLYPH_PICTURE_ACCESSOR for
drivers to work in a compat way.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 41151f88e2f01b00c1912822b8b430df1eb307e
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:47:33 2012 +0100

xf86: migrate to using xf86ScreenToScrn wrapper (v2)

migrate to new helper API.
This just wraps all the obvious uses of xf86Screens[pScreen->myNum],
and should be fairly simple to review.

v2: remove commented out lines.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 53932b3803fa2c02949fd7d4d0e433ea58fa89f1
Author: Dave Airlie <airlied@gmail.com>
Date:   Tue Apr 10 15:47:32 2012 +0100

xf86: add helper functions to convert to from ScrnInfoPtr/ScreenPtr (v2)

These are just simple functions that we should start migrating drivers
to using.

The end goal is to remove xf86Screens and screenInfo from the ABI.

This includes a define XF86_HAS_SCRN_CONV that drivers can ifdef to provide
their own copies. I'll probably post a generic compat.h file for drivers later.

v2: add asserts.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 39f73e813f7d404498629f6104a9003d092af28d
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 8 13:01:12 2012 +0100

xf86/pci: fix slot claiming counting.

Currently if we claim a slot for a PCI driver, we never let it go properly,
this prevents the fallback probe from reusing the slot, even though it
isn't claimed for that pci slot.

So if you set the modesetting driver to point at a specific kms device,
that isn't a PCI device (i.e. USB dongle), then the modesetting driver
loads, the pci probe tries to bind the config slot to the primary PCI
device, however we then check the kms device bus id to discover it
isn't valid. However we don't remove the claim on the slot. Next the
old probe function is called and there is no slots to claim.

This patch fixes that and converts the pciSlotClaimed boolean into
a counter, and changes the unclaim api to take a device pointer
to remove from the entity.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 07dcc3f1a98dff2ee374a15ac5beac778d2ccc97
Author: Dave Airlie <airlied@redhat.com>
Date:    Sun May 6 17:13:02 2012 +0100

config/udev: add pre_init stage to config and udev.

In order to use udev for gpu enumeration, we need to init udev earlier
than input initialisations. This splits the config init stuff so that udev
pre init sets up before output initialisation.

this is just a preparatory patch, doesn't change anything major.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a2a02882ab65133e6c0c69dbf1f38bc20b406236f
Author: Dave Airlie <airlied@redhat.com>
Date:    Sun May 6 17:35:34 2012 +0100

xfree86: add modesetting driver to fallback list on Linux

Add the modesetting driver to the fallback list on Linux, after vesa
before fbdev.

Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5a3a98fcb799c2ac8fa7494645ad9030f1cac837
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:    Fri Apr 27 13:35:32 2012 -0700

Undocument Font Module loading

Code was deleted in commit affec10635343668839994ea2bac16c1d4524200

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit afcb7ba24ebd9968d48a192df438e7f1c0ecb770
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:    Fri Apr 27 13:31:56 2012 -0700
Undocument mandatory loadable modules

The code to implement was deleted when BaseModules[] was emptied by the replacement of the "pcidata" module with libpciaccess calls in commit 46f55f5dead5d70cdff30531d80a72f6b0e42315.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c3180a74a46c6304be676e3285d707874a9fea
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Apr 6 21:51:37 2012 -0700

  cvt man page should use Hz, not kHz, for vertical refresh rate

  https://bugs.freedesktop.org/show_bug.cgi?id=48311

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 96e0ab54962ab59f03275a098ee02c1f0f86b94e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Jan 26 15:44:40 2012 -0800

  Convert sbusPaletteKey to latest DevPrivate API

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit ba883a0f3435d6da828134e696c4905eaa70f23
Merge: ae1c64b8c8 acdc4f54ee
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 17 16:49:19 2012 -0700

  Merge remote-tracking branch 'jeremyhu/master'

commit acdc4f54ee5784d26c251ff8c941b4360ae80e9b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu May 17 10:08:02 2012 -0700

  XQuartz: Avoid a race in initialization of darwinPointer

  http://xquartz.macosforge.org/trac/ticket/579

  Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit c495211373a118acee02a29c6eb25a332abc856c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu May 17 16:20:30 2012 -0700

XQuartz: Declare noPseudoramiXExtension for miinitext.c

Regression-from: 6699f54fe0b3f4952a75e46fb6c3a643988e65dd
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f5fc5334116ad2b0c8930ac68c52bf0f7a2f1417
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon May 7 17:07:27 2012 -0700

XQuartz: Provide fls implementation for Tiger

Regression-from: 30623d6ff7bca223f9e1a825e86bd317ee6bf16
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e0097ce9719f9b00eaccf7102630c0299f8acdf93
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon May 7 16:31:38 2012 -0700

XQuartz: Tiger build fix

http://trac.macports.org/ticket/34364

Regression-from: 662d41ackedeb9774fae4054e251c708acaffe
Reported-by: Peter Dyballa <Peter_Dyballa@Freenet.DE>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4acbaa3027d897728ed932616f6ef66d93537b101
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon May 7 16:16:20 2012 -0700

XQuartz: Workaround an SDK bug on Leopard/x86_64

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ae1c48ebc8a3c0b32b3d732e8a340bfe00bb9ff79
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 16 10:54:48 2012 +1000

Xi: fix "discards "const' qualifier" warnings

extinit.c: In function 'XInputExtensionInit':
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e42bf98283ddc4eac2213c96e8ebcd711583e6b1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 16 10:47:45 2012 +1000

Xi: fix "shadows previous local" warnings

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit ca6d25ad2d1fb4eefa9d40c7e74c8494f9918625
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 16 10:10:11 2012 +1000

dix: Move DeviceFocusEvent from Xi into enterleave.c

This is only called from the enterleave implementation, so move it and its helper functions to there. No functional changes.
Fixes build error introduced in 31174565ec0090b4c03c9334c82878be2455f938 if building with '-Werror=implicit-function-declaration'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 749a593e49adccdf1225be28a521412ec85333f4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 9 11:30:46 2012 +1000

dix: undo transformation for missing valuators (#49347)

last.valuators contains the transformed valuators of the device. If the device submits events with x/y missing, we need to get that from last.valuators and undo the transformation to that axis.

X.Org Bug 49347 <http://bugs.freedesktop.org/show_bug.cgi?id=49347>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 03318835a5a87a8a5cb3515130b5380d565c0d91
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 14 15:06:56 2012 +1000

include: don't redeclare device events in xkbsrv.h

../../include/xkbsrv.h:308:51: warning: redundant redeclaration of ‘DeviceKeyPress’ [-Wredundant-decls]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 43754803c13c232fd5c37eb3d4b1ca2898d6a6cd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 14 15:07:57 2012 +1000

test: don't shadow parameter 'len'

protocol-xiquerydevice.c:226:25: warning: declaration of ‘len’ shadows a parameter [-Wshadow]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 1bafc9f26bef0997c98b97efa888ed5e2a54f6f0
test: fix redundant declaration of "BadDevice"

In file included from protocol-common.c:36:0:
protocol-common.h:36:12: warning: redundant redeclaration of 'BadDevice'
[-Wredundant-decls]
In file included from protocol-common.c:30:0:
./Xi/exglobals.h:41:12: note: previous declaration of 'BadDevice' was here

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 47e1d0ea43eb7a6caf774f375f11849d0d515e14
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 14 15:01:09 2012 +1000

test: fix "userdata shadows global declaration" warnings

protocol-xiquerypointer.c:124:72: warning: declaration of 'userdata' shadows a global declaration [-Wshadow]
and similar

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e6da635826bda7f67bd492dda8dba8a97809213
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 14 14:51:58 2012 +1000

test: fix "redundant declaration of devices" warning

In file included from protocol-xiwarppointer.c:41:0:
protocol-common.h:91:23: warning: redundant redeclaration of 'devices'
[-Wredundant-decls]
protocol-common.h:86:3: note: previous declaration of 'devices' was here

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 693a31e0704e0745b209e69711522417c4fa8541e
Author: Simon Thum <simon.thum@gmx.de>
Date:   Mon Apr 2 18:49:53 2012 +0200

dix: indentation fixes for pointer acceleration
Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 31174565ec0090b4c03c9334c82878be2455f938
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Wed Apr 25 15:03:31 2012 +0200

dix: Remove redundant declarations.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f1cec791d1def506b99b0e6c160e9e8be107bd13
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 20:08:02 2012 +0200

xfree86: Add ifdef wrapper to xvmodproc.h

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d2f71b13946a14d9698d0355cc45b114b236e73b
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:44:48 2012 +0200

Xi: Remove redundant declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a4f87f885a55373a6daf56fd540e10c5f1db5a5c
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:43:31 2012 +0200

kdrive: Remove redundant declarations.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 369edd78769fa1a174e4091d0fa0722350df5d68
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:41:07 2012 +0200
dix: don't duplicate DoFocusEvents declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 36377fb0e88a6d237d98805e802ab3793582e976
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:37:30 2012 +0200

dix: Remove redundant declarations.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit ea9ed83f8f0da241099d0a11c3460d46e5114dea
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:32:53 2012 +0200

xfree86: don't include xvmodproc.h when not needed

The functions are already declared in xf86xv.h

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 1927e5ab25c9c9bf481e75ac50f4b140a96e634a
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:24:19 2012 +0200

xserver: Remove duplicate declaration in resource.h

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 1339681e4fbd4f5981e6246eeb23e8a9c5d10f4
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:19:43 2012 +0200

miext: Remove redundant declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Commit 6699f54fe0b3f4952a75e46fb6c3a643988e65dd
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:18:43 2012 +0200

mi: Remove redundant declarations.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

Commit b4bf90f9fb20e0e56d2451096d4f62efcf24a962
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:16:30 2012 +0200

exa: Remove redundant declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

Commit 5595e7ce0735db6f82e1fe9df45434826019bf9e
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:15:17 2012 +0200

randr: Remove redundant declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

Commit c59c9dac84301f8eb2a0e4a09a8839146aa5a069
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:13:22 2012 +0200

xkb: Remove redundant declarations.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

Commit d0a83460451df1a4c5667b2f414c35ee81b4ff4a4
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Tue Apr 24 18:11:16 2012 +0200

xfixed: remove redundant declaration.

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3a94b338aa48b656aae1bb3a5a9d64300c0a093
Merge: afc153a5b4 e91d00e0f3
Author: Keith Packard <keithp@keithp.com>
Date: Wed May 9 21:17:16 2012 -0700

Merge remote-tracking branch 'whot/for-keith'

commit e8da587845978ad66c3b3e2e085fd99c16b5d3c8
Author: Dave Airlie <airlied@redhat.com>
Date: Wed May 9 09:33:54 2012 +0100

bump version to 0.3.0

commit 62543946490e7decaef66549d83072f004e850d4
Author: Matt Turner <mattst88@gmail.com>
Date: Wed May 9 00:26:29 2012 -0400

configure.ac: remove DRI and RENDER

Driver doesn't support either of these.

Signed-off-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 7dc22b7911ac3d5c131075903e3bf52c58eac15
Author: Dave Airlie <airlied@redhat.com>
Date: Wed May 9 09:32:05 2012 +0100

modesetting: make sure the pci device corresponds to the drm device

If we get asked to pci open a device with a kms path override, make sure they match, otherwise this driver can steal the primary device binding for a usb adaptor.

The driver should fallback to the old probe entry point in this case.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit afc153a5b4fc58ae70dc21461a71b1a8c855f06
Author: James Cloos <cloos@jhcloos.com>
Date: Tue May 8 17:55:10 2012 -0400

Fix RANDR's gamma_to_ramp().

In order to generate a 256-entry ramp in [0,65535] which covers the full
range, one must multiply eight-bit values not by 256 but rather by 257.

Many years back – well before the RANDR extension was written, and before xorg@fdo – a similar bug fix was made to the DIX for converting client-supplied eight-bit color values into sixteen-bit values.

Noticed by: Elle Stone and Graeme Gill.

Signed-off-by: James Cloos <cloos@jhcloos.com>

commit e501c34d4937d5e6f19abd29f1ec7f95faa3bb55
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue May 1 22:03:24 2012 -0500

hw/xwin/glx: Use silent rules

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 026d402fe623a0bda0bed9e0938ba787bf9829
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Fri Mar 30 14:33:18 2012 -0500

xfree86: use silent rules with sdksysms generation

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 3d98dac46c17bc6e03546b8a532bfb55f00e5084
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Sun Apr 29 20:45:17 2012 -0500

xfree86: respect EXEEXT in relink target

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit e6461db6dcb437cfa7d4b23008c2c12f8169f79
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Apr 26 01:49:06 2012 -0500

os: Add CryptoAPI as a choice of SHA1 implementation

Both Cygwin and MinGW can use Windows' native CryptoAPI for SHA1, saving a dependency on libgcrypt or OpenSSL. The necessary functions are in ADVAPI32.DLL, which is among the default lib flags and is already used in hw/xwin for accessing the registry.
os/log: refactor logging

It is not safe to ever use an arbitrary (possibly user supplied) string as part of the format for a *sprintf() call.

For example:
1. Name a Bluetooth keyboard "%n%n%n%n%n%n%n%n"
2. Pair it with a computer running X and try to use it
3. X is not happy when trying to do the following in xf86-input-evdev:
   `xf86IDrvMsg(pInfo, X_CONFIG, "Device: %s\n", device);`
   because LogVHdrMessageVerb() has put the %n from the device name into a format string of the form:
   "evdev: %n%n%n%n%n%n%n%n: Device: %s\n"

Instead, build up a log message in place by appending successive formatted strings by snprintf'ing to the end of the previous.
a message is actually written to a log file. That is, no timestamps on stderr, or in the mem buffer. Therefore, the timestamp stringification is moved to the conditional where it is used.

Since logging uses a fixed length buffer, this patch also forces a 'n' whenever a buffer is terminated due to a too-long write request. This allows the newline detection to work even on overflow, and also cleans up the log a bit in the overflow case.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5c2e2a164d615ab06be28a663734e782614b5cc7
Author: Daniel Kurtz <djkurtz@chromium.org>
Date:   Wed Apr 18 09:51:51 2012 +0000

os/xprintf: add Xvscnprintf and Xscnprintf

Normal snprintf() usually returns the number of bytes that would have been written into a buffer had the buffer been long enough.

The scnprintf() variants return the actual number of bytes written, excluding the trailing '\0'.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c30862879d2c766519780bb7f353f35edf0daa9b
Author: Daniel Kurtz <djkurtz@chromium.org>
Date:   Wed Apr 18 17:51:50 2012 +0800

os/log: trivial cleanups

* space->tab
* remove comment that doesn't make any sense

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 97041364a6acb2b66b5cfd06757c90a006ad50e9
Merge: 19082726cb ee542b8559
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 2 20:47:25 2012 -0700

Merge remote-tracking branch `whot/for-keith`
No conflicts here

commit ee542b85590814ee25369babce1ad14feeb137af
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Tue May 1 10:21:12 2012 -0700

Report touch emulated buttons in XIQueryPointer for XI 2.1 and earlier

XIInput 2.1 and earlier clients do not know about touches. We must report touch emulated button presses for these clients. For later clients, we only report true pointer button presses.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 19082726cb2c69f53e9720904521e3c98f788bff
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 21 12:47:38 2011 -0500

configure.ac: on MinGW, link with ws2_32 instead of winsock2

ws2_32 is the correct name for the library (even on 64 bit Windows :-()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit ad9605a3e21b20fa8565dc6701610712ac6dd9e1
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Nov 4 13:26:14 2011 -0500

configure.ac: MinGW doesn't have setuid binaries either.

If the target platform isn't in a list of platforms we know don't use a setuid binary, we try to test if we can chown something to root.

This test possibly won't give the right answer if we are cross-compiling, which is common for the MinGW target. This patch adds MinGW to the list of platforms we know don't use a setuid binary.

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 2225208e2ef9857f14813376ce85d305f19263dd
Author: Ryan Pavlik <rpavlik@iastate.edu>
configure.ac: auto-disable MITSHM if we lack IPC

The MITSHM extension uses SYSV IPC, but even if configure's test for IPC failed, MITSHM was still enabled by default, breaking MinGW builds by default.

Unfortunately, fixing this exposes the fact that the HAVE_SYSV_IPC test wasn't being used for anything before and so we hadn't noticed it was failing on Cygwin.

Change from using SHM_W|SHM_R flags (which aren't required by POSIX) to S_IRUSR|S_IWUSR flags (which are)

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 1e7b500a8e1d79b91a4e857a2da06194efe8cf69
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Tue May 1 10:21:11 2012 -0700

Report logical button state in ProcXIQueryPointer

Physical button state is usually meaningless to an X client.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d063f64b5c8c8e27fca41163c93dbca06a774d1c
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 1 17:12:29 2012 +0100

modesetting: attempt to work out if we want 24 or 32bpp

the cirrus driver presents certain challenges, and this is a
workaround, until we can possibly agree some sane interface
for exposing this information.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 0426e6d65b6598edfbc2f66ee65fb08256469e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Jan 3 00:14:32 2012 +0000

configure.ac: Make default configuration for MinGW disable unsupported extensions and DDXs
Same as the default configuration for Cygwin, --disable-xorg and --disable-dmx DDX by default, and force --disable-xv and other unsupported extensions

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 610f532e6a3d934c473d2d16df95f58285b2eb
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue May 1 16:52:18 2012 +0100

modesetting: move opening kernel device to before setting depth
due to interaction between option handling and set depth, we need
to what fbdev does to get the device path early.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f3410b97cf9b48a47bee3d15d232f8a88e75f4ef
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 30 10:01:48 2012 +1000
dix: when disabling a device, release all buttons and keys
A suspend-induced device disable may happen before the device gets to see
the button release event. On resume, the server's internal state still has
some buttons pressed, causing inconsistent behaviour.
Force the release and the matching events to be sent to the client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit af88b43f9e604157b7427bd609c08bdfa256a792
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 27 16:31:17 2012 +1000
dix: don't emulate scroll events for non-existing axes (#47281)

Test case:
- create a device with REL_HWHEEL and ABS_X and ABS_Y. evdev 2.7.0 will set
  that up as device with 1 relative axis
- move pointer to VGA1
- xrandr --output VGA1 --off

Warps the pointer to the new spot and calls GPE with the x/y mask bits set.
When running through the loop to check for scroll event, this overruns the
axes and may try to emulate scroll events based on random garbage in the
memory. If that memory contained non-zero for the scroll type but near-zero
for the increment field, the server would hang in an infinite loop.

This was the trigger for this suggested, never-merged, patch here:
http://patchwork.freedesktop.org/patch/9543/

X.Org Bug 47281 <http://bugs.freedesktop.org/show_bug.cgi?id=47281>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 08962951de969b9d8c870af8b6e47303dc0decfd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 27 10:52:39 2012 +1000

os: make timers signal-safe

If TimerSet() is called from a signal handler (synaptics tap handling code)
may result in list corruption if we're currently inside TimerSet().

See backtrace in
https://bugzilla.redhat.com/show_bug.cgi?id=814869

Block signals for all list manipulations in the timers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d662fa2450856777b59c4b62b912395a8bfd52fd
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Thu Apr 26 15:11:20 2012 +0200

dmx: Annotate dmxlog.c with _X_ATTRIBUTE_PRINTF and _X_NORETURN

and fix resulting printf warning in dmxLogVisual

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5c361d59c5031d9b3f7f9093a52d2b1ff4d9ae5f
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Apr 20 11:08:15 2012 -0700

TouchListenerAcceptReject: Warn and return early on bad listener index

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Bryce Harrington <bryce@canonical.com>
os: Add -displayfd option

This option specifies a file descriptor in the launching process. X will scan for an available display number and write that number back to the launching process, at the same time as SIGUSR1 generation. This means display managers don't need to guess at available display numbers. As a consequence, if X fails to start when using -displayfd, it's not because the display was in use, so there's no point in retrying the X launch on a higher display number.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Tested-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1d82ec95942b88dd01f0ac6b883368360a0b5f6e6
Author: Michal Suchanek <hramrach@gmail.com>
Date: Mon Apr 23 13:52:40 2012 +0200

taxserver: Fix out-of-tree build

Fixes regression caused by ccb3e78124fb05defd0e9b438746b79d84dfe3ae

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ea51e9b2877df60135edaf2a8f88d0f2a2b41060
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Apr 23 10:35:53 2012 +1000

Xi: return BadValue on XIQueryVersion if the version is less than first call

Clients that use plugin systems may require multiple calls to XIQueryVersion from different plugins. The current error handling requires client-side synchronisation of version numbers.

The first call to XIQueryVersion defines the server behaviour. Once cached, always return that version number to any clients. Unless a client requests a version lower than the first defined one, then a BadValue must be returned
to be protocol-compatible.

Introduced in 2c23ef83b0e03e163aeeb061335386068886f4e9c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 93d6ba5b711cbd3f502d83e54c9739856d2e6f2a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Apr 26 21:17:54 2012 -0700

XQuartz: Make sure we tell startx the correct server binary to use in our fallback path

With multiple servers installed, we can't be certain if X is Xorg or Xquartz

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fa6dddc6c5e51c1b7a43fb379fb2a19550f6c8683
Author: Michal Suchanek <hramrach@gmail.com>
Date: Wed Mar 28 18:12:39 2012 -0700

xfree86: workaround crash on close

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=41653

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Knut Petersen <Knut_Petersen@t-online.de>

commit adcb48a29dc93f321ff570551de4b014775c1e147
Author: Jonas Maebe <jonas.maebe@elis.ugent.be>
Date: Sun Apr 22 20:52:47 2012 -0700

glapi: Correct size of allocated _glapi_table struct

The __glapi__gentable_set__remaining__noop() routine treats the _glapi_struct as an array of _glapi__get__dispatch__table__size() pointers, so we have to allocate _glapi__get__dispatch__table__size() * sizeof(void*) bytes rather than sizeof(struct _glapi_struct) bytes.

Signed-off-by: Jonas Maebe <jonas.maebe@elis.ugent.be>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e34519e5255559b01a63d26639f13f0487468de28
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Apr 19 16:38:06 2012 -0700

XQuartz: darwinPointer now sends both absolute and relative motion
This should hopefully help out wine clients that were continuing to have issues after the earlier changes.

http://xquartz.macosforge.org/trac/ticket/548

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 662d41acdde1dcb9774fbc4054e251c708acaffe
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 19 18:48:22 2012 -0700

XQuartz: Add a hack to better handle clicky wheel scroll mice

We lose information from AppKit being in our way. Before adopting smooth scrolling, we always rounded-up the number of scroll button clicks per NSEvent. Now, the scroll value is accumulated in the dix, and clicky scroll wheels with legacy X11 clients are seeing an accumulation of error due to so many translations (button press to smooth scrolling value in AppKit, passed to the dix, and then synthesized into a button press). This attempts to make the situation better.

http://xquartz.macosforge.org/trac/ticket/562

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit eda85290ae47d8dd497ef9335d10268bbe3e02a0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 19 16:20:30 2012 -0700

XQuartz: Use screenInfo.{width,height} instead of grabbing it from the first screen

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b99586c9086ac29df144ef75df92f8ce0c7554651
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Apr 18 17:50:55 2012 -0700

XQuartz: Separate out tablet and mouse event delivery into separate functions

This should have no immediate impact aside from fake mouse buttons no longer working with tablets (where they aren't needed or desired anyways). This prepares us for future changes.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 30623d6ff7bca223f9e1a825e86bd317eef8bf16
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Apr 19 16:06:45 2012 -0700

XQuartz: Correct calculation of the size of our file descriptor array in console_redirect

Reported-by: Joe Rohde <joer@valvesoftware.com>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b4c4c65a35640c7274c4228f62110147878b72
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Apr 18 01:01:44 2012 -0700

XQuartz: Fix a deadlock in pre-dispatch code

The fact that this has been in place so long makes me really wonder if anybody cares about this running in Tiger or Leopard.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d1ef0d4964e43a4ab777750ad214d1092fd1ffda
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 7 15:26:53 2012 -0700

test: Fix make dist

It seems like make dist should be doing the right thing without this commit, but it's not in some cases. Don't ask me to explain why.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d97868d934fd1a00f9e9ef23a1154a70c7bc0464
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Apr 19 16:39:23 2012 -0700

os: Annotate OsVendorFatalError as _X_ATTRIBUTE_PRINTF

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-By: Michal Suchanek <hramrach@gmail.com>

commit 0ba1794fe2896395875f62e911720c7585687444
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Apr 19 16:51:46 2012 -0700

xres: Fix build without composite

Regression from: b8d0d19a6d410776b53a41e7cae90f68d4b22bb7
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Tested-By: Michal Suchanek <hramrach@gmail.com>

commit d77eb7ee49ef19c2c4c7381d56e9d0f9c3fbc890
Merge: 31e3c0ff7f c7b1625558
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 19 15:48:34 2012 -0500

Merge remote-tracking branch 'yselkowitz/master'

Pull in Cygwin for XFree86

commit 31e3c0ff7f75b36421be8de06e5f6e675ec26ddc
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 19 15:25:41 2012 -0500

Export CompositeClientWindowType

Make sure CompositeClientWindowType is visible for XResource v1.2

Signed-off-by: Keith Packard <keithp@keithp.com>

commit e6308e32fe2b5f74133d4d238ffa512257f6327c
Merge: 3720aa33ee 51a8d8dd19
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 19 10:45:07 2012 -0500

Merge remote-tracking branch 'whot/for-keith'

Touch input changes from Chase

commit 51a8d8dd19d7496fe84b37a1f0a7a03658120539
Merge: ebf214876a 00cf1c40b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 19 17:03:54 2012 +1000

Merge branch 'input-fixes' of git://people.freedesktop.org/~cndougla/xserver into for-keith

commit 00cf1c40b28417d7035c2917d048553eb720023c
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Apr 18 18:21:54 2012 -0700

Replay original touch begin event instead of generated begin event

The generated event does not have axes other than X and Y and has a
newer timestamp. In particular, the newer timestamp may be newer than
the real touch end event, which may be stuck in the syncEvents queue. If
a client uses the timestamps for grabbing bad things may happen.
Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 312910b4e34215aaa50fc0c6092684d5878dc32f
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 18 11:15:40 2012 -0700

Update currentTime in dispatch loop

A request, like input device grabs, may check a request timestamp against currentTime. It is possible for currentTime to lag a previously sent event timestamp. If the client makes a request based on such an event timestamp, the request may fail the validity check against currentTime unless we always update the time before processing the request.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a986f2f30cbe2a00e72ded7315c4951d7703e549
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Tue Apr 17 11:40:15 2012 -0700

Update device state including when touch record does not exist

If a touch is physically active, the pointer core state should reflect that the first button is pressed. Currently, this only occurs when there are active listeners of the touch sequence. By moving the device state updating to the beginning of touch processing we ensure it is updated according to the processed physical state no matter what.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ec9c4295830c3de610e65aca17f4da4a7af3c4e5
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 18 12:04:58 2012 -0700

Check other clients' core masks properly when adding touch listener

The current code checks the core event mask as though it were an XI mask. This change fixes the checks so the proper client and event masks are used.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e175971a6f44d94aa8306dc6b9228c8b2c8a0b4d
Ensure touch is ended when last listener is rejected

Currently, the touch is only logically ended if the touch has physically ended. If the touch hasn't physically ended, the touch record is never ended. If there aren't any more listeners, we don't need to keep the dix touch record around any more.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Create a new dix touch record for an emulated touch with no listeners

As a special case, if a still physically active pointer emulated touch has no listeners and the device is explicitly grabbed for pointer events, create a new dix touch record for the grab only.

This allows for clients to "hand off" grabs. For example, when dragging a window under compiz the window decorator sees the button press and then ungrabs the implicit grab. It then tells compiz to grab the device, and compiz then moves the window with the pointer motion. This is racy, but is allowed by the input protocol for pointer events when there are no other clients with a grab on the device.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Rename TouchEnsureSprite to TouchBuildSprite and event type checks

The function will be used for building a sprite for pointer emulation after an explicit device grab. This commit refactors the code so that TouchBuildSprite will function with any event type and moves the checks to the caller.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
When activating an explicit grab, update owning listener

Pointer passive grabs may be changed by the grabbing client. This allows for a selecting client to change an implicit grab to an active grab, which is the mechanism used for pop-up windows like application menus.

We need to do the same thing with touches. If the grabbing client is the owner of a touch sequence, change the listener record to reflect the new grab. If the grabbing client is not the owner, nothing changes for the touch.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ef64b5ee97099618cf2e2cbbd3e471095695ae24
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Mon Apr 16 15:53:51 2012 -0700

Don't deactivate implicit pointer grab on fake touch end event

Fake touch end events are generated by touch acceptance and rejection. These should not cause implicit pointer grabs to be deactivated.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fc518cd9f59060cc19bb90361767c0f47f0e25eb
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Mon Apr 16 15:31:47 2012 -0700

End a pointer emulated touch event only on a "real" end event

Fake end events are generated by touch acceptance or rejection. These should not end the touch point.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 80d7d1ec6a9d61aa96e7d019dc1bee29d90cea34
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Mon Apr 16 14:19:59 2012 -0700

On touch accept, only process end event for owner if it has seen the end

We still need to generate the touch ownership event to process the
ending of the touch event in the case where the owner has the end already.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8dfd98245d2c44a1eb4e8b7c275e6cfc10fe40f1
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 11 11:14:51 2012 -0700

Fix copy/paste error from before git history in UpdateCurrentTimeIf()

See UpdateCurrentTime() for reference. I don't know what bug this might trigger, but it wouldn't hurt to fix this.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6ca30cb33e829b4edd01822367e44ffe60951b0
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 11 08:17:25 2012 -0700

When deactivating an explicit pointer grab, reject all grabs on touches

Explicit pointer grabs are placed at the head of the touch listener array for pointer emulated touches. If the grab is deactivated, we must remove it from all touches for the device.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cacdb9a74065ccba7d50a82e14abdf04b36c5309
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 11 08:13:17 2012 -0700

Accept touch sequence for pointer listener after second event delivery

This is a bit of unimplemented code for touchscreen pointer emulation. A pointer grabbing client currently never accepts the touch sequence. The sequence must be accepted once any touch-derived event is irrevocably delivered to a client.

The first pointer event, derived from a touch begin event, may be caught in a sync grab and then replayed. This is essentially a revocable delivery of an event. Thus, we must wait till a non-begin event is delivered.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 447fe7a1a72513aa68145962c47894242c589cc9
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Apr 11 08:12:08 2012 -0700

Split out helper function TouchListenerAcceptReject()

This will be used for accepting and rejecting touches in the future.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 93c33403642a3de3c9d141ad7940a7b880846aad
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Apr 4 12:59:55 2012 -0700

Only set XI2 mask if pointer emulation is for XI2 client

The current code returns a reference to memory that may not actually be an
XI2 mask. Instead, only return a value when an XI2 client has
selected for events.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4c1dfd21937efc6a85f204a73dd7d7151d54d0a
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Apr 4 12:57:40 2012 -0700

Check core event mask properly for pointer emulated touch events

The current code checks the core event mask as though it were an XI2
mask. This change fixes the checks so the proper client and event masks
are used.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3720aa33ee50788dd3d4acc9bbf8dfeb72c8f5ce
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Thu Apr 7 12:53:51 2011 +0300

Added resourceproto version dependency, >= 1.2.0 now required

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
commit 233eb4d05cae1fdeb4129a2e9905961b78693f74
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Wed Dec 8 17:09:30 2010 +0200

dix: add reference count of the resource to ResourceSizeRec

The ResourceSizeRec now contains the number of references to the resource. For example a Pixmap knows this value and it can be useful for determining the "weight" of the resource. Typically this value is 1.

Reviewed-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit ccb3e78124fb05defd0e9b438746b79d84df3ae
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Tue Dec 14 12:18:23 2010 +0200

Xext: add a generic hashtable implementation

The generic hashtable implementation adds a key-value container, that keeps the key and value inside the hashtable structure and manages their memory by itself. This data structure is best suited for fixed-length keys and values.

One creates a new hash table with ht_create and disposes it with ht_destroy. ht_create accepts the key and value sizes (in bytes) in addition to the hashing and comparison functions to use. When adding keys with ht_add, they will be copied into the hash and a pointer to the value will be returned: data may be put into this structure (or if the hash table is to be used as a set, one can just not put anything in).

The hash table comes also with one generic hashing function plus a comparison function to facilitate ease of use. It also has a custom hashing and comparison functions for hashing resource IDs with HashXID.

Reviewed-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit a2ac01a8e8508ed35aa844a589672c1165e05e4
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Wed Apr 6 10:16:53 2011 +0300

dix: don't use a local wrapper for calling HashResourceID
Calls to Hash(client, id) were replaced with calls directly to HashResourceID(id, clientTable[client].hashsize) and the Hash-function was removed.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit a0b0fbb83f91bb82534a0d83f2a0222567b098d
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Mon Dec 20 12:58:37 2010 +0200
dix: add hashing functions to resource.h for others to use.

The public hashing function HashResourceID uses the same hashing algorithm as resource.c uses internally, but it provides an interface that will is usable by external modules. It provides a parameter for the number of bits for the hash, instead of finding the size from its internal hash table.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit 3ba0decbb4b55a1fd122d269e15b2b2da8ced624
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Wed Dec 8 15:30:57 2010 +0200
dix: add a mechanism for iterating through all subresources

The mechanism allows iterating even through subresources that don't have specific XID's. When such 'resources' are iterated, the XID for them will be zero. A resource type can assign an iteration function for its subresources with SetResourceTypeFindSubResFunc; by default resources are assumed not to contain subresources.

The purpose of this extension is to enable accurate accounting of the resources a resource consumes or uses.

This patch provides the subresource iteration functions for Windows and GCs.

Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit b8d0d19a6d410776b53a41e7cae90f68d4b22bb7
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date:   Wed Oct 27 17:25:50 2010 +0300
composite: Report pixmap usage of client windows to resource extension.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit e83388cc70e21e7f377ed2e417d04469e23eb706
Author: Rami Ylimäki <rami ylimaki@vincit.fi>
Date:   Wed Oct 27 16:59:06 2010 +0300

render: Report pixmap usage of pictures to resource extension.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 96864bfa951ea8bf4ab697753fc62c6a97598bc0
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Mon Nov 29 12:40:56 2010 +0200

Implemented first part of XResource extension v1.2: X_XResQueryClientIds

This patch implements a part of the XResource extension v1.2 (as specified in http://patchwork.freedesktop.org/patch/2720/ ). The request implemented is X_XResQueryClientIds.

This patch depends on the feature introduced by 1e933665b26c74196bb7c59910e6a78bcacf0e "dix: Add facilities for client ID tracking.".

This latest version also adds Doxygen-formatted comments and takes a better notice of coding conventions (as in http://www.x.org/wiki/CodingStyle ).

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit ebf214876a4885a98ded4f5525925b69005fae05
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 18 15:56:37 2012 +1000

dix: indentation fix

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00c663a3bc76d567ad7edd6d6ef3f7725b5df3a
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Apr 17 11:50:40 2012 +0100

modesetting: add set/drop master around VT switch
cursor: hide cursors on LeaveVT

commit 80fefe42f5e67e6b4a4b440d8991bee7e5f38359
Merge: 9779b904c7 12188e8a8a
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Apr 15 21:05:30 2012 -0700

    Merge remote-tracking branch 'whot/for-keith'

commit 12188e8a8a537b38b1ca4cf8c0de5447e19c886a
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Tue Apr 3 17:31:01 2012 -0700

    Use touch state when querying pointer through core protocol

    QueryPointer is part of the core protocol. As such, it knows nothing about touch devices. Touches are converted to button 1 press, pointer motion, and button 1 release for core clients, so we should ensure the pointer state mask has button 1 set when XQueryPointer is used.

    Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 32ece7c09bf0ebc3d99b4078aacebbd44314776a
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Tue Apr 10 17:12:42 2012 -0700

    Ensure sequential touches are pointer emulated sequentially

    Issue:
    * Two sequential touches (i.e. down, up, down, up)
    * Both are grabbed by a touch grab
    * Both have a second listener in the form of a pointer grab or selection
    * The second and first touches are rejected in that order

    The first touch must be pointer emulated before the second touch, so the second touch must be paused until the first touch is rejected or accepted and all events are delivered to pointer clients.

    This change ensures all pointer emulated events are emitted sequentially. It necessarily imposes a delay on further touch events when pointer grabs and selections are used, but there is no way around it.
Update event type when delivering end event to a pointer listener

Just like when we deliver to a touch listener, we must convert a touch end event to an update event for further clients. This also ensures that the touch record is not deleted at the end of ProcessTouchEvent().

Don't update listener after deactivating implicit pointer grab

After the pointer grab is deactivated, the touch listener record is updated at the end of DeliverTouchEmulatedEvent. However, the touch record is ended when the grab is deactivated, so the update to the listener record is in an array of memory that has been freed.

xfree86: after VT switching back, only enable previously enabled devices

If a device was enabled before the VT switch, re-enabled it. Otherwise leave it as is, there was probably a reason why it was disabled.
dirty: check malloc return

Suggested by keithp.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 6c1b5cb903f2f9cb915273835c301d6ac255f45
Author: Dave Airlie <airlied@redhat.com>
Date: Sat Apr 14 15:01:16 2012 +0100

drop use of alloca, just use malloc/free

Reported-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit c5a45b0f7658c77725adce2b64a0fbd62f208328
Author: Daniel Kurtz <djkurtz@chromium.org>
Date: Thu Apr 12 10:11:10 2012 +1000

dix: don't BUG_WARN for button events from button-only device

Events from button-only devices still need coordinates, and they get them from scale_to_desktop(). Therefore, a dev without valuators is not a bug. However, a dev with valuators, but less than two of them still is a bug.

This was noticed when unplugging a "Creative Technology SB Arena Headset", which has some BTNs and some KEYs, but no REL or ABS valuators. It emits [BTN_3] = 0 on unplug, which would trigger the BUG_WARN.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9779b904c7c0b49c74054c22c420012c40595cde
Author: Keith Packard <keithp@keithp.com>
Date: Wed Apr 11 09:33:54 2012 -0700

hw/xfree86: Re-indent xf86vmode.c

This is the result of re-running the 'x-indent.sh' script over xf86vmode.c to clean up the disaster caused by broken syntax in the file.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 592bd0ae2b60cd6f6af3efc40f5f659b12900b4
hw/xfree86: Spurious ‘);’ in xf86vmode.c messed up indentation badly

Inside the unfinished XF86VIDMODE_EVENTS #ifdef block the function definition for xf86VidModeNotifyEvent had an extra ‘);’; before the prototype argument declarations. This was harmless for the compiler as the code never gets used, but completely messed up the file re-indentation. This patch removes the spurious characters in preparation for re-indenting the file.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 72cfc1a097dc1e09d2cd9415ef7855a2cef92351
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 11 09:43:23 2012 +1000

Xi: fix XITouchClass sourceid assignment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 10cd6fda431d2d0835c313b2f5bda6dcea281fd
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Apr 8 00:16:54 2012 -0700

Revert "xfree86: workaround crash on close"

This reverts commit 55f552adb651715d2620db7248cd5b9b8187654a.

This appears to cause a crash at init time instead of close.

Reported-by: Knut Petersen <Knut_Petersen@t-online.de>
Acked-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c7b162555849ab2d4cb195d02d98a40494c5ce55
Author: Yaakov Selkowitz <ysellowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:26:41 2012 -0500

xfree86: link modules against Xorg symbols on Cygwin

As a PE platform, all symbols in both EXEs and DLLs must be resolved at link time. As Xorg modules depend on symbols in the Xorg executable, we must build Xorg before its modules, creating an implib from the former which is used to link the latter. This implib must then be installed in order to build the drivers.
Currently only two drivers are supported on Cygwin: xf86-video-dummy (to replace Xvfb/Xfake) and xf86-video-nested (to replace Xnest/Xephyr).

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2dfddcd60f70f534ad730830fe97f0bb1a192e2a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:23:17 2012 -0500

xf86Config: load DIX libraries before drivers on Cygwin

Cygwin doesn't have ELF rpath capabilities, so these libraries need to be loaded before the drivers (namely dummy and nested) which depend on their symbols.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5dd3d2dbbafec28142552640ac6ef3eeaf2e6d9d3
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:21:01 2012 -0500

xf86Init: provide ddxBeforeReset ifdef DDXBEFORERESET

This is necessary when building Xorg and XWin simultaneously, otherwise undefined symbol errors result in sdksyms.c.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 96186bc7219a88e549928707b3da4b8bfc16c54d
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:18:41 2012 -0500

loader: add Cygwin support

Cygwin libraries use the .dll extension and "cyg" prefix in place of "lib".

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0ce48729d34ab610ff119303355883048b651500
os-support: add Cygwin support

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fd115ee114e95b4e7b96f789d3ad67e2e15555de
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:13:27 2012 -0500

xfree86: allow modules to be built without undefined symbols

This will be necessary to port Xorg to Cygwin, but other platforms may find this useful as well.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 12cd7ca83c35bc61fbda7e61535692e3ec78194c
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 29 02:06:36 2012 -0500

Cygwin/X: disable all unused or unapplicable extensions in configure

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cb5661e86d4a428ec0ca4efc30a1a165d94d7215
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Mar 27 22:16:08 2012 -0500

xf86Crtc: include "xf86xv.h" only if XV

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1110facdfeb95b1ad47d03c0ca3d73933b86dbd6
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Thu Mar 29 18:06:03 2012 -0700

Implement passive touch ungrabbing
Whoops. Forgot to implement this. The code currently generates an error due to the unhandled grab type.

X.Org Bug 48069 <https://bugs.freedesktop.org/show_bug.cgi?id=48069>

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e9d3848d7bda717de4c0f497ae4482d0b30ad49
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 5 14:03:35 2012 -0700

XQuartz: Automatically start our virtual tablet devices

Fixes: https://bugs.launchpad.net/inkscape/+bug/972914
Regression introduced by: 7790dc86384ce451ac44663737fde84dd81ad4e1

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6cb83b78c47b80556cb4d573524d60f0cd1a64ac
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Mar 30 14:29:48 2012 -0700

XQuartz: Tiger build fix

Fixes: https://trac.macports.org/ticket/33818

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit eca58ee4db43d85e5940919be094c38ad166d5d0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Mar 28 15:07:51 2012 -0700

os: Fix regression with FatalError not calling va_start

Regression From: a818b305989bbcede4e585112a7ee70cbc0b14a92

Found-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 55f552adb651715d2620db7248cd5b9b8187654a
Author: Michal Suchanek <hramrach@gmail.com>
Date:   Wed Mar 28 18:12:39 2012 -0700

xfree86: workaround crash on close
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=41653

Signed-off-by: Michal Suchanek <hramrach@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 641a1b9363d59808d2586f9e84847ccc69701482
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 26 10:34:34 2012 +1000

test: reset the client before checking the swapped version

As of 2c23ef83b0e03e163aeeb06133538606886f4e9c, the server returns BadValue for the same client with multiple versions. Avoid this by resetting the client before we issue the same request as a fake swap client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 17f33ca0e5bdf45a2d03e4d3b4753a714ce25baf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 26 10:28:32 2012 +1000

test: init the sync extensions for tests to pass again

Introduced in d645edd11e7482f98c8b7e0d6c8693285c484907

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 8053faa7b8152020a46459ba6e3b98f2599d5bbf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 23 08:20:22 2012 +1000

Bump input ABI to 17 for per-device idlecounters

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7f3997b01a8813c1d7055317eb06111aed8572e9
Merge: 92d50c38b2 31646d8fa9
Author: Keith Packard <keithp@keithp.com>
Date: Mon Mar 26 16:41:52 2012 -0700

Merge remote-tracking branch 'jeremyhu/master'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 92d50c38b2bfeb82e7374a1966a53235e3f8275e
Author: Gaetan Nadon <memsize@videotron.ca>
man: s/__servername__/Xorg/g - no longer required


The Xorg & xorg.conf substitutions are leftover from the transitional period where some distros were building our sources with the XFree86 and XF86config names until they had time to adjust the rest of their packages/installer/config code to the new names.

This will fix inconsistencies and prevent the creation of new unneeded sed patterns.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9e880cd2e36236e4666fd0adad34a407ae3341
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Sun Feb 26 12:15:30 2012 -0500

man: s/__configfile__/xorg.conf/g - no longer required


The Xorg & xorg.conf substitutions are leftover from the transitional period where some distros were building our sources with the XFree86 and XF86config names until they had time to adjust the rest of their packages/installer/config code to the new names.

This will fix inconsistencies and prevent the creation of new unneeded sed patterns.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 31646d8fa9524adca1d7bc2cd2db90d47c2eb96e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Mar 25 23:33:54 2012 -0700

XQuartz: Use scrolling valuators

This lets use send more accurate data to Xi clients and uses dix for legacy scroll buttons rather than reinventing the wheel.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7790dc86384cc451ac44663737fde84dd81ad4e1
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Mar 25 22:30:55 2012 -0700

XQuartz: Use AllocDevicePair to allocate our keyboard and mouse at the same time

Also correct isMaster to FALSE while we're here.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 74fb534bf15687610367248071341fe4bdf1d8bf
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Mar 25 22:16:22 2012 -0700

XQuartz: Call update_desktop_dimensions() after updating our screen coordinates

Fixes: http://xquartz.macosforge.org/trac/ticket/555
Regression from: 8bebb4b4896d8b6ba3309b5b28fcee883bb9f8a96

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 41a46546e92b66fed323b5845dd71a6385feb418
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Mar 25 23:05:43 2012 -0700

XQuartz: Formatting cleanup for sendX11NSEvent

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5324557c7b12dcacddac830b6b65769cb622c6cf
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Mar 23 19:58:49 2012 -0700

XQuartz: Source formatting cleanup

indent butchered Objective-C formatting.  This patch was created by:

1) Reverting the indent changes in hw/xquartz
2) Editing X11Application.m and chaning some #ifdef logic to work with uncrustify
3) Hand edited some (c) notifications
4) Opened all XQuartz sources in XCode and re-indented (^I)
5) Ran uncrustify with this configuration
   (as close to the indent rules as I could get):
cmt_cpp_group=false
cmt_cpp_nl_start=false
cmt_cpp_nl_end=false
cmt_cpp_to_c=false
cmt_star_cont=false
cmt_multi_check_last=true
cmt_insert_before_preproc=false
pp_indent_at_level=false
pp_region_indent_code=false
pp_if_indent_code=false
pp_define_at_level=false
indent_columns=4
indent_brace=0
indent_switch_case=0
align_struct_init_span=2
align_pp_define_gap=0
align_pp_define_span=2
align_oc_msg_colon_span=16
nl_end_of_file_min=1
nl_func_var_def_blk=0
code_width=78
nl_max=2
newlines=auto
indent_with_tabs=0
sp_arith=force
sp_assign=force
sp_assign_default=force
sp_before_assign=force
sp_after_assign=force
sp_enum_assign=force
sp_enum_before_assign=force
sp_enum_after_assign=force
sp_pp_stringify=add
sp_bool=force
sp_compare=force
sp_inside_paren=remove
sp_paren_paren=remove
sp_paren_brace=force
sp_before_ptr_star=ignore
sp_before_unnamed_ptr_star=force
sp_before_byref=force
sp_before_unnamed_byref=force
sp_after_byref=remove
sp_after_type=force
sp_before_sparen=force
sp_inside_sparen=remove
sp_inside_sparen_close=remove
sp_after_sparen=force
sp_sparen_brace=force
sp_special_semi=force
sp_before_semi=remove
sp_after_semi=force
sp_after_semi_for=force
sp_after_semi_for_empty=remove
sp_before_square=remove
sp_inside_square=remove
sp_after_comma=force
sp_before_comma=remove
sp_paren_comma=force
sp_before_ellipsis=force
sp_before_class_colon=force
sp_after_class_colon=force
sp_before_case_colon=remove
sp_after_cast=remove
sp_inside_paren_cast=remove
sp_sizeof_paren=remove
sp_inside_braces_enum=force
sp_inside_braces_struct=force
sp_inside_braces=force
sp_inside_braces_empty=remove
sp_func_proto_paren=remove
sp_func_def_paren=remove
sp_inside_fparens=remove
sp_inside_fparen=remove
sp_square_fparen=remove
sp_fparen_brace=force
sp_func_call_paren=remove
sp_func_call_paren_empty=remove
sp_return_paren=force
sp_attribute_paren=remove
sp_defined_paren=remove
sp_macro=force
sp_macro_func=force
sp_else_brace=force
sp_brace_else=force
sp_brace typedef=force
sp_not=remove
sp_inv=remove
nl_start_of_file=remove
nl_end_of_file=force
nl_assign_square=remove
nl_after_square_assign=remove
nl_fcall_brace=remove
nl_enum_brace=remove
nl_struct_brace=remove
nl_union_brace=remove
XQuartz: Detect FatalErrors on startup to prevent tight crash loops

If a FatalError occurs before the server finishes launching, it will not have drained the launchd-owned DISPLAY socket, so launchd will
just relaunch it. This can cause the server to crash in a tight loop
which will spam the user with CrashReporter windows that claim focus on
appearance.

This allows users stuck in this loop to "deal" with the problem without
popping up a crash report every 10 seconds.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a818b305989bbcede4e585112a7ee70cbc0b14a92
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Feb 17 12:35:02 2012 -0800

os: Pass the FatalError message to OsVendorFatalError

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 0bb8a2566debd6cd11164df9ddca534150ec440a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Mar 13 00:15:55 2012 -0700

XQuartz: Add a defaults option to disable the RENDER extension

RENDER has some ugly issues on XQuartz, so add an option to disable RENDER.

Enables workaround for: https://bugs.freedesktop.org/show_bug.cgi?id=26124

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5ff46d651ac0cd396be2053b79675997ed7af765
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Mar 17 00:04:27 2012 -0700

XQuartz: Use doubles for input valuators

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cd84ce0949a9f397d8b803d3b87c9d02b260d4795
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Mar 17 00:08:19 2012 -0700

XQuartz: Xi: darwinPointer is now Relative

There is really no real reason why this should be necessary, but wine
developers are stubborn, so doing this to try to work around this wine
issue:
http://bugs.winehq.org/show_bug.cgi?id=29732

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 87939bf8311c0e7d168741fe57bc8fac414811d8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Mar 13 00:25:53 2012 -0700

XQuartz: Move our logs into an X11 subdirectory

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit df327f98f6b8e02fadcf3313a85f906722acc572
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Mar 5 00:05:48 2012 -0800

test: Fix 'make dist' for configurations that build the Xorg DDX

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0e8ee1cf4f3377a2916c43527ae0dc6cb07a67ec
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Mar 23 14:54:05 2012 +0000

modesetting: fix build against older Xext

commit a7eac500e652f30deff9dc5e623fab701077738
Merge: bf876c87a9 d645edd11e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 22 13:13:07 2012 +1000

Merge branch 'per-device-sync-counters' into for-keith

commit d645edd11e7482f98c8b7e0d6c8693285c484907
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 12 16:36:31 2012 +1000

Xext: Add per-device SyncCounters

Previously, we only had one idle alarm that was triggered for all devices, whenever the user used any device, came back from suspend, etc.

Add system SyncCounters for each device (named "DEVICEIDLETIME x", with x being the device id) that trigger on that device only. This allows for enabling/disabling devices based on interaction with other devices.

Popular use-case: disable the touchpad when the keyboard just above the touchpad stops being idle.
commit 6ae9f0290770df45b5465da505a780f7b4cc273ee0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 12 13:51:02 2012 +1000

Change lastDeviceIdleTime to be per-device

Preparation work for per-device idle counters.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit 20cf0ef825e3f142b0688b691691e0aeba0a4860a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 13 10:21:23 2012 +1000

Xext: strdup() the SystemSyncCounter name

Required for future dynamic names.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit f1b28aea4156f0381ea733ad2afbd1f34f75599
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 13 09:31:09 2012 +1000

Xext: store the bracket values for idle counters in the private

And drop the three global variables, we have a reference to the counter everywhere now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit d9553b2bbe06fba0b209218ffed9465edd79b4d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 13 09:29:39 2012 +1000

Xext: pass the counter into block/wakeup handlers

No functional changes, currently unused. Preparation work, we don't need a
global variable if we can pass the counters around anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit 90e6dc6de1ac339212989fd8e54131b196e6b369
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 13 09:28:15 2012 +1000

Xext: add a private field to SyncSystemCounters

Will be used to store counter-specific data.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit 3ddae647c307005309daa2d5dfe4bc6acb8170ab
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 12 15:31:39 2012 +1000

Xext: localise pIdleTimeValueLess/Greater

Cleanup for future features, no functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: James Jones <jajones@nvidia.com>

commit 43eb2f2758df6ca5a49afce97cc5baea8caaf9f5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 12 15:27:56 2012 +1000

Xext: localise use of IdleTimeCounter

Instead of referring to the global IdleTimeCounter everywhere, only do it
once and use a local variable for the rest.

Cleanup for future features, no functional changes.
sync: Use a linked list instead of an array for SysCounterList.

For driver debugging, it is helpful to know whether the driver has actually submitted an event to the server. dtrace hooks can help here.

Note that GetPointerEvents and friends may also be triggered by the server for other emulated devices, some care must be taken when analysing the results.

Additional difficulty: proximity events have a run-time assigned type, so this may make automatic detection a tad harder. If in doubt, go for any event > 64 since the only two that can have that value are ProximityIn and ProximityOut.

An example systemtap script is below:

```bash
# Compile+run with
#     stap -g xorg.stp /usr/bin/Xorg
#

function print_valuators:string(nvaluators:long, mask_in:long, valuators_in:long) {}
```c
int i;
unsigned char *mask = (unsigned char*)THIS->mask_in;
double *valuators = (double*)THIS->valuators_in;
char str[128] = {0};
char *s = str;

#define BitIsSet(ptr, bit) (((unsigned char*)(ptr))[(bit)>>3] & (1 << ((bit) & 7)))

s += sprintf(s, "nval: %d ::", (int)THIS->nvaluators);
for (i = 0; i < THIS->nvaluators; i++)
{
    s += sprintf(s, " %d: ", i);
    if (BitIsSet(mask, i))
        s += sprintf(s, "%d", (int)valuators[i]);
}

sprintf(THIS->__retvalue, "%s", str);
%
}

probe process(@1).mark("input__event")
{
    deviceid = $arg1
    type = $arg2
    detail = $arg3
    flags = $arg4
    nvaluators = $arg5

    str = print_valuators(nvaluators, $arg6, $arg7)
    printf("Event: device %d type %d detail %d flags %#x %s\n",
        deviceid, type, detail, flags, str);
}

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 61cb98da1c6199964825de158d9e6c7682d9e983
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 12 16:03:50 2012 +1000

Xext: SyncCreateSystemCounter returns a SyncCounter*

type safety++

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Bryce Harrington <bryce@canonical.com>

commit 908ab3d580188533168c8cfd2c2ab9dc689b4218
```
dix: set raw event values before adding up relative values (#46976)

Regression introduced in 4e52cc0ef48145134cd58d357fb7289e6f8bb709

Raw event values are values as-is from the driver, modified only be transformation or acceleration. 4e52cc caused the mask to be updated from relative to absolute coordinates which then got written into the raw events.

Move the raw event update into the respective branches for absolute/relative events.

X.Org Bug 46976 <http://bugs.freedesktop.org/show_bug.cgi?id=46976>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Sven Arvidsson <sa@whiz.se>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 45fe3085f8f45e529383025414fdd263d86dfd2b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 12 14:08:39 2012 +1000

Xext: remove needless /* parameter */ comments in declaration

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyh@apple.com>
Reviewed-by: Bryce Harrington <bryce@canonical.com>

commit 9c3bd3ae652af386b6821b197d24528f20ba867d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 21 14:03:27 2012 +1000

dix: fix compiler warning "unused variable 'scr'"

gtevents.c: In function 'updateSlaveDeviceCoords':
gtevents.c:326:15: warning: unused variable 'scr' [-Wunused-variable]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e21ffff4761d2b75815391c6947adcba425ab11e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 12 14:07:44 2012 +1000

Xext: typedef QueryValue and BracketValue prototypes
No functional changes, just for readability

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeramy Huddleston <jeremyhu@apple.com>
Reviewed-by: Bryce Harrington <bryce@canonical.com>

commit 14e3ea730eed344e6ed69c873f918d6f076d13dc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Mar 14 13:48:56 2012 +1000

include: add an X_DEBUG message type

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 5910f2df58beaae2187438fe0b62c29a563e853
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Mar 12 16:26:29 2012 +1000

xext: drop InitServertime() declaration.

Not implemented anywhere.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeramy Huddleston <jeremyhu@apple.com>
Reviewed-by: Bryce Harrington <bryce@canonical.com>

commit 31df08a449cf9b6e1740e1c02257997490630d93
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Mar 7 16:06:27 2012 -0800

Use a new sprite trace for indirect touches when all touches have physically ended

All touches of an indirect device, such as a trackpad, are sent to the
same window set. When there are no active touches, a new window set is
created; otherwise, the window set of an existing touch is copied.

The current code checks for any logically active touches. This includes
touches that have physically ended but are still logically active due to
unhandled touch grabs. Instead, we want a new window set whenever there
are no physically active touches.

This change skips over logically active but pending end touches, which
are touches that have physically ended.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: Fix TouchEnd to TouchUpdate change for one accepted grab

If there is only one listener of a touch, the listener is a grab, and is accepted before the touch has ended, the current code will not end the touch record when the touch does end.

This change adds a listener state for when a touch is accepted but has not yet ended. We now keep the touch record alive in this state, but end it when the touch ends.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e884ff8ad4df2b3272a3d8ecce772906207af5142
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Mar 7 19:08:33 2012 +1000

xfree86: remove out-of-date comment

No idea what this was referring to but it goes past git history.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5497ce3da442d27c2dc7796b6ef6ccd670bbadc4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 20 12:09:33 2012 +1000

dix: IsFloating() on master devices is always false

There are a few subtle bugs during startup where IsFloating() returns true if the device is a master device that is not yet paired with its keyboard device.

Force IsFloating() to always return FALSE for master devices, that was the intent after all and any code that relies on the other behaviour should be fixed instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
commit 2c23ef83b0e03e163aeeb06133538606886f4e9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 08:01:07 2012 +1000

Xi: prohibit multiple XIQueryVersion requests with different versions

Return BadValue if major or minor differs on the second call.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit eb84c154ed38194c32651727b6dfed1bde4e599
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 27 10:09:44 2012 +1000

dix: when rescaling from master, rescale from desktop dimensions (#46657)

master->last.valuators[] is in desktop dimensions, so use those as rescale axis ranges, not the screen. Otherwise, a rescale on any screen not the top-left will cause out-of-bounds coordinates which will always map to the bottom-right screen, causing the device to be stuck on that screen.

X.Org Bug 46657 <http://bugs.freedesktop.org/show_bug.cgi?id=46657>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6b6af3d3013e3f4910fae3520d1d786df2b0e47a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 16 15:11:40 2012 +1000

X.Org: return BadAccess if PickPointer fails (#45796)

PickPointer or PickKeyboard return NULL, all MDs are currently disabled and we cannot emulate a core event. This wasn't anticipated by the protocol, so we don't really have an error code we may use here - BadAccess is simply the least bad of the possible ones.

And returning BadAccess beats crashing the server.

X.Org Bug 45796 <http://bugs.freedesktop.org/show_bug.cgi?id=45796>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9e017cf0cfc1f0e9d0d9c2cf9be282ea5dc0eb5905e
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date: Sat Feb 25 20:48:17 2012 +0100
XKB: Redirect actions defunct with Gtk3 (XInput?)

When redirect actions are used with Gtk3, Gtk3 complained about events not holding a GdkDevice. This was caused by device IDs not being set for redirect actions.

More seriously, Gtk3 did not receive state changes redirect actions might specify. This was because event_set_state in dix/inpututils.c accesses the prev_state field, but the changes for the redirect action were only put into the state field.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ab3a815a75ab5695753fa37a98b0ea5293d4cb91
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Mar 15 15:18:29 2012 +0000

Indentation: Change ‘& stuff’ to ‘&stuff’

If the typedef wasn't perfect, indent would get confused and change:

    foo = (SomePointlessTypedef *) &stuff[1];

to:

    foo = (SomePointlessTypedef *) & stuff[1];

Fix this up with a really naïve sed script, plus some hand-editing to change some false positives in XKB back.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 58b1f739d73b03ff7952ca986ed8746a7307ffe
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Mar 15 15:13:51 2012 +0000

Xinerama: Fix up obnoxiously-indented code

Comments inside of conditionals confuse indent to death. Which is fair enough really.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 9838b7032ea9792bec21af424e53c07078636d21
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 21 12:55:09 2012 -0700

Introduce a consistent coding style
This is strictly the application of the script 'x-indent-all.sh'
from util/modular. Compared to the patch that Daniel posted in
January, I've added a few indent flags:

- bap
- psl
- T PrivatePtr
- T pmWait
- T _XFUNCPROTOBEGIN
- T _XFUNCPROTOEND
- T _X_EXPORT

The typedefs were needed to make the output of sdksyms.sh match the
previous output, otherwise, the code is formatted badly enough that
sdksyms.sh generates incorrect output.

The generated code was compared with the previous version and found to
be essentially identical -- "assert" line numbers and BUILD_TIME were
the only differences found.

The comparison was done with this script:

dir1=$1
dir2=$2

for dir in $dir1 $dir2; do
  (cd $dir && find . -name '*.o' | while read file; do
dir=`dirname $file`
base=`basename $file .o`
dump=$dir/$base.dump
objdump -d $file > $dump
  done)
done

find $dir1 -name '*.dump' | while read dump; do
  otherdump=`echo $dump | sed "s;$dir1;$dir2;"`
diff -u $dump $otherdump
done

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 75199129c603fc8567185ac31866c9518193cb78
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 21 12:33:19 2012 -0700
Handle blank betweeen type and name in sdksyms.sh

indent sometimes adds a blank line between the type and the name in a function declaration that includes _X_EXPORT, so handle that before the files are re-indented.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit a615b90cab7569fae9d123e4da1d3373c871d84b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Mar 14 11:32:36 2012 -0700

Bump version number to 1.12.99.0

Now that 1.12 has branched, reset the version on master to a development number.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 53204d5c8bd83c957fbd7d3dc2891118ed7658b
Author: Sascha Hauer <s.hauer@pengutronix.de>
Date:   Sat Mar 3 14:09:25 2012 +0100

make busID non mandatory

Currently the driver only probes a device when it has a busID. The busID is optional so don't depend on it.

Signed-off-by: Sascha Hauer <s.hauer@pengutronix.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit bb7e39e1f2112f5fb7e87baddb114ab164fbc749
Author: Sascha Hauer <s.hauer@pengutronix.de>
Date:   Sat Mar 3 14:09:27 2012 +0100

do not bail out on non pci devices

To make the driver work on non PCI devices we shouldn't bail out in this case.

Signed-off-by: Sascha Hauer <s.hauer@pengutronix.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 2b6848fcb3f85f9ce18a6de1dc6c3ac047101aa8
Author: Sascha Hauer <s.hauer@pengutronix.de>
Date:   Sat Mar 3 14:09:26 2012 +0100

Fix non PCI device probing
When no devicename is found in the option then the driver probes by PciInfo no matter if it's valid or not. Instead of doing this use PciInfo only when it's valid and fall back to the devicename otherwise. With devicename probing use open_hw() to fall back on the KMSDEVICE environment variable or to the default device.

Signed-off-by: Sascha Hauer <s.hauer@pengutronix.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 456a001e3f7a24f443cf0bad8400d5d600e2ad46
Author: Sascha Hauer <s.hauer@pengutronix.de>
Date: Sat Mar 3 14:09:24 2012 +0100

introduce open_hw() function

probe_hw opens the hardware in the order we want it: first try devname, if this is NULL then try the KMSDEVICE environment variable and as a last fallback use "/dev/dri/card0". Instead of implementing the same code again when really opening the device move the code to a open_hw() function and let probe_hw use it.

Signed-off-by: Sascha Hauer <s.hauer@pengutronix.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit aa6ceaaa843525b2243569de162ed0b17faa7510
Author: Sascha Hauer <s.hauer@pengutronix.de>
Date: Sat Mar 3 14:09:23 2012 +0100

fix if() brackets in Probe function

in Probe() the indentation shows what's meant but there are no brackets. Add them.

Signed-off-by: Sascha Hauer <s.hauer@pengutronix.de>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit b1be72c5ca6cb98ba64637990b142be0f1710a19
Author: Keith Packard <keithp@keithp.com>
Date: Sun Mar 4 20:26:18 2012 -0800

Version bumped to 1.12

Signed-off-by: Keith Packard <keithp@keithp.com>

commit e08ed0b757b9b48344a301f612fabb3e39ffec78
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Sun Feb 26 17:51:50 2012 -0500

test: add new test cases to .gitignore

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2416ee4a015068359807a10f433e8c54192c78a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 22 15:32:56 2012 +1000

dix: avoid NULL-pointer dereference on button-only devices (#38313)

And for such devices simply take the last.valuators[] which must be valid at all times anyway. UpdateSlaveDeviceCoords takes care of that.

X.Org Bug 38313 <http://bugs.freedesktop.org/show_bug.cgi?id=38313>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 38000e7d1f958f5944e641de3e716944a5876d41
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jan 31 11:06:21 2012 -0800

Revert "dix: don't XWarpPointer through the last slave anymore (#38313)"

This reverts commit 2bfb802839688ecf328119c4c6979390fc60348d.

This commit caused a regression.

See: http://xquartz.macosforge.org/trac/ticket/517#comment:10

Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cb6a32da27f09261c4d561c19d1877c750d98cc3
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Feb 17 13:44:12 2012 -0800

XQuartz: Short-circuit activateX:

This also avoids a deadlock when calling activateX: before the server thread has initialized

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1562c4a1ca748d2c4a8c69d57ba09ff7ca9cc453
XQuartz: Actually install the new locales

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1349a2b7ab04553c8fddb60534400dea5cbd3cca
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Feb 22 10:07:06 2012 +0000

xf86-video-modesetting 0.2.0

commit e5648616d222966a95edd6c35807df5b91a0f96
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Feb 22 09:59:12 2012 +0000

modesetting: fix warnings, remove dead code.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit f7724167746d15c0ca32a7f5f95fb594adcddd1
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 16:13:34 2012 -0500

cfg: layout and comment the top portion of configure.ac

Reorder statements to be consistent with other modules so things
are easier to find.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a0bb835dc7db1ddd0472058a2a05a600dea3930
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:36:19 2012 -0500

config: replace deprecated AC_HELP_STRING with AS_HELP_STRING

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d56293cae78323b8976859c4461f8809a76a0b03
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:36:17 2012 -0500

make: add all warnings according to the platform
The current code only adds -Wall and only for gcc.
Automake reserves the use of CPPFLAGS for the user to override
on the command line.
This also breaks the option --enable-strict-compilation

The variable CWARNFLAGS contains the complete set of warnings
and is platform sensitive.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit fa201fe8299099f7192a4399c9df245efcee3f8a
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:36:16 2012 -0500

   make: remove empty variable assignment

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit e159fbd8805005bb7a33bf2076fd2cef00e987c6
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:36:15 2012 -0500

   Remove unneeded AM_PROG_CC_C_CC

   There are no objects in subdirs or compiled multiple times
   with different flags.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 70558492376e66b73063e51b128b5bbad14b84f4
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:28 2012 -0500

   Remove redundant AC_PROG_CC

   Already covered by XORG_DEFAULT_OPTIONS

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit d4bb99ce754073de090221d98000f609a3891380
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:27 2012 -0500

   Replace obsolete AM_CONFIG_HEADER with AC_CONFIG_HEADERS
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 5c2d152cad66c3f8ed6a4e82c3e6a45269bbb66d
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:26 2012 -0500

   Add missing targets for ChangeLog and INSTALL

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 8673f545cd465b6e74f1d2fcabe29bc7fa0243d
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:25 2012 -0500

   Remove redundant EXTRA_DIST for the README file.
   Autotools know about it, it is always distributed.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 71594746c7da32e1c7986341a0da30f241a7a2be
Merge: d53235af85 eaba06a27c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 22 18:07:20 2012 +1300

   Merge remote-tracking branch 'whot/for-keith'

commit 88b637e59a37af8ec6c4e0783504b8f1a49e5595
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:24 2012 -0500

   make: remove redundant AUTOMAKE_OPTIONS
   Already covered by AM_INIT_AUTOMAKE([foreign dist-bzip2])

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Dave Airlie <airlied@redhat.com>

commit a7ea959094e9a8d862637a0ea515f687aaf89d29
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Feb 19 08:34:23 2012 -0500

   Fix typo in .gitignore
Let's use the common xorg makefile for all drivers.
This ensures no new problems are introduced.
Improvements are welcome and to be applied to all drivers.

Add contact information to the README file

This reflects the copyright license text in the source code

modesetting: disable dirty updates for ENOSYS
the kernel can also return ENOSYS for this to say its not used.
Date:  Mon Feb 20 11:05:59 2012 +0000

modesetting: fix shadow resizing.

if we hotplugged and output, the shadow got disabled by accident.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit f3b9e52b29e8b8c4b12bcce290ab44e88750ad9
Author: Dave Airlie <airlied@redhat.com>
Date:  Mon Feb 20 11:00:56 2012 +0000

modesetting: move shadow stuff to other structure

we need this for resize to work properly.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit eb44a004b7230321ce6837ef44610153b1d2017b
Author: Dave Airlie <airlied@redhat.com>
Date:  Mon Feb 20 10:54:36 2012 +0000

modesetting: fix stride if kernel modifies it.

If the kernel aligns things use its values instead.

fixes output on nouveau here.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit 2150cbda8c75d348f39926bbc23d3e4ca9b42c88
Author: Dave Airlie <airlied@redhat.com>
Date:  Mon Feb 20 10:54:21 2012 +0000

shadowfb: dump shadowfb state at startup

commit 86080a5f7a589e55a485c42bab47c6c8ff6428c1
Author: Dave Airlie <airlied@redhat.com>
Date:  Thu Feb 16 19:41:40 2012 +0000

use a cap to decide if shadow is preferred or not.

Signed-off-by: Dave Airlie <airlied@redhat.com>
commit fc5f39ac4d9023a82ab05ffde1b423b697753c
Author: Dave Airlie <airlied@redhat.com>
Date:  Thu Feb 16 19:41:30 2012 +0000

cleanup dumb cap fetch
commit d94b3eaba9a33d0d78ed2d9acbc3339f40f0d2e
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Nov 14 11:22:44 2011 +0000

modesetting: add cursor fallback if kernel rejects cursor.

If the kernel rejects a cursor, cause a fallback, this isn't 100% as
we can lose the initial cursor, but it works fine once wm starts.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 594b3c4d6f6f748e08babfc4bc1c3ff9ad9b0d9cf
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Feb 16 19:31:33 2012 +0000

fix some whitespace

commit 2e297978e928e571cf0a80e8d3842308901f07e
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 5 15:12:43 2011 +0100

fixup device open

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit eaba06a27c5520a02f08431ac1e4b0e0bdc22cd8
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Mon Feb 13 16:00:48 2012 -0800

Keep virtual core pointer touch class around if new slave doesn't have one

The VCP may have active touch grabs. The touch records must be kept so
these touch grabs may be accepted/rejected in the future. This means the
touch class list will not represent the touch class of the attached
slave device if it does not have a touch class, but we already were
breaking that assumption by keeping a separate touches array for the
VCP.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8573b3519af138a3a12a2e77098718165f9fd8ff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 13 16:00:47 2012 -0800

Don't clobber virtual core pointer touches array length
The VCP has its own touches array, don't overwrite it when the class is copied from the SD to the master.

Reported-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 03d32fe7a718d9016053cdb5d57f51a74ef99b59
Author: Chase Douglas <chase.douglas@ubuntu.com>
Date:   Mon Feb 13 12:09:32 2012 -0800

Don't dereference a touch after it has been ended when punting to next owner

In this case, we have ended the touch because the last owner has rejected it. We need to return from the function right now so we don't attempt to dereference another touch client for early acceptance processing.

Signed-off-by: Chase Douglas <chase.douglas@ubuntu.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1ecb7aaf2adedad1996ed26176ef5802113e3ad9
Author: Chase Douglas <chase.douglas@ubuntu.com>
Date:   Sat Feb 11 07:58:38 2012 -0800

Focus event button state must show the logical buttons, not physical buttons

Similar to the fix in fcda98c48610fd507ca0b89c6006a5497d9dc1c9. This ensures we show the correct logical state of the buttons in device focus events too.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f28388187cfafae9e5bc9bfc9425acff4f478b59
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Feb 11 01:29:26 2012 +1000

dix: reset last.scroll when resetting thevaluator (#45611)

last.scroll remained on the last-submitted scrolling value but last.valuator was changed whenever the slave device changed. The first scrolling delta after a switch was then calculated as (last.scroll - new abs value), causing erroneous scrolling events.

Test case:
- synaptics with a scrolling method enabled, other device with 3+ axes (e.g. wacom)
- scroll on touchpad
- use other device
- scroll on touchpad

The second scroll caused erroneous button press/release events.

X.Org Bug 45611 <http://bugs.freedesktop.org/show_bug.cgi?id=45611>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d53235af85d50774c68347720ce132da9a5bc49
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Feb 13 23:06:07 2012 -0800

XQuartz: Build fix for possible conflict of BOOL type
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 62edd970f6f36058fcb31de4555eb7c1329cce74
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Feb 11 16:13:44 2012 +1300

Bump to version 1.11.99.903 (1.12 RC3)
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 42b6756463ee0476340656707f1088d6c2fd220
Merge: 7674d00b04 ca64912c02
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Feb 11 15:36:43 2012 +1300

Merge remote-tracking branch 'alanc/master'

commit 7674d00b04da5cf73cfa5c7ed1d3a9f42b59960e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 27 12:41:09 2012 +1000

Xi: handle new XIAAllowEvents request in inputproto 2.1.99.6

grab_window and touchid were removed from the struct for ABI compatibility reasons, we need to pull in the new, XI 2.2-specific struct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Xi: handle new XIAllowEvents request in inputproto 2.1.99.6

grab_window and touchid were removed from the struct for ABI compatibility reasons, we need to pull in the new, XI 2.2-specific struct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b96275c44c4b464aa71f7a9bf88be18886d1936
Author: Benjamin Otte <otte@redhat.com>
Date:   Tue Feb 7 18:01:25 2012 +1000

dix: fix an out-of-memory crash

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6241b5e4fd8db08d30cc8787d858ac27122d2d49
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:11 2012 -0800

Implement touch early accept

This doesn't really implement early accept as it should. Ideally, the server should send end events to all subsequent touch clients as soon as an early accept comes in. However, this implementation is still protocol compliant. We can always improve it later.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b0c54856df71f9a9bfa9d6dade960e8c5d9
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:10 2012 -0800

Implement early touch reject

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 656ab879f20892975510723ce8fe78faf64aadb4
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:09 2012 -0800

Check for proper window ID when processing touch allow requests

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9a260e9af83feb5c53fffd3b2da2dc3adf06240a1
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:08 2012 -0800

Move AllowTouch to dix/touch.c, and rename to TouchAcceptReject

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 192b2c9a2e04522655675d1e5cf974cc7b
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:07 2012 -0800

Export TouchEventRejected as TouchRejected

This function is mostly correct for early reject usage. With a small change to pass the client resource explicitly and making the TouchOwnership event optional, it is usable for all rejection scenarios. This change exports it for use outside Xi/exevents.c and modifies the name accordingly.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 19073425e5df1317f73f74ce0b95ab24e0e0da14
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:06 2012 -0800

Factor out TouchEnd generation and delivery

The server often needs to generate and deliver TouchEnd events for circumstances including touch grab acceptance and rejection. This change refactors the code so it can be used more easily.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit ab60cadc2af9d8882144e30fde11c3ef0f999cd
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Feb 3 16:19:05 2012 -0800

    Store window pointer in touch listener record

    Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f92ba92adfce0e1975feb54ab0e1165b7c2a7bea
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Feb 4 19:27:21 2012 +1000

    Revert "dix: deduplicate callers of DeliverDeviceEvents in DeliverGrabbedEvents"

    This call was supposed to have no functional changes but in some cases
    DeliverDeviceEvents() was called with a uninitialised win variable.
    Revert, safer than trying to sort this out otherwise.

    This reverts commit 6eff14a789341d366b3013c5aa020e959c954651.

    Reported-by: Mathieu Taillefumier <mathieu.taillefumier@free.fr>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>

commit ca64912c02bdff486fee420a49b11f54f8f5ba08
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Jan 26 16:41:25 2012 -0800

    Namespace list api to reduce conflicts with similar system headers

    Rename functions/macro from list_* to xorg_list_*
    Rename struct from struct list to struct xorg_list.

    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Reviewed-by: Keith Packard <keithp@keithp.com>
    In-sed-I-trust: Peter Hutterer <peter.hutterer@who-t.net>

commit 1541e242d1607d0db57b0cc12faca9b1c2850c67
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 23 15:17:28 2011 -0800

    Stop including <sys/proc.h> from xf86_OSlib.h on Solaris

    We don't need anything from that header (which defines /proc & kernel
    structures for process information), and it causes some namespace conflicts.
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 85cecd981191f9e3dab0fb13310d91eff643d423
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Jan 28 16:06:28 2012 -0800

XQuartz: Release all buttons and keys when deactivating

http://xquartz.macosforge.org/trac/ticket/486

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 47b457541b33f00807fd495f5b0b24d5f143bf84
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Jan 28 23:11:44 2012 -0800

XQuartz: Toggle off fullscreen mode when XQuartz is hidden

http://xquartz.macosforge.org/trac/ticket/478

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c2ba3f339f089c595386c4c579935c7984a2a545
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Jan 29 14:26:47 2012 -0800

XQuartz: Localization Updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 052ca3f222eadd0aa60dd24ac7d5d76137273926f
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jan 27 22:08:08 2012 -0800

Bump version to 1.11.99.902 (1.12 RC2)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit bafedb7e9bcff31e2963eeb54669b2492214fae7
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jan 18 11:52:04 2012 -0800

XQuartz: Bump bundle version to 2.7.2

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 8e78bb2d2dc5b18f127540b63b45ba293bbdd25
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Jan 26 13:28:24 2012 +0000

hw/xwin: Fix spelling of 'Canadian' in winkeybd.h

The Mounties always get their typo

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNER <jon.turney@dronecode.org.uk>

commit 80c073352a276bad3722263629de3cd61df758ab
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Wed Jan 4 17:16:36 2012 +0000

hw/xwin: Fix winEnqueueMotion() for change in miPointersetPosition()

Commit 3b36fd1b49030ead44358945f62e5abe7f4609ee changed miPointersetPosition() to take co-ordinates as doubles, not ints, so this code as it stands is now wrong (if it ever was correct in the first place :-))

It's unclear that we can safely promote x,y to doubles, apply miPointersetPosition() which potentially constrains the cursor, and then convert back to ints.

Fortunately, this whole dance seems to be unnecessary, and we can simply remove the call to miPointersetPosition() entirely, and just QueuePointerEvents() like any other input driver.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNER <jon.turney@dronecode.org.uk>

commit ced9db65950e402d7ddc663225b888e8482b8c57
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Wed Jan 25 01:37:16 2012 +0000

hw/xwin: Ignore WM_DISPLAYCHANGE messages with 0 bpp

Ignore WM_DISPLAYCHANGE messages which indicate bpp is changing to 0. That has no defined meaning I can find, but some graphics card drivers appear to generate it on suspend/resume or screensaver activate/deactivate.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNER <jon.turney@dronecode.org.uk>

commit bea6fb6c7af551778cfe1e0e8412e4ccf560808
Author: Jon TURNER <jon.turney@dronecode.org.uk>
Date: Sun Jan 22 19:31:51 2012 +0000
hw/xwin: Avoid WIN_WINDOW_PROP races during Windows window destruction

The WIN_WINDOW_PROP is removed during WM_DESTROY handling, so it is not neccessary to remove it in winDestroyWindowsWindow(), and doing so opens a race condition, as we may attempt to access that property in the wndproc before the WM_DESTROY has completed.

A specific example of that race is if a WM_KILLFOCUS occurs in the window between property removal and WM_DESTROY processing, where we will attempt to apply DeleteWindowFromAnyEvents() on an invalid (null) WindowPtr.

Also guard against null WindowPtr in the WM_KILLFOCUS handler

See http://cygwin.com/ml/cygwin-xfree/2012-01/msg00009.html

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9a709d5028094febeb7a49f47cb85e22cd772f36
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Sep 29 15:05:27 2011 +0100

hw/xwin: Handle more motif window decoration hinting

Handle the MWM_DECOR_MINIMIZE, MWM_DECOR_MAXIMIZE and MWM_DECOR_MENU decoration hints in a _MOTIF_WM_HINTS window property

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b8b0b841a0e7efc1cafo06a5aa67e1b4499374d9
Author: Oliver Schmidt <oschmidt-mailinglists@gmx.de>
Date: Mon Sep 5 13:32:01 2011 +0100

hw/xwin: Fix AltGr key sometimes firing an additional Ctrl-L key

I also had problems with the AltGr key. These could reliably be reproduced by holding the AltGr for some seconds (causing Windows generating auto repeat events)

I discovered that the mechanism in winkeybd.c function winIsFakeCtrl_L had a problem if PeekMessage cannot obtain the next Alt_R message because it is not there yet.

I prepared a patch that remembers the last Ctrl_L event and reacts on a later Alt_R.

It was also necessary to alter the order in winWindowProc() in winwndproc.c: the invocation of winIsFakeCtrl_L had to be done
before discarding auto-repeated key presses, as winIsFakeCtrl_L() now has an internal state which must be updated by all key events.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3d3114d55a2a323f8d49c3549a0dfdf9d4acf89d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Jun 30 14:19:01 2011 +0100

hw/xwin: Handle the virtual key code generated by the Fn key on IBM Lenovo laptops

Apparently, IBM Lenovo laptops can generate a key-press event for the Fn key, with virtual key code 0xFF and scan code extended 0x63

Handle this specially, rather than just passing on key code 0x63 (delete), so you don't delete what you just typed when you adjust the screen brightness, etc. :-)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 74af860f9a59332f6ed1ac9b3e7867fbbb3d7305
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Wed Mar 24 22:41:22 2010 +0000

hw/xwin: turn on -emulate3buttons if less than 3 mouse buttons are reported

Try to be more intelligent with default options, turn on -emulate3buttons by default if less than 3 mouse buttons are reported by Windows

Also, add -noemulate3buttons option so this default setting can be reversed if desired

Also, correctly report the number of mouse buttons windows is reporting, rather than always at least 3

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c0f3709501a0af3b7f77e783f11d2c2e5f489d3b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Mar 24 20:19:47 2011 +0000

hw/xwin: In multiwindow mode, don't grab native input focus for new windows which hint they don't want it

In multiwindow mode, avoid grabbing the input focus for newly created windows which have InputHint FALSE
(this is used by e.g. glean to avoid every test window grabbing the focus)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 25caa8565d7d10f4e254bca5bb9fa05a77542ad
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 25 13:33:39 2012 +0000

hw/xwin: Remove some redundant OS version reporting

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit a9aca218f557c723e637287272819a7c17174e1e
Author: Roland Cassard <roland.cassard@gmail.com>
Date: Sat Oct 23 18:12:36 2010 +0100

hw/xwin: Don't assume we'll always have converted the clipboard selection after 2 attempts

Rather than knowing we have to call winProcessXEventsTimeout() for up to 2 WIN_XEVENTS_CONVERT messages, process
all messages in winProcessXEventsTimeout() until either: (i) the time out expired, (ii) an error occurred, or
(iii) received a WIN_XEVENTS_NOTIFY message indicating the data has been put on the clipboard.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 75fe336b6c903133ae386f5cb8d308a0e9e2768e
Author: Michel Hummel <hummel.michel@gmail.com>
Date: Fri Aug 6 15:23:52 2010 +0100

hw/xwin: Mitigate a race condition in clipboard thread initialization

Remove the variables g_fClipboardLaunched and g_fClipboardStarted from
winInitializeGlobals(), as their re-initialization is handled in the
file hw/xwin/InitOutput.c.

Re-initializing g_fClipboardLaunched and g_fClipboardStarted during
the server reset procedure can lead to the clipboard thread being
launched two times and sometimes leads to a crash of the X server...

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 95b1391fe3d3192abdfbad4140513b2112cfa02a
hw/xwin: Chain IOError handlers to avoid longjmp across threads

Avoid crashes on shutdown due to the undefined behaviour of calling longjmp() on the result of setjmp() from a different thread, by chaining IOError handlers and only jumping back up to the frame for this thread

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0659437f5ec0e3f646373394f5f9c5461e2170f3
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sat Feb 20 23:40:53 2010 -0600

hw/xwin: Improve XWinrc loading and error recovery

If $HOME/.XWinrc is present but badly formed, ignore it and try system.XWinrc instead. If neither file is present or both are badly formed, provide a built-in default which gives the user the chance to load their new or fixed configuration without restarting.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 47c7b6d3e626497747ae2780f259a15b8e6c846f
Author: Michel Hummel <hummel.michel@gmail.com>
Date: Sat Oct 23 18:35:57 2010 +0100

hw/xwin: Remove no-longer needed tricks used to prevent the clipboard client from being killed

Remove no-longer needed tricks used to hide the clipboard client from XDM to prevent it from being killed

- Delete XQuery wrapper used to hide clipboard client
- Delete XDMCP mode heuristic which waits until some magic number of connections have been established before starting the clipboard

We still need the EstablishConnection wrapper to ensure that the clipboard client isn't the first client (causing a server restart if it disconnects)

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit c1bf3baa44fb8af33a2b3ce045324485b85a7a7
Author: Michel Hummel <hummel.michel@gmail.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34497

Date:   Sun Oct 31 14:53:02 2010 +0000

hw/xwin: Automatically restart clipboard thread

Automatically restart clipboard thread on unexpected exit

Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ae981341a98f7a1ee5d6f3bc8ebde04e42042dc5
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Feb 8 22:37:30 2010 +0000

hw/xwin: Give the X window for the clipboard integration client a name

This makes it a bit easier to find when staring at the output of `xwininfo -tree -root`

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b1093241f3e28223a139e7cb5c3ae85182bdf545
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Oct 19 20:47:21 2010 +0100

Xext: Warning fix for shm.c

shm.c: In function 'CheckForShmSyscall':
shm.c:182:5: warning: function declaration isn't a prototype [-Wstrict-prototypes]

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 02775efb8930291cc62fc84086c97da75b912a55
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 24 17:35:04 2012 -0500

int10: Fix unmapping of the BIOS scratch area

342f3eac8460fc48cfadf1d7be939d671e6e1cd introduced a bug, 'base' is incremented before use. The old code corrected this when unmapping, so the new code should too.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
Don't set X and Y valuators for indirect touch events

For expediency, it made sense to always have the X and Y axes set for direct touch device event propagation. The last X and Y values are stored internally. However, indirect device touch event propagation does not depend on the touch’s X and Y values. Thus, we don't need to set the values for every indirect touch event.

On top of this, the previous X and Y values aren't stored for indirect touches, so without this change the axes get erroneously set to 0.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

UngrabAllDevices: Don't kill clients if not told to

The kill_client argument to UngrabAllClients specifies if we want to kill the client holding the grab or just deactivate the grab.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reported-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Only update pointer motion data for pointer emulated touch events

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Only scale direct device touch coordinates
Indirect touch devices provide valuator values in pure device coordinates. They also don't need to be fixed up for screen crossings.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 24dc0389da3970e83e4908039957567e55f9ea05
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 16 12:53:39 2012 +1000

include: Fix comment typo

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 954bb994842aa43a0f272858e65036e016b729a4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jan 9 00:40:10 2012 -0800

configure.ac: Remove MIEXT_SHADOW_LIB from XORG_LIBS

This is provided by dixmods/libshadow.so and is not part of the main binary.

This addresses a build failure on darwin due to MIEXT_SHADOW_LIB having unsatisfied dependencies (FB_LIB) in XORG_LIBS.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ba0f5cc1961bfcfb5e7d66ac5df19d429952631d
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jan 9 00:14:29 2012 -0800

xfree86: Don't link libxorgxkb against libdix.la

libdix.a is already provided by XSERVER_LIBS. Including it in libxorgxkb results can result in duplicate symbols landing in the Xorg binary on some configurations (buggy glibtool on darwin).

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2387fb23858d645f15061bc7bcb4654386ba116
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Jan 13 12:00:14 2012 -0800

sdksysms.sh: Exit on error rather than building an empty symbol table

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
test: Fix linking issues when building unit tests without the Xorg DDX

This allows unit tests to build and run successfully on darwin when only the Xvfb or XQuartz DDX is built.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Revert "glx: don't leak fbconfigs"

This reverts commit d26fae246d7c451b4d5ffe24fdb959d4bd00b107.

This patch free()s memory in __glXScreenDestroy which was allocated in glxdricommon (which isn't in every DDX). That breaks abstraction and causes a crash when XQuartz quits, because it results in freeing a pointer that was never allocated.

The correct fix is to do this cleanup in __glXDRIscreenDestroy.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

Use event time instead of CurrentTime for grab times

When [XI,X.]AllowEvents is called, the timestamp is compared against the grab time to ensure that the request pertains to the current grab in the server. While many clients may use CurrentTime (client-side), the timestamp of the event causing the grab is also valid.

This change ensures that the server's notion of the grab time is the time of the event that activated the grab rather than the time that the grab is actually activated.

This bug was exposed through nested touch then pointer grabs.
Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a6273cc85c01fe020643a68e49ca4e7a2d2ae898
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 12 10:17:34 2012 +1000

xfree86: mention udev in the xorg.conf manpage AutoAddDevices section

And point out what "hotplugging" means.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a60d87ffe6d9a15fa830c8da2947c72487863c2b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jan 11 09:04:02 2012 +1000

os: prettify backtrace output

Changes to output:
* "Backtrace:" now appears on a separate line _with_ a timestamp
* A blank line is inserted after the last backtrace line

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit c495a839ace7fccf1fe41d3d36ba04f08885434
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jan 11 09:01:05 2012 +1000

include: prettify BUG_WARN output

ErrorF output is prefixed with a timestamp, so the previous output would look like this:

[ 50.423] BUG: triggered 'if (dev->valuator->numAxes < 2)'
BUG: getevents.c:842 in scale_to_desktop()

Change this to have the prefix on both lines:
[ 50.423] BUG: triggered 'if (dev->valuator->numAxes < 2)'
[ 50.423] BUG: getevents.c:842 in scale_to_desktop()

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
commit bbb6b8c834e0e1491ca14403b5d0840dd14380d3  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Fri Jan 6 13:20:45 2012 +1000  

render: don't bother with animated cursors on floating slaves (#39989)  

X.Org Bug 39989 <http://bugs.freedesktop.org/show_bug.cgi?id=39989>  

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>  

commit 35bd77e9d0701daae87d681900d749604fc6471f  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Jan 9 15:04:10 2012 +1000  

dix: Update pointer limits for floating devices too (#43635)  

When the screen is restructured, the pointer limits need to be reset for  
floating slave devices as well, not just for master pointers. Only skip  
devices that don't have a cursor (attached slaves and keyboard)  

Bug reproducer: float an absolute slave device, rotate the screen - the  
device is now confined to a section of the screen only.  

X.Org Bug 43635 <http://bugs.freedesktop.org/show_bug.cgi?id=43635>  

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>  

commit 5de0c2582f9c80874b4f4a5b86d250059bfaa85b  
Author: Keith Packard <keithp@keithp.com>  
Date:   Thu Jan 12 12:10:07 2012 -0800  

Revert "os: Repack ConnectionOutput for LP64"  

This reverts commit d5f724544af2d2949cebfaf4f0b4510ec0c701bec.  

ABI change pended for 1.13  

commit 11331305d4acd117b71502e45c0e86684fa9280b  
Author: Keith Packard <keithp@keithp.com>  
Date:   Thu Jan 12 12:10:03 2012 -0800  

Revert "dix: Repack ClientRec"  

This reverts commit f702372822dadbf1ef92cfc25086481f640147b3.  

ABI change pended for 1.13
Revert "dix: Pull client-is-local flag up to the ClientRec"

This reverts commit 49d38b75e8f3276cfce33ff6eb8c4fbeb1081b96.

ABI change pended for 1.13

Revert "dix: Extend initial connection handshake for forwarding proxies"

This reverts commit 78fa121f4097d29458e5453c13473595df06e26e.

ABI change pended for 1.13

Revert "os: Hide the Connection[In,Out]put implementation details"

This reverts commit 48e7a2ef574c8b38c4f8f07b45f54c8b6d02552b.

ABI change pended for 1.13

Revert "dix: Fix types in WindowOptRec"

This reverts commit a4553019a10b4e01cc06f3081db71a83338697b4.

ABI change pended for 1.13

Merge remote-tracking branch 'jturney/rpavlik-xwin-fixes'
commit e476af417d83730b11054f4e5b127ab5540hb332
Merge: f4956faab9 146008358e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jan 9 13:17:37 2012 -0800

    Merge remote-tracking branch 'whot/multitouch'

commit f4956faab9ce9aba6cf9603f4489f5dad19a347
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jan 4 07:01:19 2012 +0000

    mi/mibitblt: Fix an overflow bug of bit shift.

    When depth equal to 32 and planeMask equal to 0, the overflow will
    occur and cause the pixmap can't be cleared. There are some test
    cases in XTS hit this bug, and this fix can eliminate the corresponding
    failures.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6d6d4cb6043905d850834946e9bfc526ed5a9ef7
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Mon Jan 2 13:23:59 2012 +0000

    Add OpenBSD support to DetermineClientCmd()

    Uses kvm_getargv() from libkvm.

    Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit a55214d11916b707b7c8c65c555cc0cbb59ac503
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 3 06:22:24 2012 +0000

    Always install xaa sdk headers

    Always install XAA SDK headers so drivers still build even with
    --disable-xaa

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit dafc327f3c75205cf77e5360e9ccd71c745f61a5

---
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Mon Jan 2 13:11:41 2012 +0000

UnloadSubModule(): accept pointer value ‘1’ and ignore it.

Some driver modules try to unload submodules that are now built-in.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8db029064bcbe378061e812bb8136608e3123226
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 4 16:39:33 2012 +0000

gvahw: Fix DACDelay() macro to use the driver's vtable

We don't want to unconditionally use I/O routines here, since if the
driver is using mmap’d VGA ports then the I/O handle won't be set up.

Tested-by: Jeff Chua <jeff.chua.linux@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 63a8012947fc44ccb3d661dec88dbda14e7f3c04
Author: Chris Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Thu Jan 5 01:22:40 2012 +0000

Revert "dix: don't return BadMatch from GetProperty (#23562)"

This reverts commit f04fe06ae244b851b38be824b1a80f2f8a030591.

dixLookupWindow no longer returns BadMatch. No other caller was checking
for it, so this problem is now fixed in the utility function.

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ef492e9797b6d4f6bcb25e86bedc24477819fde7
Author: Chris Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Thu Jan 5 01:22:39 2012 +0000

dix: Return BadWindow rather than BadMatch from dixLookupWindow

dixLookupWindow uses dixLookupDrawable internally, which returns
BadMatch when the XID matches a non-Window drawable. Users of dixLookupWindow don't care about this, just that it's not a valid Window.

This is a generalised version of the fix for X.Org Bug 23562, where GetProperty was incorrectly returning BadMatch. Auditing other window requests, all that I checked would incorrectly return BadMatch in these circumstances. An incomplete list of calls that could incorrectly return BadMatch is: ListProperties, SetSelectionOwner, {Destroy,Map,Unmap}[,Sub]Window.

None of the callers of dixLookupWindow, except for GetProperty, check for BadMatch.

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ff891bbf68caefc222cabb541b6b56af086ac2280
Author: Arthur Taylor <art@ified.ca>
Date: Fri Jan 6 07:21:37 2012 +0000

linux: Use K_OFF VT KB mode over K_RAW if available.

Linux kernels since 2.6.38 (March 2011) have an VT KB mode K_OFF in which special keys (like Ctrl+C) are not interpreted and input is not buffered. Use of this mode over K_RAW removes the need for a xf86ConsoleHandler to drain the VT input buffer, removing the grief it causes when it goes wrong or is (de)initialized out-of-order. (This also saves a few needless context switches per key event.)

If K_OFF is not defined or not understood by the kernel, K_RAW and the previous method is used as a fall-back.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Arthur Taylor <art@ified.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0b113f77cd5228dcd51a749a339c8669e3f20ff
Merge: 0b2c6491c5 777bf90abe
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jan 9 13:07:25 2012 -0800

Merge commit '777bf90abeac37087a3d0538b847742523d5acef2'

commit 0b2c6491c5e5e1e9ba067299f3de61f5aceec263b
Merge: 1f5587e144 6b19436536
Merge remote-tracking branch 'whot/for-keith'

commit 1f5587e14406c083687203030db6a11691ac9d9f
Merge: a97252db24 6269977c91
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jan 9 11:40:23 2012 -0800

Merge remote-tracking branch 'kibi/master'

commit a97252db24669a3e26a935024ea38b8a28d30586
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Dec 20 19:49:47 2011 -0800

XQuartz: GL: Buildfix for recent GLX changes

dispatch.h was leftover from an earlier implementation and is no longer
needed, so remove it since including it causes a build failure due to
conflicts between GL/gl.h and OpenGL/gl.h

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 6b194365364cb7a74c2b19f4a8c5e0e0404339da
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date:   Wed Nov 30 20:20:21 2011 +0100

xkb: Message actions suppress other key presses #28575

When a key to which a message action is mapped is held down, presses of
other keys were not registered.

Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4e44580efd4522ced644c698336d2f6ea54f3917
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Nov 4 14:29:01 2011 -0500

hw/xwin: Include manifest file in the dist tarball

Commit c02638fd added the manifest file, but didn't add it to EXTRA_DIST.

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit c763fe51b8ff18ec204caab9cf97376a1b72324f0
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date: Fri Nov 4 13:17:50 2011 -0500

hw/xwin: Fix duplicate definition of HAS_WINSOCK when building for MinGW
but still provide it if building for Win32 without autotools

xserver/hw/xwin/winclipboard.h:42:0: warning: "HAS_WINSOCK" redefined
../../../../include/xwin-config.h:11:0: note: this is the location of the previous definition

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 3d80f202b06227f7fe03b674f5f809c2d1efb2
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date: Fri Oct 28 09:56:19 2011 -0500

hw/xwin: Fix possible null ptr deref in winMWEExtWMDecorateWindow()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit c824004b4592b3d86b3514be7cab37b36642b13a
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date: Fri Oct 28 09:56:11 2011 -0500

hw/xwin: Fix possible null ptr deref in winMWEExtWMRestackFrame()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 3c501691a0a9fa17da4e2cc84f55010ef2a4790d
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date: Fri Oct 28 09:52:34 2011 -0500

hw/xwin: Fix possible null ptr deref in winActivateAppPrimaryDD()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>
commit a492c02649de4c60ac21a7fcb6b7c730b558dca6
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 28 09:49:00 2011 -0500

    hw/xwin: Fix possible null ptr deref in winActivateAppNativeGDI()

    Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
    Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b907079596bc8600d3420c189409053b0b5016f6
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 28 09:46:56 2011 -0500

    hw/xwin: Clarify an if statement mixed with ifdef in winSetEngine()

    Use the same pattern as elsewhere so it's a bit clearer what we
    are checking

    Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
    Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 5c35dd7be716a3464f012c92866919a3606f9beb
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Thu Oct 27 15:49:59 2011 -0500

    hw/xwin: Fix rrScreenSetSize function pointer mismatch

    winrandr.c: In function ‘winRandRInit’:  
          winrandr.c:218:31: warning: assignment from incompatible pointer type

    Fix winRandRScreenSetSize() function signature to match RRScreenSetSizeProcPtr type,
    to align with commit fd9331f6 'Revert "Separate out screen size and screen pixmap
    sizes in RRScreenSizeSet"

    This is fall-out from the late revert of RANDR 1.4 in the 1.10 release cycle, it will
    probably need to be reverted if/when that goes back in again.

    Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
    Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
    Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit aa07d82908c28f4d083c0c55846a5b34f0e1ef31
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 28 09:56:26 2011 -0500
hw/xwin: Remove an empty #if 0/#endif

Um... yeah

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit d459f4e264f2bafef5124a456d2ad6fa2cd92a7f
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 28 09:52:37 2011 -0500

hw/xwin: Fix double-free in error path in winQueryRGBBitsAndMasks()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit cc7dedd6b51a01996ddab10fe8b84e30700d1570
Author: Ryan Pavlik <rpavlik@iastate.edu>
Date:   Fri Oct 28 09:46:45 2011 -0500

hw/xwin: Fix a memory leak in error path in winInitWM()

Signed-off-by: Ryan Pavlik <rpavlik@iastate.edu>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 777bf90abeac37087a3d0538b847742523d5acf2
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 18 15:07:07 2011 -0400

xfree86: Remove the pretense of EDID v2 support

We don't do anything with EDID v2 blocks besides publish them on the root window. Worse, the check deleted by this patch would attempt to take a checksum of arbitrary memory if the rawData array isn't 256+ bytes long (and, for the monitors mentioned, it probably is only 128).

Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8f9badfd293ad8e45755efe8d764b4dce2a724f51
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 13 21:23:12 2011 -0500

dix: Tune dixLookupDrawable for success
The vast vast vast majority of resource lookups are successful. Move some work to the error paths so we don't punish success.

Before:
40000000 trep @ 0.0009 msec (1109091.3/sec): PutImage 10x10 square
60000000 trep @ 0.0005 msec (2072652.2/sec): ShmPutImage 10x10 square

After:
40000000 trep @ 0.0009 msec (1148346.9/sec): PutImage 10x10 square
60000000 trep @ 0.0005 msec (2091666.1/sec): ShmPutImage 10x10 square

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commits

commit 83a98543b58c661a22574a6f8d8f9d777c0955b8
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 13 20:23:40 2011 -0500

dix: Tune dtrace hooks around Dispatch

Don't call LookupMajorName if the hooks aren't active, it's quite expensive.

Before:
40000000 trep @ 0.0009 msec (1087458.5/sec): PutImage 10x10 square
60000000 trep @ 0.0005 msec (2012238.6/sec): ShmPutImage 10x10 square

After:
40000000 trep @ 0.0009 msec (1109091.3/sec): PutImage 10x10 square
60000000 trep @ 0.0005 msec (2072652.2/sec): ShmPutImage 10x10 square

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 11977fab546da35d579ebe285e3c26864007805e
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 13 21:00:05 2011 -0500

xace: ricer tuning for XaceHook

gcc doesn't want to hoist the check for XaceHooks[hook] != NULL above the varargs code for some reason, so do it ourselves.

Before:
40000000 trep @ 0.0010 msec (1050420.2/sec): PutImage 10x10 square
60000000 trep @ 0.0005 msec (1921147.6/sec): ShmPutImage 10x10 square

After:
40000000 trep @ 0.0009 msec (1087458.5/sec): PutImage 10x10 square
dix: Fix types in WindowOptRec

No reason for these to be 64 bits on LP64.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c44ef2e1f7bad168c348da63477b4636b3054fd
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 14:17:09 2011 -0400

os: Minor header cleanup

Move some constants near their only users, and remove some
getdtablesizer() logic that's second-guessing configure.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 48e7a2ef574c8b38c4f8f07b45f54c8bfd02552b
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 14:03:01 2011 -0400

os: Hide the Connection{In,Out}put implementation details

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 78fa121f4097d29458e5453c13473595df06e26e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 13:43:38 2011 -0400

dix: Extend initial connection handshake for forwarding proxies

Forwarding proxies like sshd will appear to be local, even though they
aren't really. This leads to weird behaviour for extensions that truly
require running under the same OS services as the client, like MIT-SHM
and DRI2.
Add two new legal values for the initial connection's byteOrder field, 'r' and 'R'. These act like 'l' and 'B' respectively, but have the side effect of forcing the client to be treated as non-local. Forwarding proxies should attempt to munge the first packet of the connection accordingly; older servers will reject connections thusly munged, so the proxy should fall back to passthrough if the munged connection attempt fails.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 49d38b75c8f3276cfe33ffe6b8c4fbeb1081b96
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 13:22:41 2011 -0400

   dix: Pull client-is-local flag up to the ClientRec

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f7023728222adb1f92ecf5086481f640147b3
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jun 17 12:58:25 2011 -0400

   dix: Repack ClientRec

   sizeof(ClientRec)   ILP32   LP64
before                120    184
after                 104    136

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d5f724544af9d2949cebfef0b4510ec0c701bec
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 16 17:40:24 2011 -0400

   os: Repack ConnectionOutput for LP64

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ed8f3c4bd17bdff1369d050e8e63b9451d887ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 6 10:10:16 2012 +1000

   Xi: change XIChangeDeviceProperty from const pointer to const void *
According to Daniel Kurtz, a typedef void *pointer is a atomic type. So a 'const pointer' is equivalent to 'void* const' instead of the intended 'const void*'.

This technically changes the ABI, but we don't bump it for this.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Remove last listener on touch reject

The current code short-circuits around the block that removes the rejecting listener if it is the only listener left. It also does not delete the touchpoint record if the touch has not physically ended.

This change ensures the listener is removed under these circumstances.

Signed-off-by: Chase Douglas <chase.douglas@ubuntu.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Don't end touchpoint if owning client hasn't accepted/rejected

A touchpoint is ended when no further processing will take place for it. This includes the situation where there is only one grabbing client, and the client receives a touch end before it has accepted/rejected the touchpoint.

This change ensures that a delivered touch end event is converted into a touch update event under the above scenario. If the event is left as a touch end event, the touchpoint will be ended in ProcessTouchEvent().

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
dix: Set XITouchEmulatingPointer on events from the touch sequence emulating pointer events

The internal flag is kept around, merely translated to XITouchEmulatingPointer when creating the XI2 events that will be delivered to the client.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e8db10a033491059ddf2b4777c9fafed14c403e8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 6 13:49:04 2012 +1000

Require inputproto 2.1.99.5

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 223ba8b46eacbc8e573bc5136a3d6677f3e39099
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 5 15:55:04 2012 +1000

dix: fix wrong condition checking for attached slave (#44003)

We need to update the master if the device is not a master _and_ it is not floating.

X.Org Bug 44003 <http://bugs.freedesktop.org/show_bug.cgi?id=44003>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 3ce102c362cadcd7087bdefc48440d9498aef77d0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 5 07:08:01 2012 -0500

dix: on PointerRootWin send a FocusIn to the sprite window too

XTS XSetDeviceFocus-7

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit a125aabda3a5cf27aa98cb61f16e49280b66f451
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 5 07:02:51 2012 -0500

dix: send focus events to the immediate parent (#44079)
For a transition from windows A to B, A->parent did not receive an event. DeviceFocusOutEvents sends to windows [from, to[, so start with the actual window, not it's parent.

X.Org Bug 44079 <http://bugs.freedesktop.org/show_bug.cgi?id=44079>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 75953c9b9e9e5f1dbbaa44c714716a0049e22a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 3 10:45:45 2012 +1000

xfree86: split warning about missing identifier or input driver

Check for identifier first and bail if it's missing (also remove the current identifier check after we've already bailed due to missing identifiers)

If a driver is missing, warn but also say that we may have added this device already. I see too many bugreports with incorrectly shortened log files.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit 6269977c91071e0ea16ca5b4b8e15fd6b0b6fcf
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Dec 30 20:41:25 2011 +0100

os: don't ignore failure from dladdr

If dladdr returns 0, don't go and use the returned Dl_info, it may contain garbage.

X.Org bug#44315 <https://bugs.freedesktop.org/show_bug.cgi?id=44315>

Reported-and-tested-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 644efb43e0639af648dd46d9729c2cabd9511238
Author: Cyril Brulebois <kibi@debian.org>
Date:   Fri Dec 30 02:34:36 2011 +0000

linux/ia64: Fix regression after domain I/O support code removal.
Side effect of aa0bf80f133481e57762012e8e30e05ff1a151423:
  |  CCLD  Xorg
  |  sdksyms.o(.data.rel+0x27d8): undefined reference to `outl'
  |  collect2: ld returned 1 exit status

Since the linux/ia64 domain I/O support code got removed in that commit, there's no reason to keep on declaring those functions (inb, inl, inw, outb, outl, outw).

Bugzilla: https://bugs.freedesktop.org/43985

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 98cde254acfb98337d6e64c138d38c14ec2bf
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 27 13:42:21 2011 -0800

Bump version to 1.11.99.901 (1.12 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5037c9a78f8da6652189de7202e70e1b83395af5
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 27 14:02:01 2011 -0800

glx/glapioffsets.h is no longer part of the build, remove it

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8deddf9831bd80514d800f0085213296a3726dba7
Merge: cfc4c3d7fa c9f6183122
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 27 13:13:48 2011 -0800

Merge remote-tracking branch 'kibi/master'

commit cfc4c3d7fa8bd4da4c08b2ab8e6f85435f75353a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Dec 24 10:00:56 2011 -0800

Add Solaris support to DetermineClientCmd

Uses /proc/pid/psinfo to read command & partial arguments.

Moves cmdsize & argsize variables into non-Solaris #else clause to avoid unused variable warnings.
Fixes format mismatch errors when building with DEBUG defined on a 64-bit platform (where Mask is defined as CARD32).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a28ff2cf92c2b35e02eacca21af929afabbf6b83
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Thu Dec 22 12:00:37 2011 -0800

test/xi2: Really fix infinite loop in test_convert_XITouchOwnershipEvent

long i;
for (i = 1; ; i <<= 1)
    if (i == (1 << 31))
        break;

(1 << 31) is compiled as an int, and thus is equal to -2147483648. We are trying to compare it against a long, which on 64-bit machines is 2147483648. This results in an infinite loop.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e7df42ab68e30588a5e32ed543b0711821daf009
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 22 09:35:51 2011 -0800

test/xi2: Fix infinite loop in test_convert_XITouchOwnershipEvent

The touchid test was using a loop like:

    for(i = 1; i < 0xffffffff; i <<= 1)

When 'i' is a 32-bit variable, this infinite loops as it goes from 0x80000000 to 0. 'i' is declared as 'long', which is 32-bit in 32-bit mode.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit cf96183122a85e3376e560f0360b38b5676e57a9
Author: Cyril Brulebois <kibi@debian.org>
Date:   Wed Nov 2 12:42:20 2011 +0100

xorg.conf.man: Fix bad whatis entry.

Debian's QA tool "lintian" reported a bad whatis entry for the xorg.conf(.d) manpages.
It comes with the following pointers:
For manual pages that document multiple programs, functions, files, or
other things, the part before "-" should list each separated by a
comma and a space. […]

Refer to the lexgrog(1) manual page, the groff_man(7) manual page, and
the groff_mdoc(7) manual page for details.

Indeed, the current situation is:

```
$ whatis xorg.conf; whatis xorg.conf.d
xorg.conf (5)   - (unknown subject)
xorg.conf.d (5) - (unknown subject)
```

With this patch:

```
xorg.conf (5)   - configuration files for Xorg X server
xorg.conf.d (5) - configuration files for Xorg X server
```

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

```
commit f75bdf7fbe757f4603e39139acc3c90538a45e15
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 22 10:00:15 2011 +1000

test: fix grab mode value tests for new XIGrabModeTouch

This test checks that last-valid-mode + 1 returns a BadValue. With the
addition of XIGrabModeTouch, that value has changed - sync it up again.
```

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

```
commit e395e6c25f9fd60377f32c2bf1a9153d70908236
Merge: 2bb282cd45 fcda98e486
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 22 09:29:59 2011 +1000

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into multitouch

Conflicts:
    configure.ac
dix/inpututils.c
```

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

```
commit 2bb282cd45cb8149b39d72397ef5bbcfebc11d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
```
Xi: only activate the device grab if we don't already have one

If the device is already grabbed, don't activate the passive grab, it screws with our event masks. Just deliver to the grabbing client instead.

Reported-by: Carlos Garnacho <carlosg@gnome.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 475ef5cc8339fac3696fe654ef683f92f0b0cc2c
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Wed Dec 21 01:08:40 2011 +0100

dix: fix xi2 mask/filter when delivering grabbed events

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4551510f752624592f9201f73db89ac1325a234a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 19 09:08:05 2011 +1000

test: add a basic test for ownership event values

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0c661dc478b4b436a3e61066d31bc510c7a08456
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 19 08:31:37 2011 +1000

test: drop printfs from protocol-eventconvert.c

The test outputs are noisy enough, no need having these here too.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8080d785b2c1e5791312ed0975efd1b8ae98d98
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 21 11:11:48 2011 +1000

dix: remove requirement for client_id be the first element

Leftover code from an earlier version of GetTouchEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commits 552de314bf0c8e4de5d002bddd1c12388c2f42283
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 19 14:52:41 2011 +1000

dix: don't retrieve the syncEvents tail on an empty list

An empty list points to itself but syncEvents has the list head only and is of a different format than the elements. Thus, casting it to a QdEventPtr gives us garbage.

Segfaults with XTS test case Xlib13/XGrabKeyboard

Introduced in 7af23259d88f4c28ed21140f82cc03b3724c06bb.

Reported-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commits 76c11e0872dedcd360cbe02cf62bb9de3b212957
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 16 12:41:08 2011 +1000

dix: button state must show the logical buttons, not physical buttons

If the device is mapped 3 2 1, a click on physical button 1 sends a button 3 press, but the state was set for button 1. Fix this, the state must be set for that button's logical mapping.

https://bugzilla.gnome.org/show_bug.cgi?id=655928

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commits 8a32c39c00789c16006de61112627722ce548be1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 07:59:06 2011 +1000

mi: handle screen switching on pointer emulated touch events

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commits 48547068b115b1f5e5f46a70110454a2175fb9a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 07:57:47 2011 +1000
mi: split move to new screen logic to a helper function

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 3b1e2035cc4740711360c845fcfdff07f7b60558
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Dec 15 07:52:28 2011 +1000

dix: Remove touch grabs if the grab disappears

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit cd3de8324e8908955a2e4be3000c8ffee8684e68
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 07:48:49 2011 +1000

dix: hook up passive grabs and pointer emulated passive grabs

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 5b169eb695bd450d7f64e3800f00c9237ee67f96
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Tue Dec 13 15:41:23 2011 +0100

Xi: assign correct grab_mode/other_device_mode in XI2 passive grabs

CreateGrab() expects the keyboard mode to be stored in grab_mode, and the pointer mode in other_device_mode, so respect this in passive XI2 grabs, and switch modes if needed.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4469430b109fa2da7ba3d2f6f66eca78b7156a0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 07:42:12 2011 +1000

Xi: add the hooks for passive touch grabs

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Xi: handle grab accept/reject requests

Consists mostly of generating an ownership event and processing it.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Xi: hook up touch ownership handling

Ownership changes don't get processed directly when they happen, instead the DIX submits an ownership event which goes through ProcessTouchEvents and ProcessTouchOwnershipEvents. Then on the required events are generated and sent to clients.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Xi: hook up pointer emulation for emulating touches

Includes a hack for implicit grab activation, because integrating this requires a larger rewrite and I'm not sleeping enough as it is. Right now, we deliver the event and check before/after if there is an implicit grab on. If one activated, then store the event in the grab and switch the listener type to a grab listener.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

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Consists mostly of generating an ownership event and processing it.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

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Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

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Includes a hack for implicit grab activation, because integrating this requires a larger rewrite and I'm not sleeping enough as it is. Right now, we deliver the event and check before/after if there is an implicit grab on. If one activated, then store the event in the grab and switch the listener type to a grab listener.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
dix: add touch to pointer event conversion helper

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e3843f5498a849920ab68cca3557411ad8ab3454
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 17:02:30 2011 +1000

dix: add real_event parameter to ActivatePassiveGrab

For touch events with pointer emulation, the event that triggers the grab
(the pointer event) is not the same as the actual event (the touch event).
For replaying, we need to store the real event then.

No effective changes at this point, for the current caller event and
real_event are identical.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e389a19a730055d4550ff708da83c78099a516fd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Dec 20 16:32:52 2011 -0800

Process and deliver touch events

Does not include pointer emulation handling.
Does include partial ownership handling but not the actual processing of
ownership events.

Note: this commit is a retroactive commit extracted from a series of ~50
commits and may thus appear a bit more complicated than what you'd write out
from scratch.

Pointer processing tree is roughly:
- ProcessOtherEvents
- ProcessTouchEvents
  - DeliverTouchEvents
    - DeliverTouchBeginEvent|DeliverTouchEndEvent|...
    - DeliverOneTouchEvent

Also hooks up the event history playing to the right function now.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Co-authored-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 634b0da9a83076d0e9e0fc44dc5dc77b0c368bc1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 07:53:19 2011 +1000

dix: set core and button state based on the touch state

If a pointer-emulating touch caused a button to be logically down, set that state in the input events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit dbfd7b37a0ba21899d8ebb7e0b324301bd466c49
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 16:33:05 2011 +1000

Xi: make UpdateDeviceState aware of touch events

Update the logical button state for pointer-emulating events. Button state must be kept separate from the ButtonClassRec to avoid clearing the button state on a touch end if there is a physical button still down.

And obviously don't change the button state if we're currently replaying the event history for some client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 593c3e2eb3da5c5fb957b68c8025dfdbe1139639
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 16:30:05 2011 +1000

dix: add TouchResourceIsOwner helper function

The first listener in the sequence is the owner of the touch sequence.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 5d0260ce986e8c1f0907870b851d47fd73bb1b7d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 16:24:17 2011 +1000

dix: add helper functions for adding/removing touch listeners
The DIX will call TouchSetupListeners once for a new touch. After that the listener list remains static, with listeners only dropping out when they either reject the grab or disappear.

Exception: if grabs activate they are prefixed to the listeners.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6a68f97ce6704dd2ff2a50f91acd2da72c9995bd
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Dec 14 16:26:04 2011 +1000
dix: add TouchGetPointerEventType helper function

Returns the respective pointer event type for a given touch event type.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 8e58ce73c8b79cb86e890369d0216cdd850c52a5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Dec 14 16:53:04 2011 +1000
dix: when a window disappears, remove it from the touch sprite trace

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit c18a173cf5f53778356c5e8f25ab132956f8c27d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Dec 14 16:03:01 2011 +1000
dix: add helper functions to build up/verify the sprite trace

Touch events' sprite trace stays the same for the duration of the touch sequence.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 40475261eacabb79a824db1138407a9d0f9fe37f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 14 15:56:05 2011 +1000
dix: add touch event history helper functions
If touch client has not registered for ownership events and a grab above that client is rejected, the client needs to receive the complete event history.

The history currently doesn't really do fancy overflow handling. We assume that the first TOUCH_HISTORY_SIZE events are the important ones and anything after that is dropped. If that is a problem, fix the client that takes > 100 event to decide whether to accept or reject.

Events marked with TOUCH_CLIENT_ID or TOUCH_REPLAYING must not be stored in the history; they are events created by the DIX to comply with the protocol. Any such event should already be in the history anyway.

A fixme in this patch: we don't have a function to actually deliver the event yet.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b274c472a5ad700aea5fe651d677e8cb34ffc976
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 26 09:08:17 2011 +1000

Support XI 2.2 officially

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d2af968cb65873780a6e61342d5d3c23b9654e2a
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 14 15:45:19 2011 +1000

Xi: allow selecting for touch events

Selecting for any of XI_TouchBegin/Update/End/Ownership requires the three bits for begin/update/end to be set.

Only one client at a time may select for XI_TouchBegin event

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit f3df3ad668fcd417fffb5afa3bea79a73a348bc1a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 16:45:04 2011 +1000

dix: handle DIX-submitted touch events
The DIX needs to submit touch events for e.g. TouchEnd after an acceptance/rejection. These have the TOUCH_CLIENT_ID flag set.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit fcda98c48610fd507ca0b89c6006a5497d9dc1e9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 16 12:41:08 2011 +1000

dix: button state must show the logical buttons, not physical buttons

If the device is mapped 3 2 1, a click on physical button 1 sends a button 3 press, but the state was set for button 1. Fix this, the state must be set for that button's logical mapping.

https://bugzilla.gnome.org/show_bug.cgi?id=655928

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 47da6b6b2c2e9245422655f94770146fb8cd430b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 19 14:52:41 2011 +1000

dix: don't retrieve the syncEvents tail on an empty list

An empty list points to itself but syncEvents has the list head only and is of a different format than the elements. Thus, casting it to a QdEventPtr gives us garbage.

Segfaults with XTS test case Xlib13/XGrabKeyboard

Introduced in 7af23259d88f4c28ed21140f82cc03b3724c06bb.

Reported-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2d34b34ed7547b829979756ccfb2cfe79368d0a4
Merge: e4b4d83fad 1deede3c48
Author: Keith Packard <keithp@keithp.com>
Date: Tue Dec 20 00:23:33 2011 -0800

Merge remote-tracking branch 'jeremyhu/master'

commit e4b4d83fad37bb737e25f7226dabcd15b892f9528
Merge: 4df65d247b d26cb70272
Merge remote-tracking branch 'idr/glx-fixes'

commit 4df65d247b56c6b1b06e17a612366d637312c0bb
Author: Ville Syrjälä <syrjala@sci.fi>
Date:   Sun Dec 18 18:29:41 2011 +0200

dri2: Invalidate window pixmaps

While a redirected window is flipped, its pixmap may still be used as
and EGL image and should also get invalidated. When sending invalidate
events for a window, also send the events for its pixmap.

Signed-off-by: Ville Syrjälä <syrjala@sci.fi>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e8fd23fad046877ca0ee08c1e147557756debc8e
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 18 18:29:40 2011 +0200

dri2: Invalidate DRI2 buffers for all windows with the same pixmap on swap

Without this, when a compositing manager unredirects a fullscreen window which
uses DRI2 and page flipping, the DRI2 buffer information for the compositing
manager's output window (typically the Composite Overlay Window or root window)
may become stale, resulting in all kinds of hilarity.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=35452.

[Original patch by Michel Dänzer <michel@daenzer.net>]
[Tree walk optimized version by Keith Packard <keithp@keithp.com>]

Signed-off-by: Ville Syrjälä <syrjala@sci.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6f916ffec7767eeab62132eb6575043969104c81
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sun Dec 18 18:29:39 2011 +0200

dri2: Always re-generate front buffer information when asked for it.

Otherwise we might keep stale cached information, e.g. after the driver
performed page flipping.

This is part of the fix for
dri2: Initialize needInvalidate member of DRI2Drawable.

If the client is not behaving correctly and swaps buffers before getting them, Valgrind will complain about uninitialized memory being used in DRI2InvalidateDrawable.

dmx: force -fno-strict-aliasing for xinput example

Compiler warning:
`xinput.c:272: warning: dereferencing pointer 'e' does break strict-aliasing rules`

The code itself is the usual XInput client-side code:
```
XEvent event;
XDeviceMotionEvent *e = (XDeviceMotionEvent *)&event;
XNextEvent(display, &event);
printf("%d\n", e->type);
```

Since XDeviceMotionEvent is not guaranteed the same size as XEvent, clients must use pointer aliasing as above when using the XNextEvent API. Disable strict aliasing for this example.
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Dec 17 12:56:59 2011 -0800

kdrive/linux: Fix compilation with -Werror=int-to-pointer-cast -Werror=pointer-to-int-cast

Reported-by: Arkadiusz Mikiewicz <arekm@maven.pl>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit d0170d54c71fc761b8f1ae7a0e555dc2ca23cf9c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Dec 17 12:25:26 2011 -0800

configure.ac: Make Xephyr dependency error message more informative

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 511beddffab3c4fd43c7f5556132159117b6ba884
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Nov 25 09:45:25 2011 -0800

XQuartz: Provide in-tree implementation of strdup(3) if needed

This function was added to Mac OS X 10.7, so we need to provide it for earlier releases.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9ce8463a3334f76f12bb35b541aa6e67b4e4374
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 14 15:41:07 2011 +1000

dix: generate touchpoints from driver-submitted data

The touchpoints are generated, enqueued but not processed since we don't handle them in the event processing yet.

Co-authored-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit bec51f5ec6575a1971ae5371a4b6d8563933032c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 14 15:29:48 2011 +1000

dix: add GetTouchOwnership event API
No callers yet. This API is not to be used by drivers, it's an API for the DIX which will create ownership events mainly on touch acceptance/rejection.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 5c63dc6dbcbbebb19d79575a9f1ec9878e6537f1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 14:57:46 2011 +1000

dix: add DIX API to create touchpoints

The DIX touchpoints are the ones used for event processing.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 7f8127d203394cae45c3ded0d063030d7c5fdb70
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 14:53:52 2011 +1000

dix: if we run out of space for new touch events, resize the queue

The SIGIO handler forces us to drop the current touch and schedule the actual resize for later. Should not happen if the device sets up the TouchClassRec with the correct number of touchpoints.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d26cb70272a1245a7b1db639cebedd4f8ed4c40
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Thu Dec 8 12:07:38 2011 -0800

glx: use dispatch.h instead of glapioffsets.h

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 66e6037c334c2bcefe6e60d24cac83a8d6087fd5
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Dec 5 15:27:08 2011 -0800

glx: Regenerate GL API files from Mesa

Adam reviewed the underlying changes in the Mesa generated scripts.
glx: Add stub implementations of next GLX extension functions

Generated code from Mesa contains dispatch for GLX_ARB_create_context and GLX_ARB_create_context_profile. Provide stub implementations of these functions so that the GLX extension will link.

glx: Only declare GlxExtensionInit in one header file

This silences the GCC warning:

In file included from singlepixswap.c:36:0:
glxext.h:47:13: warning: redundant redeclaration of 'GlxExtensionInit' [-Wredundant-decls]
glxserver.h:80:6: note: previous declaration of 'GlxExtensionInit' was here

dix: add helper functions to create DDX touch recs

DDX touch points are the ones that keep records of the driver-submitted touchpoints. They're unaffected by the grab state and terminate on a TouchEnd submitted by the driver.

The client ID assigned is server-global.

Since drivers usually submit in the SIGIO handler, we cannot allocate in the these functions.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
xfree86: bump the input ABI for the touch changes

New additions to the API:
- InitTouchClassDeviceStruct
- xf86PostTouchEvent

Changes to the ABI:
- DeviceIntRec now contains a TouchClassPtr

input: add a TouchClassRec to the devices

These structs will be used to store touch-related data, events and information.

Drivers must call InitTouchClassDeviceStruct to set up a multi-touch capable device.

Touchpoints for the DDX and the DIX are handled separately - touchpoints submitted by the driver/DDX will be stored in the DDXTouchPointInfoRec. Once the touchpoints are processed by the DIX, new TouchPointInfoRecs are created and stored. This process is already used for pointer events with the last.valuators field.

Note that this patch does not actually add the generation of touch events, only the required structs.

TouchListeners are (future) recipients of touch or emulated pointer events. Each listener is in a state, depending which event they have already received. The type of listener defines how the listener got to be one.
Add the touch input API stubs

xf86PostTouchEvent is the driver API to submit touch events to the server. This API doesn't do anything yet though but now we can at least bump the API.

For valuators, drivers should use the existing xf86InitValuatorAxisStruct function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Hook up the ownership events

This patch applies most of the protocol conversions and the internal event type for ownership events.

Note that ownership events are generated by the DIX only, they do not pass through the event queue.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Version 1.11.99.2 (1.12 snapshot 2)

Signed-off-by: Keith Packard <keithp@keithp.com>

xserver: check for elevated privileges not uid=0

This allows us to run the server as a normal user whilst still being able to use the -modulepath, -logfile and -config switches
We define a xf86PrivsElevated which will do the checks and cache the result in case it is called more than once. Also renamed the paths #defines to match their new meaning. Original discussion which led to this patch can be found here: http://lists.freedesktop.org/archives/xorg-devel/2011-September/025853.html

Signed-off-by: Antoine Martin <antoine@nagafix.co.uk>
Tested-by: Michal Suchanek <hramrach at centrum.cz>
Reviewed-by: Jamey Sharp <jamey at minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3390d3fc0347947796aa245d701efecf59b7bfe4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 14 13:21:59 2011 +1000

Xi: process raw touch events

No-one can generated them yet, but if they could, we'd be processing them like there was no tomorrow.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 84db813b9db34975b5fe288a8a551bb98f0cc1c1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 14 12:45:28 2011 +1000

Hook up TouchBegin/Update/End events

The are the same as device events internally but require the touch ID separately from the detail.button field (the protocol uses the detail field for the touch id).
For simpler integration of pointer emulation we need to set the detail.button field while keeping the touchid around.

Add the three new touch event types to the various places in the server where they need to be handled. The actual handling of the events is somewhat more complicated in most places.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 92a5862d0c120b009a688237ec7142b7c21ae272
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 14 15:00:33 2011 +1000

include: add a bunch of flags for GetTouchEvent processing
TOUCH_CLIENT_ID is set if the touch was generated from a client ID instead of a DDX/driver touch ID. i.e. submitted by the dix.

TOUCH_END is a special flag that's required to force the touch to end. Since the protocol with grab replaying and pointer emulation is rather complex, it's quite hard to know otherwise when a touch sequence should really die.

The others do what it says on the imaginary box.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

include: RawTouchEnd is the last event now

Plus, use the actual definition from the protocol instead of the numeric values. Turns out not everyone knows the protocol event IDs by heart.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

tests: update for touch support

Touch event mask must be set for all three event types.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Require inputproto 2.1.99.3

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34537
Xi: add a FIXME

All the DeepCopy stuff really needs to be shared between the init calls the drivers use and this code here. Too many bugs by not keeping the two in sync.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 0b9d2e426defabbf6df7e872e158b080a6a5e0be
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 14 13:21:03 2011 +1000

Xi: split ProcessOtherEvent into ProcessDeviceEvent

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 190a6f45ee7412870b3d95c5db6c1079a285bc59
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 16 09:52:43 2011 +1000

dix: split positionSprite into scale_to_desktop and positionSprite

For future touch points, we need positionSprite to calculate the coordinates but we don't want to actually change the cursor position for non-emulating touches.

No functional changes at this point.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2c1d0a539c0fb1860ae89a00d1fb609f1959e1b6
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Dec 9 07:45:02 2011 -0500

dmx: fix distcheck failure, missing compsize.h in Makefile.am

which was added in commit:
dmx: Build fix for -Werror=implicit-function-declaration

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ff6d9c79c1aa502f1ae81d8063425e5fc002534
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 15 10:19:26 2011 +1000

include: fix BUG_WARN_MSG for constant messages only

Previous declaration required the use of a message + printf varargs. We obviously want to allow the use of just a message.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit f7ea7a324520844beaac8be7503ac50e20da5ab1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 10:34:19 2011 +1000

configure: split the required modules up

We do the same thing for libraries and optional modules already, and it's much easier to read when one of them changes

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7da7aa96a0acb895e1fe57a9d3f2d093479cf2a2
Merge: b79de3f42f 7528a6b88e
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 14 11:40:10 2011 -0800

Merge remote-tracking branch 'whot/for-keith'

commit 4c80dc13943444dc10ccfe4ff757c980944312dc3d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 14 10:31:23 2011 +1000

configure: split the required modules up

We do the same thing for libraries and optional modules already, and it's much easier to read when one of them changes
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7528a6b88eb32098af4369a8bd9d70a808fa6f1c
Merge: f0de5e3990 898d976729
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 13 14:19:54 2011 +1000

Merge branch 'for-whot' of git://people.freedesktop.org/~alanc/xserver into for-keith

commit f0de5e3990b70df9899b7dd17d7ee6ff7c768183
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Dec 11 07:31:43 2011 +1000

dix: add a MAXEVENTS define for the number of core + extension events

Not including GenericEvents

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Walter Harms <wharms@bfs.de>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit adf8a0d62c0643f4c44a3b6d2e3c6c9b02532915
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 9 18:38:53 2011 +1000

dix: move event filter retrieval helpers to inpututils.c

No functional changes

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit a03fe819506fbcfbcb2999d4919d16061603fd4ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 9 18:02:49 2011 +1000

dix: switch EventIsDeliverable to take the event type only

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 10a8c428fac0d4ff8f8a3e3487c13dd349d27ed7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 9 15:49:04 2011 +1000

dix: move storing last.valuators into a helper function
Allocate the memory at device creation time and always store the event, even if we're not frozen. This way we know which event triggered the grab. Since the event was never freed anyway except on device shutdown, this doesn't really change things much.

They achieve the same thing, re-use the more generic InputLevel so we can convert to/from easier.

Add GrabIsPointerGrab and GrabIsKeyboardGrab helpers

Previously, this was only called if there was a mask match, so even if we
had a no-propagate flag set or a stopAt window specified, if no mask triggered on the window we would recurse up to the root window and eventually deliver.
Move this, so that the stopAt and do-not-propagate mask is honoured.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 1d01e861b69d7ca8fe2335270b8286bc115fb6e9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 8 10:22:26 2011 +1000

dix: split out core state and event state setting into helper functions

no functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit fb010c543696b781a83b945f72865b7d7b75bf95
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 7 14:41:18 2011 +1000

dix: move grab matching code into a helper function

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit d253a262c2c690357a4db7e235c48ab5dd0b77f8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 7 13:57:25 2011 +1000

dix: split core grab interference check into helper function

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 97d79dd740ed1ac4eb02b0d4135850f953716278
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 7 13:54:28 2011 +1000

dix: compare the grab type, not the tempGrab type

No functional change. To get here, GrabMatchesSecond() needs to be TRUE and
for that the two grab types must be identical.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b9d6ae42b686287d7d23c2eefe2b12da98fe6ff8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 7 15:43:31 2011 +1000

dix: remove event type check

Can't remember why this is there but we'll need to pass in XI2 events soon, so this check is obsolete.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 80816366aa77f1730a1b6ddabfa55a946d76d494
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Nov 25 13:57:03 2011 -0800

dix: Split ActivatePassiveGrab() from CheckPassiveGrab()

The changed logic means we don't require the explicit grab = NULL setting and early exit anymore. Not 100% of it, but if we see that message pop up in a log we know it's broken.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9ee62cd8ce3c3effc3663f3d56b322385ce12fdb
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Thu Nov 17 17:40:24 2011 -0800

dix: Move grab check and activation logic to CheckPassiveGrab()

This is needed for future pointer emulation work.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c53651dabc66ae9882819a404a799a364f00a29
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 6 12:57:38 2011 +1000

dix: move EventDeliveryState into a header file, we'll need it elsewhere
Xi: split updating button count and state into helper functions

Functional change: for a button mapped to 0, the motionHintWindow is not updated to the NullWindow anymore. Before it got updated unconditionally to the button mapping. I have no idea what the practical effect of this is, but I guess it's closer to the correct behaviour: pressing a button that's logically disabled now does not disrupt the motion hint delivery.

Xi: deduplicate button motion mask setting

No functional changes

dix: deduplicate callers of DeliverDeviceEvents in DeliverGrabbedEvents

No functional change.

dix: split grab event conversion and delivery into a helper function

Effective functional change: XI2 events are checked with XACE now.
DeliverOneGrabbedEvent is exported for future use by touch events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit c81cdb0862e2184f033b3933e6bacbe0809ef2c0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 5 18:29:27 2011 +1000

dix: replace conversion errors with BUG_WARN_MSG

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6368c2aa4613a7c7eb0e8afca8d41f1a9bc4fc4d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 5 16:46:18 2011 +1000

dix: deduplicate event delivery code

Move all the event delivery code into DeliverOneEvent, based on the InputLevel we're sending to.

Functional change: we now check XI2 events with XACE too.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 7e2207548b3173afcf9acbf5c5d32c181a7b94ed
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Wed Dec 7 20:32:28 2011 +1000

include: Add an InputLevel enum

Currently unused, but will be in the future.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 898d97672907a8074031d0d138ced44bb5caf40d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

verify_internal_event: preserve constness of data pointer

All we're using it for is ErrorF calls, so make it a const char *
to stop gcc from warning:

inpututils.c: In function 'verify_internal_event':
inpututils.c:629:9: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 79d09647d878e66721a778979a9eb1f4bba5f8d6
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

Use const cast in BitIsOn macro to avoid angering gcc

Fixes gcc warnings such as:
inpututils.c: In function 'valuator_mask_isset':
inpututils.c:498:5: warning: cast discards qualifiers from pointer target type
inpututils.c:613:9: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 99dfe9b1de09cb481e95bd4e45dcf7493480798b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:32 2011 -0800

Fix deconstifying cast warning in xi2_get_type

Since we're just comparing values in the struct, cast it to a const xGenericEvent * to clear gcc warning of:

events.c: In function 'xi2_get_type':
events.c:193:5: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dd80156bf05c9eb4000d0981e00d0d9fb69a94f6
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Wed Dec 7 22:58:45 2011 -0800

Include client name if available in PrintDeviceGrabInfo

Also adds missing newline to first line of output.
Before patch:

[3581472.414] (II) Printing all currently active device grabs:
[3581472.414] Active grab 0x1800000 (core) on device 'Virtual core pointer' (2):
  client pid 26174 uid 0 gid 10
[3581472.415] at 3581469139 (from active grab) (device thawed, state 1)
[3581472.415] core event mask 0x0
[3581472.415] owner-events true, kb 1 ptr 1, confine 0, cursor 0x0
[3581472.415] Active grab 0x1800000 (core) on device 'Virtual core keyboard' (3):
  client pid 26174 uid 0 gid 10
[3581472.415] at 3581469139 (from active grab) (device thawed, state 1)
[3581472.415] core event mask 0x3
[3581472.415] owner-events true, kb 1 ptr 1, confine 0, cursor 0x0
[3581472.415] (II) End list of active device grabs

After patch:

[3581736.601] (II) Printing all currently active device grabs:
[3581736.601] Active grab 0x1600000 (core) on device 'Virtual core pointer' (2):
  client pid 26741 /usr/bin/xscreensaver -nosplash
  at 3581735000 (from active grab) (device thawed, state 1)
[3581736.601] core event mask 0x0
[3581736.601] owner-events true, kb 1 ptr 1, confine 0, cursor 0x0
[3581736.601] Active grab 0x1600000 (core) on device 'Virtual core keyboard' (3):
  client pid 26741 /usr/bin/xscreensaver -nosplash
  at 3581735000 (from active grab) (device thawed, state 1)
[3581736.601] core event mask 0x3
[3581736.601] owner-events true, kb 1 ptr 1, confine 0, cursor 0x0
[3581736.601] (II) End list of active device grabs

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rami Ylimäki <rami ylimaki@vincit.fi>

commit b79de3f42ff8412dcc5cbcbd1c6907c3
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Dec 12 16:49:35 2011 -0800

xf86 parser: convert Error to a varargs macro to clear gcc format warnings

Previously it always passed a format string with exactly one argument,
using NULL when the format string needed none. Now pass the right number
of arguments to clear gcc warnings of 'too many arguments for format'.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Add some printf format attributes suggested by gcc

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xf86Priv.h: Add some noreturn attributes suggested by gcc

Both functions call exit() at the end and have no other return path. Also correct comment/heading to reflect commit 6450f6ca7ee0 moving DoShowOptions into xf86Configure.c.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove duplicate declarations of KdAdd*Driver in kdrive.h

Clears gcc warnings in every file that includes kdrive.h:
kdrive.h:507:1: warning: redundant redeclaration of 'KdAddPointerDriver'
kdrive.h:225:6: note: previous declaration of 'KdAddPointerDriver' was here
kdrive.h:510:1: warning: redundant redeclaration of 'KdAddKeyboardDriver'
kdrive.h:284:6: note: previous declaration of 'KdAddKeyboardDriver' was here

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove duplicate declaration of xf86ValidateModesFlags in xf86Modes.h

Clears gcc warning in every file that includes xf86Modes.h:
xf86Modes.h:102:1: warning: redundant redeclaration of 'xf86ValidateModesFlags'
The main body of this function is an if { } else if { } pair of blocks. Previously there was int button at the top level scope which is used only in the first block, and a redeclaration of int button inside the second block. Since there’s no overlap in the code paths for the two uses of button, move the one from the outer block into the first block to help the programmer more quickly determine they are unrelated usages, and to silence the gcc warning of:

_xkbFilterDeviceBtn: move variable declarations to match usage scope

For consistency, move DeviceIntPtr dev declarations as well that are used in the same way.

XkbFindSrvLedInfo: remove extraneous name-clashing sli variable

Variable is already defined outside the outer if statement, and there’s no need to redefine inside the if statement.

No point in setting sli before if (dev->kbdfeed->xkb_sli==NULL) check - if check is true, we immediately set it, if check is false, we immediately return without further reference or use of it.

The one thing we do with it inside the inner if statement is store an allocation in it for a brief moment before writing to the final destination, which is immediately returned to the caller.
In short, there's no benefit to the variable at all in this block, it just gives the optimizer more code to figure out how to omit.

Fixes gcc warning:

xkbLEDs.c: In function 'XkbFindSrvLedInfo':
xkbLEDs.c:683:19: warning: declaration of 'sli' shadows a previous local
xkbLEDs.c:679:18: warning: shadowed declaration is here

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9edfa47bd58cd318d57d0f114714fd146be35a79
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:34 2011 -0800

KdParseFindNext: Constify delim argument

It's only used as input to strchr to find the delimiters, never written to.

Clears a bunch of gcc warnings of the form:
kdrive.c:323:2: warning: passing argument 2 of 'KdParseFindNext' discards qualifiers from pointer target type
kdrive.c:261:1: note: expected 'char *' but argument is of type 'const char *'

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ff64ad6c74a3e14ca34bacb8866b6bd2262bdff
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:34 2011 -0800

Convert KdDoSwitchCmd to use asprintf instead of malloc/strcat/etc.

Also fix the reason argument to be const char * to clear several gcc warnings of:
kdrive.c:151:2: warning: passing argument 1 of 'KdDoSwitchCmd' discards qualifiers from pointer target type
kdrive.c:116:1: note: expected 'char *' but argument is of type 'const char *'

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5be590bde23ce1c57015b1d9e1c63189c374448e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:34 2011 -0800
DoShowOptions: preserve constness of options list as we walk it

Since all we do with the option list is walk down the list printing the names, there's no need to cast away its constness.

Cleans gcc warning:
xf86Configure.c: In function 'DoShowOptions':
exf86Configure.c:781:4: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 71efd868282d47a6db405a16de18ac322926962b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:34 2011 -0800

x86emu: constify debug strings

Strings are all pointers to literal constants, just used as input to printf calls when debugging is enabled.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d5a5eece670dee963765eab1431c21525c16d9ee
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:34 2011 -0800

CompareISOLatin1Lowered: constify arguments

Allows callers to avoid deconstifying arguments when calling, fixing gcc warning:

filter.c: In function 'PictureGetFilterId':
filter.c:59:2: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83ac9502ea9f1dedf3a8002745668af16bb1f2af
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

xdmcp.c: fix three small const warnings
xdmcp.c:63:36: warning: initialization discards qualifiers from pointer target type

xdmcp.c: In function 'XdmcpRegisterConnection':
xdmcp.c:482:8: warning: cast discards qualifiers from pointer target type
xdmcp.c:482:8: warning: cast discards qualifiers from pointer target type
xdmcp.c:482:8: warning: cast discards qualifiers from pointer target type

xdmcp.c: In function 'get_mcast_options':
xdmcp.c:1596:21: warning: initialization discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3839d1480877818f3ccc04e25237d853bab210c3
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Dec 12 16:49:33 2011 -0800

LockServer: store path to LOCKDIR literal string in a const char *

And instead of initializing to NULL, then resetting to LOCKDIR almost
immediately (before ever using the NULL value), skip directly to setting
it to LOCKDIR.

tmppath variable is only used as input for generating the path name
via calls to strlen, sprintf, etc.

Fixes gcc warning of:
util.c: In function 'LockServer':
util.c:259:11: warning: assignment discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit af4113bf6d155f037c3492e50513336fa4a7
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Dec 12 16:49:33 2011 -0800

WriteToClient: preserve constness of buf while extracting length value

Fixes gcc warning:
io.c: In function 'WriteToClient':
io.c:826:6: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
OsInit: store "/dev/null" in a const char *

It's only passed as the input side of a strcpy and as the filename to fopen, so doesn't need to be non-const. Fixes gcc warning:

constify the reason string throughout the authorization check framework

Almost all of the places the string is assigned point to a literal string constant, so use const char * for those, and const char ** for function calls that return it via an argument. Fortunately the top level function, ClientAuthorized, which returns the string as its return value is called from only one place, ProcEstablishConnection. ProcEstablishConnection stores either that return value or a string literal in char *reason. It only uses reason as an argument to SendConnSetup. SendConnSetup passes the reason argument to strlen & WriteToClient, both of which already have const qualifiers on their args. Thus added const to the reason variable in ProcEstablishConnection and the reason argument to SendConnSetup.

Fixes gcc warnings:

Commit 2c9800f91559fbb12dd276cf0536631104092f67
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Dec 12 16:49:33 2011 -0800

Commit 50b1097643934c8caec9530e5eda6ed6534aaf61
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Dec 12 16:49:33 2011 -0800
xdmauth.c:277:11: warning: assignment discards qualifiers from pointer target type
xdmauth.c:293:15: warning: assignment discards qualifiers from pointer target type
xdmauth.c:313:14: warning: assignment discards qualifiers from pointer target type
xdmauth.c:322:11: warning: assignment discards qualifiers from pointer target type
rpcauth.c: In function 'SecureRPCCheck':
rpcauth.c:136:10: warning: assignment discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 99998196017ef38ec88459b50605aa20f628788b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

Constify string for authorization protocol names

gcc was warning from storing string constants in a char *name field:
auth.c:64:1: warning: initialization discards qualifiers from pointer target type
auth.c:72:1: warning: initialization discards qualifiers from pointer target type
auth.c:81:1: warning: initialization discards qualifiers from pointer target type

Making the field const requires changing AuthorizationFromID to take
a const char ** pointer for the name argument which it sets to point
to the matching name entry.

Changing that argument requires changing its sole caller in the security
extension to pass the address of a const char * variable to it, which it
can do, since the only thing it does with the returned name is to pass
it back to the RemoveAuthorization function that already expects a const
char *name.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 01834e99e461e2a8354f3b4ae714c5e83fa255
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

os/access.c: replace acmp & acopy macros with memcmp & memcpy calls

No need to cast to char * now that all supported platforms use C89-standard
void * argument types, so just drop the casts from acmp & acopy macros,
which clears the gcc warnings for places const pointers were cast non-const:

access.c: In function 'DefineSelf':
access.c:786:3: warning: cast discards qualifiers from pointer target type
access.c:795:6: warning: cast discards qualifiers from pointer target type
access.c: In function 'NewHost':
access.c:1293:9: warning: cast discards qualifiers from pointer target type
access.c:1298:6: warning: cast discards qualifiers from pointer target type
access.c:1309:5: warning: cast discards qualifiers from pointer target type

Without the casts, acmp & acopy are just a funny way to write memcmp & memmove, so drop the macros and inline the calls, taking care to swap the first two arguments to memmove since it had swapped them.

Since all the calls to memmove end up being to non-overlapping memory (mostly copying from an existing pointer to a newly allocated one), replace those with memcpy.

And finally, don't actually call memcpy to copy 0 bytes from one place to another, since that's just a waste of a perfectly good function call.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 020d83d361b0ab54ac962e97b12935be785f9a67
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

xres.c: Preserve constness of string returned by LookupResourceName

MakeAtom now accepts a const char * so we don't need to cast down to char * anymore. Fixes gcc warning of:

xres.c: In function 'ProcXResQueryClientResources':
xres.c:155:6: warning: cast discards qualifiers from pointer target type

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2ddae8f0bd2a99ce0cd15bf3848393af29e615acf
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Dec 12 16:49:33 2011 -0800

constify strings in resource name registry

LookupResourceName already returned a const char *, so just needed to change the variable we're storing the list in to be a const char ** and then add const to the name argument to RegisterResourceName (which just stores name in the array) and CreateNewResourceType (which just passes name to RegisterResourceName).
Cleans a bunch of gcc warnings of the form:
registry.c:319:5: warning: passing argument 2 of 'RegisterResourceName' discards qualifiers from pointer target type
registry.c:200:1: note: expected 'char *' but argument is of type 'const char *'

and from all the extensions:
damageext.c: In function 'DamageExtensionInit':
damageext.c:490:5: warning: passing argument 2 of 'CreateNewResourceType' discards qualifiers from pointer target type
../include/resource.h:159:26: note: expected 'char *' but argument is of type 'const char *'

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 424dbde891486ad6a6c00c61a334031ff18f5556
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Dec 9 10:08:55 2011 -0800

CheckForEmptyMask does not need to declare int n twice

Just use the existing n variable again in the ARGB_CURSOR loop instead of creating another one.

Fixes gcc -Wshadow warning:
cursor.c: In function 'CheckForEmptyMask':
cursor.c:155:6: warning: declaration of 'n' shadows a previous local
cursor.c:146:9: warning: shadowed declaration is here

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b2bc38e4a553c29f49a028433b34b4d6c8a8c12
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Dec 10 10:01:18 2011 -0800

Even more correctly free config file names

If we didn't go into the if (!autoconfig) { } block, the filename, dirname, and sysdirname pointers were never initialized, but we freed them outside the block, leading to potential memory corruption.

Move the frees inside the block where they're initialized to avoid this.

To avoid similar problems, move the declarations of the variables that are only used in this block inside the block.
Regression introduced by commit 3d635fe84d6de53e2f74203b10e89f7851fe3fc1

Found by gcc warning:
xf86Config.c: In function 'xf86HandleConfigFile':
xf86Config.c:2303:11: warning: 'filename' may be used uninitialized in this function
xf86Config.c:2303:22: warning: 'dirname' may be used uninitialized in this function
xf86Config.c:2303:32: warning: 'sysdirname' may be used uninitialized in this function

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Paulo Zanoni <paulo.r.zanoni@intel.com>

commit 33d6e6743d86324c2078f156991b16ac4f2593fc
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Wed Dec 7 19:06:05 2011 -0800

xf86RegisterRootWindowProperty is confused about xnfcalloc

It will never return NULL, so don't try to handle a NULL condition, since that just confuses programmers and static analyzers.

It uses calloc, so all the allocated memory is cleared, so there's no point looping over the memory to manually initialize it NULL.

And just because it's annoying, it doesn't need to be the only place in this file to do if (NULL==...) instead of if (... == NULL).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Paulo Zanoni <paulo.r.zanoni@intel.com>

commit e5aa00989cda9ebd18063c5e955235123ad37b88
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 7 14:14:10 2011 +1000

Change GetXI2/XI/CoreType to just take a type argument

Avoids the dummy-event dance if we have an event type and need to get the matching XI2 type.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6cc0e6a0afa6a87802767d484aa4e68fa935d3eb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 28 12:55:55 2011 +1000

include: add GetXI2MaskByte and GetXI2EventFilterMask to headers
This is needed for touch event processing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 372a6f10dc2d74d2d179e8b92449e9b8636a99ef
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Dec 8 21:52:07 2011 -0800

Change disable_clientpointer return type to void

It doesn't return anything, nor does it's caller expect it to.

Fixes Solaris Studio compiler error:
"xichangehierarchy.c", line 214: Function has no return statement : disable_clientpointer

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 522f8bcc0360d6a117e929a004bc956ab92037e9
Merge: 6369b59668 2abe83df68
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 8 20:57:26 2011 -0800

    Merge remote-tracking branch 'whot/for-keith'

commit 2abe83df686ed64c4f4df711ac3c1fd12131c2e4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 5 14:02:51 2011 +1000

include: add BUG_WARN_MSG for custom error message on bug condition

    __BUG_WARN_MSG is a simple helper to enable call with and without varargs. I
couldn't find a way to otherwise do this without getting gcc warnings.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4fc797f3756611a97767f407e1af0b6a7cf2f1d9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 11 16:25:30 2011 +1000

    xfree86: include xorg-config.h from xaalocal.h

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit 8c9589c71d47f287588314d77ddebcc22cd04c8a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 5 11:55:58 2011 +1000

Xi: rename "state" to "corestate" in ProcessDeviceEvents

'state' is shadowed by the XKB 'state' as well (which feeds into the event too), so rename this one to clarify that this is the core event state only.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 631516a4aa9858874ee197444cd93d91b97a1089
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 2 15:47:58 2011 +1000

Xi: check button mapping value _before_ assigning it

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit a1304d6cb69301899c3c8450d6bf3e68573599df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 5 11:26:30 2011 +1000

Xi: skip superfluous cast

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 1ab50be938524dcd4a9e56d27e3b96a27c2db2c0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 30 09:06:06 2011 +1000

xfixes: don't dereference a NULL cursor

If the new cursor is the NULL cursor, don't dereference it and use zeros instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d2ebbcdaf6b13d70eef0704b1764ff349e1be22a0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Nov 29 16:15:37 2011 +1000

Xi: when removing a device, reset ClientPointers where needed
if a client had the to-be-removed device as ClientPointer, reset to NULL.

Fixes #43165

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 27425f07b29e0dda8782345c1899273ca742891e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Nov 9 14:45:02 2011 +1000

dix: use BUG_WARN for input mask size issues

Yes, we're likely corrupting memory here but really this is unlikely to be
triggered other than a real bug in the server. In which case a stacktrace is
going to be more useful than any silent error handling.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 9b570ecbda954227c89938ee6f94b9ef0d2d3b6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 9 10:48:05 2011 +1000

xfree86: bump the input ABI

The last few patches broke the ABI, bump it for convenience.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 86bb3781b336c099e4279136ed81974de5aca7d8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 4 11:29:01 2011 +1000

input: swap the server over to use the XI2mask struct

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b8b90cd1610331ff12fa3f700bf372670af7795ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 3 13:39:59 2011 +1000

Add a new XI2Mask struct and a few helper functions.

The current XI2 mask handling is handy for copying (fixed size arrays) but a
pain to deal with otherwise. Add a struct for XI2 masks and the required
accessors.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4bc2761ad5ec2d0668aee639780fffb136605fbc8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 4 14:16:37 2011 +1000

dix: switch the dev->deviceGrab.activeGrab from GrabRec to GrabPtr

This breaks the input ABI.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b601ea769f1b8a4d7f19e9d4a13541c78e865fe5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 4 10:47:27 2011 +1000

dix: allocate temporary grabs on the heap

Once grabs start having nested memory locations, we can't just use the
GrabRec on the stack anymore, we need to alloc/copy/free the grabs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b0e9e2e32616d09c30a02b9d0ae9db0b13e150d1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 4 10:44:31 2011 +1000

dix: add CopyGrab() function

Not really needed at this point, but will be once touch support is added.
Since grabs are now expected to be allocated/freed with AllocGrab and
FreeGrab, CopyGrab must increase the refcount and duplicate the modifier
masks. Until the callers are switched to use FreeGrab, this introduces
memleaks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 347f377f3b3f8c9d230d6309ec8ae92aa86d78b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 3 16:12:09 2011 +1000

dix: add AllocGrab helper function
Not needed since the GrabRec is a self-contained struct but will be needed for the xi2 input mask rework.
FreeGrab already exists, make it available to other callers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 7af23259d88f4c28ed21140f82cc03b3724c06bb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Nov 21 11:41:12 2011 -0800

dix: switch the syncEvent queue to a struct list

No effective functionality change, just cleanup to make this code slightly more sane.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6369b59668613e51131857fbbaea393a65a73048
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Thu Dec 1 16:24:32 2011 -0500

test: update .gitignore with xfree86 and sort alphabetically

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3ab8ee32470f7cf1223e04238bb8c5f74ed52fc3
Merge: 22a666f995 98c4a888a4
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 7 12:42:17 2011 -0800

Merge remote-tracking branch 'airlied/reviewed-fixes'

commit 22a666f9952feb7248e9bb2fa777edaac8175f
Merge: 3824f558cc e89b0324da
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 7 12:27:23 2011 -0800

Merge remote-tracking branch 'alanc/master'

commit 3824f558cc2ee051da8314c7bf08b8647b44e84a
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 7 12:13:37 2011 -0800

hw/xfree86: fix segfault in config parser when config dir is missing
Treat a scandir error from a missing (or unusable) directory return as if it simply returned no files at all, which is what we want.

cc: Paulo Zanoni <przanoni@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 98c4a888a4428789386c7c47cece81933b5999ba
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Nov 28 16:37:59 2011 +0000

kdrive: drop screen crossing code.

The only kdrive server we probably care about anymore is Xephyr, and this screen enable/disable code totally breaks it in multi-screen mode.

When you are in one screen the other stops updating.

Fixes https://bugzilla.redhat.com/show_bug.cgi?id=757457

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8d3731a811e33e263920dd7c8ec63d02968eb56e
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Oct 20 10:48:26 2011 +0100

hal: free tmp_val in one missing case

Pointed out by coverity scan.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 41229392b790f30a0f0ef1f4ed95647c5bca4001
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Oct 20 11:00:43 2011 +0100

xv: test correct number of requests. (v2)

Pointed out by coverity.

v2: fix swapped as well, as pointed out by Alan

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 1049139499d9132a20cd6d4d156fe9da9cddb6c2
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 19 16:57:13 2011 +0100

xaa: avoid possible freed pointer reuse in epilogue

If the pGCPriv->flags == 2, then we try to assign the freed pGCPriv->XAAOps
avoid this by clearing the flags in to be destroyed pGCPriv.

Reported by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 682c09a2cedd234b005334cc01247d859dd7f26a
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 19 16:22:31 2011 +0100

Xi: avoid overrun of callback array.

This code had an off-by-one and would allow writing one past the end of
the callbacks array.

Pointed out by coverity.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b62dc4fcbcfdf10de16650bee284702c8608bb60
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 19 16:21:26 2011 +0100

xext: don't free uninitialised pointer when malloc fails. (v2)

Initialise the pAttr->values to values so if the values allocation
fails it just ends up as free(NULL).

Pointed out by coverity.

v2: use Alan's suggestion.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 22605effd188436629a0dbe688666549473741e4
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Apr 28 13:34:28 2011 +1000
fbdevhw: iterate over all modes that match a mode. (v3)

So on RHEL5 anaconda sets an xorg.conf with a fixed 800x600 mode in it, we run radeonfb and fbdev since ati won't work in userspace due to domain issues in the older codebase.

On certain pseries blades the built-in KVM can't accept an 800x600-43 mode, it requires the 800x600-60 mode, so we have to have the kernel radeonfb driver reject the 800x600-43 mode when it sees it. However then fbdev doesn't try any of the other 800x600 modes in the modelist, and we end up getting a default 640x480 mode we don't want.

This patch changes the mode validation loop to continue on with the other modes that match to find one that works.

v2: move code around to avoid extra loop, after comment from Jamey.
v3: move loop setup back into loop as per Jeremy's review.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fac46e310b82fadcedfd790798d1016c4805640b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 2 08:52:53 2011 +1000

include: rename "foos" to "list_of_foos" in the struct list documentation

Makes things a little easier to read.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 7dfe8c32a96d3f96c8aaeb2802f5b122e381a1e4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 2 08:51:24 2011 +1000

include: update struct list documentation to use one set of structs only

The example at the top of the file used a struct bar and a list of struct foos. Use those two throughout instead of a different struct foo for the examples and for the API documentation.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 18539c89e8a8f6e272ead2b631365da530065ae7
Author: Peter Hutterer <peter.hutterer@who-t.net>
include: a new list element does not need initialization, state so

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 58dc73314b6508121ca094b8c00612fe19ed69f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 2 08:43:45 2011 +1000

include: point to the tests in list.c as examples

Even with the documentation, the list.c tests are the best examples.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit c8e451a8e719ba432bcfa8976774c07307087809
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 1 14:12:11 2011 +1000

include: add list_last_entry to get the tail of a list

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6acebf9e1298939593b942ec91ae9ec9e74faa19
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 1 13:35:50 2011 +1000

include: add list_append()

The existing list_add() prepends to the list, but in some cases we need the
list ordered in the way we append the elements.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e89b0324da89ba5c0ba64af1ef46a12b7f55f879
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 3 21:23:51 2011 -0500

autoconf: the minimum required level for autoconf is 2.60

The toolchain requirements are documented here:
http://www.x.org/wiki/ModularDevelopersGuide#Required_Tools
Note that autoconf features only found in versions later than 2.60 must not be used.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 427cb53fddf0c517d1d1025a87b1104735ed2a
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 3 21:23:21 2011 -0500

autoconf: remove redundant AC_PROG_MAKE_SET

Already included during Automake initialization.

After the patch, no change:
configure:3893: checking whether make sets $(MAKE)
configure:3915: result: yes

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit c19c55a93ab1bc6db56075ca34d6e1c3f522f622
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 2 00:09:07 2011 -0800

Fix builds of Xnest & Xephyr with Solaris Studio compilers

Required in order to build with Studio cc now that xorg-macros is setting -erwarn=E_FUNC_HAS_NO_RETURN_STMT since a bug in the Solaris system headers causes the noreturn attribute to not be correctly applied to the exit() prototype in <stdlib.h> when building with Studio instead of gcc.

Otherwise compiler exits with errors:
"Display.c", line 65: Function has no return statement : x_io_error_handler
"hostx.c", line 341: Function has no return statement : x_io_error_handler

Uses Studio-specific pragma instead of adding another exit() prototype with a noreturn attribute to avoid causing gcc to warn about having a redundant prototype for the exit() function.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit e4dcf580f007d6adcf5b0c639865d7aaab1a319d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
LoaderOpen returns either a valid pointer or NULL, so don't check for < 0

Fixes Sun cc warning that was recently elevated to error by the stricter default CFLAGS changes to xorg-macros:

"loadmod.c", line 914: improper pointer/integer combination: op "<"

Should have been changed when commit ab7f057ce9df4e905b12 changed the LoaderOpen return type from int to void *.

Changes log message when file is found but dlopen() fails from:
(EE) LoadModule: Module dbe does not have a dbeModuleData data object.
(EE) Failed to load module "dbe" (invalid module, 0) to:
(EE) Failed to load module "dbe" (loader failed, 7)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8b6a75009746db4b8e2e180210ac097e35136bcd
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Wed Nov 30 23:01:34 2011 -0800

Fix gcc warnings about redundant declarations of fallback functions

Ensure ffs, strndup, strlcat, etc. aren't defined by our headers if they're already defined in the system headers.

This does export the HAVE_FFS, HAVE_STRNDUP, etc. definitions to drivers, but if you built the Xserver with a libc that had those, and then build the drivers with a less capable libc, you're going to have problems anyway, and this should solve some reported problems with conflicts between our strndup definition and gcc magic for it.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit d829a7c5cb42c979b58f3547136df5b05d906423
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Wed Nov 30 22:20:09 2011 -0800

Move to autoconf standard function name checks & defines

Replace multiple methods of checking for functions with AC_CHECK_FUNCS
Replace multiple methods of selecting fallback funcs with AC_REPLACE_FUNCS
Replace HAS_* and NEED_* #defines with autogenerated HAVE_*
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 4be68b03128e958d2a6dc1b7feb3587329b9561b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Nov 30 19:39:51 2011 -0800

Remove unused function checks from configure.ac & include/*.h.in

The code that used getisax to check for MMX support was moved to pixman and removed from the X server by commit eb2d7fe02f9cbc.

The code that used HAVE_MKSTEMP was deleted by the Xprint removal in commit 1c8bd318fbaf.

All alloca calls were removed by the patch series end in commit 5e363500c8, and used custom X checks instead of the autoconf HAVE_ALLOCA anyway.

I can find no record of HAVE_GETUID, HAVE_GETEUID, HAVE_LINK, HAVE_MEMMOVE, HAVE_MEMSET, HAVE_STRCHR, HAVE_STRRCHR, HAVE_GETOPT, HAVE_GETOPT_LONG, HAVE_DOPRNT, or HAVE_VPRINTF ever being used, and the calls to those functions are not wrapped in #ifdefs.
(Most of those are in our baseline requirements of C89 & Unix98 anyway.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 84207def93e4489df8dca8e044ce544be8a3f845
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Nov 28 20:38:58 2011 -0800

Disable building of tests requiring DDX functions when Xorg is not built

Some test cases require linking with some sort of DDX - ideally we'd have a stub ddx for testing, but for now, since we link with the Xorg ddx, disable those tests when configured with --disable-xorg

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=43320

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
config: conftest needs an include directive to locate X11/Xfuncproto.h

The compiler option -fvisibility=hidden is erroneously missing due to a faulty configuration test. The gcc command is unable to locate X11/Xfuncproto.h unless the build occurs on a system where X11 development headers are installed.

configure:21294: checking for symbol visibility support
configure:21323: gcc -std=gnu99 -c -g -O2 -fvisibility=hidden conftest.c >&5
conftest.c:144:28: fatal error: X11/Xfuncproto.h: No such file or directory

The solution is to add an include directive to obtain the location of X11/Xfuncproto.h which may or may not be the system installed headers.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

Limit the number of screens Xvfb will attempt to allocate memory for

Commit f9e3a2955d2ca7 removing the MAXSCREEN limit left the screen number too unlimited, and allowed any positive int for a screen number:

Xvfb :1 -screen 2147483647 1024x1024x8

Fatal server error:
Not enough memory for screen 2147483647

Found by Parfait 0.3.7:
Error: Integer overflow (CWE 190)
   Integer parameter of memory allocation function realloc() may overflow due to multiplication with constant value 1112
      at line 293 of hw/vfb/InitOutput.c in function 'ddxProcessArgument'.

Since the X11 connection setup only has a CARD8 for number of SCREENS, limit to 255 screens, which is also low enough to avoid overflow on the sizeof(*vfbScreens) * (screenNum + 1) calculation for realloc.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Save major/minor opcodes in ClientRec for RecordAReply

The record extension needs the major and minor opcodes in the reply hook, but the request buffer may have been freed by the time the hook is invoked. Saving the request major and minor codes as the request is executed avoids fetching from the defunct request buffer.

This patch also eliminates the public MinorOpcodeOfRequest function, inlining it into Dispatch. Usages of that function have been replaced with direct access to the new ClientRec field.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Merge remote-tracking branch 'jcristau/for-keith'

Remove another if (E != NULL) check around free(E)

I wonder if there are any other patterns we haven't seen yet?
test: remove unneeded printf statements from misc.c

Leftover from debugging, is not really needed in a test.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 9c38422fc4c853c3104fada2a3851c79df2a66f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 9 14:37:26 2011 +1000

include: add BUG_WARN macro for internal bug cases.

There are plenty of cases that can only be triggered by a real bug in the
server and doing the ErrorF dance manually everywhere is a tad painful and
the error message is usually used only to find the spot in the file anyway.

Plus, reading BUG_WARN somewhere is a good indicator to the casual reader
that this isn't intended behaviour.

Note that this is intentionally different to the BUG_ON behaviour on the
kernel, we do not FatalError the server. It's just a warning + stacktrace.
If the bug is really fatal, call FatalError.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 61ef4daf6450da573b9de72ba7b200566821b916
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Nov 4 15:49:23 2011 +1000

Xi: add FreeInputMask function

Does what it says on the box, complements MakeInputMask.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit ee9346bb31efce4036df1b8dd8f1a5dc43ae955a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Nov 3 15:45:34 2011 +1000

Xi: add helper functions to alloc/free InputClientPtrs

Currently not needed since the InputClientRec is a self-contained struct. As
part of the touch rework that won't be the case in the future and a function
to allocate/free memory appropriately is required.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4acfd999e294868a44e559d212c6d88a4978256b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 4 15:37:32 2011 +1000

dix: use a single return statement in CheckPassiveGrabsOnWindow

No functional change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b371795f01c1d7fc338cfe18b8a567ed9f402846
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 3 14:54:06 2011 +1000

dix: rename GetWindowXI2Mask to WindowXI2MaskIsset

And let it return a boolean value, that's all the callers need anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit bedb8fd90de8e2db33d5e3b1d859f24bf34efe9a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 3 14:25:51 2011 +1000

Xi: use single return code from XIPassiveGrabDevice

Some failures returned status but the actual return code was "ret". Use
"ret" consistently and move status to the local block is used in.

[the goto isn't necessary yet, but for a future patch]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2aad1a2b42b7def7812abfa2462b6bce6382e03a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Nov 2 14:07:19 2011 +1000

include: fix mask size calculation

Same bug as inputproto-2.0.1-9-gb1149ab, if the XI2LASTEVENT was a multiple
of 8, the mask was one bit too short.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b2015a2c01711646bb7ae23d684ab00ed55d4d0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Nov 24 13:54:08 2011 -0800

dmx: Build fix for -Werror=implicit-function-declaration on linux

Fixes regression introduced by: 6e6d732bac3c21cb85f8e998908f9b393630e5f8
Found-by: Tinderbox

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
CC: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 873a1ace3646994aef95961f48719e95dcade7a2
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date: Tue Nov 1 10:57:56 2011 -0200

parser: free val.str after xstrtokenize

After we tokenize val.str, we discard it.

This is just one example:
6 bytes in 1 blocks are definitely lost in loss record 24 of 652
at 0x4C2779D: malloc (in vgpreload_memcheck-amd64-linux.so)
by 0x4D744D: xf86getToken (scan.c:400)
by 0x4D75F1: xf86getSubToken (scan.c:462)
by 0x4DB060: xf86parseInputClassSection (InputClass.c:145)
by 0x4D664C: xf86readConfigFile (read.c:184)
by 0x490556: xf86HandleConfigFile (xf86Config.c:2360)
by 0x49AA77: InitOutput (xf86Init.c:365)
by 0x425A7A: main (main.c:204)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit d41987d77c903e00cca7bfcf3e04ed07151e3bb4d
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date: Tue Nov 1 10:42:36 2011 -0200

parser: free val.str after xf86getBoolValue
After we convert the value to a boolean, we discard the string.

This is just one example:

3 bytes in 1 blocks are definitely lost in loss record 5 of 657
at 0x4C2779D: malloc (vgpreload_memcheck-amd64-linux.so)
by 0x4D7444D: xf86getToken (scan.c:400)
by 0x4D75F1: xf86getSubToken (scan.c:462)
by 0x4DB3E0: xf86parseInputClassSection (InputClass.c:189)
by 0x4D664C: xf86readConfigFile (read.c:184)
by 0x490556: xf86HandleConfigFile (xf86Config.c:2360)
by 0x49AA77: InitOutput (xf86Init.c:365)
by 0x425A7A: main (main.c:204)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit d5c7338b3eaea55177ade6fcba71a477cc5547f5
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date:   Mon Oct 31 17:54:03 2011 -0200

correctly free config file names

We call xf86openConfigDirFiles twice, so we overwrite the configDirPath
variable, losing the pointer. If we move the pointer management to
the upper layer (the function callers), they will be able to call these
functions as many times as they want, but they’ll have to free those returned values.

v2: don't leak inside XWin

4,097 bytes in 1 blocks are definitely lost in loss record 625 of 632 at 0x4C2779D: malloc (in vgpreload_memcheck-amd64-linux.so) by 0x4D7899: DoSubstitution (scan.c:615) by 0x4D87B0: OpenConfigDir (scan.c:845) by 0x4D8A2D: xf86openConfigDirFiles (scan.c:955) by 0x49031F: xf86HandleConfigFile (xf86Config.c:2327) by 0x49A9BF: InitOutput (xf86Init.c:365) by 0x425A7A: main (main.c:204)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 0ae087e13192d9b498db782be5ba49ca91a81547
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date: Sat Oct 29 18:33:24 2011 -0200

glx: don't leak driConfigs

For dri, dri2 and driswast.

12,968 (584 direct, 12,384 indirect) bytes in 1 blocks are definitely lost in loss record 569 of 570 at 0x4C2779D: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so) by 0x7821E3B: driConcatConfigs (utils.c:560) by 0x7827CF2: dri_fill_in_modes (dri_screen.c:224) by 0x782831E: dri_init_screen_helper (dri_screen.c:405) by 0x7826C03: drisw_init_screen (drisw.c:266) by 0x782225F: driCreateNewScreen (drisw_util.c:69) by 0x4826E2: __glXDRIscreenProbe (glxdriswrast.c:451) by 0x4812FA: GlxExtensionInit (glxext.c:327) by 0x41FB14: InitExtensions (miinitext.c:471) by 0x568622: main (main.c:208)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d26fae246d7c451b4d5ffe24fd959d4bd00b107
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date: Tue Oct 25 14:56:35 2011 -0200

glx: don't leak fbconfigs

29,952 (208 direct, 29,744 indirect) bytes in 1 blocks are definitely lost in loss record 573 of 573 at 0x4C2779D: malloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
by 0x4829BC: createModeFromConfig (glxdricommon.c:131)
by 0x482C09: glxConvertConfigs (glxdricommon.c:185)
by 0x482788: __glXDRIscreenProbe (glxdriswrast.c:468)
by 0x4812FA: GlxExtensionInit (glxext.c:327)
by 0x41FB14: InitExtensions (miinitext.c:471)
by 0x568636: main (main.c:208)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 305a8b8c86198b6fd118lee1
Author: Paulo Zanoni <paulo.r.zanoni@intel.com>
Date:   Thu Oct 20 17:39:29 2011 -0200

glx: fix memory leak when destroying screen

1,152 bytes in 1 blocks are definitely lost in loss record 536 of 575
at 0x4C25E84: calloc (in /usr/lib/valgrind/vgpreload_memcheck-amd64-linux.so)
by 0x483820: __glXScreenInit (glxscreens.c:357)
by 0x48271C: __glXDRIscreenProbe (glxdriswrast.c:469)
by 0x4812BE: GlxExtensionInit (glxext.c:327)
by 0x41FB14: InitExtensions (miinitext.c:471)
by 0x5685AE: main (main.c:208)

Signed-off-by: Paulo Zanoni <paulo.r.zanoni@intel.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f405dfdefe7d5db81d398615a80acbeba7e014da
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Nov 7 22:14:30 2011 +0000

dmx: Build fix for -Werror=implicit-function-declaration

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 632d205b309d0515b4ae0f9902059aa4b093a313
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon Nov 7 20:24:08 2011 -0800

Fix gcc -Wwrite-strings warnings in xf86Modes code

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 09e4b78f7944234865f4648940453303af0c2663
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Fix gcc -Wwrite-strings warnings in xf86 ddx

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 8e4556f560487f3d07812834d4785441d0a8323c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Nov 7 20:09:47 2011 -0800

FindModule: stop copying const char *dirname to char *dirpath

Not needed since 6cf844ab69926b split out the allocation/manipulation into the helper function, leaving FindModule just copying the pointer around, and causing gcc warnings and an unreachable call to free.

Also no longer need to store the combined strlen results in dirlen.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 05f589d464a961aa8d25632a390fb66a06cd186
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Nov 4 23:21:34 2011 -0700

Fix gcc -Wwrite-strings warnings in various extensions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 232f1ddf3d060f3ce9d2ebd35f33b1294cac380e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Nov 3 21:21:19 2011 -0700

Fix gcc -Wwrite-strings warnings in XkbGetRulesDflts

Stop temporarily storing a pointer to a constant literal string in a char *, just to strdup it a few lines later.

Fixes gcc -Wwrite-strings warnings:

xkbInit.c: In function 'XkbGetRulesDflts':
xkbInit.c:121:38: warning: assignment discards qualifiers from pointer target type
xkbInit.c:123:23: warning: assignment discards qualifiers from pointer target type
xkbInit.c:125:24: warning: assignment discards qualifiers from pointer target type
xkbInit.c:127:25: warning: assignment discards qualifiers from pointer target type
xkbInit.c:129:25: warning: assignment discards qualifiers from pointer target type
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0bc41d5f8d1a6192f57d9bf646cc46ed839b06b9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Nov 7 18:08:21 2011 -0800

Remove redundant redeclarations of functions in the same header file
Exposed by recent addition of -Wredundant-decls to default CWARNFLAGS

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 285133a35eede03e37f41aeea6cbfd15a0800d98
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Nov 7 15:44:26 2011 -0800

sun_agp: cast key to uintptr_t before casting to (int *)
Matches what linux_agp already does and prevents gcc from throwing up:
sun_agp.c: In function 'xf86DeallocateGARTMemory':
sun_agp.c:236:40: error: cast to pointer from integer of different size

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f8dd5efb673439e7e9f7d82e6f9ecb97afacc85a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Nov 3 21:18:56 2011 -0700

Mark XKB char * as const to clean up gcc -Wwrite-strings warnings
Cleans up around 120 warnings from this set

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cccafabd56d0f8e5784ea03ad9fd03224f952bfe
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Nov 3 21:10:51 2011 -0700

Mark arguments to fopen/popen/system wrappers as const char *
Silencing more gcc -Wwrite-strings warnings
Reduce unnecessary string copying in xkbtext routines

Instead of using sprintf to copy a static string to a local buffer, just to pass it to TryCopyStr, pass the static string to TryCopyStr directly, as is already done in other parts of this code.

Convert a bunch of sprintf to snprintf calls

This batch is the straightforward set - others are more complex and need more analysis to determine right size to pass.

Remove xf86FormatPciBusNumber from API, inline the one place its used

Found no calls from current driver modules

Move DoShowOptions to xf86Configure.c, delete xf86ShowOpts.c

Gets rid of duplicate static copy of optionTypeToString by putting both callers of that helper function in the same source file.
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 43fa1274263f76faaca995f6e498bc3179a857b8
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Oct 31 22:17:35 2011 -0700

Remove bad code from DoShowOptions (Xorg -showopts handler)

When we want to print a string, it's okay to just print it. We don't need to first allocate a buffer 2 bytes bigger than the string, copy the entire string unmodified to the buffer, print the buffer, and then leak the buffer (though we AbortDDX 8 lines later, and then just in case we survived that, call exit as well, so the leak is short lived, just oh so pointless).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 71a89d97332cc181becc5a5f73166e642f96c076
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Oct 31 21:36:47 2011 -0700

Convert glx/single2.c:DoGetString() to use asprintf()

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f3cb512dc4daaeed389bb4740e21b6e2330e01e1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Oct 29 11:19:44 2011 -0700

LogVMessageVerb: Fix const mismatch warning
"log.c", line 382: warning: assignment type mismatch:
    pointer to char "=" pointer to const char

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 3d2d88029b29d6e1c53220ad275ba8ba2dedd89e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Oct 29 11:13:32 2011 -0700

AuthAudit: clean up string handling calls
The extra "out" pointer to redirect writes to the array isn't needed since the removal of LBX (commit a9ed5a87902a), and eliminating it allows more logical use of sizeof(addr) in length-checked strlcpy & snprintf calls to write to it.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 615f93a3d03d40924365061c6ae242240dd0ab7e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Nov 1 14:57:41 2011 -0700

Remove unnecessary variable rtrn in XkbKeysymText

Also removes even more unnecessary use of variable assignment inside function arguments.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 5f285a30a1d6ffba82ebe5e08a0b68352bb51556
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Nov 1 16:56:18 2011 -0700

Make XIGetKnownProperty take a const char * argument

Now that MakeAtom takes const char *, so can XIGetKnownProperty.
Clears 71 warnings from gcc -Wwrite-strings of the form:
devices.c:145:5: warning: passing argument 1 of 'XIGetKnownProperty' discards qualifiers from pointer target type
../include/exevents.h:128:23: note: expected 'char *' but argument is of type 'const char *'

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e0f3633632de609e60950aef07c82d534db7888
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Oct 28 21:31:46 2011 -0700

Convert ProcRenderQueryFilters to use memcpy instead of strncpy

We just got the string length with strlen, might as well use it to copy the whole string quickly instead of checking each character a second time to see if it's 0 or not.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 780133f9ae7fada462714b47e79d26075bbd9abe
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Oct 28 21:29:50 2011 -0700

Convert DetermineClientCmd to use strdup instead of malloc+strncpy

*cmdname is initialized to NULL earlier in the function, so it's
okay to overwrite it with NULL if strdup fails, don't need that
extra check.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 03ddca6f71339fad089e56484bf35c63642ae1be
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Oct 28 21:25:20 2011 -0700

Convert dmxSetDefaultFontPath to use strdup instead of malloc+strncpy

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d9243777c77d9b2992fba7f459430283837e323
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Oct 29 10:32:52 2011 -0700

matchDriverFromFiles: use one snprintf instead of strncpy/cat series

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6e6d732bac3c21cb85f8e998908f9b393630e5f8
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Oct 28 21:18:46 2011 -0700

Convert strncpy/strncat to strlcpy/strlcat

As long as we're carrying around a compatibility copy in os/strl*.c,
might as well use them.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e189db3e57d30eb96034d4ce9544ce7a93a371e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Oct 28 20:19:44 2011 -0700

Convert AllocXTestDevice to use asprintf
Convert some malloc + strncpy pairs into strndup calls

Add fallback implementation of strndup()

Fix Sun compiler check that got turned around

Since the check is for !(compilers that support __builtin_constant_p) it needs to be !(gcc or new enough Sun cc), but was written as !(gcc or too old Sun cc).

Remove a couple Error() instances left behind by 09dbfcb0ad7b6c8

Two instances found in the SIOCGIFCONF code for listing network interfaces.
Enable memory checking during unit testing

If configure is generated with xorg-macros 1.16.0 or newer, and an appropriate memory checking library is found for the platform, use it when running unit tests. If not, then no harm is done.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

Don't require ld -wrap for tests that don't need it

If configure is generated with xorg-macros 1.16 or later, this allows builders to --enable-unit-test and run the tests other than the xi2 tests which require ld -wrap (and are still wrapped in if HAVE_LD_WRAP in tests/xi2/Makefile). If an older xorg-macros is used, the existing behaviour is preserved of requiring ld -wrap for all unit tests, but no side effects occur, so the minimum xorg-macros version is not raised.

If unit testing is enabled without ld -wrap, then we create a bogus "xi2-tests" script just to report that we're skipping them.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

Don't fallback to wsfb or fbdev on Solaris

We don't ship either one, so don't waste time and make confusing log entries trying to load them.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Fix Xdmx build on Linux to work with strlcpy changes

Include strlcpy.c in the libdmxconfig.a library with the other functions shared among the xdmx configuration programs.

Also add a #include "os.h" to the scanner.l file that now calls strlcpy to include the prototype from $(top_srcdir)/include/os.h.

(To be squashed into http://cgit.freedesktop.org/~alanc/xserver/commit/?id=c19f0ff5223d428f8ad2ab3c563e974e96a521ba before next PULL request to avoid breaking bisection.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 922c1d817091c7eedfb701f4d9eb4324e22cccc4
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Nov 11 20:44:19 2011 -0500
docs: spell "X Server Version" consistently in titles. Add where missing.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5952efa903d57ac69070f1477ce46223a2a7893c
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Nov 20 13:07:33 2011 -0800
Bump version to 1.11.99.1 (1.12 development release 1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 795fbe3e6e440f023e52c452106f4c266c13d36c
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Nov 20 13:33:12 2011 -0800
Add 'optionstr.h' to include/Makefile.am

This makes sure it gets distributed

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 08ec4da6a7617637914bee1636858474213cf39d
Author: Julien Cristau <jeristau@debian.org>
Date:   Sat Nov 5 13:00:07 2011 +0100
Fix ShmPutImage for XYBitmap
We can't call CopyArea in that case because the image has depth 1, which might not match the target drawable, so we might overrun the shm segment. Commit 11817a881cb93a89788105d1e575a468f2a8d27c apparently fixed a similar bug for XYPixmap, but missed the bitmap case.

Fixes: http://bugs.debian.org/629611

Thanks to Alan Curry for diagnosing this and providing a test case.

Reported-and-tested-by: Alan Curry <pacman@kosh.dhis.org>
Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 328074890eeb111950e984c6f618311983600b20
Author: dtakahashi42 <dtakahashi42@gmail.com>
Date:   Fri Nov 18 11:30:22 2011 -0800

    rootless: Fix a server crash when choosing a color with the gimp color wheel

    https://trac.macports.org/ticket/30927

    Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 58864146fbd1820d04825838691e84784ef91bc
Author: Ross Burton <ross@linux.intel.com>
Date:   Wed Sep 28 11:46:02 2011 +0100

    edid: Add quirk for Acer Aspire One 110

At least one revision of the AAO reports a 190x110mm maximum size but a 451x113mm mode.

    X.Org Bug 41141 <https://bugs.freedesktop.org/show_bug.cgi?id=41141>

    Signed-off-by: Ross Burton <ross@linux.intel.com>
    Reviewed-by: Daniel Stone <daniel@fooishbar.org>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 34b0e4ee911f8b09a3682a7f1b4c8598ef48b8d
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Thu Aug 25 16:04:04 2011 +0100

    dri2: Register the DRI2DrawableType after server regeneration

The Resource database is reset upon regeneration and so the dri2 module needs to re-register its RESTYPE for the drawable or else it will
clobber the next unsuspecting user of the database. Fortunately, DRI2 is loaded late in the initialisation sequence and was last up until xf86-video-intel started using the Resource database to track outstanding swaps...

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Paulo Zanoni <paulo.r.zanoni@intel.com>

commit bfa1a0dd190ed88020d60eba3bb04681c8e83a68
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Mon Jan 24 11:17:03 2011 +0000

DRI2: Avoid a NULL pointer dereference

Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=41211

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c1bb843b9290c2b18a9f0ac59773ff8f1eb974f
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date: Tue Oct 4 12:25:26 2011 +0300

record: Prevent out of bounds access when recording a reply.

Any pad bytes in replies are written to the client from a zeroed array. However, record extension tries to incorrectly access the pad bytes from the end of reply data.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit 1f5baa924a5907978f564372265d9830ac72a077
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Oct 30 20:26:42 2011 -0700
xfree86: Deprecate the use of xf86PciInfo.h

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Tormod Volden <debian.tormod@gmail.com>

commit eb3377fbb8a7baa26c9831e56ed782d48b28fa71
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Nov 1 14:59:15 2011 -0700

xfree86: Fix powerpc build with -Werror=int-to-pointer-cast -Werror=pointer-to-int-cast

memType is a uint64_t on powerpc. Using memType only really makes sense for *physical* addresses, which can be 64-bit for 32-bit systems running on 64-bit hardware.

However, unmapVidMem() only deals with *virtual* addresses, which are guaranteed to fit into a uintptr_t.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit a551f126cc4af7a476d98f0d0cb309d5aa600d54
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date:   Fri Nov 4 23:26:25 2011 -0700

xfree86: Fix RandR rotation across server generations

245cb8e94fd1599 fixed xf86RotateDestroy() to actually run its teardown code, causing the Damage object to properly be re-allocated after a server regeneration. However the block that does that still thinks the Rotate layer BlockHandler is wrapped from the last generation, meaning the shadow pixmap is never re-allocated and the Damage object is never re-registered, causing a blank screen, and potentially a driver crash on the next teardown after the server asks it to free a 0x0 Pixmap.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bfa2a1857a1efda7f171f10e855d200ca0d8cc1a
Merge: f0d50cc665 e7cb8f802a
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Nov 14 09:07:06 2011 -0800

Merge remote-tracking branch 'whot/for-keith'

commit e7cb8f802ad6f6c22e7a930c0dfc5c1076781c96
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 9 15:31:57 2011 +1000

Xext: remove unused variable 'n'

gxselinux_ext.c: In function 'SELinuxSendItemsToClient':
gxselinux_ext.c:340:16: warning: unused variable 'n' [-Wunused-variable]
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit bb4aa1f263ad38c175bfda3b7e6c325260ce3f28
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 9 15:31:10 2011 +1000

Xext: don't swap CARD8 in SProcSELinuxQueryVersion

ngxselinux_ext.c: In function 'SELinuxSendItemsToClient':
gxselinux_ext.c:340:16: warning: unused variable 'n' [-Wunused-variable]
gxselinux_ext.c: In function 'SProcSELinuxQueryVersion':
gxselinux_ext.c:532:62: error: call to 'wrong_size' declared with attribute
error: wrong sized variable passed to swap
ngxselinux_ext.c:533:62: error: call to 'wrong_size' declared with attribute
error: wrong sized variable passed to swap

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 35ec24cf245e5ef676e98a0bf7c77296a3f1ff63
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 1 14:14:02 2011 +1000

input: replace remaining GetPairedDevice() with GetMaster()

Wherever it's obvious which device we need (keyboard or pointer), use GetMaster() instead of GetPairedDevice(). It is more reliable in actually getting the device type we want.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit fc16917ad6f0d2722bf85e5ea955dd3bc4125a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Apr 15 13:32:10 2011 +1000

include: export GetProximityEvents and QueueProximityEvents

This is mainly needed for consistency with GetPointerEvents and friend.
No-one seems to actually need this function from outside the usual DDXs.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 11840595a1be9f2df7390bcc708cc176e60d3ef2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 3 08:58:58 2011 +1000

dix: Don't let a driver without a ProximityClassRec post events

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 22715e465b415b3351b83b8279a4f44157f63199
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 27 11:03:39 2011 +1000

Xi: allow passive keygrabs on the XIAll(Master)Devices fake devices

They don't have a KeyClassRec, but we must still allow passive grabs on
them.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Bastien Nocera <hadess@hadess.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f0d50cc6651dce3a8a3cd3fb84210aa92b139763
Author: Derek Buitenhuis <derek.buitenhuis@gmail.com>
Date:   Sun Nov 6 12:20:51 2011 -0500

Fix vesa's VBE PanelID interpretation

xserver's VESA driver's VBE (Vesa BIOS Extensions) code
includes a PanelID probe, which can get a monitor's native
resolution. From this, using CVT formulas, it derives
horizontal sync rate and a vertical refresh rate ranges.

It however, only derives the upper bounds of the ranges, and
the lower bounds cannot de derived. By default, they are set
to hardcoded constants which represent the lowest supported
resolution: 640x480. The constants in vbe.c however, were
not actually derived from forulas, but carried over from
other code from the bad old days, and are not relevant
to flat panel displays. This caused, for example, EEEPC701's
panel, with a native resolution of 800x480, to end up with
a upper bound of the horizontal sync rate that was lower
than the hardcoded lower bound, which of course broke things.
These numbers have been rederived using both my own CVT tool based on xf86CVTMode(), and using the provided 'cvt' tool that comes with xserver.

Signed-off-by: Derek Buitenhuis <derek.buitenhuis@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c643c2b7bf480f5c27ff8606bda087f8bf3b154
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Nov 1 12:17:50 2011 +1000

xfree86: duplicate name and driver from pInfo for NewInputDeviceRequest

xorg.conf devices had the name and driver set in the DDX's InputInfoPtr list but not in the option list for those devices. That information was lost when passing the options into NewInputDeviceRequest. NIDR then refused to start the devices.

Introduced in xorg-server-1.11.0-250-ge4cd24e

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: James Cloos <cloos@jhcloos.com>

commit 9cc44b955b27de33348d6a20bebe9704930ee18e
Author: Rui Matos <tiagomatos@gmail.com>
Date: Tue Nov 1 21:32:36 2011 +0000

randr: Make the RRConstrainCursorHarder logic the same as miPointerSetPosition

The constraining logic in RRConstrainCursorHarder allows the cursor to reach crtc positions of x = width and y = height while the constraining code in miPointerSetPosition only allows it to reach x = width - 1 and y = height - 1 for the analogous screen case.

This patch makes the former's logic equivalent to the latter's which allows applications to benefit from Fitts's law. E.g. a maximized application adjacent to a crtc border wouldn't get pointer events if the user moved the pointer all the way until it's contained.

Signed-off-by: Rui Matos <tiagomatos@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f47f6b6a53d414f28374391964c2930427d28f46
Author: James Simmons <jsimmons@infradead.org>
Date: Thu Nov 3 13:20:18 2011 +0000
don't map cursors in sw cursor mode

commit d4eebe5217a89de196c1933e1fe4d37e22d59c6b
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Nov 3 13:18:46 2011 +0000

configure: don't require xvmc.

Not needed in here

commit 548c6fe044068ffba9b5306dc6b11f2ba22782a4
Merge: 3881b0bf1c ffe8ec866db
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 2 21:35:31 2011 -0700

Merge remote-tracking branch 'journey/master'

commit 3881b0bf1ce11a62473650bdf6ee01a1762f6f91
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Tue Nov 1 07:17:07 2011 -0400

mi: remove deprecated miPointerAbsoluteCursor from design doc

Function was removed from the code by commit f5409aa026

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d91aa0e6601bdf3e2cfa57b3412ab14ac486edc4
Merge: 8df3a9ca5a 401150d7dc
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 2 21:20:07 2011 -0700

Merge remote-tracking branch 'whot/two-screen-coordinates'

commit 8df3a9ca5abbd56eb2013fa65250d21a8f18865b
Merge: 8329afa59d ef895484c8
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 2 21:18:16 2011 -0700

Merge remote-tracking branch 'koba/reviewed'

commit ffe8ec86db2655b2c83e5ae6152198140c855ac
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sat Oct 8 15:05:22 2011 +0100

hw/xwin: Fix a typo in ddraw.h
Fix a (fortunately benign) typo in ddraw.h

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit 48fda3c52b41157313b7fd56d9f3fa3ad4166ed7
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Feb 18 20:37:00 2010 -0600

hw/xwin: Revert "Fix bug #5735, Serious flaw in CygwinX clipboard"

This commit wreaks havoc with other programs which manage the clipboard, such as MS Office Clipboard or Win32 VNC viewers:

http://sourceware.org/bugzilla/show_bug.cgi?id=9910

This reverts commit 70ddd0f39d5118db72a1a4e473cbfb502f1ed9ec.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 3ead1d810b0e157078db39712e02ea6dc85216d8
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sun Jul 3 19:10:52 2011 +0100

hw/xwin: Stop pretending we work on NT4

We already link directly to some functions not available in NT4, so stop pretending we will work on NT4 and link directly to EnumDisplayMonitors() and SHGetFolderPath()

Also remove mentions of NT4 & Win95 from error messages

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f6529a05a2f087cb57a7fe84f226fef3780728d0
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sat Oct 8 14:39:07 2011 +0100

Xming: Always remove temporary file used when invoking xkbcomp on Win32

When built for native Win32, pipe() & fork() aren't available, so we use a temporary file and system() to invoke xkbcomp

Ensure the temporary file is always removed. It was only being removed
on most errors, not on success :S

Also fix a couple of warnings which occur when built with WIN32 defined

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit ee1985386700288af1a8b1789dcad0d7d9e97393
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Sat Apr 16 23:28:45 2011 +0100

hw/xwin: Link directly to TrackMouseEvent()

TrackMouseEvent has existed in user32 since at least NT4, so
don't bother with jumping through all the ancient compatibility hoops
of finding if _TrackMouseEvent() exists in comctl32 so it can check
if TrackMouseEvent() exists in user32 to see if it needs to emulate
it...

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e26fab1efa6895256ac0ed4d5b054a88ad18077
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 23 04:45:37 2010 -0500

Cygwin/X: Make default DPI match native DPI

Make the default DPI match the current Windows DPI setting. If that
setting can't be retrieved, change the fallback DPI value from 75 dpi
to 96 dpi.

Mark the application as dpiAware in the manifest, which prevents
dpi virtualization for high (>96) dpi values on Vista and later.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8329afa59dd5ea3a3adf7adebdb2111a9becbb126b
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Oct 31 15:01:12 2011 -0700

dix: Reinstate GetImage window size check

Commit 587c3a2d1961834558193e8e14e8e381a077a253 fixed DoGetImage to
check windows against their backing drawables, rather than against the
screen dimensions, to prevent reading outside the bounds of redirected
windows' backing pixmaps (see bug #22804). Unfortunately, while making that change I also removed the check that the rectangle is contained within the bounds of the source window, which is a violation of the specification:

If the drawable is a window, the window must be viewable, and it must be the case that, if there were no inferiors or overlapping windows, the specified rectangle of the window would be fully visible on the screen *and wholly contained within the outside edges of the window* (or a Match error results). Note that the borders of the window can be included and read with this request.

(emphasis mine)

Reinstate the window dimension check, to return BadMatch if the GetImage request falls outside the bounds of the window.

Fixes X Test Suite test XGetImage-15:

400|0 15 1 11:05:41|IC Start
200|0 15 11:05:41|TP Start
520|0 15 00005146 1 |VSW5TESTSUITE PURPOSE 15
520|0 15 00005146 1 2|Assertion XGetImage-15.(A)
520|0 15 00005146 1 3|When the drawable is a window and the window is viewable
520|0 15 00005146 1 4|and it is not the case that given there were no inferiors or overlapping windows the specified rectangle of the window
520|0 15 00005146 1 5|would be fully visible on the screen and wholly contained
520|0 15 00005146 1 6|within the outside edges of the window, then a BadMatch
520|0 15 00005146 1 7|error occurs.
520|0 15 00005146 1 8|METH: Create window which is not fully visible on the screen.
520|0 15 00005146 1 9|METH: Create window which is fully visible on the screen.
520|0 15 00005146 1 10|METH: Call XMapWindow to make sure the window is viewable.
520|0 15 00005146 1 11|METH: Call XGetImage with rectangle extending beyond edge of screen.
520|0 15 00005146 1 12|METH: Verify XGetImage return value is null.
520|0 15 00005146 1 13|METH: Verify that BadMatch error occurred.
520|0 15 00005146 1 14|METH: Create window which is fully visible on the screen.
520|0 15 00005146 1 15|METH: Create window which is fully visible on the screen.
520|0 15 00005146 1 16|METH: Call XMapWindow to make sure the window is viewable.
520|0 15 00005146 1 17|METH: Call XGetImage with rectangle extending beyond edge of window.
520|0 15 00005146 1 18|METH: Verify XGetImage return value is null.
520|0 15 00005146 1 19|METH: Verify that BadMatch error occurred.
520|0 15 00005146 1 20|REPORT: Got Success, Expecting BadMatch
520|0 15 00005146 1 21|REPORT: Null image not returned.
220|0 15 1 11:05:41|FAIL

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 132545ff576cc69ed63f5a08127151fe550de4c3
Merge: d0c6732a99 d7c44a7e97
Author: Keith Packard <keithp@keithp.com>
Date:  Sun Oct 30 16:57:58 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit d7c44a7e97f60449bef263413ad3b20f19b1de95
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 24 12:00:32 2011 +1000

dix: block signals when closing all devices

When closing down all devices, we manually unset master for all attached
devices, but the device's sprite info still points to the master's sprite
info. This leaves us a window where the master is freed already but the
device isn't yet. A signal during that window causes dereference of the
already freed spriteInfo in miqeEnqueue's EnqueueScreen macro.

Simply block signals when removing all devices. It's not like we're really
worrying about high-responsive input at this stage.

https://bugzilla.redhat.com/show_bug.cgi?id=737031

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 820d9040f50a8440741b3aefbc069a3ad81e824e
Author: Servaas Vandenberghe <vdb@picaros.org>
Date:   Wed Aug 31 07:06:49 2011 +0200

xfree86: fix potential buffer overflow

The patch below fixes a potential buffer overflow in xf86addComment().
This occurs if  curlen > 0 && eol_seen == 0 && iscomment == 0 , as
follows from the code:

char *xf86addComment(char *cur, char *add)

<...

len = strlen(add);
endnewline = add[len - 1] == 'n';
len += 1 + iscomment + (!hasnewline) + (!endnewline) + eol_seen;

if ((str = realloc(cur, len + curlen)) == NULL)
    return cur;

cur = str;
if (eol_seen || (curlen && !hasnewline))
    cur[curlen++] = 'n';
if (!iscomment)
    cur[curlen++] = '#';
strcpy(cur + curlen, add);
if (!endnewline)
    strcat(cur, "\n");

Signed-off-by: Servaas Vandenberghe <vdb@picaros.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

[whot: added buffer overflow test case]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 63e87b8639eb8e0b4e32e5d3a09099d31a03bbcd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 25 11:49:26 2011 +1000

    xfree86: reduce calls to input_option_get_key/value

    No functional changes.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit d0c6732a99c9a7e40752b9ba7898a01c325103fa
Author: Anssi Hannula <anssi.hannula@iki.fi>
Date:   Wed Apr 20 14:34:52 2011 +0300

    xfree86: add nouveau as the first automatic driver for NVIDIA hardware

    Add nouveau as the first driver on linux for NVIDIA hardware when
    driver autoconfiguration is done, as it is more capable than nv.
    nv is also kept in the list as it is more widely supported and because
    some old cards are not supported by nouveau.

    Signed-off-by: Anssi Hannula <anssi.hannula@iki.fi>
    Reviewed-by: Daniel Stone <daniel@fooishbar.org>
    Reviewed-by: Cyril Brulebois <kibi@debian.org>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit ef895484c8a43d447d9d3ea7d4226936cc5f92cc
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date:   Tue Oct 4 10:46:00 2011 +0600
bsd: alpha_video: Remove unused variables

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit fea7c7a8c070ec17ec03e4eb193834b6ca72fb72
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Mon Oct 3 23:03:31 2011 +0600

bsd: alpha_video: Simplify #include

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 93a3a28f2c1e95ea7fae6cf1c2fb50b30eae9c33
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Tue Oct 4 00:45:09 2011 +0600

bsd: alpha_video: Function sethae() need only for FreeBSD

Return value sethae() is becoming void because no caller used it. Also old
msb_set static checked by each caller is replaced by the p.hae static checked
in sethae() when it's called.

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 05b41e2dc60a0aefc685a33260e5d8e09580908b
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Tue Oct 4 17:20:13 2011 +0600

Move check definition MAP_FAILED in xf86_OSlib.h

Also remove odd definition MAP_FAILED.

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit af56e502f5ddf1d2d495b633734cadcb023b7c36
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Tue Oct 4 16:49:22 2011 +0600

Remove odd definition DEV_MEM

DEV_MEM defined in xf86_OSlib.h

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Remove BSDi support

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Remove unused VT_SYSREQ_DEFAULT

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Fix position _X_EXPORT

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

bsd: Remove odd message about -sharevts

This is missing in commit ‘xfree86: move -novtswitch & -sharevts argument handling up to common layer’

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

test: fix two more failing FP3232 tests
And put a comment in to explain why we're testing for a frac between .3 and .6. We can't directly compare the frac since the floating/fixed point conversion loses precision.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 286fa9bf9b4ffb0f9dbd3f1ca6be44dcb27ee9318
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Oct 25 23:53:43 2011 -0700

XWin: windowswm: Correct byte swapping in event notifications

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronencode.org.uk>

commit dc054f5c58645b404f0f949dbd456e5267c647
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Oct 25 23:49:33 2011 -0700

XQuartz: appledri: Correct byte swapping in event notifications

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d5fee2b638fabe8b3e31a24e57d5c2a232d0893
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Oct 25 23:48:16 2011 -0700

XQuartz: applewm: Correct byte swapping in event notifications

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5701ab4a441e1b13ab0d0851b0d71b82d12112854
Merge: 7d50211ab5 a41214bc9a
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 24 22:09:00 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit a41214b9a0f326c6de129e4a6382efb88b826862
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 25 12:57:07 2011 +1000

kdrive: check for null memory, fix OOB

If key/value allocation failed, don't bother adding another InputOption. And make sure the memory allocated is large enough for the trailing \0
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ffe20acedb34811eb52f8fc540ba6a9f33af
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 20 16:42:20 2011 +1000

Use new FP1616/FP3232 conversion functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7500d841f4c709ae0edc6420332096d3b9ef9fcc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 20 16:49:28 2011 +1000

test: fix test with new double -> fp3232 conversion functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 4bb5d8fae4f9a70f12591315f0b267a2ea826a0c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 19 13:17:51 2011 +1000

Xi: send DeviceChangedEvents when the scroll valuators change value

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 1fafe6c12fb5d4c19f4eac3df768517c9132cc88
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 19 12:28:37 2011 +1000

dix: accept a NULL master for CreateClassesChangedEvent

If a floating device changes, the master is NULL but we must still create a
DCE for it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit d77dec6971e4a0b306c8db54d627908d7972cb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 19 12:11:16 2011 +1000
Xi: ensure the deviceid for DeviceChangedEvents is always the right one

If we're sending the event for a given device, make sure the deviceid is that of the device. This allows callers to use the same DCE for slave and master without having to fiddle the DCE's internal fields.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit e9dee21fa3213bfe87b2b728a38eb41d3ba0e664
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 18 17:47:59 2011 +1000

dix: pass the flags into the CreateClassesChangedEvent

No effective functional changes, prep work for future patches.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit fcdd2587a17437b643b4592aa7f65d11c05a4cd8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 18 17:41:29 2011 +1000

dix: drop unused argument from XISendDeviceChangedEvent

Instead of device and master (and just using master), drop the master argument and let the callers pass in the device the event is to be sent for.

No effective functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8473e441b0f832775153281bc3df5e2d4feb2b36
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 18 17:11:27 2011 +1000

dix: add ScrollInfo to DeviceChangedEvents

3304bbf9b4ed63f1a47410a5320a136420ba2c6 added smooth scrolling support for pointer events and for XIQueryDevice but didn't add the matching parts to XIDeviceChangedEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit e3f6a76dd480717eae4b17ad8e2ff707de2ffe4c
Author: Andreas Wettstein <wettstein509@solnet.ch>
Date: Thu Aug 11 16:33:33 2011 +1000

  xkb: Support noLock and noUnlock flags for LockMods

  These flags are required by the XKB spec section 6.3.

  Signed-off-by: Andreas Wettstein <wettstein509@solnet.ch>
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f33593dc087d367d899d1cb6e6e30b282d922e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 21 09:09:55 2011 +1000

  xfree86 doc: replace driver "keyboard" with "kbd"

  We've deprecated keyboard a long time ago

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit e4cd24e717ef1059804b3f6bb488310b708cd56a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 5 14:48:02 2011 +1000

  xfree86: use NewInputDeviceRequest for xorg.conf devices too

  Only use one init path for input devices - through NIDR.

  This requires that inp_driver and inp_identifier from the
  XF86ConfInputRec are copied over into the options for NIDR to see them.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 1ecc427a39d41e723912492b846512fd0ad9af2d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 10 14:37:41 2011 +1000

  dix: move #if statement to stop compiler warning

  ptrveloc.c: In function 'QueryTrackers':
  ptrveloc.c:598:34: warning: variable 'used_offset' set but not used
  [-Wunused-but-set-variable]

  used_offset is used, but only in the debugging code. Move the #if statement
to ignore that warning.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f9067c1dd8ce9058eb48a20dfae52bc8cf3a1e55
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 5 14:05:58 2011 +1000

xfree86: Fix a comment, the old function doesn't exist anymore

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit aeab26e9e1751e1e3514798fa53e9bd604b0d254
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 10 15:58:34 2011 +1000

xfree86: use xf86AddNewOption instead of xf86addNewOption

The former strdups for us. If the strdup fails we miss out on the
CorePointer option (default on anyway) and we're likely to fall over soon
anyway, so let's pretend this is the same behaviour.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c39c8d34282b82d73c3c69a16cf0c2816256d85b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 10 14:38:58 2011 +1000

input: switch InputOption to use XF86OptionRec storage.

Use the same struct for both InputOption and XF86OptionRec so we don't need
to convert to and fro the two in the config backends.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 16ac78a53c1edeae183db8672104587b306cfe13
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 25 11:40:58 2011 +1000

kdrive: switch to new InputOption API.
Bug 38420: Xvfb crashes in miInitVisuals() when started with depth=2

https://bugs.freedesktop.org/show_bug.cgi?id=38420

Exit with fatal error message, not segfault.

xf86Crtc: handle no outputs with no modes harder.

If you started an X server with no connected outputs, we pick a default 1024x768 mode, however if you then ran an xvidmode using app against that server it would segfault the server due to not finding any valid modes.

This was due to the no output mode set code, only adding the modes to the scrn->modes once, when something called randr 1.2 xf86SetScrnInfoModes would get called and remove all the modes and we'd end up with 0.

This change fixes xf86SetScrnInfoModes to always report a scrn mode of at least 1024x768, and pushes the initial configuration to just call it instead of setting up the mode itself.

Fixes: https://bugzilla.redhat.com/show_bug.cgi?id=746926

I've seen other bugs like this on other distros so it might also actually fix them.
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fb55f8f790f69f30b0ab186f48c337bde9d41f5ff
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Oct 24 16:45:36 2011 -0700

XQuartz: Fix the filename of our log file

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1c8bda798b4480bab0f0da6f531e4770c7a1f771
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Oct 21 10:27:16 2011 -0700

XQuartz: appledri: Allow byte swapped requests

Even though it's only valid when local, it is possible for a local client and the server to not match endianness, such as when running a ppc application under Rosetta.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 14205ade0c750191bf43fba8bd55c65dba912cf4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Oct 20 22:34:44 2011 -0700

XQuartz: appledri: Fix byte swapping in replies

Even though it's only valid when local, it is possible for a local client and the server to not match endianness, such as when running a ppc application under Rosetta.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 2ba0ac202ad64eb4a555715980ba538de19c9fd7
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Oct 20 22:23:07 2011 -0700

XQuartz: appledri: Set the correct reply length for XAppleDRICreatePixmap

http://xquartz.macosforge.org/trac/ticket/508

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit e4f257748b51d041275a64b8be408729ea05fbb5
XQuartz: appledri: Change whitespace in appledristr.h to match mesa

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 83fef4235db86343477b4ec9858c6ba35e1aa7d9
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 16 02:12:38 2011 -0700

Xnest: Match the host's keymap

This was a regression.

Introduced by: 08363c5830bdea34012dcd954b45ccf7da2b3a47e and
32db27a7f8c78d303c2840ca7b8195e96d10be9210
Masked by: 1e69fd4a60147287b31e53bcf61543f017bb82c8

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 4597ac6fe05803233860080da2576733acc49757
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Oct 17 23:45:32 2011 -0700

test: Add unit test for mieq

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ad450d76e468c624606c4f0e71e131f7f4555c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Oct 17 21:16:37 2011 -0700

mieg: Reserve some space in EQ for release and other special events

The last 64 events in the event queue will be reserved for release
events in order to help return the system to a cleaner state when
it comes back from a soft wedge.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d153f25be678acf500236ae422b33d17e6cb7a6
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Oct 15 22:51:30 2011 -0700
mieq: Provide better adaptability and diagnostics during mieq overflow

This patch changes from a static length event queue (512) to one that starts at 128 and grows to 4096 as it overflows, logging each time it grows.

This change also allows for multiple backtraces to be printed when the server is wedged rather than just one. This increased sampling should help identify the true hog in cases where one backtrace might be insufficient.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09eaa1f6f19f9a85a3cb74a18ac898162db451df
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Oct 30 14:55:06 2010 -0700

configure.ac: Add -fno-strict-aliasing to CFLAGS

This should force the server to have -fno-strict-aliasing even once it is removed from the warning flags.

See: https://bugs.freedesktop.org/show_bug.cgi?id=31238

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit a046d649e4c7e4d28f350382dcd293e92a59aad
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Oct 5 15:02:52 2011 -0700

test: Silence some debug lines from the input unit tests

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8db554d2d830953de3c6d0cbf58e23d53d89009f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Oct 20 14:28:56 2011 -0700

Xnest: Fix DestroyNotify handler

This partially reverts the unwanted changes that crept into
c13a48e74ec89eafa9b529a87253af631ef02f2e2

Reported-by: Julien Cristau <jcristau@debian.org>
composite: Update borderClip in compAllocPixmap()

Previously the parent constrained borderClip was copied over when compRedirectWindow() is called. That is insufficient eg. in case the window was already redirected, but not yet realized. So copy the borderClip over in compAllocPixmap() instead.

Example:
Window 1 is below an automatically redirect window 2. Window 2 is unmapped and moved outside the extents of window 1. Window 2 is then mapped again, and MarkOverlappedWindows() uses the up to date borderSize of window 2 to mark windows, which leaves window 1 unmarked. Then exposures are calculated using the stale borderClip of window 2, which causes the window below window 2, to be exposed through an apparent hole in window 1.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=22566

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Reviewed-by: Keith Packard <keithp@keithp.com>
Spaces or tabs do not affect the text output layout.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xorg.conf.man: fix 382: warning: missing `)` (got `R`) #35054

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

crtc: match full preferred modes if possible when choosing an initial config

It's fairly common to have multiple, identical monitors plugged in. In that case, it's preferable to run the monitor's preferred mode on each output, rather than just matching the width & height and end up with different timings or refresh rates.

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

render: export TriStrip and TriFan to the drivers

Rather than perform an intermediate copy and expand the strip and the
fan into a triangle list (thereby tripling the number of edges that the
driver needs to process), allow the backend to hook directly into the
appropriate Composite function.

In order to extend the PictureScreen, without needlessly bumping the
ABI, we move the existing copy implementations to mipict.c and assign
those by default. To notify the ddx that the new entry points are
available, we introduce PICTURE_SCREEN_VERSION.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 9b26e66bc8d2cdf5bac3025796855cc059f72358f
Author: Luc Verhaegen <libv@skynet.be>
Date:   Tue Aug 23 15:19:59 2011 -0700

randr: stop clients from deleting immutable output properties

Immutable in randr means that clients are not able to alter the
property itself, they are only allowed to alter the property value.
This logically means that the property then should not be deleted
by the client either.

Signed-off-by: Luc Verhaegen <libv@skynet.be>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit c8413362049cee8c30e0a9d67f789ebebe8e71f
Merge: 64d2d1bef1 b67581cf82
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 18 07:45:24 2011 -0700

Merge remote-tracking branch 'herrb/master'

commit b67581cf825940fdd52bf2e0af4330e695d724a4
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Mon Oct 17 22:27:35 2011 +0200

Fix CVE-2011-4029: File permission change vulnerability.

Use fchmod() to change permissions of the lock file instead
of chmod(), thus avoid the race that can be exploited to set
a symbolic link to any file or directory in the system.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Fix CVE-2011-4028: File disclosure vulnerability.

use O_NOFOLLOW to open the existing lock file, so symbolic links aren't followed, thus avoid revealing if it point to an existing file.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Do not uselessly reload modules in DuplicateModule

The function does not initialize the module so it has no business loading it. If some user of DuplicateModule expects a module actually loaded they should use LoadModule.

Signed-off-by: Michal Suchanek <hramrach@centrum.cz>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Use UnloadModuleOrDriver for UnloadSubModule.

Signed-off-by: Michal Suchanek <hramrach@centrum.cz>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Unload submodules.

Signed-off-by: Michal Suchanek <hramrach@centrum.cz>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Document -background none option

Document option introduced in commit 8976e97.

Signed-off-by: Michal Suchanek <hramrach@centrum.cz>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 323869f3298cbbfe864af9404a8aed11bf7995d79
Author: Tomáš Trnka <tomastrnka@gmx.com>
Date:   Tue Oct 11 09:11:18 2011 +0200

Fix drain_console unregistration

Bug introduced by 9dca441670d261a9a9fb6108960ed48f3d58fb7f
xfree86: add a hook to replace the new console handler.

custom_handler was not being set, making the server eat up CPU spinning
in WaitForSomething selecting consoleFd over and over again, every time
trying to unregister drain_console without success due to
custom_handler being NULL.

Let's just fix the unregistration in xf86SetConsoleHandler() and use that.

But wait, there could be a catch: If some driver replaced the handler using
xf86SetConsoleHandler(), the unregistration in xf86CloseConsole will unregister
that one. I don't understand Xorg well enough to know whether this poses a
problem (could mess up driver deinit somehow or something like that). As it is,
xf86SetConsoleHandler() doesn't offer any way to prevent this (i.e. check which
handler is currently registered).

I had been using it for two days on my machine that previously hit 100% CPU
several times a day. That has now gone away without any new problems appearing.

Signed-off-by: Tomas Trnka <tomastrnka@gmx.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2cb63180fa9b54f763e7e92e433943e3e73741f3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 5 12:08:31 2011 +1000

dix: mark motion events as emulated if we're scrolling from button press

The protocol requires that the emulated event is marked as such. So if a
driver with smooth scrolling axis sends legacy button events, the motion
event must be marked as emulated.
Pass the real type to emulate_scroll_button_events and create the events accordingly. For real button press or release events, only that event must be generated since a release event will follow or a press event has already occurred, respectively. (This fixes a bug where we'd get two release events for each legacy button event)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 82c60232c07f50774ccc0198950f64c9338057a5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 30 10:59:47 2011 +1000

dix: add valuator_mask_fetch_double()

Using this call simplifies callers that don't know if the mask bit is set.

Before:
if (valuator_mask_isset(mask, valnum))
value = valuator_mask_get_double(mask, valnum));
else
value = someothervalue;

Now:
if (!valuator_mask_fetch_double(mask, valnum, &value))
value = someothervalue;

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 64d2d1bef14c7ec7156bb3aae64eff69f9f7be54
Merge: fb84be47db 679c84bce9
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 17 14:36:34 2011 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit fb84be47db7cdafe406792c08e34670e8e0cbda9
Merge: fae7ed62ad 32b289e46c
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 17 13:50:25 2011 -0700

Merge remote-tracking branch 'whot/next'

commit 679c84bce9b03c17aa35fa69058e7e46267dbc7b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Sep 24 00:01:11 2011 -0700
Bump ABI_VIDEODRV_VERSION to 12

The ABI changed in the previous series of changes, so bump the ABI version for the next release.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a89cdcee4ebab6bbfa9ace94e1988a94cfb67087
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 9 02:59:12 2011 -0700

taxfree86: Deprecate xf86MapVidMem and friends

Drivers should transition over to using libpciaccess's instead.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 41d903918a5721e53ed694880eab44170f9717cc
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Sep 14 13:45:18 2011 -0500

xorg-server.pc.in: Remove libpciaccess and pixman-1 from Requires

Every module building against xorg-server does not *Require* pixman nor libpciaccess. If such modules need pixman or pciaccess, they should be depending on them directly rather than inheriting a dependency from xorg-server. To do this, they should use PKG_CHECK_MODULES in configure.ac to check for pixman-1 or pciaccess and include the appropriate _LIBS variable to the appropriate _LDFLAGS variable in Makefile.am

This also moves pixman-1 to Requires.private, so CPPFLAGS is set right to to satisfy include dependencies but avoid linking needlessly.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 40d338e9f723c4b3d63516aa62fdced4d8af75e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Sep 14 10:37:38 2011 -0500

darwin: configure: Force some irrelevant options to off on darwin

This removes the need to pass the following to configure on darwin:
--disable-pciaccess --disable-int10-module --disable-vbe --disable-vgahw --disable-libdrm

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
xfree86: Link modules with -module

This makes a difference on darwin (and apparently nowhere else)

https://www.gnu.org/s/libtool/manual/libtool.html#Modules-for-libltdl

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit f7edc0a2af83764910ff89514a046dc5ce2ff9e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Sep 14 12:14:56 2011 -0500

xfree86: fbdevhw: Remove unused include of pciaccess.h

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 6817050f3196d460ba03a62da23fb46ffd5a0f97
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Tue Jun 1 13:05:47 2010 +0300

configure: wrap PCI code with macro and set it at build time

--disable-pciaccess, used together with --disable-module-int10, can be used to disable all pci code inside the server.

Note that XSERVER_LIBPCIACCESS was previously used only in the driver side and now it defines also whether the library is used inside the server. Also, XORG_BUS_PCI automake variable is introduced to track PCI code needs.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5c12399b6c3a8def2d1bdde1d5d4d8d9e31fd84
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon May 31 19:27:07 2010 +0300

configure: make PCI configuration more sane
No semantical changes. Just moved code around, grouping PCI related stuff in a single chunk.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a319e9e697faa0faa241e0e9ba0b4c41efdcd8f
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon May 31 18:50:50 2010 +0300

configure: change PCI function checking by a meaningful version of the library

People that don't want VGA arbiter active can go to the library and enable the stubs there.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit b3ca84430d98f5338b9b1bc817c3656eb71c7f1
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Sep 13 15:32:16 2011 -0500

xfree86: Work around issue where ar may be told to make an archive with no contents

Automake:

"Be careful when selecting library components conditionally. Because building an empty library is not portable, you should ensure that any library always contains at least one object."

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit e8bafb9d8c7d7a7077e163ecfac6174356989bbf
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Sep 13 15:38:45 2011 -0500

xfree86: Add stubs for os-support to help adding new architecture support

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
commit 342f3eac8460fc48cfad1f1d7be939d671e6e1cd
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 10 19:00:02 2011 -0400

int10: Port internal users off xf86MapVidMem

This API is apparently semi-deprecated even by XFree86 standards, and there are only four drivers left using it. Let's start chopping it off.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7757b8092474c4f4ec04f4ebd1272236416154c3
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 10 17:34:23 2011 -0400

pci: Remove xf86MapDomainMemory

This is slightly draconian, but that API is just awful. In all but one case in the callers it's used to get a map of some legacy VGA memory, and it would be cleaner for the caller to just call pci_device_map_legacy.

The sole exception is in the vesa driver, which uses it to avoid having to look up which device the BAR belongs to. That's similarly trivial to fix.

Having done that, Linux's PCI layer is now very small indeed.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6f5041d0b8e11e761d6403f1f8f8bb2ba2a9626d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 10 18:04:10 2011 -0400

int10: Use pciaccess rom fetch for !PC machines

... instead of rolling our own, badly.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
commit 492ed3e53b0ee6746bd4b597978fd866d4a89ef6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 10 16:41:08 2011 -0400

pci: Deprecate the PCITAG type

It is kept around to help drivers through the API transition and will be removed at some point in the future.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a248fa3a33cb015942386d52b7faa8558e592a51
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 7 17:20:15 2011 -0500

xfree86: Remove unused bios_devmem.c

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit aa0bfb0f133481c57762012e8e30c05ffa151423
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 7 16:57:15 2011 -0500

linux: Remove ia64 domain I/O support code

pciaccess handles this now.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 95b6935637628ffa511f39004e90c75aa75141c4
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 16 16:09:56 2009 -0400

linux: Remove pre-2.6 PCI interface support

If you haven't ported 2.6 to your architecture in the intervening seven years, you can keep running older servers.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 769f583783d17f7fa3398bc8529f61e0f08b35530
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 16 14:05:54 2009 -0400

bus: remove some dead struct fields

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit dd72b3c1f1df57215329aa5ba9e9bb9ad0a65086
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 20 11:42:11 2010 -0400

linux: Use pci_device_get_parent_bridge instead of open-coding it

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 858fbbb40d7c69540cd1f5315cebf811c6e7b3f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 16 13:33:04 2011 -0400

pci: Port xf86MapLegacyIO to pciaccess

Per-domain I/O is now something drivers must manually request, and must
keep track of within their own state rather than in the ScrnInfoRec.
It's not really possible to split that into two steps without an
additional intermediate ABI break, so don't even try. Drivers that want
source compatibility should ifdef on the presence of xf86UnmapLegacyIO.

As a fringe benefit, domain-aware I/O is now OS-independent, relying
only on support in pciaccess. Simplify OS PCI setup to reflect this.

The IOADDRESS type is kept around to help drivers through the API
transition and will be removed at some point in the future.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
commit 6d9efdce0d06df6b85f0681bea306c0b1e851502
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 20 18:12:29 2011 -0400

vgahw: Port to pciaccess IO space routines

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 4bd6579188e718654c35f95623fd4772f9e0ef06
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 22 13:45:57 2011 -0400

vgahw: Don't default to standard (port space) access routines

In fact, don't default to anything; drivers must explicitly say which kind they want, and they are strongly encouraged to do MMIO if possible. This is an ABI change in that drivers that don't will crash, but drivers that are explicit will work with both old and new servers.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 30fb334d218f8c1d809f88054b9fe8f5f556bb62
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Sep 22 13:44:53 2011 -0400

vgahw: Remove IO domain setup

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 51a5558beb71bd6ff9352ef4f43269a8a22317d
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Sep 18 08:24:19 2010 -0400

int10: Port to pciaccess' legacy IO API

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
xfree86: Move xf86GetClocks to vgahw

This is really a vga-specific hack anyway. The only modern driver that uses it is trident, but it's already loaded vgahw by the time it would call xf86GetClocks.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Commit 1433103a49b97e356da0f20aa65046cdb2f5ece6
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Oct 12 09:59:38 2011 +0100

test: fix input test

The test was memsetting the wrong thing, this fixes make check in my tinderbox.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

Commit f9c6903d4a90b59c328f4fa05d2be9e0ce1c5189
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Oct 5 15:02:52 2011 -0700
dix: add utility functions for double to/fro FP1616/FP3232 conversion

Co-authored-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

Commit 401150d7dcad08be7c1f07e076f810cd61e2105c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Oct 4 11:41:17 2011 +1000

input: change pointer screen crossing behaviour for multiple ScreenRecs

miPointerSetPosition traditionally took coordinates on a per-screen basis,
triggers a screen switch when these went out-of-bounds. For absolute devices, this prevented screen crossing in the negative x/y direction.

This patch changes the event generation patch to handle screen coordinates in a desktop range (i.e. all screens together). Screen switches are triggered when these coordinates are not on the current screen.

This unifies the pointer behaviour of single ScreenRec multihead and multiple ScreenRecs multihead in that the cursor by default moves about the whole screen rather than be confined to one single screen. The transformation matrix may then be used to actually confine the cursor to the screen again.

Note: fill_pointer_events has to deal with several different coordinate systems. Make sure you read the comment before trying to understand the code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6bd0eff40f0ae1c5d8fed28751851eb5b932d131b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Oct 12 15:53:57 2011 +1000

dix: extend rescaleValuatorAxis to take a minimum default

Allow rescaling to non-zero based axis ranges as default (for when screen offsets are non-zero). Currently unused.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8bebb4b4896d8b6ba3309b5b28fcee883bb9f8a96
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 7 14:04:10 2011 +1000

Store desktop dimensions in screenInfo.

For Zaphod mode screen crossing handling we need to know the size of all screens together (i.e. the whole desktop size). Store that in the screenInfo to have it readily available in events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9cbfa4739a51e4cc6b8094833928bf8678f63876
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 6 15:55:19 2011 +1000

xfree86: remove xf86XInputSetScreen

Keeping track of which screen the pointer within the input driver is
obsolete now. To bind to a screen, use the transformation matrix instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 09dbfcb0ad7b6c8bac94502f2801e82f2a2ef435
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Oct 11 17:37:44 2011 -0700

os: Remove Error()

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit db30615cbcb3b872475e7d40eee8cdda5b723078
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Oct 10 12:16:31 2011 -0700

Xephyr: Remove socket and its lock file on exit

https://bugs.freedesktop.org/show_bug.cgi?id=11484

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit c13a48e74e89eafa9b529a87253a631ef02f2e2
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Oct 10 12:09:39 2011 -0700

Xnest: Remove socket and its lock file on exit

https://bugs.freedesktop.org/show_bug.cgi?id=11484

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 32b289e46cc2d5ec32ff0c4ba5bbbf602af388
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 3 13:58:01 2011 +1000

dix: move MD last.valuator update into fill_pointer_events

Don't update the MD where it's not expected, positionSprite should really just do that - position the sprite.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
mi: switch miPointerSetPosition to take doubles

Don't switch between doubles and ints in the caller, instead take doubles in miPointerSetPosition and do the conversion there. For full feature we should change everything down from here for doubles too.

Functional change: previously we'd restore the remainder regardless of screen switching/confine ment (despite what the comment said). Now, screen changing or cursor constraints will cause the remainder be clipped off. This should happen for cursor constraints but arguably not for screen crossing.

This also corrects a currently wrong comment about miPointerSetPosition's input coordinates.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 81cfe44b1ed0de84ad1941fe2ca74bebef3fc58d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Oct 3 12:49:49 2011 +1000

mi: return the screen from miPointerSetPosition

miPointerSetPosition may switch screens. Always return the screen the sprite is on instead of relying on callers to call miPointerGetScreen().

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 88dfe5366d9855e0ebf8bbff74967b793ede57d1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Oct 3 12:37:28 2011 +1000

dix: drop screen argument from positionSprite

We can just get this in the function, no effective functional changes.

Also return the screen to the caller. Though we don't use it yet, we will in a follow-up patch.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 967bc25da221a69c8fc390253465145ce534fcb9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 3 11:42:08 2011 +1000

dix: move screen- to device coordinate scaling to separate function

No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b059e06e19ac9417ceeb8be58c1c91b159291865
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 29 12:36:26 2011 +1000

dix: don't allow keyboard devices to submit motion or button events.

GPE unconditionally dereferences pDev->valuator if a mask is present. This
shouldn't really happen but if it does, don't crash, just ignore the events
with an error.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit bccff533184a051b614a26304ce77ad30bede5e0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 3 12:19:21 2011 +1000

dix: moveRelative modifies parameter in-place, say so.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b966362ccf0fe6fdd44f4d778d47e3677f55f11b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 3 12:18:20 2011 +1000

dix: rename moveAbsolute to clipAbsolute

Let's be honest about what it does.

moveRelative accumulates delta _and_ clips in some cases, so that one can
keep it's name.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 959d18c3765e447897a8cfdf358e9ee645df595d9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 30 10:50:51 2011 +1000

dix: fix missing verb in comment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 7074ec87bd81699df172619aea7a1ad4ec3c6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 30 10:47:00 2011 +1000

dix: document transformAbsolute

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f4ca19ce3ab91a9c8ad9de60f7de95466f21f589
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 29 10:56:44 2011 +1000

dix: copy the source ID into the RawEvent (#34240)

X.Org Bug 34240 <http://bugs.freedesktop.org/show_bug.cgi?id=34240>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8b29ad630163bb7ba74c74351f312aac02f049a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Oct 9 04:00:41 2011 -0700

loader: when creating sdksyms.c only include shmint.h if MITSHM is enabled #29109

https://bugs.freedesktop.org/show_bug.cgi?id=29109

When configured with --disable-mitshm the symbols declared in shmint.h do not exist. By guarding the include with '#ifdef MITSHM' these symbols are skipped when generating sdksyms.c with --disable-mitshm.
Signed-off-by: Michael Olbrich <m.olbrich@pengutronix.de>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit eabd5532fb589bd0550344ebd23c9765e591aadf
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 9 17:06:14 2011 -0700

xfree86: fix build with xv disabled

https://bugs.freedesktop.org/show_bug.cgi?id=29111

Signed-off-by: Julien Cristau <jcristau@debian.org>
Tested-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit c53380be804852045722203c993379813d97f6d7
Author: Ville Skyttä <ville.skytta@iki.fi>
Date:   Sun Mar 6 10:18:30 2011 +0200

Man page syntax and spelling fixes.

Signed-off-by: Ville Skyttä <ville.skytta@iki.fi>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 765ef69295ddc473640e96f1b4f54e0b8bf670e
Author: Max Schwarz <max.schwarz@online.de>
Date:   Tue Oct 4 22:06:08 2011 +0200

dix: fix inverted handling of legacy scroll button events

This bug led to inverted scrolling axes with drivers that support smooth
scrolling axes but send legacy button events.

Signed-off-by: Max Schwarz <Max@x-quadraht.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fae7ed62ad476114bd37b566202cf6b6546e0a1f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Oct 4 21:40:03 2011 -0700

XQuartz: pbproxy: Add missing AM_OBJCFLAGS

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e4cddf509e1729e8ff40354275b6545511ad2bd
Author: vdb@picaros.org <vdb@picaros.org>
Fix a rare memory leak

Signed-off-by: Servaas Vandenberghe <vdb@picaros.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 53611213396479abfdce0f7752681572e0d26d78
Author: Kirill Elagin <kirelagin@gmail.com>
Date: Tue Oct 4 23:02:20 2011 +0400

Fix server crash due to invalid images

See https://bugs.freedesktop.org/show_bug.cgi?id=39383

Signed-off-by: Kirill Elagin <kirelagin@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7a33c5b934382b5554f41ab1502514e91c9bc52e
Author: Alan Hourihane <alanh@vmware.com>
Date: Tue Oct 4 19:42:46 2011 -0700

dixfonts: Don't overwrite local c variable until new_closure is safely initialized.

Signed-off-by: Alan Hourihane <alanh@vmware.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 911e7368bf9c00d327e994a6f7a1d8df89b83c72
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 30 16:58:04 2011 -0400

Move pointOnScreen to inpututils.c

We need this from other files too.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit d0a7cd759d4741a1ae118d579c90704410cde244
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Sep 2 09:53:02 2011 +1000

dix: NewCurrentScreen must work on pointers where possible

When a screen switch is triggered by PointerKeys, the device for
NewCurrentScreen is the keyboard. Submitting pointer events for this
keyboard (without valuators) has no effect as GPE ignores the event.
Force the dequeuing through the XTest device attached to this device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 535b3789be3a7b43b5d9026e2b5150521d91e32b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Aug 31 14:15:02 2011 +1000

dix: warn about keyboard events with valuator masks

We don't actually handle the mask correctly. They're clipped and dropped into the event but that's about it. I don't think we did since 1.4, let's warn the user if this happens.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 9537afb13f2750d22350b7441570332ae60e4860
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 30 13:37:31 2011 +1000

dix: fill out root_x/y for keyboard events

Switching screens relies on rootx/y to be set to the correct value. Note: though we technically take a mask for GetKeyboardEvents we don't actually handle it properly to move the pointer as required (and generate motion events if needed).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 6378d0233d21088b6429755627b425385982c72
Merge: 6e965d8a18 98b230669f
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 3 13:56:06 2011 -0700

    Merge remote-tracking branch 'herrb/master'

commit 6e965d8a185087a55b2100b817e18f05b3ce5a00
Merge: 466e4b3f17 ac5881d6d0
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 3 13:47:49 2011 -0700

    Merge remote-tracking branch 'koba/reviewed'

commit 466e4b3f174bdd7a69a76eb06e6c3e3344b8adc2
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Sep 30 07:21:57 2011 -0400

Xserver-spec: use appropriate copyright markup

Use docbook copyright markup for year and holder.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 62940bf38f70e3d9fb80521de40d6361548a0ea5
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Sep 30 07:21:56 2011 -0400

Xserver-spec: re-order markup to follow output order

No content change, no layout/ordering change.
It is easier to find <title> at the top.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 365bc2f5b132ac76a1f827923a99a75b33b158ac
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Sep 30 07:21:55 2011 -0400

Xserver-spec: add release information

It has been added in all docs (X Version 11, Release 7.6)

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ee3e26079e120bf9914cc27871d50501b35e75df
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Sep 30 07:16:34 2011 -0400

ddxDesign: drop the url in the corporate authors list

It was such an eyesore once rendered in html.
Now it looks like other authors.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>
udev: make use of `udev_enumerate_add_match_tag()` only when it is available

`udev_enumerate_add_match_tag()` and `udev_monitor_filter_add_match_tag()` are mostly optimizations, hence simply skip these calls if they are not available in the installed version of `libudev`.

This should fix the build on older versions of `udev`.

[airlied: fixes tinderbox failures on RHEL6]

Signed-off-by: Lennart Poettering <lennart@poettering.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Tested-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 77743f877d573df70fcb5cb5897250f668ebf9b
Author: Jamey Sharp <jamey@minilop.net>
Date: Mon Sep 26 22:38:44 2011 -0700

kdrive: Fix build for opaque InputOption structure.

Commit 05284a03f9002b03a66ae355b34790ec02b726f0 missed fixing up kdrive's use of the old non-opaque structure.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 9a55b3661b4172f9a32cd6fefa254e06edba88a
Merge: cf11ca360c84bb0207f6
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 3 11:49:23 2011 -0700

Merge remote-tracking branch 'alanc/master'

Commit cf11ca360c2ded5ca309faa9d039160947387bb8
Merge: 463dd87062 6eae9fa284
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 3 11:44:59 2011 -0700

Merge remote-tracking branch 'jeremyhu/for-keith'

Commit 463dd87062edaa974cb8c7163328a53197f237e1
Author: Pauli Nieminen <pauli.nieminen@linux.intel.com>
Date: Thu Sep 22 18:38:53 2011 +0300
xf86/modes: Fix shadow rotation crashing when screen pixmap changes

Driver may change screen pixmaps after page flipping that would then make damage lose track of the root pixmap.

Using root window for shadow damages fixes the problem because SetWindowPixmap is implemented in shadow code.

Signed-off-by: Pauli Nieminen <pauli.nieminen@linux.intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f5d50bf46ddeb039ab656414f61261e94ee67637
Merge: 57cd32e934 524e5445c0
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 3 11:36:28 2011 -0700

Merge remote-tracking branch 'whot/next'

commit 57cd32e93425597317b4b7722859155419836e4c
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Aug 25 15:41:55 2011 -0700

xfree86/modes: Make cursor position transform a helper function

When the driver can handle the crtc transform in hardware, it sets crtc->driverIsPerformingTransform, which turns off both the shadow layer and the cursor's position-transforming code. However, some drivers actually do require the cursor position to still be transformed in these cases. Move the cursor position transform into a helper function that can be called by such drivers.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit 245cb8e94fd15990e1b7d6622added460f104dba
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Aug 25 10:19:48 2011 -0700

xfree86/modes: Let the driver handle the transform

If a driver can use hardware to handle the crtc transform, then there's no need for the server's shadow layer to do it. Add a crtc flag that lets the driver indicate that it is handling the transform. If it's set, consider the transformed size of the screen but don't actually enable the shadow layer. Also stop adjusting the cursor image and position.
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit e089737fb13868bd3a72b7ac4799d502d188f03e
Author: Keith Packard <keithp@keithp.com>
Date:    Mon Oct 3 11:23:16 2011 -0700

Add AC_LANG_SOURCE wrappers around configure.ac code fragments

Current autoconf versions are very unhappy when code fragments are not
wrapped in AC_LANG_SOURCE macros, generating errors like:

configure.ac:723: warning: AC_LANG_CONFTEST: no AC_LANG_SOURCE call detected in body
   ../lib/autoconf/lang.m4:194: AC_LANG_CONFTEST is expanded from...
   ../lib/autoconf/general.m4:2662: _AC_LINK_IFELSE is expanded from...
   ../lib/autoconf/general.m4:2679: AC_LINK_IFELSE is expanded from...
   ../lib/m4sugar/m4sh.m4:606: AS_IF is expanded from...
   ../lib/autoconf/general.m4:2032: AC_CACHE_VAL is expanded from...
   ../lib/autoconf/general.m4:2053: AC_CACHE_CHECK is expanded from...
configure.ac:723: the top level

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6eae9fa28445b6cfa09061b338242df5116aafe8
Author: Matt Turner <mattst88@gmail.com>
Date:   Wed Sep 28 17:27:45 2011 -0400

Remove incorrect & in swap_uint32

Caused by commit 893e86a4, and hidden by the (char *) cast.

Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Tested-by: Aaron Plattner <aplattner@nvidia.com>

commit 6f581e3fde7dde943c04f274e01735beb358b7f9
Author: Dave Airlie <airlied@redhat.com>
Date:    Mon Oct 3 16:09:12 2011 +0100

fix fb_id for dirty reporting

commit 79959b734702486971447a11b2e4181463fda3bf
Author: Dave Airlie <airlied@redhat.com>
Date:    Mon Oct 3 11:35:39 2011 +0100

fix make distcheck
Add #include "inpututils.h" to xkbAccessX.c for init_device_event

Fixes Sun compiler warning:
"xkbAccessX.c", line 128: warning: implicit function declaration: init_device_event

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Use $(SHELL) to run it. Someone may want to build out of a source tree in a filesystem with the noexec mount flag set.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Add a 'wscons' autoconf mechanism to configure input devices on BSD.

This does not really handle hotplug (it's handled inside the kernel, by the 'mux' devices), but uses the wscons console driver configuration to figure out the keyboard layout and the list of pointing devices found by the kernel.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Fix frac calculation on [Raw]DeviceEvent conversion

(1UL << 32) evaluates to 0 (at least here), so do the fraction calculation in two steps as in libXi. Fractions on xXIRawEvent
were not multiplied at all, which also gave 0 as result.

Signed-off-by: Max Schwarz <Max@x-quadrat.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4c6bc0e76599d8e5ede2e1f48c9936a0e996b638
Merge: 057cc92ebf 3304bbff9b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 30 09:24:56 2011 +1000

Merge branch 'smooth-scrolling' into next

commit 3304bbff9b4ed63f1a47410a5320a136420ba2c6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 15 18:49:58 2011 +0000

Input: Add smooth-scrolling support to GetPointerEvents

For scroll wheel support, we used to send buttons 4/5 and 6/7 for horizontal/vertical positive/negative scroll events. For touchpads, we really want more fine-grained scroll values. GetPointerEvents now accepts both old-school scroll button presses, and new-style scroll axis events, while emitting both types of events to support both old and new clients.

This works with the new XIScrollClass to mark axes as scrolling axes. Drivers mark any valuators that send scroll events with SetScrollValuator. (Currently missing: the XIDeviceChangeEvent being sent when a driver changes a scroll axis at run-time. This can be added later.)

Note: the SCROLL_TYPE enums are intentionally different values to the XI2 proto values to avoid copy/overlapping range bugs.

Co-authored-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ac5881d6d0bef4bccc66a5d6ddde4eca950db1a5b
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date:   Thu Sep 15 23:05:24 2011 +0600

Remove unused vtSysreq

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

commit 0be1640dbbdd072f26d937de2e49f5ed58d54ef9
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Sat Aug 27 02:02:36 2011 +0600

bsd: ioctl KDENABIO/KDDISABIO do not matter for OpenBSD

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 91042b98afdc6cecc746e101a88f79e56db1c0d0
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Sat Aug 27 00:47:34 2011 +0600

bsd: OpenBSD and NetBSD not need extra headers in PCVT_SUPPORT

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 86ea9bbe4ed59f89d6509d5e13211ab7f5a8038
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Sat Aug 27 01:03:28 2011 +0600

bsd: Some clean up

OpenBSD and NetBSD does not support syscons

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit dc864770d47fc1e4ee993e37a59e5aece5b0a85e
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Fri Aug 26 22:40:19 2011 +0600

bsd: Remove dead code

Since OsInit closes stdin before the xfree86 DDX opens the console, fstat on stdin will always fail, so it's safe to delete code that attempts it.

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit cbb84266fa7ff26bbdd1e89a7f41b835a677c5e
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date: Fri Aug 26 21:42:41 2011 +0600

bsd: Variable devConsoleFd need only if defined PCCONS_SUPPORT
bsd: Replacement screenFd on consoleFd because they are equivalent

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 38bd1e123d959e0a13514ec415afc8bf5a170f2
Author: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Date:   Fri Aug 26 18:54:01 2011 +0600

bsd: Remove unused macros KBD_FD

Signed-off-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit cb65ec6b58daf9a1afe40c8693fa0632f8cf0585
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Sep 29 16:06:52 2011 +0100

check drm support dumb buffer capability

commit 6ccd13a2d7d78db2d5bd3fafb00f78d2ceb11741
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Sep 29 16:00:50 2011 +0100

add initial man page

commit 1f37991dec98073d5dfbf0c30213f838999bd9da
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Sep 29 15:55:36 2011 +0100

add shadowfb support, default to on.

we should probably expose a bit from kernel to say if shadow is preferred
or wasteful.

commit 0b5e574df230c7879eb9655bb7252553bbace50
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 15:55:24 2011 +0100

remove unused debug

commit d686130c17126d86db55aae6b65b12d8bcf6a098
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 14:13:58 2011 +0100

add -Wall, cleanup warnings

commit a4f6e661b5d6662c413c86eeefb4affdd65c562
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 14:05:43 2011 +0100

fix server recycling

commit 7847321138be62b929123b25929a69f0a57aca3f
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 12:38:26 2011 +0100

port damage tracking code from st/xorg

commit 4d3aad222fc03f259a9d1717b55ce16d7a32e2be
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 12:34:27 2011 +0100

drop loading dri2

commit 1b1382c9e1995d5fe5dfec1de17155fa627ac6e8
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 12:34:17 2011 +0100

update authors/copyright

commit 263597dbb3a75d711b5ad2e1f51554a6b2601d9a
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 12:30:46 2011 +0100

gut some more unneeded code

commit a72bdf170c8be55eef3d2dbb8e316839552288a5
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 29 12:28:59 2011 +0100

modesetting: rewrite probing based on fbdev.

This isn't perfect, it should really do more with bus id matching
and finding the write drm device using sysfs if it can. but it removes
lots of hardcoding of pci ids.

commit a77fae850511c4d73af2af2b88804586f950f28d
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Sep 29 11:52:51 2011 +0100

cleanup some the drmmode_display header file

commit 2a4618905445ce13fd272a4634ef5103dc804231
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Sep 29 11:49:26 2011 +0100

modesetting: restart driver effort from other codebases

This starts a randr 1.2 compatible driver with cursors.

TODO:
libkms
dirty handling
server recycling.

commit 057cc92ebfleebe81b7d01ff2c6aa2c066c8d1a64
Merge: afb1fe695d 52c9b59a9f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 29 14:18:35 2011 +1000

Merge branch 'raw-events' into next

Conflicts:
    configure.ac
dix/events.c

commit 52c9b59a9fed6abfeca775a7a04133c3e18ac0b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 30 09:47:06 2011 +1000

dix: use 'rc' for return code in DeliverRawEvent

Reported-by: Walter Harms <wharms@bfs.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b6b1f1b514bf14ddf6b265b8d4551f892ded0dd2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 11 13:56:08 2011 +1000
input: deliver raw events unconditionally for XI 2.1 clients.

Deliver raw events regardless whether there is a grab on or not for clients supporting 2.1 or later.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 16244fba001826190445302f56784f5de9c59c01
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 2 13:50:13 2011 +1000

Support (and require) XI 2.1

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 54e05d80a122bac57920fce1704c0f57492b849c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 14:21:39 2011 +1000

dix: rename ProcessRawEvents to dix/events.c:DeliverRawEvent

No functional changes, prep work for future changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c48133f133c64d356a1208f185619bdfd7e9a5f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 14:19:45 2011 +1000

Xi: use temporary variable for filter.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ac0850e86f22191091a1eb07237cae9de49ee00d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 12:14:32 2011 +1000

dix: split DeliverEventToWindowMask up a bit more.
Move out the actual event delivery, it needs to be used from elsewhere.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

dix: rename DeliverEventsToClients to DeliverEventsToWindowMask
To avoid confusion with a future patch and it better describes what this
does anyway - delivering events to all clients that have the event mask on
the window.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

dix: split client list retrieval out of DeliverEventToClients
No functional change, but "other" was renamed to "clients".

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

That one was missing _XkbKSLower:
  XK_kra: U+0138 LATIN SMALL LETTER KRA

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 0b56a7f0ad01d3a86cdd7a14d5e567a00a3553f6
Author: Cyril Brulebois <kibi@debian.org>
Date:  Sun Jun 5 03:12:44 2011 +0200
xkb: Fix case checks for Latin 2.

Those ones were getting _XkbKSLower for no reasons:
XK_ogonek: U+02DB OGONEK
XK_doubleacute: U+02DD DOUBLE ACUTE ACCENT

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 512a9750c197437889f7f26a8d2bd242e030745
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 03:03:47 2011 +0200

xkb: Fix case checks for Latin 1.

That one was missing _XkbKSLower:
XK_ssharp: U+00DF LATIN SMALL LETTER SHARP S

That one was getting _XkbKSLower for no reasons:
XK_division: U+00F7 DIVISION SIGN

For reference, XK_multiply was already excluded from the _XkbKSUpper check, it's no big surprise XK_division has to be excluded from the _XkbKSLower check.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 635a1f50bc65512ec491fe71b9dfaf8cf9118e2c2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 23 12:04:39 2011 +1000

input: allow for max < min for relative axes on InitValuatorAxisStruct

Relative axes are initialized with 0, -1 but so far this never had any effect as all users of this function (for relative axes) just set it to the defaults anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8d1a414cca51e7f8a93470c5aa2e998f5ca1bc9a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 23 12:03:48 2011 +1000

input: switch InitValuatorAxisStruct to return Bool
Return errors instead of silently ignoring them.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 5ac1f885f5c106b970835de36e13a9a7ea413df4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Feb 15 19:44:53 2011 +0000

Input: Add POINTER_EMULATED flag to GetPointerEvents

POINTER_EMULATED merely sets XInputEmulated in the generated DeviceEvent.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 78d8d6dd7f31cb903d5c8baf64181795736f33ed
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Feb 15 14:23:25 2011 +0000

Input: Add vertical and horizontal scroll axes

To be used for smooth scrolling with future driver APIs, replacing Rel Vert Wheel and Rel Horiz Wheel axes, which have not been used in any open driver to date.

Combined with double-granularity ValuatorMasks, these axes allow for fine-grained scroll data to be sent to clients. Future commits allow drivers to post these scroll axes to QueuePointerEvents/GetPointerEvents, which take care of emulating legacy scroll button events.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit d8e42decbad4abe13265f4c546a0c561905d018f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Feb 15 18:54:14 2011 +0000

Input: Split GetPointerEvents body into a helper function

For smooth-scrolling support, we want GetPointerEvents to generate multiple events, so split the body of the function out into a helper function in order to call it multiple times.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Input: Set last valuators in GetPointerEvents only

Previously, various pieces of code, including acceleration, used to drop the values into DeviceIntRec::last.valuators. Remove all this and only do it in GetPointerEvents after all transformation, acceleration and clipping, so we're guaranteed to always have the correct values.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Convert DeviceIntRec::last to use doubles

Change the last real user of a split integer/fractional co-ordinate system, DeviceIntRec's last->{valuators,remainder} to just have one set of doubles.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Make DeviceEvent use doubles internally

Change the DeviceEvent InternalEvent to use doubles for its valuators, instead of data and data_frac.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Make RawDeviceEvent use doubles internally

Change RawDeviceEvent to use doubles for valuators internally, rather than data(_raw) and data(_raw)_frac.
Input: Modify mask in-place in positionSprite

Instead of taking pointers to x and y values to modify in positionSprite, just modify the mask (as well as dev->last) in place.

Input: Convert positionSprite and GetPointerEvents to double

Use doubles internally in both of these functions, eliminating most of the remaining int co-ordinate usage.

Input: Don't call positionSprite for non-pointer devices

If the device doesn't have any valuators, or if it has less than two of them, don't bother calling positionSprite. Users with one-dimensional pointing devices may be upset.

Input: Convert rescaleValuatorAxis to double

Instead of passing fractional pointers around everywhere, just pass doubles instead. Much easier.
Input: Remove x and y from moveAbsolute/moveRelative

Both these functions modify the mask and pDev->last.{valuators,remainder} in-place now, so there's no need to pass in pointers to local x and y values.

Input: Convert acceleration code to using ValuatorMask

Instead of passing a set of int* to the acceleration code, pass it a mask instead, which avoids an unfortunate loss of precision.

Input: Widen pointer acceleration types to double

This widens almost all of the float-using code in ptrveloc.[ch] to doubles, other than values coming from properties which are specified to be floats by the property API.

Bumps input API to v14 as this changes the AccelScheme signature, as used by xf86-input-synaptics.
Input: Use trunc instead of lrintf in acceleration code

For compatibility with all the rest of the input code.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit e1df51421bc392d57f88e831fe0661871a8aa769
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 13:34:32 2011 +0000

Input: Set fractional member in set_raw_valuators

RawDeviceEvents have space for fractional valuator members, so might as well start using them.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cdf202250ef616f3b261db70da30e421ea59a630
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 14:50:29 2011 +0000

Input: Convert transformAbsolute to work on doubles

Change transformAbsolute to use doubles internally.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3463078f9697fad0ee11837d80e88889fc6a28a4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 13:29:24 2011 +0000

Input: Convert clipAxis, moveAbsolute and moveRelative to double

Change all these three to use doubles internally, though the outputs of moveAbsolute and moveRelative are still truncated to int.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 4e52cc0ef48145134cd58d357fb7289e6f8bb709
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 13:20:37 2011 +0000

Input: Prepare moveRelative for conversion to double
Shuffle some code around in moveRelative to make the conversion to double easier later.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 80fd9ca33a8f50f98a4b1a3279e66b040353b80
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 13:19:00 2011 +0000

Input: Prepare moveAbsolute for conversion to double

Shuffle some code around to make moving to double easier later.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a6b4eb05c7822860e2362fa9b8441fc67055e27
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 2 17:22:59 2011 +0000

Input: Store clipped absolute axes in the mask

Change moveAbsolute to be more symmetric with moveRelative by storing a clipped axis value back in the mask, rather than just in dev->last.valuators.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7e919ef5fba94d51a06eeefb150ab947bdbf6885
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Feb 23 17:28:18 2011 +0000

Input: Add double-precision valuator_mask API

Add API for valuator_mask that accepts and returns doubles, rather than ints. No double API is provided for set_range at the moment.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 79d4deb76d5612b75ef26b4549b7ade3a656687d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Feb 23 14:31:01 2011 +0000

Input: Convert ValuatorMask to double-precision internally
Switch the ValuatorMask struct to using doubles instead of ints for the actual values. Preserve the old int API, and (attempt to) round towards zero for values we return.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 60a766a96f9ec97adff6d0273f70ec23f313a11c6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jun 9 16:02:47 2011 +0100

Input: Add flags to RawDeviceEvent

Add a flags member which will be copied wholesale into the resultant xXIRawEvent.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 5d62c32981dbe9630bed32567b55008b536c81c5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Dec 27 13:24:35 2010 +0000

Input: Add flags to DeviceEvent

Add a flags member which will be copied wholesale into the resultant xXIDeviceEvent.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 38e9e28ba2fbfee52ad9889ef6d4e94c7af3e10
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Sep 20 20:39:06 2011 -0700

XQuartz: Use set_front_process rather than X11ApplicationSetFrontProcess since we're already in the AppKit thread

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 206b30ebc608d29a91cc18665d89e887cac4dba3
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Sep 22 18:55:19 2011 -0700

Address regressions from e8ff555b95ba and d206d52f657c to work with other compilers

1) The error attribute appeared in gcc-4.3
2) The return type of __builtin_constant_p is int

3) Sun Studio 12.0 and later builtin support for __builtin_constant_p

Found by Tinderbox.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit afb1fe695d197187a301c19863a128a65389b15c
Merge: 7fb4bef039 c7163fdd30
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 26 20:24:15 2011 -0700

Merge remote-tracking branch 'whot/next'

commit c7163fdd302706a3d67f0ff5f93eeb3396bb3332
Author: vdb@picaros.org <vdb@picaros.org>
Date:   Wed Aug 31 07:23:01 2011 +0200

xfree86: .BI style: monitor section in xorg.conf man page

The xorg.conf manual uses the following convention in most of its sections:

bold = text to be copied literally to the config file,
italic = a symbolic name to be substituted by a true value.

Some configuration keywords seem to have been changed into generic options. Prepending Option to the manual entry swapped the bold-italic logic. This patch restores the convention in the monitor section and consists of

- .BI "Option " "\"qPreferredMode\" " \"qstring\"q
+ .BI "Option \"qPreferredMode\" \"q" name \"q

modifications.

Plus a few minor changes (Modes Mode) and a typo fix.

Signed-off-by: Servaas Vandenberghe
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4b4caebe7d2c8e0b7e4fedc95fba2a728bb2c25e6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 6 09:33:43 2011 +1000
xfree86: expose Option "TransformationMatrix"

Recent changes to the server change the default absolute input device behaviour on zaphods to span the whole desktop too. Since these setups usually use an xorg.conf, allow the transformation matrix to be specified in the config as well.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit cf51424a34fb2b567a867338ab44f83b5c43251c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 6 09:39:01 2011 +1000

xfree86: use subheader for Pointer Acceleration parts in xorg.conf(5)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9125952b407090b040bffb3d752288293137cf77
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 5 15:43:14 2011 +1000

xfree86: fix comment typo

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2d2dce558d24eeea0eb011ec9ebaa6c5e2273c39
Author: Sam Spilsbury <sam.spilsbury@canonical.com>
Date:   Wed Sep 14 09:58:34 2011 +0800

Remove the SendEvent bit (0x80) before doing range checks on event type.

Some extension libraries may set this bit before converting the event to wire protocol and as such range checking the event will cause an invalid BadValue error to result. As the documentation suggests the the bit should be "forced on", remove it before doing range checks and continue to force it on in the server.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f52d5cd374563544dafe29587411f345e31bbdf8
Author: Carlos Garnacho <carlosg@gnome.org>
Date:   Wed Aug 31 00:46:52 2011 +0200

Xi: Fix passive XI2 ungrabs on XIAll[Master]Devices
The corresponding DeviceIntPtr wasn't being gotten properly, resulting in BadDevice from dixLookupDevice().

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 24823f1ab0f16e0815ef44340894537dc4babf6a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 3 16:01:28 2011 +1000

xfree86: switch options from pointer to XF86OptionPtr

In all cases, the pointer was simply type-cast anyway. Let's get some compile-time type safety going, how about that.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

Squashed in:
xfree86: Move definition of xf86OptionPtr into separate header file

The pile of spaghettis that is the xfree86 include dependencies make it rather hard to have a single typedef somewhere that's not interfering with everything else or drags in a whole bunch of other includes.

Move the xf86OptionRec and GenericListRec declarations into a separate header.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 284328a6beb0b0d0ab6653973ce52b5a68b4e791f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Sep 26 17:04:56 2011 +0800

glamor-ddx: Rename glamor.c to glamor_ddx.c.

As glamor's dix module already has a glamor.c, rename this glamor.c to other name to avoid file name conflict which may confuse gdb.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

Commit 101b69ddfff6cc538cb369c70377bbad825aa765
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Mon Sep 26 16:33:52 2011 +0800
glamor: Check libgbm if enable glamor ddx.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 6a7ad1c92934f35eb2431c3e0f11c0c56a097de9
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 26 16:13:57 2011 +0800

glamor-ddx: Don't double free the cursor memory.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit fe4c95ce843afffed981ac8bb89ca433bd20f1e2
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 26 16:08:29 2011 +0800

glamor: Refine the screen pixmap initialization for Xephyr.

The previous implementation is to override the CreatePixmap firstly and assume the first call to CreatePixmap must be screen pixmap. This is not clean. Now Refine it to normal way. Let the Xephyr to set texture 0 to screen pixmap during creating screen resources.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1fb58860cc02d28545c66a916956a45918596870
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 26 16:05:52 2011 +0800

ephyr-glamor: Implment gl disptach function for host glx.

We should pass back the glXGetProcAddress to the underlying gl dispatch initialization function to get those gl function pointers.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit df070205600cd736750d8a43426976a518b1fbbe
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 26 16:01:03 2011 +0800

ephyr-glamor: Set texture 0 to screen pixmap.

In Xephyr, screen pixmap is different from other pixmap. It use fbo zero and texture zero. We initialize it during creating screen resources.
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 937d3bcecf04305c01159f5c5084833f28014061
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Sep 22 13:39:01 2011 +0800

glamor: Correct the version check for GLES2.

If we are using GLES2, then the version number should be no
less than 2.0 rather than no less than 1.3 which is for GL
API.

commit 483717484afb44cf5b48483b3a21a9fe91213dd4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Sep 20 17:15:12 2011 +0800

glamor-ddx: Destroy all the pixmap cursors when close current screen.

As now we use pixmap to handle cursor, and pixmaps are related to
current screen. If we close the screen, then we have to destroy all
the related cursors.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit f1e36c611e/faa56e49758d8e8b19d07c10a8277e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Sep 20 17:10:50 2011 +0800

glamor-ddx: Don't need to call preInit in screen_init.

The previous implementation call preInit again to reopen
the device if the device is closed by eglTerminate. Now
we don't need it anymore, as glamor dix doesn't call
eglTerminate any more when close screen.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 09c63d320112fbb4995696d813c488e82915c2f5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Sep 20 15:19:13 2011 +0800

glamor-ddx: Reuse glamor_dix module to handle egl platform.

We already have a glamor egl module at glamor directory which
could initialize and create egl context and also can attach a
gbm buffer to a specified pixmap or to the screen pixmap. This
commit remove all the duplicated code here and use the glamor_dix
module directly.
As we don't want to handle egl stuffs in this layer, we have to change the way to handle hardware cursor. Previous method is to call egl functions to create a egl image and then bind the image to a texture then call gl functions to load texture image to the cursor bo. Now we can bind the cursor bo to a cursor pixmap and then use putimage to load new image to the cursor bo. Then we can completely avoid to call egl or gl functions directly in this ddx driver.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1590da001129ea61d6f7f8758d1d2842825be81b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Sep 20 15:14:49 2011 +0800

glamor-egl: Add gbm device support.

Latest mesa EGL implementation move to use gbm to manage/allocate buffers. To keep backward compatibility, we still try to use eglGetDRMDisplayMESA firstly, and if failed, then turn to use eglGetDisplay(gbm).

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2d4d40a4b5938249f3c73ed14fe5c5b926c2efd
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 19 09:45:32 2011 +0800

glamor-ddx: Fix the broken switching between VTs.

Now we can allocate frame buffer during the screen initialization. And set mode major when enter VT. This is the correct logic. The previous implementation defer the set mode major to create screen resource which will cause the switching between VTs broken.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 4c8ed1756aa5121a559a604926a730180a1403f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Mon Sep 19 06:31:57 2011 +0800

glamor-ddx: Use gbm to allocate front buffer and cursor image.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 82a9b0c540df1064f5184c36a05d6216fb11034
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Sep 16 13:37:13 2011 +0800
glamor-ddx: Change naming of glamor ddx module.

Use glamor_ddx prefix for all standalone glamor ddx functions.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 67dbe0dd1f87a6dd602d3d4a6049072f6386d757e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Sep 8 15:16:01 2011 +0800

glamor-egl: Added new function to create image for a pixmap.

This function is used to support dri2. In the underlying
driver, it will create a buffer object for a given pixmap.
And then call this api to create a egl image from that
buffer object, and then bind that image to a texture, and
then bind that texture to the pixmap.

Normally, this pixmap's content is shared between a dri2
client and the x server.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2a9dfc963f610abf6f12d5efdf5ba5b3f55a4305
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Sep 8 15:14:43 2011 +0800

glamor: Re-arrange some macros/definitions in header files.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0dff23d65b8bcecc615f4c7a49efa7a5bf220b299
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Sep 8 14:05:46 2011 +0800

glamor: Don't direct call to any gl functions.

Create a new structure glamor_gl_dispatch to hold all the
gl function's pointer and initialize them at run time ,
rather than use them directly. To do this is to avoid
symbol conflicts.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7daf9af086624133d6c4857ed92d57ad2a492d86
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Aug 31 17:43:46 2011 +0800
glamor: Let GLAMOR_DDX implicit GLAMOR.

If user only enable GLAMOR_DDX, he must also want GLAMOR.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit f08988455cd4f6339187e74df8ed5783b61f8fa
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 30 18:24:53 2011 +0800

    glamor: Route UnrealizeGlyph to glamor_glyph_unrealize.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 16659622708db82caeb12527ba09545ad15b4c3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 30 17:45:07 2011 +0800

    glamor: Improve glyphs cache mechanism.

    This commit applying the latest uxa's glyphs cache mechanism
    and give up the old hash based cache algorithm. And the cache
    picture now is much larger than the previous one also.

    This new algorithm can avoid the hash insert/remove and also
    the expensive sha1 checking. It could obtain about 10%
    performance gain when rendering glyphs.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bf4cbbd4e9c8ee104293a3c4eb202c880a139b73
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 30 17:37:47 2011 +0800

    glamor: Move glamor_glyphs_init to create screen resources stage.

    As in glamor_glyphs_init, we may need to create pixmap. Thus it must
    be called after the pixmap resources allocation. Just move it to
    screen resource creation stage is good enough for now.

    Also introduce a macro GLAMOR_FOR_XORG to glamor.h. As glamor may
    be used by Xephyr which doesn't don't have those xorg header files
    and also don't need the egl extension.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit ae38bd7c459982d3e05f6f672ee68d187e97421c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Aug 25 10:05:11 2011 +0800

glamor: Change glamor_egl_init API.

Slightly change the API glamor_egl_init,
as this initialization is to initialize the display not
the screen, we should call it in xxx_preinit rather
than xxxScreenInit(). we change the input parameter as
below, as in preInit, the screen may not be allocated
at all. And in glamor_egl_init, it will not call
glamor_init. Driver should call glamor_init at
screen_init stage.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d4f4d1272e1745752840eb7e8ec04eb155ac38d1
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 24 17:17:48 2011 +0800

glamor-egl: Fix direct call for glEGLImageTargetTexture2DOES.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 6cb4abca697c24bdc644502ccee8a2ca9bbf131e3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 24 17:13:35 2011 +0800

glamor: Remove the version check for EGL/gles.

As PVR's gles2 has different version number from mesa's,
just simply remove the version check here to let both
platform could build it.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 60f14d4d60f6169272951d41d8ca9e0a294c2ca3d0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 24 16:54:32 2011 +0800

glamor-egl: Move EGL surfaceless related code to dix module.

The functions in glamor_egl.c could be shared by any egl back
end drivers.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3854409e9ad25418c6188f491410bb05eaf92fc6
Author: Zhenyu Wang <zhenyuw@linux.intel.com>
Date:   Mon Aug 22 23:27:24 2011 -0700

glamor: Fix direct call for glEGLImageTargetTexture2DOES

Follow extension call rule to call glEGLImageTargetTexture2DOES.

commit 54c91079d2bd21d3fd97b6d5fa3ba5c4a86b6337
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 23 14:04:07 2011 +0800

glamor-gles2: Add explicit precision qualifiers for gles2.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b4f265c7f9beb7824df19ea915ab32fe84d9ee53
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 23 13:30:54 2011 +0800

glamor: Fallback to software fb when repeat is needed.

Need to be fixed latter. We should not need any fallback here. But currently, the implementation for repeating tiling is broken.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit bd0ea43f3999e29ae5953ca5257b1795916dd5e7
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 23 13:27:48 2011 +0800

glamor: Change to use the original drawable in glamor_fill.

As glamor_fill may fallback to software rasterization, we'd better to use the original drawable as input parameter.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 65812b538f23bfc32a7bb0b2c4e93e1cd8fe8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 23 10:31:50 2011 +0800

glamor-dix: Make a glamor dix module.

And modify the header file to export three APIs to the ddx driver.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit ef3ea0f46bf1b688249cd37d54cfa67ec55041b0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Aug 19 11:06:56 2011 -0700

glamor: Don't need to check status when set the target.

As we already checked the status when create the fbo.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 52c9e9333fed2035da9623f338428a5d220b577d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Aug 19 11:05:21 2011 -0700

glamor: egl version 7.11 should be ok for us.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 3648e35b5d0ffcb2ea5d40c842a7f8dd39b27b50
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Aug 19 10:53:44 2011 -0700

glamor-ddx: Add code to check required egl extensions.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit eaa07998c432f68485423c4d108220ce1d72e7b6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 16 14:05:25 2011 -0700

glamor: Add device independent glamor to the installation package.

Other ddx driver may link libglamor_dix to utilize glamor.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1658454dea4330144ebc0b02e1b42fe6db4f41
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 16 00:33:35 2011 -0700

glamor: Fix the copy of overlaped region in one pixmap.

Originally, we use fbo blit to handle overlaped region copy.
But GLES2 doesn't support that, just simply copy the needed
region to another texture can fix this problem.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>
commit 1f129c491bf825465c3bc0e9b745b7f66dea720
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 16 00:32:57 2011 +0800

glamor: Convert pixmap to supported format before getspans.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 67da52ec13a87846201a99d5a31db28668d9fdfd
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 16 00:21:09 2011 +0800

glamor: Add color conversion support by using new shader.

There are two places we need to do color conversion.

1. When upload a image data to a texture.
2. When download a texture to a memory buffer.

As the color format may not be supported in GLES2. We may need to do the following two operations to convert dat.

a. revert argb to bgra / abgr to rgba.
b. swap argb to abgr / bgra to rgba.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 0eea084db54fb88b9933fd1326a2b0b059b3f9d7
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 16 00:20:01 2011 +0800

glamor: GLES2 doesn't support glEnable/Disable Texture 2D.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 504e03c0b59f4dc3b8058abdce79706a72cd0d7d
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 16 00:17:58 2011 +0800

glamor: GLES2 doesn't support GL_CLAMP_TO_BORDER.

Simply comments it out. Need revisit latter.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit f84cc8b84b2944b60eb2a8225e3c44a1c6fb228d
Author: Zhigang Gong <zhigang.gong@gmail.com>
glamor-ddx: Hardware cursor's format should be GL_RGBA.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 23c1fba5e5a5fe8dd18c4c8a9b5a958ce4671160
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Sat Aug 13 15:41:18 2011 -0400

glamor: Remove glu3 which is unnecessary.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit a228effbeb339ae6f0b73c633022b3ec9981148f
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:56:02 2011 -0400

glamor: Remove useless glVertexPointer related code.

As glVertexPointer is not supported by GLES2, I totally replaced it by VertexAttribArray. This commit remove those old code.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 5cbb2a4ca05f696d2a9a2e50bf106b6f2acd1c6
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:35:26 2011 -0400

glamor: Only fallback glamor_setspan when we are using gles2.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 667d65534d64df30146cfa0d32522bced51e0697
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:27:12 2011 -0400

glamor: Unify the variable name which used to indicate no alpha.

The original code use different name and the name is vague. Now change it to no_alpha.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 5e7fd8bb498c47b6e892808354f0e8aaf61d0646
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:08:12 2011 -0400
glamor: Disable ALPHA8 fbo.

As some platform doesn't support to use ALPHA8 texture as draw target, we have to disable it. It seems there is no easy way to check that.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 172e8cfd411b1abeaf8ede2e3882d6198cee5b8
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:05:02 2011 -0400

glamor: Remove GLEW dependency.

Glamor doesn't need to use GLEW. We can parse the extension by ourself. This patch also fix the fbo size checking from a hard coded style to a dynamic checking style.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 2146a25bac4392c47ef06ecddf12db184926b7e
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 15:03:48 2011 -0400

glamor-ddx: Silence one warning.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit d66bd9714e1e1af4267fb4eb208143a070e65ee3
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Thu Aug 11 09:54:28 2011 -0400

glamor: Concentrate FBO's creation to one function.

And add status checking for it.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit b2bff334ce4f36352497f1c1d4e9f0e5b3336136
Author: Zhenyu Wang <zhenyuw@linux.intel.com>
Date:   Tue Aug 9 19:37:17 2011 -0700

glamor: Require libdrm CFLAGS for building

Need to depend on libdrm CFLAGS for glamor building.

commit 41b13fbd264594f88905b1cf8dcb2f14e7ee5b69
glamor: Use function pointer to get extension calls

This is the formal usage for extension functions.

commit 7aecfa245fac754ff8e09d6ef1ad0ab802156fc
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 9 10:01:39 2011 -0400

glamor-es2: Add --enable-glamor-gles2 to build system.

Now, to build a gles2 version of glamor server, we could use ./autogen.sh --enable-glamor-ddx --enable-glamor-gles2
Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 36a93f62c7830a088a54514eab6bf4d92423df6
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 9 09:59:56 2011 -0400

glamor_gles2: Use gl_flavor to determine which version of GL.
Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 29e358f6b3838a56b53ec809665f2e7be1731722
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Tue Aug 9 09:59:08 2011 -0400

glamor: Fix one typo error in README.
Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit ee33c947aac10b2b1ec25b070fbd81cef1773c6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 3 16:52:19 2011 +0800

As GLES2 doesn't support glVertexPointer.
Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 94d884a198b97ed2e78a38ce5a71955bdf893f8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Aug 3 10:49:18 2011 +0800

glamor-es2: Fix some non-es2 functions.

ES2.0 doesn't support QUADS and also doesn't support
some EXT APIs. Fix some of them in this commit.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 68c3c6eb0cafd5eb2c208dd76a3a65187256700c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 2 15:54:15 2011 +0800

glamor-es2: Add gles2 option.

First commit to enable gles2 support. --enable-glamor-ddx
--enable-glamor-gles2 will set two MACROS GLAMOR_DDX and
GLAMOR_GLES2.

Currently, the gles2 support is still incomplete.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 98f8ef5f991c3c9d4b434af9003c466ad1edc23e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Aug 2 15:51:46 2011 +0800

glamor: Change to use official APIs rather than ARB version function.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 0ef1698be22750fb14418bd418114fc63039db0c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jul 21 16:18:48 2011 +0800

glamor: Fix one bug for Xephyr.

Xephyr doesn't has a bounded valid texture. It seems that we can't
load texture 0 directly sometimes. Especially in the copyarea, function
if that is the case, we prefer to use fbo blit to read the screen pixmap
rather than load the bound texture.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9b667fffd564910ff7373547ce2f8d4a7c5d71137
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jul 20 14:33:00 2011 +0800

glamor: Use small internal texture format if possible.

Reduce some texture memory requirement and also save
some bandwidth.
glamor: Add simple introduction of how to setup glamor xserver.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 01489f9da9aa357c59799d4d41c7ca96b4cb1d8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jul 20 14:02:15 2011 +0800

glamor: Avoid 2D bitblit if possible.

It turns out that the use of fbo blit is one of the root cause which lead to slow drawing, especially slow filling rects.

We guess there should be a performance bug in the mesa driver or even in the kernel drm driver. Currently, the only thing glamor can do is to avoid calling those functions.

We check whether the copy source and destination has overlapped region, if it has, we have to call fbo blit function. If it has not, we can load the source texture directly and draw it to the target texture. We totally don't need the glCopyPixels here, so remove it.

By apply this patch, the rendering time of firefox-planet-gnome decrease to 10.4 seconds. At the same platform, uxa driver get 13 seconds. This is the first time we get better performance than uxa driver.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1f3f3baf1469e74767474dddb383e92502384de80
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jul 20 13:35:25 2011 +0800

glamor: Implement delayed solid filling.

When we need to solid fill an entire pixmap with a specific color, we do not need to draw it immediately. We can defer it to the following occasions:

1. The pixmap will be used as source, then we can just use a shader to instead of one copyarea.
2. The pixmap will be used as target, then we can do the filling just before drawing new pixel onto it. The filling and drawing will have the same target texture, we can save one time of fbo context switching.

Actually, for the 2nd case, we have opportunity to further optimize it. We can just fill the untouched region.

By applying this patch, the cairo-trace for the firefox-planet-gnome's rendering time decrease to 14seconds from 16 seconds.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1ca741a41e41ef46a43980ba0be897770fea13db
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed Jul 20 13:02:28 2011 +0800

    glamor: Fixed a bug when computing the bounds of boxes.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit fe0a6a29300055f8288c9d1f470fd3e24f5bb3bb
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jul 7 16:54:18 2011 +0800

    glamor: Should return when done gl drawing.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 7fbdc60fd4eb94c02b0b89d05cfe0243c3562ec1
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jul 7 15:32:39 2011 +0800

    glamor: comment out the message when creating a system memory pixmap.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit f961390db6fa0707895efb2e7672dda575f8ec
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jul 7 15:31:35 2011 +0800

    glamor: Don't need to pad the tile image if pixmap is ni texture.

    Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 77ecd366933bbe726a4a7e57e35b1510b675df8d
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jul 7 15:30:19 2011 +0800
glamor: We don't need to check format in compositing.

We already handle all format checking in pixmap uploading and converting, don't need to do that again.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 477a54bc9ed8f252b3a42af8ac01ef1da7b5ab6b
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jul 7 14:47:51 2011 +0800

  glamor: Fixed two uninitialized warnings.

  Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d49d48257917a4a900c84dae111d3f5e761a8d89
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Sat Jul 2 14:47:38 2011 +0800

  glamor: Fix multiple crtc setup.

  Now, support dual crtc configuration.

  Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit fc23334e54b0b90d2f000b017a03cf47b70dc71aa
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Fri Jul 1 23:51:42 2011 +0800

  glamor: Optimize fallback case for the polylines.

  When fallback to cpu for the polylines procedure, we can just download required region to CPU rather than to download the whole pixmap. This significant improve the performance if we have to fallback, for example do non-solid filling in the game Mines.

  Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit da66a76f276eccee90855bc0cb28092c3755ed7b
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Fri Jul 1 23:48:21 2011 +0800

  Revert "glamor: Don't need to read dest if op is SRC or CLEAR."

This reverts commit eb16fe0b7c8ea27b5cf9122d02e48bf585495228. As currently glamor_prepare_access/finish_access will touch the whole pixmap, not just the request region, then write only
mode will not work correctly. We may need to revisit all fallback case, and convert the image to the right size before do the prepare/finish processing.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit cb3b34ec53e00c6ca212891b314f473ee2f80a40
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Fri Jul 1 22:54:45 2011 +0800

glamor-ddx: Add missed drmmode_crtc_destroy function.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit c68fb6ed723d7268a3c4950b40c20dd9b4b9ca5
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Fri Jul 1 22:36:31 2011 +0800

glamor-ddx: Reinit crtc if we need to reopen the card.

As the eglTerminate will close the card when close screen, we may need to reopen it at next time create a screen resource. and thus we need to re initialize the drmmode crtc also. Otherwise , the cursor handling will be broken as it has the wrong fd.

commit ca614860fa2a56d469064b5e05070d8201597728
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jul 1 17:02:10 2011 +0800

glamor: convert if too large source or mask .

Some strange web page has 20000*1 png picture, and actually only use partial of it. We force to convert it to a actual size rather than its original size,if it is the case. Then to avoid latter's failure uploading.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1444fed4a8030ec59f4448b490f2f77db86f0b86
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu Jun 30 16:53:24 2011 +0800

glamor: silence compilation warnings.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 734b10e9f7e729fc300ed432bd3c81e1ea7483f3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:50:23 2011 +0800

glamor: Fix one typo bug in glamor_tile.

It will return when the destination pixmap has a fbo but will continue
when it doesn't have a fbo.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 2eb40a37920132d53e3b48830704f92d4e695f4c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:49:40 2011 +0800

glamor: Remove one extra area copy in glamor_glyph.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 61e1ad39724e5baaed4f30ff3c86782e701f19fb
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:40:32 2011 +0800

glamor: Reduce source or mask picture size if possible.

If we only need a short part of the source or mask's drawable
 pixmap, we can convert it to a new small picture before
call to the low level compositing function. Then it will only
upload the smaller picture latter.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 14503fbb819d07fa2b58d9bb741b55f93aff2cf6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:38:43 2011 +0800

glamor: Fix the coords calculation in glamor_fill.

glamor_fill is only called from internal functions
glamor_fillspancs and glamor_polyfillrect. And both functions
already add the offset to the coords, so the coords are already
relative value, we can't add the offset once again.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 1dca5d7b91ed6fced34f389453678407bc223e9c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:04:59 2011 +0800

glamor: Reduce source pixmap's size.
If the dest pixmap is in texture memory, but source pixmap is not. Then we need to upload the source pixmap to texture memory. Previous version will upload the whole source pixmap. This commit preprocess the source pixmap, and reduce it to a smaller temporary pixmap only contains the required region.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 33c6c78ae9c7e72a94cc27536f3b5f0edcc9241
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu Jun 30 16:01:57 2011 +0800

glamor: Add one option to force create a cpu memory pixmap.

Some special case we want to get a cpu memory pixmap. For example to gather a large cpu memory pixmap's block to a small pixmap.

Add pixmap's private data's deallocation when destroy a pixmap.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 8890b38857128181cf506356046bf4a5bce53ab0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jun 28 17:17:23 2011 +0800

glamor: Don't map the vbo to system memory.

Access mapped vbo address is too slow. And by use system memory directly, rgb10text/aa10text increases from 980K/1160K to 117K/140K.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit c303949aabcb6a105c0e0c521ca293dbda7d43
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jun 28 14:49:38 2011 +0800

glamor: Reduce one extra copy in glamor_trapezoids.

This reduce the time when running cairo-performance-trace with the firefox-planet-gnome.trace from 23.5 seconds to 21.5 seconds.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 9e4567afe6019ed7a330182d660880d8ea6c3685
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jun 28 14:37:29 2011 +0800
If the pixmap is write-only, then use a pbo mapping will not get too much benefit. And even worse, when the software rendering is access this mapped data range, it's much slower than just using a system memory. From the glamor_prepare_access glamor_finish_access view, we have two options here:

option 1:
1.0 create a pbo
1.1 copy texture to the pbo
1.2 map the pbo to va
1.3 access the va directly in software rendering.
1.4 bind the pbo as unpack buffer & draw it back to texture.

option 2:
2.0 allocate a block memory in system memory space.
2.1 read the texture memory to the system memory.
2.2 access the system memory and do rendering.
2.3 draw the system memory back to texture.

In general, 1.1 plus 1.2 is much faster than 2.1.
And 1.3 is slower than 2.2. 1.4 is faster than 2.3.

If the access mode is read only or read write, option 1 may be faster, but if the access mode is write only. Then most of the time option 1 is much faster.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 4afa9e4080eebbee0752e5f45b2ff16df75cb9b1
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Tue Jun 28 14:28:19 2011 +0800

...
Date: Sun Jun 26 15:54:24 2011 +0800

glamor: Move the blend set up after the pixmap uploading.

This is a bug, as if we do blend set up before do the pixmap dynamic uploading. We will have a incorrect blend env when doing the uploading.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit bf782283371bc13c7b969a373c2a2eaaa3c81ec6
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Sun Jun 26 15:51:47 2011 +0800

glamor: Fixed one bug when enable dynamic pixmap uploading.

When try to upload a pixmap without yInverted set, we must set up a fbo for it to do the y flip. Previous implementation only consider the ax bit. After fix this problem, we can enable the dynamic uploading feature in copyarea function when the yInverted is not set (from Xephyr).

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit 489e6c4e6f734d961ae8bbec67d78fccbeb9781f
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Sun Jun 26 15:49:13 2011 +0800

glamor: Initialize pixmap private's container to correct value.

When calling from ephyr, we forgot to initialize it to the correct value. Will cause segfault when run Xephyr.

Signed-off-by: Zhigang Gong <zhigang.gong@gmail.com>

commit ca36ada041558d1823b12b1a0141e43b9f9ad939
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jun 22 18:15:02 2011 +0800

glamor: Don't always fallback everything when change window attr.

Change the glamor_change_window_attributes's handling. We don't need to fallback every thing to cpu at the beginning. Only when there is a real need to change the pixmap's format, we need to do something. Otherwise, we need do nothing here.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit ca1908e11dcb56ecb952f6bce55503e932aa9a27c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jun 22 14:33:38 2011 +0800

glamor: Concentrate and reduce some coords processing code.

Concentrate the verties and texture coords processing code to a new file glamor_utils.h. Change most of the code to macro. Will have some performance benefit on slow machine. And reduce most of the duplicate code when calculate the normalized coords.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 355334fcd99e4dce62e2be1e27290c9a74ea944f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Tue Jun 21 18:31:11 2011 +0800

glamor: Add dynamic texture uploading feature.

Major refactoring.
1. Rewrite the pixmap texture uploading and downloading functions.
   Add some new functions for both the prepare/finish access and the new performance feature dynamic texture uploading, which could download and upload the current image to/from a private texture/fbo. In the uploading or downloading phase, we need to handle two things:
   The first is the yInverted option, If it set, then we don't need to flip y. If not set, if it is from a dynamic texture uploading then we don't need to flip either if the current drawing process will flip it latter. If it is from finish_access, then we must flip the y axis.
   The second thing is the alpha channel handling, if the pixmap's format is something like x8a8r8g8, x1r5g5b5 which means it doesn't has alpha channel, but it do has those extra bits. Then we need to wire those bits to 1.

2. Add almost all the required picture format support.
   This is not as trivial as it looks like. The previous implementation only support GL_a8, GL_a8r8g8b8, GL_x8r8g8b8. All the other format, we have to fallback to cpu. The reason why we can't simply add those other color format is because the exists of picture. one drawable pixmap may has one or even more container pictures. The drawable pixmap's depth can't map to a specified color format, for example depth 16 can mapped to r5g6b5, x1r5g5b5, a1r5g5b5, or even b5g6r5. So we can't get get the color format just from the depth value. But the pixmap do not has a pict_format element. We have to make a new one in the pixmap private data structure. Reroute the CreatePicture to glamor_create_picture
and then store the picture's format to the pixmap's private structure.

This is not an ideal solution, as there may be more than one pictures refer to the same pixmap. Then we will have trouble. There is an example in glamor_composite_with_shader. The source and mask often share the same pixmap, but use different picture format. Our current solution is to combine those two different picture formats to one which will not lose any data. Then change the source's format to this new format and then upload the pixmap to texture once. It works. If we fail to find a matched new format then we fallback.

There still is a potential problem, if two pictures refer to the same pixmap, and one of them destroy the picture, but the other still remained to be used latter. We don't handle that situation currently. To be fixed.

3. Dynamic texture uploading.
This is a performance feature. Although we don't like the client to hold a pixmap data to shared memory and we can't accelerate it. And even worse, we may need to fallback all the required pixmaps to cpu memory and then process them on CPU. This feature is to mitigate this penalty. When the target pixmap has a valid gl fbo attached to it. But the other pixmaps are not. Then it will be more efficient to upload the other pixmaps to GPU and then do the blitting or rendering on GPU than fallback all the pixmaps to CPU. To enable this feature, I experienced a significant performance improvement in the Game “Mines” :).

4. Debug facility.
Modify the debug output mechanism. Now add a new macro:
glamor_debug_output(_level_, _format_,...) to conditional output some messages according to the environment variable GLAMOR_DEBUG. We have the following levels currently.
exports GLAMOR_DEBUG to 3 will enable all the above messages.

5. Changes in pixmap private data structure.
Add some for the full color format supports and relate it to the pictures which already described. Also Add the following new elements:
gl_fbo - to indicates whether this pixmap is on gpu only.
gl_tex - to indicates whether the tex is valid and is containing the pixmap's image originally.
As we bring the dynamic pixmap uploading feature, so a cpu memory pixmap may also has a valid fbo or tex attached to it. So we will have to use the above new element to check it true type.

After this commit, we can pass the rendercheck testing for all the picture formats. And is much much fater than fallback to cpu when doing rendercheck testing.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>
commit ba6dd8aa492d9d555d8b175bce350e5db1821597
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 10 18:32:15 2011 +0800

glamor: Simplify fill acceleration for spans/polyfillrect by only clipping once.

This commit was borrowed from uxa driver contributed by Eric.
commit number is e0066e77e026b0dd0daa0c3765473c7d63aa6753. commit log paste as below:
We were clipping each span against the bounds of the clip, throwing out the span early if it was all clipped, and then walked the clip box clipping against each of the cliprects. We would expect spans to typically be clipped against one box, and not thrown out, so we were not saving any work there. For multiple cliprects, we were adding work. Only for many spans clipped entirely out of a complicated clip region would it have saved work, and it clearly didn't save bugs as evidenced by the many fix attempts here.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit a0a52be73994e93521e9f1f10152ce851485ea3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 10 16:51:27 2011 +0800

glamor: Fallback to fbPolylines for diagonal poly_line.

It's better to give a correct output when we haven't implement all the code path.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit d7f8b888d0961af8d0ec6ad5e920ce758529b620
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 10 16:01:40 2011 +0800

glamor: For non-supported fill style fallback to fbFill.

The previous implementation will just skip the rendering which is not good.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b60e6cb66d3fba43d5403b2b5027537d09ee7c98
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Jun 10 15:46:23 2011 +0800

glamor: Silence compilation warnings.
glamor: Add render triangles support.

By default, fallback to frame buffer currently. This commit makes us pass the rendercheck's triangles testing.

glamor: Use software fb for 1bpp pixmap.

For 1bpp pixmap, software fb get better performance than GL surface. The main reason is that fbo doesn't support 1bpp texture as internal format, so we have to translate a 1bpp bitmap to a 8bit alpha format each time which is very inefficient. And the previous implementation is not supported by the latest OpenGL 4.0, the GL_BITMAP was deprecated.

glamor: Optimize composite when source/mask is xrgb.

Added a new shader aswizlle_prog to wired the alpha to 1 when the image color depth is 24 (xrgb). Then we don't need to fallback the xrgb source/mask to software composite in render phase. Also don't wire the alpha bit to 1 in the render phase. This can get about 2x performance gain with the cairo performance trace's firefox-planet case.
glamor: Don't print those fallback messages by default.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit 925fc9724ff72d9e2a4940d7a1e39c23fb3ec9f0
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jun 1 18:02:03 2011 +0800

glamor: Optimize glamor_finish_access.

use pbo if possible when we load texture to a temporary tex.
And for the previous direct texture load function, it's not correct and get removed in this commit.

Signed-off-by: Zhigang Gong <zhigang.gong@linux.intel.com>

commit b8ce483f58112f200dec9853fcd7ff455479990f
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed Jun 1 17:54:01 2011 +0800

glamor: Don't use glamor_pixmap_type currently.

Added comments to glamor_pixmap_create. To be refined in the future.
We need to identify whether a pixmap is a CPU memory pixmap or a GPU pixmap. Current implementation is not correct. There are three cases:

1. Too large pixmap, we direct it to CPU memory pixmap.
2. w == 0 || h == 0 pixmap, this case has two possibilities:
   2.1 It will become a screen pixmap latter, then it should be GPU type.
   2.2 It's a scratch pixmap or created from a share memory, then it should belong to CPU memory.

XXX, need to be refined latter.

commit 28835be1b8a05e510aa7ffcc2f331771e3cf7dfec
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date: Tue May 24 22:01:49 2011 +0800

glamor: improve glamor_finish_access.

When the platform's coordinate system is the same as X11's. We can load the texture to the fbo directly without one extra texture transformation.

commit 1edf0cc6ab340e98fde201328631ca61e9d871a1
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Sun May 22 23:45:51 2011 +0800

glamor: Don't write back read only pixmap to fbo.

For those pixmap which has valid fbo and opened as GLAMOR_ACCESS_RO
mode, we don't need to upload the texture back when calling the
glamor_finish_access(). This will get about 10% performance gain.

commit 1495ba9e6463476508febb01ec2e9594a7b466b
Author: Zhigang Gong <zhigang.gong@gmail.com>
Date:   Sun May 22 17:51:27 2011 +0800

glamor: Use buffer object as much as possible.

Change the row length of 1bit color depth pixmap to the actual stride.
The previous implementation use the width as its stride which is not
good. As it will waste 8 times of space and also bring some non-unify
code path. With this commit, we can merge those 1bit or other color
depth to almost one code path. And we will use pixel buffer object
as much as possible due to performance issue. By default, some mesa
hardware driver will fallback to software rasterization when use
glReadPixels on a non-buffer-object frame buffer. This change will
get about 4x times performance improvement when we use y-inverted
glamor or the driver support hardware y-flipped blitting.

commit 529c38a4601e8f0712773bf29a48cddfa7a5edc4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 19 18:03:12 2011 +0800

glamor-ddx: Remove debug message when moving cursor.

commit cd43b1ea831ee1be6ad0c3b1e040bb968b9861
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 19 18:02:19 2011 +0800

glamor: Add fallback code path for glamor_fill.

commit 8593f22f8bfc5e0d0f406d9e94cca22347505fd6
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 19 17:59:19 2011 +0800

glamor: glamor_set_alu should enable GL_COLOR_LOGIC_OP.

GL_COLOR_OP seems not supported in current MESA.

commit f871d174a861e7c3d2b8f4d9a3f10c38a5120606
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 19 11:40:38 2011 +0800
glamor: Switch to software fb for too large pixmap.

If pixmap's size exceeds the limitation of the MESA library, the rendering will fail. So we switch to software fb if it is the case.
Add one new element for pixmap private structure to indicate whether we are a software fb type or an opengl type.

commit 74ca45e7d0ed6654204189793261ef65f213bb2e
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Wed May 18 16:48:06 2011 +0800

glamor-ddx: Fixed one bug when a client reset the connection.

This commit fixed two bugs when one client reset the connection.
The first is that we should reopen the graphic device when the previous node was closed during the screen closing. The second one is we should call glamor_close_screen (not the ddx version) prior to call eglTerminate(). As eglTerminate will release the share library. And the glamor_close_screen may still need to call OpenGL APIs and thus will hit segfault. And renamed the ddx functions to avoid naming conflications with the glamor functions.

commit c97d4533f29c77d80c076def9ad0f218eb2e8f4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 12 14:49:08 2011 +0800

glamor: Silent compilation warnings due to some deprecated APIs.

those xcalloc/xfree/xalloc/XNFprintf/... are deprecated. Replace then with the new one. And fix some other minor problems.

commit e3295d4106ac5b62f63e32dcb24a6094194cb1a8
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 12 10:22:07 2011 +0800

glamor-ddx: Move the cursor EGL image to crtc strcture.

Cursor is a per crtc resource. And this commit also fix the cursor initialization regard to the latest mesa EGL code. Now hardware cursor works fine.

commit 4328037268617760311b175e92e1c88ad4ccee
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Thu May 12 01:42:05 2011 +0800

glamor-ddx: Fix a compiling error. Need revisit.
GC is redefined in the X11/Xlib.h and include/gcstruct.h which is a xorg header file. Just use a macro to simply avoid the conflict. Need revisit latter to find a correct way to fix this problem.

commit 18a52e23882e4664f6b2de4958c4f9e97e16068c
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu May 12 01:37:52 2011 +0800

glamor-ddx: Migrate the code to latest mesa library.

Use eglCreateDRMImageMESA to create surfaceless image. And then export the drm buffer back which can be used to create the frame buffer.

commit eb3487a448ff0efa46079323821d65d7c3e4d872
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Thu May 12 01:08:38 2011 +0800

glamor: Add new feature which is to flip output on y axis.

Due to the coordinate system on EGL is different from FBO object. To support EGL surface well, we add this new feature. When calling glamor_init from EGL ddx driver, it should use the new flag GLAMOR_INVERTED_Y_AXIS.

commit 6dae8dc7ea6e7add3c6fda30773f264904ef8df5
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed May 11 15:57:05 2011 +0800

glamor: Add glamor-ddx driver to the build tree.

Correct the linking parameters and add dependency to the libglamor.a.

commit 26ff612171d53baef08078a852875d5ddf1804ed
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date: Wed May 11 15:54:50 2011 +0800

glamor: Resolved merge conflicts with Kristian's glamor-ddx patch.

commit 49bf0e301e7317a02e8b34ec2e290fcfda520e7e
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Fri Mar 5 14:53:35 2010 -0500

glamor ddx driver using EGL on KMS
glamor: Fixed one segfault bug when close screen.

move the original glamor_fini to glamor_close_screen. And wrap the CloseScreen
with glamor_close_screen, Then we can do some thing before call the underlying
CloseScreen().
The root cause is that glamor_fini will be called after the ->CloseScreen().
This may trigger a segmentation fault at
glamor_unrealize_glyph_caches() at calling into FreePicture().

commit 0d9e8db8d031d22b02df2ce9b226287b1ca489f5a
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 8 15:30:45 2011 +0800

glamor: Fixed one linking error.

As current glamor implementation depends on the glx library in the
mesa package which is conflict with the version in xorg. We have to
--disable-glx when build Xephyr. But this leads to the linking error
here. We comment out the calling to ephyrHijackGLXExtension() now.
Need revisit latter.

commit b3577a1c853d870f4d583a35d27012acb9099ef4
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 8 15:24:55 2011 +0800

glamor: Merged with latest xserver.

Merged with latest xserver, the major change is due to the API change of
the management of devPrivates.

commit 3105fe9f6491f37a1f82a9e6f03f4efaed6c7e92
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 8 15:22:52 2011 +0800

glamor: Call glamor_composite_rects only when enable RENDER.

commit f9843c7a35975b178ee9812d21e1f02a2120928
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 8 14:53:15 2011 +0800

glamor: Fixed one conflict data type(XID) bug.

We should include the dix-config.h for all the glamor files. Otherwise
the XID type maybe inconsisitent in different files in 64bit machine.
The root cause is this macro "#define _XSERVER64 1" should be included
in all files refer to the data type "XID" which is originally defined
in X.h. If _XSERVER64 is defined as 1, then XID is defined as CARD32
which is a 32bit integer. If _XSERVER64 is not defined as 1 then XID is "unsigned long". In a 32bit machine, "unsigned long" should be identical to CARD32. But in a 64bit machine, they are different.

commit e194740c9413bbfeefee6506a734e0c82c091dfa3
Author: Zhigang Gong <zhigang.gong@linux.intel.com>
Date:   Fri Apr 8 14:49:57 2011 +0800

glamor: Fixed some compiling and linking errors.

Change the inline functions to static type, otherwise when linking it complains multiple definitions of those functions.

commit 8fcce614032320bb6a2eca2c61baeef388d22ea
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Feb 19 07:14:13 2010 -0800

glamor: Add support for using EXT_framebuffer_blit to do CopyArea.

commit d2da9d1c22d251f86ecd83c15ca9909fab8610a
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Feb 19 07:36:28 2010 -0800

glamor: Reduce the noise from wide lines "fallback".

commit 955ccfbc34f370c80f7189ac5b0240e859e00b5f
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Feb 19 07:52:50 2010 -0800

glamor: Fix the segfault at screen fini.

commit 003dee4c82f8a9e7749876c736018410f347440
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Feb 19 06:10:11 2010 -0800

glamor: Replace the immediate mode in glamor_fill() with glDrawArrays().

commit 60775e21e3532452891e1b52589f7d5d7ef04b40
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 18 18:11:54 2010 -0800

glamor: Use a VBO to accumulate multiple glyph quads at once.

This increases us from 23000 to 27000/sec on rgb24text.

commit 8ce312e61952e9f2193c28ac6124e0f30f3a122c
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 18 14:49:06 2010 -0800
glamor: Use `glamor_composite_with_shader` once per group of glyphs.

This shaves CPU time in GL setup. Performance of `rgb24text` went from 18400/sec to 23500/sec.

Commit 6ce05e0b28052e5206694228218322f0dd3a6b00
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 18 14:44:20 2010 -0800

  glamor: Convert the shaders path to handling `glamor_composite_rect_t`.

Commit 858ce0c1928c199435c9c2627f84c37e7ca7a38a
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 18 14:02:48 2010 -0800

  glamor: Add support for component alpha rendering.

    Brings `x11perf -rgb24text` from 230/sec to 18400/sec

Commit d07fc66a056dd4eab2dac82b3784c482071d1915
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 18 09:23:22 2010 -0800

  glamor: Rework shader setup to make extending the IN types easier.

Commit 8cefa287ddb4ed4ad178e751b35bb93b4a44e0ab
Author: Eric Anholt <eric@anholt.net>
Date: Wed Feb 17 16:00:22 2010 -0800

  glamor: Add a little mechanism for only printing fallbacks when they happen.

    Sometimes we want to try a couple of different methods for accelerating. If one of them says "no" and the other says "yes", don't spam the log about the "no."

Commit 5f5c35b56d3568f72e2305e74ed8457e0a787a3b
Author: Eric Anholt <eric@anholt.net>
Date: Wed Feb 17 15:02:17 2010 -0800

  glamor: Fix up the fallback message for no texture present on compositing.

Commit 2fa95725d845e5bf8a41ac776267be0d55d58004
Author: Eric Anholt <eric@anholt.net>
Date: Wed Feb 17 13:33:48 2010 -0800

  glamor: Add support for a1 composite sources.
They're stored just like a8, but the values are set to either 0.0 or 1.0. Because they're a8 with only two legal values, we can't use them as destinations, but nobody's rendering to a1 dests anyway (we hope).

commit 9bc6cbb8c2e8945fa5c4f4ad1a772b787618455f
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Feb 17 13:30:20 2010 -0800

glamor: Fix and enable ZPixmap PutImage acceleration.

commits 2ba634fab9b03995629497ef6bf5305394011e4a
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 11 17:32:27 2010 -0800

glamor: Fix render source transforms.

Fixes (except for small bit differences) cairo source-pattern.

commits b1f67a50f2420abb1f141733833905f8ac95fe983
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 11 17:15:05 2010 -0800

glamor: Fix and enable glamor_get_spans().

This makes running the cairo test suite almost tolerable.

commits f88d76cf7e05cf885d80c0b91f37f1b30675e928
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 11 16:51:13 2010 -0800

glamor: Enable glamor_fill_spans().

x11perf -wline100 performance goes from 8.8/sec to 111/sec.

commits a63df0c504be3be0e969f5080a6593a55cb87246
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 11 15:00:32 2010 -0800

glamor: Fix up the wide/non-solid lines fallback.

commits d61a13c0f0a3028bca41310a4f5ecca8546961
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 11 14:52:04 2010 -0800

glamor: Fix and enable tile fill acceleration (aka the root weave).

commits 86a206525350b7e82ab0e432ad0f8858960857d
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 11 13:40:28 2010 -0800

glamor: Fix off-by-one in CopyPixels CopyArea path.

Fixes window dragging in uncomposited metacity.

commit be82a0624207b5f367b97c25ac7d7dbd8a518597
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 11 13:21:47 2010 -0800

glamor: Fix screen_x/screen_y handling for compositing.

It's not an offset from pixmap coords to composited pixmap coords, it's an offset from screen-relative window drawable coords to composited pixmap coords.

commit 5360b1e8bbae571b1209999e7eeec7cd2826601497
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 11 09:47:38 2010 -0800

glamor: Implement glCopyPixels based src == dest CopyArea acceleration

commit 0565c1d789ed82c533f860713d66b4941c299f9c
Author: Eric Anholt <eric@anholt.net>
Date: Tue Feb 9 22:35:04 2010 -0800

glamor: Add support for accel of x8r8g8b8 source pictures.

There's a limitation still for RepeatNone, but this fixes a bunch of fallbacks for gnome-terminal.

commit e6bf50573650f03c8130b7783485b24e98e15c79
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 11 09:23:09 2010 -0800

glamor: Set active texture on glamor_copy_n_to_n setup.

Fixes failure in rendercheck -t blend -o src

commit be64167fe3a3c74447ed3c5116b97473676c25b29
Author: Eric Anholt <eric@anholt.net>
Date: Thu Feb 11 09:20:50 2010 -0800

glamor: Don't try to CopyArea from a Solid source picture.

Fixes failure with rendercheck.

commit 126fc09cb5bf8c388b73f1c2cd2a0ef588c3265e8

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34689
glamor: Rework the Render shader setup to be easily modified, like cairo-gl.

commit f4a3194837e640997c0e3a775f48a49800e213c6
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 9 22:35:04 2010 -0800

    glamor: Add the glyph cache from UXA (de-camelCased).

    This doesn't yet have an optimized glamor_composite_rects() implementation, but it does triple the speed of x11perf -aa10text.

commit 7e6432c7b94f7f99b257da8de53573108d30ae22
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 9 22:54:40 2010 -0600

    glamor: Fix up and enable accelerated composite.

commit a0b589e90a885cf20b349b95df31bb0823a1514b
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 9 22:49:27 2010 -0600

    glamor: Restore planemask to all-on when finishing a fill.

commit d8c2662bf452a82c8fcbdd1c95a40ee34d2c32ca
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 9 22:48:28 2010 -0600

    glamor: Set active texture in finishaccess drawing.

commit 4f398b29dd42260d2c02e8e795546fd062397b1
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 9 21:56:39 2010 -0600

    glamor: Align stride of fallback pixmap data to 32 bits.

    fb/pixman demand this alignment, and all sorts of things go badly otherwise.
    Fixes piglit x11-8bpp-7x8-draw.

commit 15e58b5ff8c47c6c6f5172cc72758047b98024a
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 22:05:51 2010 +0100

    glamor: Split the copy path out into its own function.

commit ad67299fa2afc8b42432d71d14163a36e013f7
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 21:52:35 2010 +0100

glamor: Provide more information about the operands to fallback composites.

commits:

commit 4811e428a9206ef59487fb0d3fab160a19845d46
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 21:46:49 2010 +0100

glamor: Pull in UXA code for dumping some composites down to copy_n_to_n.

Window dragging with metacity+gnome-terminal+xcompmgr is almost credible.

commits:

commit 35847c578e9c35a3c90da792c34c1cb0cc536261
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 21:24:15 2010 +0100

glamor: Add acceleration for copyarea not from the screen.

commits:

commit 647b9fb49a5bb636ec9b0da6b70808328238543a
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 20:12:44 2010 +0100

glamor: Add CopyWindow implementation so it doesn't crash.

commits:

commit 95d4a5a6ab58625d8205461157263bff635ccd1a
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 19:38:00 2010 +0100

glamor: Enable fill acceleration and flip opposite for pixmaps too.

Here's my theory for the flipping: It doesn't really matter which
orientation we store the pixmaps if we don't scan them out. We have
to flip coordinates for the window system framebuffer. Doing so for
everything else makes things consistent. I'm not sure how this will
interact with future GLX integration, though.

commits:

commit 5332547a0ac6ae6b9f1a6c642e6fd6bf303108f
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Feb 8 17:14:34 2010 +0100

glamor: Fix prepare_access on 1bpp data.

Apparently I don't have anything hitting this path, so I'm not sure if
it's good or not.

commits:

commit c3c3a6349766b4fdee080ff203fb548725e42e50
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 15:34:45 2010 +0100

glamor: Use the pixmap stride in fallbacks instead of trying to guess it.

Mostly fixes gnome-terminal text.

commit 45de3d24b44aa3feabdda0e377d637f498e03eb0
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 14:40:06 2010 +0100

glamor: Replace the glDrawPixels in glamor_finish_access with GLSL.

Root weave displays. \o/

commit d8d3fa10346302384b8e62967c5a67893ed1c67b
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 14:53:41 2010 +0100

glamor: All the fallbacks in the world.

Bringup is really not flying when I can't see anything. So dump back
to all software so I can turn on a bit at a time.

commit 745502af962a2bb475c0c667c3091c2c080771dc
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 13:27:47 2010 +0100

glamor: Add check for EXT_bgra which we rely on.

commit 6ce378f11ff396f350cbaa280086f6f9600da29e
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 13:15:38 2010 +0100

glamor: Add fallback support for glamor_get_spans().

commit ec526eab8f02e0bcce859a1b7ebaf6c5bcc5e87
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 13:05:13 2010 +0100

ephyr: Hook the glamor into damage and draw into the backbuffer.

This should avoid a bunch of absurdity with GLX front buffer handling,
fix exposes, and improve performance. For now we're copying the whole
buffer while glamor is developed.

commit b5087ff9b1e5495c742e581f586c055de878dd4b
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Feb 8 12:47:59 2010 +0100
glamor: Fix the row length of 1bpp prepare_access.

commit e93070affdf64c47be02684e7902a61e7ae9fa33
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 12:44:03 2010 +0100

glamor: Fix up the access flags for glamor_prepare_access().

commit 0e56c182c3b06f5b02d357e2b8e930a580bd0274
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 12:16:30 2010 +0100

glamor: Add fallback support to glamor_put_image().

commit 22cad98975091ed724a37ee940946cd2899ebcbf
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 12:13:15 2010 +0100

glamor: Add fallback support to glamor_set_spans().

commit 55dae9b42e18dce1586770d31ee265178e68b744
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 12:09:52 2010 +0100

glamor: Add glamor_prepare_access_gc() from UXA.

commit 72a757ba00232fe88b42b977f5210fa119495b05e
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 11:58:52 2010 +0100

glamor: Use GL_MESA_pack_invert to avoid complexity in prepare_access.

commit e9d4794cd0bc6c8790204405fe09f968edfa409d
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 11:23:14 2010 +0100

glamor: Add fallbacks for Render.

commit de675893b7ce2880289cece13be6190d55f4fc29c
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 10:16:21 2010 +0100

glamor: Add fallbacks for glamor_copy_area().

commit ca58607a44c310ef369a097a068e83aa2a9e1c5b
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 8 09:58:55 2010 +0100
glamor: Move glamor_poly_lines to a separate file.

glamor: Fix the type for copyarea.

glamor: Add prepare/finishacess code based on UXA.

glamor: Add support for solid source pictures.

glamor: Add untested copyarea implementation

glamor: Accelerate PolyFillRect using glamor_fill instead of spans.

glamor: Add untested PutImage 1bpp XYPixmap support.
glamor: Add untested PutImage XYBitmap support.

commit 8a53566acb5870816807425dc805df888fa42792
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 25 13:06:11 2009 -0700

  glamor: make the polylines complaint a little more useful.

commit aa133069745fe59bb2f212b0816add9bae40c376
Author: Eric Anholt <eric@anholt.net>
Date: Tue Aug 25 12:10:32 2009 -0700

  glamor: Start adding render acceleration support.
  
  This brings in idr's glu3 code. We'll probably want to move to linking to
  it as a library, once an ABI-stable release is out.

commit 4a51cc0440c8d026fd8c82b40cfb188c6ea4a9f0
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 09:14:20 2009 -0700

  glamor: Add clipping to setspans.

commit 5fad4a5d9c02670c35ddf3e0f12f9d355b412103
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 09:10:14 2009 -0700

  glamor: Fix some screen_xy offsets to be the right way around.

commit 44e4599b83cc330a7c9edd7e18266f222a69418a
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:59:52 2009 -0700

  glamor: Move planemask to a function in case I decide to fill it in.

commit 8824111bef1091f97f61a27a549970d87eef9cab
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:29:30 2009 -0700

  glamor: add alu support to setspans.

commit c70ce72fd74354a0b9731dc8d4451f6aaf951117
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:24:54 2009 -0700

  glamor: Give setspans the same format support as getspans.
commit d9ef95c74b7b04a33398b4cfc1a81b480838b25e
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:17:06 2009 -0700

  glamor: Fix bad fallthrough in getspans (accessing invalid memory).

commit 0360ba361a67f6cfa5e9c65590ed8440a153c16e
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:06:57 2009 -0700

  glamor: Fix memory leak in getspans.

commit cdb1fe6d9682616b1def52fa38b2dae623e2503f
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 08:03:17 2009 -0700

  glamor: Move setspans to a separate file.

commit cfb8dea815086b9aafdd7bd314e02739e04dfc7d
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 07:22:14 2009 -0700

  glamor: Hook up miGetImage to fix some invalid accesses.

commit e3c02c09c125bb5def1a70a1264ef34b18182afa
Author: Eric Anholt <eric@anholt.net>
Date: Mon Aug 24 07:00:32 2009 -0700

  glamor: Add ALU support to solid, tile, and putimage.

commit 2b657d91d80a0a4d9fa2e390255ff87f51426b7c
Author: Eric Anholt <eric@anholt.net>
Date: Sat Aug 22 15:54:24 2009 -0700

  glamor: Add untested putimage support.

commit f66e5c4145d003247447ac1bf93f9737c6eaa27c
Author: Eric Anholt <eric@anholt.net>
Date: Fri Aug 21 10:05:32 2009 -0700

  glamor: Add 8bpp to get/setspans.

commit 93ad09144213fe6b9ce8bea7ebfcc2d60887810b
Author: Eric Anholt <eric@anholt.net>
Date: Fri Aug 21 10:02:02 2009 -0700

  glamor: Add trapezoids code.
This fixes segfaults on starting gnome-terminal.

commit 60ca0260f23cac6577aa85aacb0e5644d5f1b349
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 17:17:43 2009 -0700

glamor: Add more solid_fail_regions for software fallbacks.

commit 7500ee2b0215932ecb6688f301fb4e6f080f8a66
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 17:05:00 2009 -0700

glamor: Fill in 1 and 24-bit getspans.

commit f6c4fbb2ba66948ad5cc1cbe20e12de204de175d
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 16:43:22 2009 -0700

glamor: Add stub Composite support.

commit 2fa26c4958168064da95361db78ccc518ce8f3ed8
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 16:43:03 2009 -0700

glamor: Free resources when destroying pixmaps.

commit 16c3b929dd4cae6b40e847256db6ff32e63e9029
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 16:06:42 2009 -0700

glamor: Add untested support for tile filling.

commit 8016135ec7616530e64d0019ce0401e62b25e483
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 15:37:22 2009 -0700

glamor: Fill out glamor_get_color_4f_from_pixel() a bit.

commit 519103565c1b182014de93c58917bf7e5a35fcb
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 15:28:13 2009 -0700

glamor: Create FBOs for pixmaps.

commit f92d1478e984d57806731886820f47e1258b5115
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 14:45:47 2009 -0700
glamor: Maybe fix up the format/type for setspans.

commit 4f139db92fb283792adac8d39a49a083e4382fb5
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 14:43:43 2009 -0700

glamor: Add getspans implementation.

commit f1dbed5456e5a608425530e0dfe2dc617a7c6115
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 12:32:53 2009 -0700

glamor: Move to using shader objects.

commit fbbe7788c822e8a2d2726435bfa39e69a0e85
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 12:36:33 2009 -0700

glamor: Fix up DrawPixels arguments to bear some relation to reality.

commit 74f262bcbdb3d8ae769ef8975cf4a4b2eabaeb6b39
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 11:39:05 2009 -0700

glamor: remove gratuitous flush.

commit 399e00798976dd2e503b3a922be54ab24ea26d9
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 11:37:37 2009 -0700

glamor: Fix up block/wakeup handler.

Prototypes are fixed, and we don't need to flush on wakeup.

commit 2e35ceca65bbebf07c15ea2cfc932a8749955c2b
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 11:19:43 2009 -0700

ephyr: Use GLEW.

This will hide all sorts of extension stuff from us.

commit 370df817ac0b3346f1c7aa0b6e8823c77797ccaa9f
Author: Eric Anholt <eric@anholt.net>
Date: Thu Aug 20 09:35:24 2009 -0700

ephyr: Make sure a glamor-using window is created with a glx visual.
commit 08097434ecc6479dc69a408523f398284168697e
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 20 09:10:12 2009 -0700

    add fill files, merge with first real attempt at rendering.

commit e32efb02e5df9124e8680f9a15d9d2b01db84c7
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Dec 20 14:48:18 2008 -0800

eephyr: merge the host glamor bits into hostx.

commit df083fab84cf57fc1a2e3cd98572039bc9fe20de
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Dec 20 13:43:52 2008 -0800

glamor: first real attempt at rendering.

commit 1b151f2e6aa581400b09220b87ae2d34a39aeb17
Author: Eric Anholt <eric@anholt.net>
Date:   Sat Dec 20 13:48:39 2008 -0800

glamor: glFlush from the blockhandler so rendering happens.

commit b530cdea4a8e05b1f487765b8ddef42cede1a6fc98
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 16 15:20:49 2008 -0800

glamor: Use a nicer struct initializer for gcops.

commit 4d52ae7f2dca78d493e11375d764c978db5567ed
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 16 15:14:31 2008 -0800

glamor: Start trying to hook up the rendering bits

commit 41e3e580de9fca3095d015ec8febe1a5f47cca3
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 20 10:49:41 2009 -0700

glamor: Use -lgl for Xephyr if GLX is unset.

I'm experimenting with that because of conflicts with GL dispatch tables.

commit 8885b3b1ffb45ae16484151ce533683af526f509
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 16 15:08:21 2008 -0800
Add exa/glamor to _DEPENDENCIES so the bin gets rebuilt with the libs.

commit da6e0ffad2173d65f27eff36291f94e6aa06f88
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 16 14:00:05 2008 -0800

More ephyr/glamor glue.

commit 0ec823ce5b72bce3923f2f23e5386feb0107b
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 16 12:30:14 2008 -0800

Add build infrastructure for glamor.

commit 84bb0207f6db433a8d387d933393357da87ca23e
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Sep 23 20:03:03 2011 -0400

dix and os: gitignore dix.O and os.O

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 3d41939d0349569dcef2ae9b846c739d0ba0060
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Sep 22 17:41:38 2011 -0700

Unconditionally #include <stdint.h>

The more recent inclusions of this file haven't been checking for
HAVE_STDINT_H, so might as well make the older ones consistent.

Reviewed-by: Jeremy Huddleston <jeremyh@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 46d5a5b551cc926331324073f2686b47e8ae07
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Sep 23 09:38:25 2011 -0400

dtrace: fix typo in title

The word provider should be capitalized.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
commit 6cae6224994e3252b3b7c7608f983ce73e0206fc
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Sep 23 09:38:24 2011 -0400

dtrace: use docbook copyright markup for copyright holder

No content change to copyright text.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 58d3d46d66c0d7a81db6bad61d158f3b9af8af71
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Sep 1 16:48:37 2011 -0700

Assign ids to more tags in Xserver-Dtrace.xml

Keeps xsltproc from adding random-number id tags to html output so that it's easier to see real changes vs. different random numbers.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Dew <marcoz@osource.org>

commit 7fb4be0394a509680985d34bce8252b61493cb
Merge: 98f4940093 c90903b34f7
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 21 14:34:27 2011 -0700

Merge remote-tracking branch 'mattst8s88/for-keith'

commit 98f4940093dc90c3366d3e4d3ddceacbae299dc
Merge: b018b81533 c8eaceae4f8
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 21 14:30:19 2011 -0700

Merge remote-tracking branch 'alanc/master'

commit b018b81533b256b5e06dd6251b2e539f09f89fa
Merge: 03d032991d 0f380a5005
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 21 14:17:14 2011 -0700

Merge remote-tracking branch 'jamey/reviewed'

commit c90903b4f7a826ae6826a8dd0a901c8362500e46
Author: Peter Harris <pharris@opentext.com>
xkb: add missing swaps for xkbGetDeviceInfoReply

Caught during review of e095369bf.

Signed-off-by: Peter Harris <pharris@opentext.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit d206d52f657cb63a0f6ba8b62d788c1812b57c81
Author: Matt Turner <mattst88@gmail.com>
Date:  Tue Aug 16 19:19:24 2011 -0400

Use __builtin_constant_p to determine if we can use lswapl

If the address of the swapped memory location is known at compile time, we can check its alignment at no runtime cost and use lswapl instead.

<p>| | | | | | |</p>
<table>
<thead>
<tr>
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<td>52136</td>
<td>78040</td>
<td>2002996</td>
<td>1e9034 hw/xfree86/Xorg</td>
</tr>
<tr>
<td>after</td>
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<td>52136</td>
<td>78040</td>
<td>1994572</td>
<td>1e6f4c hw/xfree86/Xorg</td>
</tr>
</tbody>
</table>

bswap instructions: 131 -> 308 (used in lswapl)
rol instructions: 943 -> 1174 (used in lswaps)

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 889b700e7760ced38bcf5f3aff2d31d3d9a058d7
Author: Matt Turner <mattst88@gmail.com>
Date:  Tue Aug 16 19:12:21 2011 -0400

Use lswap{l,s} in cpswap{l,s}

Should be safe since cpswap isn't used on pointers.

<p>| | | | | | |</p>
<table>
<thead>
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</thead>
<tbody>
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<td>1e9b04 hw/xfree86/Xorg</td>
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<tr>
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<td>52136</td>
<td>78040</td>
<td>2002996</td>
<td>1e9034 hw/xfree86/Xorg</td>
</tr>
</tbody>
</table>

bswap instructions: 5 -> 131 (used in lswapl)
rol instructions: 811 -> 943 (used in lswaps)

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit a2f0ff5f73db204a9d61e65148b28f6acc5121df
Make lswap{l,s} inline functions

<table>
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<tr>
<th>text</th>
<th>data</th>
<th>bss</th>
<th>dec</th>
<th>hex</th>
<th>filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>before: 1875668 52136 78040 2005844 1e9b54</td>
<td>hw/xfree86/Xorg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>after: 1875588 52136 78040 2005764 1e9b04</td>
<td>hw/xfree86/Xorg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit e8ff555b95baab66cc7d060c1e7f9fdd49d3802f
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Aug 16 19:07:24 2011 -0400

Add type checking to swap macros

The original macros are retained (instead of replacing them with inline functions) because of implicit type promotion. That is, an int16 passed to an inline function taking int32 would be implicitly promoted to int32 without a warning.

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 893e86a49e3e381cff48a9e86dc2d9b3d5431d95
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Aug 16 19:03:26 2011 -0400

Introduce swap_uint{16,32} functions, used in swap{l,s}

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 54770c980cd2b91a8377f975a58ed69def5cfa42
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Aug 16 16:59:07 2011 -0400

Cast char* buffers to swap functions

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 9edcae78c46286baff42e74bfe26f6ae4d00fe01
Author: Matt Turner <mattst88@gmail.com>
Date:   Wed Sep 21 17:14:16 2011 -0400
Use correct swap{l,s} (or none at all for CARD8)

Swapping the wrong size was never caught because swap{l,s} are macros.

It's clear in the case of Xext/xres.c, that the author believed client_major/minor to be CARD16 from looking at the code in the first hunk.

v2: dmx.c fixes from Keith.

Reviewed-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 03d032991da21bf866ca30dcb66b7f9f99df441a
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Sep 14 15:25:06 2011 -0700

fb: Rename wfbTriangles and wfbTrapezoids

These symbols were not renamed when they were added to libfb:

```
# nm -D libwfb.so | grep ' fb'
0000000000028d00 T fbTrapezoids
0000000000028d60 T fbTriangles
```

This causes corruption and/or crashes on wfb-ful drivers like nvidia:

Program received signal SIGABRT, Aborted.
0x00007fd67f3a0405 in *--GL_raise (sig=<optimized out>) at ./nptl/sysdeps/unix/sysv/linux/raise.c:64
84   ../nptl/sysdeps/unix/sysv/linux/raise.c: No such file or directory.
in ../nptl/sysdeps/unix/sysv/linux/raise.c
gdb bt
#0 0x00007fd67f3a0405 in *--GL_raise (sig=<optimized out>) at ./nptl/sysdeps/unix/sysv/linux/raise.c:64
#1 0x00007fd67f3a3680 in *--GL_abort () at abort.c:92
#2 0x00007fd67f3995b1 in *--GL___assert_fail (assertion=0x7fd679ecb804 "key->initialized", file=<optimized out>, line=116, function=0x7fd679ecbb0 "dixGetPrivateAddr")
at assert.c:81
#3 0x00007fd679ec55b6 in ?? () from /usr/lib/xorg/modules/libfb.so
#4 0x00007fd679eca9ef in ?? () from /usr/lib/xorg/modules/libfb.so
#5 0x00007fd679eae20 in fbTriangles () from /usr/lib/xorg/modules/libfb.so
#6 0x00007fd67a58fc55 in ?? () from /usr/lib/xorg/modules/drivers/nvidia_drv.so
#7 0x000000000004f8d1 in ?? ()
#8 0x00000000000437ae9 in ?? ()
#9 0x00000000000426eaa in ?? ()
#10 0x00007fd67f38ced in __libc_start_main (main=<optimized out>, argc=<optimized out>, ubp_av=<optimized out>, init=<optimized out>, fini=<optimized out>,
    rtld_fini=<optimized out>, stack_end=0x7ff99860d78) at libc-start.c:228
#11 0x0000000000042719d in _start ()
Use internal temp variable for swap macros

Also, fix whitespace, mainly around

swaps(&rep.sequenceNumber)

Silence printf format warnings in helper_exec.c

Replace Fabs() macro with fabs() function

gcc generates better code with fabs() anyway.
The developer docs are generated from a subset of docbook.am which is sometimes updated.

The one difference for xserver is the embedded css style in the HEAD element.

This makes the whole html docs tree much more relocatable. In addition, it eliminates xorg.css as a runtime file which makes xorg-sgml-doctools a build time only package.

Adding support in libX11 for html chunking caused a reorg of docbook.am as well as the xorg-sgml-doctools masterdb for olinking.

The parameter img.src.path is added for pdf images.

A searchpath to the root builddir is added for local entities, if present.

This feature was initiated by xserver module and made available to all.
The docbook.am makefile hides all the details and is identical for all 22 modules having DocBook documentation. It is included by a thin Makefile.am which requires no docbook knowledge.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 871d65790cc2ac0fd65105c2d599f63a86fcaf1
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Nov 1 16:02:11 2010 +0200

DRI2: Allow DDX to validate swap_limit changes

DDX can now implement validation for swap_limit changes to prevent configurations that are not support in driver.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
CC: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit b435e2aac1b3fbb97d0275de73a1e36d16f170c0
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Nov 1 16:22:00 2010 +0200

DRI2: Expose API to set drawable swap limit.

This allows ddx to set swap_limit if there is more than one back buffer for drawable. Setting swap_limit has to also check if change affects a client that is blocked.

This can be used to implement N-buffering in driver with minimal logic in allocation and selecting next back.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Francisco Jerez <currojerez@riseup.net>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 86f8da0aa7612558e6563f5de0d9f9793854053f
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Nov 1 16:21:59 2010 +0200

DRI2: Add ReuseBufferNotify hook

ReuseBufferNotify hook is called whenever old buffer is reused in DRI2
code.

Driver can use this hook to rewrite the buffer name if hardware requires shared buffers. Shared buffer might be some hardware limited resources like framebuffer that is preallocated in boot.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2f474333fef2cf63063e069ead9003891d135e87f
Author: vdb@picaros.org <vdb@picaros.org>
Date:   Wed Sep 7 17:47:56 2011 +0200

print DisplayMode type bits

Dear,

A patch I posted on xorg-devel was reviewed and is ready for inclusion in xserver. Would you be willing to apply the patch so that it finds its way into the master branch?

Thank you, Servaas Vandenberghe.


This patch adds printing of the DisplayMode type bits to xf86PrintModeLine(). It helps to trace the modeline origin and to understand the initial configured modeline.

Reviewed-by: Alex Deucher <alexander.deucher at amd.com>
Signed-off-by: Servaas Vandenberghe
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c92c83523ede88bc361526ac93d090d089fbbda0e8
Merge: 4ad271d06c 24b2b43e85
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 21 13:32:06 2011 -0700

Merge remote-tracking branch 'kibi/master'

commit 4ad271d06c5aa42721c0e2e01e17e34a39825c65
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Aug 29 20:44:18 2011 -0700

xfree86: Bump extension ABI version to 6.0
The video driver ABI was bumped to 11.0 in commit 0de7ce00373a5020150309866bb0e23b6f479 because of a change to the size of ATOM in commit 51f353d0a0d116af16d7d9590cadef6c56328746. This also affects extension modules, so the extension ABI version should have been bumped too.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

The massive decrease in the cost of whitespace in the past decade has allowed us to be much more generous with it, and much more consistent in its application, even for code like this that clearly no one has ever tried to read.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Removing unused ClientStateAuthenticating

Appears to be leftover from the Kerberos code deleted in 2007 (commit dfbe32b5b828cc4e3da36a0e2e6ad641166ea5e).
Nothing left ever set clientState to ClientStateAuthenticating

Skipped over 1 to preserve existing enum numbering.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Fix pixmap double-frees on error paths.

If AddResource fails, it will automatically free the object that was
passed to it by calling the appropriate deleteFunc; and of course
FreeResource also calls the deleteFunc. In both cases it's wrong to call
the destroy hook manually.

Commit by Jamey Sharp and Josh Triplett.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Josh Triplett <josh@joshtriplett.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

Eliminate MAXSCREENS-sized CursorScreenKey array.

Use new per-screen privates API instead.

Commit by Jamey Sharp and Josh Triplett.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Josh Triplett <josh@joshtriplett.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Revert "Bug #6924: Restore the ABI for DrawableRec and ColormapRec to the state"

This reverts commit bc0c56c407117d1545e20d21f7d30eb3472d618b since we're
breaking ABI anyway.

Conflicts:

ChangeLog
dix/colormap.c
dix/pixmap.c
dix/window.c
include/pixmapstr.h
Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 13ac1ba480ee3e89163825cd2777f9a6e9dcb9f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue May 31 19:42:48 2011 -0700

Remove unused ClientStateCheckingSecurity & ClientStateCheckedSecurity

Appear to be leftovers from the XC-QUERY-SECURITY code deleted in 2007
(commit 375864cb74ccd40ae688078b1f7750998972535).
Nothing left ever set clientState to ClientStateCheckingSecurity.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 78f946c297081d39d312e05928146c78f59fedcb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu May 19 23:26:31 2011 -0700

sun_init.c: Implement novtswitch & sharevts for Solaris

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: John Martin <john.m.martin@oracle.com>

commit 87cc83474d9890d14d9bc60926a97bd0d5b059af
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun Sep 18 20:47:04 2011 -0500

Replace XmuSnprintf with snprintf.

Alan Coopersmith explains:

XmuSnprintf() can be replaced by snprintf() now. (It was a
implementation X provided for it's libraries to use in the days
before all platforms we cared about had snprintf in libc.)

Reported-by: walter harms <wharms@bfs.de>
Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit df4eeb1256c7c5e7a3f88f10da2915c7a07a8db8
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue Jun 8 13:58:04 2010 -0700

xnest: Delete unused nClipRects GC-private field.
XineramaInitData ignores its argument. Quit passing one.

Also fix up XineramaInitData's caller, XineramaReinitData.

Commit by Jamey Sharp and Josh Triplett.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

dmx: Fix some "no previous prototype" warnings by making functions static.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

dmx: Fix a non-constant printf format string warning.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

sun_init.c: Move vt switches to a switch_to helper function like lnx_init.c

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

Commit by Jamey Sharp and Josh Triplett.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Xorg.man: Add -novtswitch and -sharevts options

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 93abda6bddd7f770dbfc3d4d0ada61ea84a7b7b9be
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu May 19 22:39:09 2011 -0700

xfree86: move -novtswitch & -sharevts argument handling up to common layer
Stop duplicating in each os-support variant before it gets replicated even further.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alexandr Shadchin <Alexandr.Shadchin@gmail.com>

commit d8d99e14b1241fd8c099d69b8d0ed0817585fe8d
Author: Jamey Sharp <jamey@minilop.net>
Date: Wed Sep 14 09:52:58 2011 -0500

configure.ac: Remove unreachable check for VM86 headers.
"configure --with-int10" is not a valid configuration, and the check for sys/vm86.h and sys/io.h is not used. Delete it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 94b2eea86319934316bdb013f6f3940685a88a2f
Author: Jamey Sharp <jamey@minilop.net>
Date: Wed Sep 14 11:23:03 2011 -0500

int10: Delete #if 0'd implementation that's older than our git history.
Throughout the xserver git history, the generic portion of the int10 module has always used other methods for reading the video BIOS. For some time now it's been purely libpciaccess based. This commented-out use of xf86ReadBIOS is entirely superfluous.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6ad7bb69eebd5e5b4068bd9aa0b9a7168f075006
Remove PC98 support.

Gaetan Nadon wrote:

Alan Coopersmith wrote:

"I think we recently dropped PC98 support from the X server, so I'd be okay with dropping the documentation now".

Let's make them be right, shall we?

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Gaetan Nadon <memsize@videotron.ca>
Acked-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 9eb22ebf46b77c15e53017a37c7ef605521dc164
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue Sep 13 16:30:06 2011 -0500

configure.ac: XORG_OS is not used, so delete it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 76636f30f7cf2344f4038c59bf292db19be33d53
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue Sep 13 13:10:10 2011 -0500

configure.ac: Remove unused XORG_OS_PCI variable.

This is the last mention after ccfaf82367c9d057fd8314ce36b47f0a8eb696b6 quit using the variable.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

Tiago Vignatti posted an identical patch in June 2010, which I only noticed after getting the above reviews. His patch was:

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
commit 60b4bd181bbdc794c7f3547f67df916132aa111e
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue Sep 13 14:31:24 2011 -0500

x86emu: There is no NO_INLINE implementation of unaligned access here.

Patch produced with:
  unifdef -UNO_INLINE -B

This change isn't relevant to the similar code in
hw/xfree86/common/compiler.h, because x86emu is expected to someday move
out of xserver entirely and so should not depend on any xserver headers.
Also, some platforms apparently do have NO_INLINE versions of
compiler.h.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 24b2b43e85c1e3f3d242ccab8793bf4ef83cfac4
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 14:53:08 2011 +0200

render: Replace __inline with inline.

Also remove traces from the past.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 9f01249d7f81514a38c44df2a4a4612dbf97cae
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 15:10:56 2011 +0200

configure.ac: Fix help string for mitshm.

Pasting from ./configure --help's output, one would get:
  configure: WARNING: unrecognized options: --disable-shm

Fix the help string to include the previously missing “mit” bits.

Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 0caeeef6146bee5fb1827ab25db191685dde9d4b4
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Aug 26 16:46:13 2011 -0700
Version bumped to 1.11

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 05284a03f9002b03a66ae355b34790ec02b726f0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Aug 4 14:45:46 2011 +1000

input: make InputOption opaque, provide interface functions.

InputOptions is not switched to use struct list for a future patch to unify it with the XF86OptionRec.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit fcfe825751be9f99f4c0b36250ca6f15f127502f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 8 15:21:46 2011 +1000

Add null-terminated list interface.

This is a set of macros to provide a struct list-alike interface for classic linked lists such as the XF86OptionRec or the DeviceIntRec. The typical format for these is to have a "struct foo *next" pointer in each struct foo and walk through those. These macros provide a few basic functions to add to, remove from and iterate through these lists.

While struct list is in some ways more flexible, switching legacy code to use struct list is not always viable. These macros at least reduce the amount of open-coded lists.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 79ca7c0b5786a02a80a1c40ed475e928da7c82b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 12 15:55:48 2011 +1000

xfree86: comment typo fix

in synch in sync

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2bfb802839688ecf328119c4c6979390fc60348d
Author: Peter Hutterer <peter.hutterer@who-t.net>
dix: don't XWarpPointer through the last slave anymore (#38313)

This line was introduced pre-1.6 to fix Bug 19297. The effect of warping through the VCP then was that if a device had custom valuator ranges, the warp position would be wrong. The better device for this effect is the the XTest device.

This fixes a server crash where the lastSlave is a pointer device without valuators (Bug 38313#0).

And while we're at it, make sure the Xinerama code-path does the same.

X.Org Bug 38313 <http://bugs.freedesktop.org/show_bug.cgi?id=38313>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b29ce0726d55ec41cfbee0814e21b0217ef64efe
Author: Nobuhiro Iwamatsu <iwamatsu@nigauri.org>
Date:   Tue Aug 9 11:00:34 2011 +0900

Disable check of double-aligned in test/input.c on Renesas SH

Renesas SH is not aligned at size of double.
When structure has double value, It is aligned in 4byte (long).

Signed-off-by: Nobuhiro Iwamatsu <iwamatsu@nigauri.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3be379f5076566edaf92c27df5a4d447bcf5d015
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Aug 11 10:59:07 2011 +1000

dix: use helper functions in EventIsDeliverable

Proximity events don't have an XI2 type and caused error messages in the log when trying to get the event filter. Use this opportunity to clean up the code, instead of manually setting the fields that GetEventFilter requires use EventTo(XI2[ XI|Core]) instead.

Co-Authored-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 799879797505a5e891ccaec2bea73fd838e94b7a
dix: abstract XI2 filter mask lookup

Don't access the xi2mask bytes directly or calculate the offsets manually, use a few helper functions instead. XI2 masks are a bit weird in the event handling code since they slot onto the legacy code. For core/XI 1.x events, the event mask is a CARD32. That mask is used together with the event filter (also 32 bit) to determine if event delivery should be attempted. XI2 masks are of arbitrary size and their mask is simply the byte of the mask that contains the event mask. Likewise, the filter is a single byte matching that mask. Provide helper functions get these bytes and masks in the right order instead of accessing them manually.

EventIsDeliverable should be part of this cleanup patch but it will be gutted with the next patch.

Co-Authored-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8c5a4d6fbcf79f2dc4f2d836d741203b2d5e856
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 1 14:12:41 2011 +1000

dix: don't use the pointer as modifier device in UngrabKey.

Modifier device is always the keyboard.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 3a077f24669ac07a37c1b01c3d321e0f5ebeb4153
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 3 15:07:23 2011 +1000

input: provide a single function to init DeviceEvents to 0

getevents.c already had that function, but XKB was manually initializing it, causing bugs when the event structure was updated in one place but not the other.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4b376ddeb4f3c9d9d279ffdd2946d88edd5af4fc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 1 14:20:53 2011 +1000
dix: fix compiler warnings ("foo" set but not used)

devices.c: In function 'AttachDevice':
devices.c:2409:18: warning: variable 'oldmaster' set but not used
    [-Wunused-but-set-variable]

events.c: In function 'ConfineToShape':
events.c:683:15: warning: variable 'pSprite' set but not used
    [-Wunused-but-set-variable]

events.c: In function 'ProcGrabPointer':
events.c:4759:15: warning: variable 'time' set but not used
    [-Wunused-but-set-variable]

getevents.c: In function 'GetMotionHistory':
getevents.c:425:9: warning: variable 'dflt' set but not used
    [-Wunused-but-set-variable]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 6fd2adc179141310e45a56ee90ef5b5f6115a1f6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 1 14:27:54 2011 +1000

mi: fix compiler warnings ("foo" set but not used)

misprite.c: In function 'miSpriteSaveUnderCursor':
misprite.c:940:12: warning: variable 'y' set but not used
    [-Wunused-but-set-variable]
misprite.c:940:9: warning: variable 'x' set but not used
    [-Wunused-but-set-variable]

mivaltree.c: In function 'miComputeClips':
mivaltree.c:226:10: warning: variable 'resized' set but not used
    [-Wunused-but-set-variable]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 484ce65b29e82402a15e155b3b8505b1e6a830
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 2 09:21:00 2011 +1000

Xi: silence compiler warnings (set but not used)

exeevents.c: In function 'UpdateDeviceState':
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 98fe735ea1d756711019c3d90ed6abd9c06abebf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 1 13:52:13 2011 +1000
dix: add KEYBOARD_OR_FLOAT and POINTER_OR_FLOAT to GetMaster()
GetMaster() currently requires an attached slave device as parameter,
resulting in many calls being IsFloating(dev) ? dev : GetMaster(...);
Add two new parameters so GetMaster can be called unconditionally to get the
right device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit dbbe5735d1451bb32f43bce90f0bceff46f9743
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 2 08:54:00 2011 +1000
test: add a test for GetMaster() behaviour

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b3c76b0c53ac42b70d12849da18465e8467e474c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 1 11:54:17 2011 +1000
mi: fix comment typo, whitespace in miPointerSetPosition

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c9562bed0d5e26b7e3e55e26cf1ddec5086d61cc6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 1 09:52:38 2011 +1000
dix: rename mieqSwitchScreen argument fromDix set_dequeue_screen, document

fromDIX is neither exactly true nor particularly helpful in understanding what this parameter triggers. Rename to set_dequeue_screen, because that's exactly what happens.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 09496996accafda7bce01097a25db400912004d97
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 28 15:56:08 2011 +1000

dix: ignore devices when adding passive core grabs to list (#39545)

Passive core grabs are mostly device-independent. In an MPX scenario, they may change to reflect whichever master pair activated the grab last. For adding new grabs to the list, ignore the device for core grabs to return failures when trying to set the same grab combo twice on a window.

X.Org Bug 39545 <http://bugs.freedesktop.org/show_bug.cgi?id=39545>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 80c37048539daa1d257d127d66502b4e45c97c85
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 28 15:43:10 2011 +1000

dix: avoid using the VCP as modifier device

Core grabs may change device when they're activated to reflect the master they apply to. If the device is a keyboard, modifierDevice is erroneously set to the Virtual Core Pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 20a61845d3c93c337bf3331a6bac30c66c2a293
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 9 11:21:06 2011 +1000

config: use add_option for `_source` too

`_source` was being allocated manually, with all other options added to that list through add_option. Skip the manual part, allocate the first option `_source` with add_option too.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit d33652dad8838ab0a9175ca4613a3161ebe5676f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 9 11:20:31 2011 +1000

config: return the new InputOption from add_option.

Change add_option to return the new InputOption on success, or NULL failure. This way we can at least check for errors in callers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit e684e816acb617b4dc66a68e2b0ba8f80399170a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 20 16:21:28 2011 +1000

config: fix a log message

PRODUCT was taken from the parent, hence ppath.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 1357cd725143ca35e32f15df658de111b151692
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 8 16:13:45 2011 +1000

Revert "Attempt to add the 'mouse' driver in more situations."

This reverts commit 43d9edd31e31b33b9da4a50d8ab05004881c8d5a.

This commit was introduced in the 1.2 cycle when hotplugging was less than ideal (i.e. it didn't exist). From the commit message:

Always add a mouse driver instance configured to send core events, unless a core pointer already exists using either the mouse or void drivers. This handles the laptop case where the config file only specifies, say, synaptics, which causes the touchpad to work but not the pointing stick.

We don't double-instantiate the mouse driver to avoid the mouse moving twice as fast, and we skip this logic when the user asked for a void core pointer since that probably means they want to run with no pointer at all.

To get this case above, a user would need to disable hotplugging _and_ have a xorg.conf that only references one device. This is possible, but not a use-case
we should worry about too much now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 159b03e13760920274b573a2bcccc56a79f059e7
Author: Lennart Poettering <lennart@poettering.net>
Date: Mon Jul 18 21:19:23 2011 +0200

config: add udev/systemd multi-seat support

Add support for multi-seat-aware input device hotplugging. This implements the multi-seat scheme explained here:

http://www.freedesktop.org/wiki/Software/systemd/multiseat

This introduces a new X server switch "-seat" which allows configuration of the seat to enumerate hotplugging devices on. If specified the value of this parameter will also be exported as root window property Xorg_Seat.

To properly support input hotplugging devices need to be tagged in udev according to the seat they are on. Untagged devices are assumed to be on the default seat "seat0". If no "-seat" parameter is passed only devices on "seat0" are used. This means that the new scheme is perfectly compatible with existing setups which have no tagged input devices.

Note that the -seat switch takes a completely generic identifier, and that it has no effect on non-Linux systems. In fact, on other OSes a completely different identifier scheme for seats could be used but still be exposed with the Xorg_Seat and -seat.

I tried to follow the coding style of the surrounding code blocks if there was any one could follow.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 95772598b57f6054f6bf88683fa0a492c77605790
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 8 16:10:07 2011 +1000

xfree86: use xf86AllocateInput for implicit devices too

Slowly merging the vastly different code-paths.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Commit: fa8f4652819b692faaf2789cf32d7fa99fbb34aa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Jul 4 15:02:20 2011 +1000

xfree86: factor out adding/removing a device from the input device array

No functional changes, just readability improvements. This also gets rid of the count variable. Count was just used for resizing the null-terminated list. Since we're not in a time-critical path here at all we can afford to loop the list multiple times instead of keeping an extra variable around.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Commit: 5b5477c05f691205064ca4d8034f8dd47ab975b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Jul 4 14:14:11 2011 +1000

xfree86: update comment for InitInput

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Commit: 7354f607833c69626d8692bc5176b18ea1cf6263
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Jul 4 14:26:13 2011 +1000

xfree86: nest loops instead of 0x1 pointers.

If we find the core device, move all other device pointers forward right then and there. The break will jump out of the top loop.

They had a special on braces today, so I added some for readability (and fixed up tab vs space indentation.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Commit: 5669aa2d24dff9ab276e5f74a09f97ec77b90e75
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Jul 4 14:05:30 2011 +1000

xfree86: improve readability of synthesized device.

No functional changes.

The options we assign are the ones from the Pointer/Keyboard device so we might as well use those readable names instead of dev[count-1]->options.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 5aa826cd1f2e768bedf23d399703a5d0b6302be
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 4 13:52:11 2011 +1000

test: add a option duplication test

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 4527e2b776cfcdac2b189b5439b9a3d0b6433077
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 4 13:46:24 2011 +1000

xfree86: when implicitly choosing a core device, set the option to a value

Devices are core pointers/keyboards by default now anyway, but let's set the
option to some value instead of just NULL.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 44d53728a6a533fc0a6e0a10269d1cc99e9dad32
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 4 13:44:44 2011 +1000

xfree86: don't warn about duplicate core devices

It doesn't matter. All devices are core pointer devices by default now
anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 033f53c223dc12a91f00e10a69f87a4f2a7adb6b
Author: Daniel Kurtz <djkurtz@chromium.org>
Date: Mon Aug 8 15:09:48 2011 +0800

xf86Helper: use LogHdrMessageVerb in xf86VDrvMsgVerb

LogHdrMessageVerb allows passing a parameterized header to insert in a log
message between MessageType and the formatted message body string.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
xf86Helper: use LogHdrMessageVerb in xf86VIDrvMsgVerb

LogHdrMessageVerb allows passing a parameterized header to insert in a log message between MessageType and the formatted message body string.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os/log: Add LogVHdrMessageVerb and friends

LogVHdrMessageVerb allows a custom header to be inserted in a log message, between the Log system’s MessageType string, and a formatted variable message body. The custom header can itself be a formatted variable string.

These functions can be used, for example, by driver abstraction layers to format specific driver messages in a standard format, but do it in a way that is efficient, obeys the log-layers verbosity settings, and is safe to use in signal handlers (because they don't call malloc), even for types besides X_NONE.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

os/log: Pull LogMessageTypeVerbString out of LogVMessageVerb

Also, optimize how the type and format strings are combined.

Signed-off-by: Daniel Kurtz <djkurtz@chromium.org>
Reviewed-by: Guillem Jover <guillem@hadrons.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
fb: Fix memcpy abuse

The memcpy fast path implicitly assumes that the copy walks left-to-right. That's not something memcpy guarantees, and newer glibc on some processors will indeed break that assumption. Since we walk a line at a time, check the source and destination against the width of the blit to determine whether we can be sloppy enough to allow memcpy. (Having done this, we can remove the check for reverse as well.)

On an Intel Core i7-2630QM with an NVIDIA GeForce GTX 460M running in NoAccel, the broken code and various fixes for -copywinwin{10,100,500} gives (edited to fit in 80 columns):

1: Disable the fastpath entirely
2: Replace memcpy with memmove
3: This fix
4: The code before this fix

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>258000</td>
<td>269000 (1.04)</td>
<td>544000 (2.11)</td>
<td>552000 (2.14)</td>
<td>Copy 10x10</td>
</tr>
<tr>
<td>21300</td>
<td>23000 (1.08)</td>
<td>43700 (2.05)</td>
<td>47100 (2.21)</td>
<td>Copy 100x100</td>
</tr>
<tr>
<td>960</td>
<td>962 (1.00)</td>
<td>1990 (2.09)</td>
<td>1990 (2.07)</td>
<td>Copy 500x500</td>
</tr>
</tbody>
</table>

So it's a modest performance hit, but correctness demands it, and it's probably worth keeping the 2x speedup from having the fast path in the first place.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ac2c307f4716ebd3e955c004ceec9f4c029401a0
Author: Pelle Johansson <pelle@morth.org>
Date: Sun Aug 14 17:44:40 2011 -0700

XQuartz: Initialize darwin pointer valuators

This fixes a regression introduced by: 633b81e8ba09cc6a1ea8b43f323874fda2cf0bde

http://xquartz.macosforge.org/trac/ticket/498

Signed-off-by: Pelle Johansson <pelle@morth.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4020cab88f5cf3164fc83cf912f94f288aa5a45d
EXA/mixed: Update sys_pitch in MPH even when there's no system memory copy.

Otherwise sys_pitch will be stale when a system memory copy is allocated.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=38322 and a crash when unlocking the screen with xscreensaver, reported by Janne Huttunen.

Signed-off-by: Michel Dänzer <michel.daenzer@amd.com>
Tested-by: Janne Huttunen <jahuttun@gmail.com>
Tested-by: Jan Kriho <Erbureth@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a1dec7cd6adabaf8770dc3b21b0df30ce2f0bc8d
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jul 7 19:18:03 2011 +0200

Xephyr/dri: register screen and window privates on init

Fixes assertion failure when calling dixSetPrivate
Debian bug#632549 <http://bugs.debian.org/632549>

Reported-and-tested-by: Mohammed Sameer <msameer@foolab.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 39bc81b60ddc9e495ff3b9bb3c3a6c39e547b43a
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Aug 3 20:57:03 2011 -0700

Version bumped to 1.10.99.902 (1.11 RC2)

At the close of the 1.11 non-critical fixes window.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9504caf1c3243e3ab2eb7126bc2bb876a8f89918
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Fri May 6 18:19:34 2011 +0300

composite: Inhibit window background paint with manual subwindow redirection

The composite extension spec says that window background painting should be inhibited when the subwindow redirection mode is set to manual.
This eliminates the ugly flashing effect when compiz unredirects a fullscreen window.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Owen Taylor <otaylor@fishsoup.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f1d75f3b742231c4c0f9f13d7a22ed920014eb5ef
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date:   Thu Jul 28 15:17:59 2011 -0700

Revert "composite: Don't backfill non-MapWindow allocations"

This reverts commit db8840600e8e21356241eb87395031388d9b54d2.

It was an optimization for the resize case, but 193ec8b453b22 made it so that no backfilling takes place on resize if left in.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Conflicts:
composite/compalloc.c
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e87adcc9e024982fdad974de2876b00cf974dab8
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jul 31 21:14:59 2011 +0200

Xquartz: include new localization files in the tarball

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a1bb5062c72667b2f10b56925c61888acc89e3e4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jul 21 10:33:58 2011 -0700

XQuartz: xpr: Don't FatalError if xp_unlock_window fails

We added the FatalError in 5d1d9d9ae39fab2ee2ac085f9776f82768828dc8 but it caused a regression http://xquartz.macosforge.org/trac/ticket/482

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit c319f7b5b3ee651636cddf165588f0dc972a22a4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jul 20 00:16:42 2011 -0700

XQuartz: Use CFSTR to avoid implicit cast warning of NSString * to CFStringRef

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 08dfff92e8d0c2b1726634392e147f6634d1706d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Jul 29 16:12:06 2011 -0700

randr: Compare all the bytes in RRPostPendingProperties

RRPostPendingProperties tries to compare the pending and current property values to decide whether they're actually changing. However, it does this using a memcmp that passes in pending_value->size as the number of bytes. This is actually the number of elements, where each element is (pending_value->format / 8) bytes long. This causes the pending value to not be propagated if the first pending_value->size bytes are the same and only the end of it is changing.

Fix this by computing the total number of bytes to compare in the memcmp.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b8f61c11e94708d4f17720a55945dee4621315a4
Merge: 5596f10ccee f51e42f583
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 29 14:58:58 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit f51e42f583073bde0bc8131887eb7220636c8855
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 20 13:09:05 2011 +1000

Terminate the log with one last message.

Instead of just closing the log when everything is done, put one more message in stating that we're actually terminating. Users or scripts that look at the Xorg.log will then know that a) the server has terminated properly and b) why the server terminated (to some degree, given that most real-world errors will be caused by AbortServer()).
configure: set default xkb rules to evdev on Linux

If config/udev was enabled, this would default to base, which means that after regen the devices would get the wrong rules, and hilarity would ensue.

It's probably safe to default to evdev unconditionally on Linux by now.

Reported-by: Bastian Blank <waldi@debian.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Initialize the fd to -1 for xorg.conf input devices.

For hotplugged devices, xf86AllocateInput does that for us but the xorg.conf path is different. Since not all drivers reset the fd during PreInit but may still call close(pInfo->fd) in all cases, this can terminate the logging early.

Reproducible: add a wacom driver InputDevice section with no Option Device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xfree86: NULL option values are technically valid, don't strdup them

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: duplicate xorg.conf device information before xf86NewInputDevice

xf86ConfigLayout.inputs contains the information from the xorg.conf file. Passing this into xf86NewInputDevice means the device will get cleaned up on exit and the pointers in xf86ConfigLayout.inputs are left dangling. In the second server generation, this results in a server crash.

Also, rename pDev to pInfo. pDev is pretty much reserved for DeviceIntPtr types.

Reproducible: AutoAddDevices off and xorg.conf input sections, trigger server regeneration.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xfree86: Remove devices that failed to enable on startup

Devices that succeeded during PreInit and DEVICE_INIT but failed in DEVICE_ON would be deleted through xf86DeleteInput but not removed from the list of input devices (and not turned off). The result was a double free on server shutdown.

Fix this by calling RemoveDevice if EnableDevice fails.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

config: don't fail if a device vanished by the time we managed to look at it

The nature of hotplug is that a device we enumerated might already be gone by the time we look at it, so don't assume otherwise.
config: limit the kernel subsystems we look for devices in

Don't enumerate/monitor all devices of the system (since that can be quite a few), but limit our search to devices from the "input" subsystem, as well as the "tty" subsystem (to cover Wacom tablets).

This should make X start up a bit faster and reduce the number of unnecessary wake-ups of the X server.

config: process udev "changed" and "add" events in the same code paths

udev gives no guarantee that before each "changed" event for a device there's an "add" event, or that before each "remove" is an "add", or that before each "add" there was no "add" already and so on. Users can trigger these events at any time with "udevadm trigger", and netlink is a lossy transport, hence the events can come in unexpected ordering.

With other words: regardless which event is generated, the X server must not choke on it and make the best of it, hence make sure that if we get an "add" event for an existing device we don't add the device a second time.

Remove hw/xwin/xlaunch
Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 73864a87aacbce85b520ccaa6e360b82c0e99716
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Jul 19 20:03:48 2011 -0700

XQuartz: Localization updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d2463df84d3a160b2dd1e706b02985e1817784e3
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Jul 19 20:02:33 2011 -0700

XQuartz: Add english NIB changes for scroll_in_device_direction

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e36e7ad6314ca5fcd3292b8022f0a618d567d72b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Jul 19 20:01:11 2011 -0700

XQuartz: Add GUI controls to toggle scroll_in_device_direction

Also cleaned up the wording for fullscreen_menu.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ac43984215faf464fd48b006cac1c6539603cea
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Jul 19 20:00:27 2011 -0700

XQuartz: Add a scroll_in_device_direction preference

This preference allows users to override the related option in Mac OS X's Mouse/Trackpad preferences. This effectively lets the user determine which "context" all of X11 fits into for context-based scrolling until such API exists within X11 itself to pass along to X11 clients.

This is applicable to Mac OS X 10.7+

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ec95a9c829b8e37529aa828c05fbaabc45cffe42
Author: George Staplin <gstaplin@apple.com>
Date:   Wed Mar 4 02:03:52 2009 -0700
XQuartz: Add diagnostic error checking to xp_destroy_surface.

This occurred to me in hindsight after the last commit. If the original developer had done this, we would have noticed the problem sooner.

(cherry picked from commit aa0a5796f3e7d16238f69976958c2526821388b)

commit 4fe7df265324f63025686efe9d32342e3cef40d3
Author: George Staplin <gstaplin@apple.com>
Date:   Wed Mar 4 01:39:58 2009 -0700

XQuartz: Fix a memory leak with surfaces that a new test found.

xp_destroy_surface was called with a surface id of 0, due to some premature cleanup that set it to 0. This means the surfaces weren't being destroyed until the window was.

The code that did that was: pDRIDrawablePriv->sid = 0;

In long running applications this leak may or may not have been harmful. With the old libGL the surfaces weren't destroyed until the context was destroyed or a new context created. In the new libGL they are reference counted, and released much sooner, so we ran into a resource leak more noticeably with some tests.

Make the Apple DRI code dispatch events to the client(s) for destroyed surfaces, when a resource is destroyed. This seems to work in my tests, however this clearly wasn't working for a while, so bugs may result in the future if it enables some new (unexpected) side effects.

Also add a few helpful comments to aid in understanding the code in the future.

Tested with the test suite, Pymol, and various Mesa demos.

(cherry picked from commit bede83eb19a1629396fcd5a46441f8476a8fcd1b)

commit 0ebe45a717f7aa6464d3b1ab73e30570518ee4798
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Jul 19 19:42:44 2011 -0700

XQuartz: DRI: Dead code removal

Also add some comments that weren't merged in from server-1.4-apple's 99babae1326485c27eb9253db83afdd6ae9e362

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 88ad050f3c2f9f11baf656a8cf777518795295a9
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jul 18 22:54:21 2011 -0700

XQuartz: Add some sanity checking and a fallback for the bundle id.

This way we'll print an error and still mostly work rather than crashing if
someone installs XQuartz.app incorrectly or tries running the server within
the build system rather than the installed system.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 89bfa0c633f3096c6a6f983bca1507d3f4b902a8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Jul 15 10:39:39 2011 -0700

XQuartz: DarwinEQFini doesn't return Bool

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 82f5521a6d91ebcd2a4400f6c221ad625edc99a1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 13 12:08:04 2011 +0100

XKB: Work around broken interps from old xkbcomp

Bugfix for broken xkbcomp: if we encounter an XFree86Private action with
Any+AnyOfOrNone(All), then we skip the interp as broken. Versions of
xkbcomp below 1.2.2 had a bug where they would interpret a symbol that
couldn't be found in an interpret as Any. So, an
XF86LogWindowTree+AnyOfOrNone(All) interp that triggered the PrWins
action would make every key without an action trigger PrWins if libX11
didn't yet know about the XF86LogWindowTree keysym. None too useful.

We only do this for XFree86 actions, as the current XKB dataset relies
on Any+AnyOfOrNone(All) -> SetMods for Ctrl in particular.

See xkbcomp commits 2a473b906943fffd807ad81960c47530ee7ae9a60 and
3caab5aa37dec87b5dc1642a0452efc3e1f5100e for more details.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c177a5bcaa170d24a784540460906cc04ae5c752
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 13 12:08:03 2011 +0100
Fix non-Composite builds in PrintWindowTree

The previous patch accidentally introduced a hard dependency on Composite. Sorry, OS X.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reported-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 01dbf2514aa0cc8c40a876a24e3cb0737c41da19
Merge: 5a801af689 af0fb37e3
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 13 11:44:15 2011 -0700

    Merge remote-tracking branch 'jturney/master'

commit 5a801af689fce9dfe84453bb20b29cb4782de83
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Jul 12 19:50:05 2011 -0400

    XWinrc: replace hard coded section number with __filemansuffix__

Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit af0fb37e35dda4bf12a8d7abc79ea11958ec8ac
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Jun 23 07:45:13 2011 -0400

    XWinrc: replace hard coded section number with __filemansuffix__

Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>

commit 42bc198775a78b328612427c4c8ed4d17e005ae9
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Mon Jan 24 18:29:41 2011 +0000

    glx: Remove a few lingering traces of __GLXscreen.GLXVersion

The GLXVersion member of the __GLXscreen struct
is just cruft since commit ad5c0d9efa475476ed5cf75c82265c73919e468b4,
when we started returning the minimum GLX version supported by all
of the screens on the display, rather than the maximum version supported
by the server.
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 005e68ba59782b60dd5c44a06c75b1fa5e8d70d8
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Thu Jan 20 16:21:04 2011 +0000

hw/xwin: Add -wgl option to XWin manpage

Document the -[no]wgl options in the XWin manpage

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit d62726019e4b7bfac8a23d0d733677b141047d66
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Nov 2 11:38:53 2010 +0000

hw/xwin: Add items to WGL AIGLX todo

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 276735ef5d12e79fe051996f100c5730c1e69334
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Oct 11 16:22:49 2010 +0100

hw/xwin: Report Window XIDs in Window debug messages

Report Window XIDs in Window create/destroy/reparent debug messages

It's actually quite useful if you are trying to correlate those events with what a client is doing...

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b0b54338e2f8aed6e6a883ebdd2a2acbefabcd
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Oct 11 16:25:03 2010 +0100

hw/xwin: Add a flag to track which windows have been drawn to using WGL.

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 98c6d91a48f460fdbea93700ab637eadf946fb0e
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Mar 24 20:39:51 2011 +0000

hw/xwin/glx: Fix some warnings in generated wrapper code

Add a suitable cast to the generated code for glWinSetupDispatchTable()
so it doesn't generate screeds of warnings

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b67e80c84e4af54007aa1bd1e4a97a4d1b3d3765
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jan 24 18:41:05 2011 +0000

hw/xwin/glx: Handle failure to get any fbconfigs more gracefully.

Handle failure to get any useful pixel formats for GLX fbconfigs
more gracefully: If we didn't get any useful pixel formats from
wglGetPixelFormatAttribivARB(), fall back to using DescribePixelFormat().
If that doesn't give us any useful pixel formats, fallback to software
rendering.

This works around a problem with Intel 845G drivers, where
wglGetPixelFormatAttribivARB() doesn't seem to work as we expect it to...

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 9915b169237e3b2d817bd3d4455f3c01dd7dd2b5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Nov 1 19:53:42 2010 +0000

hw/xwin/glx: Don't spam log with wglwrap symbol resolution status at startup

... instead just log if an attempt is made to call a wrapper for
a function which didn't resolve

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 8216316867f07819b8e8b377f2633fbf8876abf7
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Oct 30 17:23:52 2010 +0100

hw/xwin/glx: Better handling of SetPixelFormat() failure

Propagate and report the failure if SetPixelFormat() fails
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit eec8e06eb4bdfd4354144206d990cd9cc69721
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Sat Oct 30 17:22:33 2010 +0100

hw/xwin/glx: Improvements to glxWinErrorMessage() reporting in WGL GLX provider

Request the message using languageID 0 (best effort), rather than only using language neutral messages
Always report the numeric error code.
Trim any trailing \r from FormatMessage() output

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 3873be16d050ab12fc78f1e7f0c36c2ac88d0a98
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Mon Oct 11 16:21:40 2010 +0100

hw/xwin/glx: Fix fbconfig dumper formatting for 3 digit index numbers

Some graphics hardware supports hundreds of pixel formats, so adjust
formatting in fbconfig dumper for 3 digit index numbers

Also report the PFD_SUPPORT_DIRECTDRAW, PFD_DIRECT3D_ACCELERATED and
PFD_SUPPORT_COMPOSITION flags introduced with aero

Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit d4096abb591353405417e53816e5c46e904e7b25
Merge: 61f87a75f2 87d4f90bfc
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 1 15:45:45 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 87d4f90bfc509471ac9e7886e14a92b33223fd7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 27 09:10:42 2011 +1000

input: free the EQ allocated memory on shutdown (#38634)

mieqFini() already does the right thing, but it needs to be called by the
various DDXs and the XTest Extension.

X.Org Bug 38634 <http://bugs.freedesktop.org/show_bug.cgi?id=38634>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Acked-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits: e084ac30b37c36016bb0dbb1b79e60a7799aee02
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Mar 2 14:52:42 2011 +0000

Input: Reset SD remainder when copying co-ords from MD

In updateSlaveDeviceCoords, pDev->last.valuators was being copied from
the master, but pDev->last.remainder wasn’t. Make sure we copy both, to
avoid minor inconsistencies.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits: 23a783278963919778d017965542e0f983814e37
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jun 24 11:02:23 2011 +1000

input: add POINTER_NORAW to avoid generation of raw events (#30068)

RawEvents are supposed to be events coming from the driver. When warping the
pointer, this should not generate a raw event.

X.Org Bug 30068 <http://bugs.freedesktop.org/show_bug.cgi?id=30068>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits: 9444e40d77508d545e3c0a8123f61950c22d89fa
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Mar 1 11:11:22 2011 +0000

Test: Input: Only ever set up to MAX_VALUATORS valuators

Previously, the input tests were working up to sizeof(mask) * 8, which
could be more than the arrays; the latter only being sized as
MAX_VALUATORS.

Hypothetically, if you were switching the stored valuator values to
double instead of uint32_t, and you attempted to set the 39th member of
a MAX_VALUATORS-sized (36) array, you’d probably end up smashing
ev->key_repeat into oblivion and then tripping the check for invalid flags because you haven't yet put XIPointerEmulated into the valid flags for XI_Motion. Probably.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1e65a01cf73f1fbdf6e0d63aeacea412cf8472cb4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jun 17 16:28:05 2011 +0100

Test: Ensure libxservertest gets relinked when necessary

Similar to how we link Xorg, make sure that whenever any of the component libraries changes, we relink libxservertest and the tests. Not much use testing anything other than the actual source in your tree.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0f41d6c851df76d0423d9c37ad809d3440906944
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jun 17 13:20:19 2011 +0100

KDrive: Remove useless miPointerUpdateSprite call

miPointerUpdateSprite is already called from mieqProcessInputEvents, so calling it by hand immediately after isn't massively helpful.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 57b767d2927e5c2e561a431be4e604df65423422
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jun 17 13:19:46 2011 +0100

DMX: Remove useless miPointerUpdateSprite call

miPointerUpdateSprite is already called from mieqProcessInputEvents, so calling it by hand immediately after isn't massively helpful.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
XWin: Remove executable bit from headers

Headers don't really need to be mode 0755.

Sigmaed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Sigmaed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

XKB: Add debug key actions for grabs & window tree

Add four new private XKB actions for debugging:
* PrGrbs: print active grabs to the log file
* Ungrab: ungrab all currently active grabs
* ClsGrb: kill clients with active grabs
* PrWins: dump the current window tree to the log file

To use these, you need to modify your XKB maps, e.g. the following to have Ctrl+Alt+(F9-F12) mapped to the above:
- compat/xfree86:
  interpret XF86LogGrabInfo {
    action = Private(type=0x86, data="PrGrbs");
  };
  interpret XF86Ungrab {
    action = Private(type=0x86, data="Ungrab");
  }
  interpret XF86ClearGrab {
    action = Private(type=0x86, data="ClsGrb");
  }
  interpret XF86LogWindowTree {
    action = Private(type=0x86, data="PrWins");
  }

- symbols/pc:
  key <FK09> { type="CTRL+ALT", [ Return, XF86LogGrabInfo ] };
  key <FK10> { type="CTRL+ALT", [ Return, XF86Ungrab ] };
  key <FK11> { type="CTRL+ALT", [ Return, XF86ClearGrab ] };
  key <FK12> { type="CTRL+ALT", [ Return, XF86LogWindowTree ] };

At the moment, this only works if the grabbing client continues to call
AllowEvents, as the server does no event processing at all when a device
is frozen.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ddf735fd4e9658bb5610f5e911f3b4055d5acf89
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Oct 13 19:56:57 2009 +1100

DIX: Make PrintWindowTree actually useful

Rewrite PrintWindowTree to make it actually tell you what you want to know.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b27d61e4433a2a0140ed8a6128e4427451e37fec
Author: Matj Cepl <mcepl@redhat.com>
Date: Fri Jun 17 15:26:17 2011 +0100

Fix UTF-8 encoding

Report to find out all non-UTF-8 files created by

cat extensions |xargs -I XXXX find . -name \\^\.XXXX |while read FILE ; do
  if ( iconv -f utf8 -t ucs2 $FILE >/dev/null 2>/dev/null ) ; then
    /bin/true
  else
    echo $FILE
  fi
done >>report

Signed-off-by: Matj Cepl <mcepl@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

[Daniel: git am failed for me, so I redid it. The method listed in the commit message also failed, so I just used file/grep/iconv. The results are the same though.]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2ee85d954c8f3a6affbd9b1b745594ff12e8b670
Author: Scott James Remnant <scott@netsplit.com>
Date: Tue Jun 14 16:36:07 2011 -0700

dix: avoid calling deleted block and wakeup handlers

---
BlockHandler and WakeupHandlers may be removed within a different BlockHandler or WakeupHandler, especially since config/udev uses these and removes devices.

Calling the deleted handlers and passing potentially freed data can result in the X server segfaulting after device removal, or events that result in device removal such as undocking or suspend/resume.

Signed-off-by: Scott James Remnant <scott@netsplit.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b573cdd40ee49fae299fe2e7cbd02159ae8ae617
Author: Marcin Slusarz <marcin.slusarz@gmail.com>
Date:   Tue Jun 7 21:22:15 2011 +0200

dri2: restore Screen->ConfigNotify on close

ConfigNotify is set by DRI2ScreenInit, but not restored to previous state on close. Fix it.
(I'm preparing a patch for xf86-video-nouveau which detects GPU lockup after dri2 init and it needs to reinitialize dri2)

Signed-off-by: Marcin Slusarz <marcin.slusarz@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 61f87a75f2bca939a1778d39be8cfa5c886e6d8
Merge: 0d2153a46c 72d914335c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 29 20:14:51 2011 -0700

    Merge remote-tracking branch 'journey/master'

commit 0d2153a46c72d5f2e6a9081a3cf153a3eb7787
Merge: b631c39a21 932513e23b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 29 20:08:32 2011 -0700

    Merge remote-tracking branch 'jbarnes/master'

commit b631c39a21c8d74fd00b8932df342d6921cce8f4
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Jun 23 13:37:45 2011 -0400

    Remove unused check for PERL program
Unable to find any use of the PERL Automake variable.
It was used in hw/xfree86/scanpci around 2005.
Should it ever be needed, use XORG_WITH_PERL macro.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d5ca33ca2d08e8436439da926d2dedaabc268fa
Merge: 38d55f06cf4edf49d032
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 29 18:54:33 2011 -0700

Merge remote-tracking branch 'kibi/master'

commit 72d914335c9ad0e0f4a34b9f7e2901b380c499bf
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Tue Mar 23 04:34:22 2010 -0500

Cygwin/X: Left-justify website link in About box

Left-justify website link in About box. This is a cosmetic fix to make
the About box display correctly when Windows is configured with a
non-default DPI value

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit e78628406f0428454983db1c51a8c828bf5684e5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Aug 12 15:00:01 2010 +0100

Cygwin/X: Preserve client area size and position on Windows window style change

When the style changes, adjust the window size so the client area remains the same.

Otherwise the window size may change when sizing is reflected from Windows to X, and
some windows are drawn expecting them to be exactly the requested size (e.g. the
gmplayer control window)

Use DeferWindowPos to delay the resize to preserve client area on WM_STYLECHANGING
until after the style change has actually happened in WM_STYLECHANGED

As a consequence of this, we need to be more careful to create windows with exactly
the requested placement and client area initially, so the client area matches what
the X client requested

Also synchronize the X windows idea of the placement of a window which Windows is allowed to place

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 1df7f3a0031b4ae7d8aa984799ffaf578788061ce4
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Nov 7 19:34:12 2009 +0000

glx: Move GLX extension string utility functions

Move GLX extension string utility functions from the DRI1 convenience library into the GLX extension convenience library, so other DDX which don't have DRI can use them.

This is probably also needed if anyone actually tries to build an Xorg DDX with only DRI2 support...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit 932513e23b5fe1793cc38eabe02df82e1cc6e4d9
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Thu May 5 13:11:46 2011 -0700

DRI2/GLX: use new swap event types

Use the new event types so we can pass a valid SBC value to clients.
Fix up the completion calls to use CARD32 instead of CARD64 to match the new field size.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit a3c7d097a281252cebb3c65c67149e106482ac
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Tue May 3 10:36:44 2011 -0700

GLX/DRI2: pass drawable correctly for indirect swap events

Pass the right drawable pointer as data to the swap complete function.

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
commit 3e8270b869ebf788778d5d56107f6d47c7c050d0
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Apr 12 15:30:25 2011 -0400

glx: Fix fbconfigs with no corresponding visual

There are, in general, more fbconfig depths than visual depths. fbconfigs need not support Window rendering, however any that do must have an associated visual ID (which we got right), and any that do not must not claim GLX_WINDOW_BIT in GLX_DRAWABLE_TYPE (which we got wrong).

Fixes piglit/glx-fbconfig-sanity, assuming you have a sufficiently recent piglit, as that test formerly wrongly required pixmap-capable fbconfigs to have a visual.

v2: Additional check for fbconfigs that didn't have GLX_WINDOW_BIT in the first place, from previous patch by Jon TURNLEY; also, also clear ->visualID.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 38d55f06cfbf4b05fee0aef8f97f90e835beaabc
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Jun 27 15:06:16 2011 +0100

Guard use of backtrace() with HAVE_BACKTRACE

Guard the use of backtrace() with HAVE_BACKTRACE, since we already have the autoconf machinery for setting that.

For the moment, assume dladdr() is available when backtrace() is

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit bea57392c724f439987832b422941ae897953e4a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Jun 25 11:29:53 2011 -0700

XQuartz: Fix Makefile dependencies

automake generates _DEPENDENCIES from _LIBADD, but it strips out variables. This resulted in not relinking if some components were rebuilt (like libdix, libos, etc).
XQuartz: Make a call to activateIgnoringOtherApps in our NSApplicationActivatedEventType handler

In addition, this change will not call into the X11 activation unless an X11 window was active when we deactivated. We can't rely on the event and current key windows because the key window will be nil until activated, and the event will only reference the window if the window was clicked (whereas it will be nil if we activated via dock or cmd-tab).

Create sdksyms.dep in the right place at configure time

sdksyms moved from hw/xfree86/loader to hw/xfree86, so the configure-time create of sdksyms.dep needs to reflect that change. Otherwise, make might be confused by a missing file and (more importantly to me) hw/xfree86/loader/sdksyms.dep will be left around after 'make clean' causing 'make distcheck' to fail.
commit 163441fe531a77f7fa54bfa59c5ab49c78f44306
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Tue Jun 14 20:03:06 2011 -0700

xfree86: Remove libxorg convenience library to speed up build

libxorg.la served to collect all the Xorg convenience libraries into one
massive archive to link into Xorg. This made things easy for symbol
resolution, but it tremendously slowed down the build since each change
caused libxorg.la to be rebuilt. This is an extremely slow process of
extracting all the objects from the sub-libraries and recombining them.

Instead, the archives are linked directly into Xorg. The order of the
libraries had to be tweaked a bit to make symbols resolve correctly with
the lower level code moving later in the link command.

As a side effect, since the dtrace objects are now being linked
directly into Xorg, we don't need the SPECIAL_DTRACE_OBJECTS hack to
add them twice.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6259b30111f568ec3d1b32dc6382bce46d8e6ccc
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Tue Jun 14 19:47:02 2011 -0700

xfree86: Move sdksyms generation to ddx toplevel

The symbols in sdksyms.c cover the entire source tree. In order to make
them resolve when libxorg.la goes away, move the objects from libloader
to Xorg. Unfortunately, this means sdksyms needs to get built again for
the test code.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d5c8a12cbbc295b3e33e1b60bd7330e2be93a966
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Tue Jun 14 17:21:48 2011 -0700

Don't use empty source files

When an empty _SOURCES variable is declared, automake will recognize that
only linking is needed.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8ac651552bb70ba36238f430adab2f7a7f24db6e
Merge: 945b2ff81447b6ba3204
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 22 11:03:37 2011 -0700

Merge remote-tracking branch 'alanc/master'

commit 945b2ff8141c58344fc9558ee3853fad3e86134b
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Wed Jun 8 15:18:12 2011 -0400

docbook.am: --path is also required for xsltproc

The XSLT processor also needs to know about the entities defined in xserver.ent. It removes error messages.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6326b0f0746ded410672ad0270d1c8a0e9cb59f9
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Wed Jun 8 15:17:59 2011 -0400

Update .gitignore as new tests have been added

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 47b6ba3204d650393a7255ce2af27b8c018bb586
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon Jun 20 22:17:03 2011 -0700

Add xkeyboard-config to See Also of man pages referencing xkb

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit cfbe471b586282aea89f7b4802c051f22301bf59
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:  Mon Jun 20 22:06:00 2011 -0700

Xdmx.man: convert section references to substituted forms

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c3278f3c1786e66019a39e2612761f74782a48ee
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:  Sat Jun 11 10:56:08 2011 -0700

Xdmx.man: additional updates to modernize XKB information

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 19e37067131175219eca7d2b11c2ee59af280575
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:  Sat Jun 11 10:41:48 2011 -0700

Xdmx.man: Show actual configured XKB defaults instead of old hardcoded values

Passed through from configure.ac via manpages.am

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit acf2173b321749c42d29d858d3521a4d506c732e
Author: Gaetan Nadon <memsize@videotron.ca>
Date:  Thu Jun 16 20:12:03 2011 -0400

Install xml versions of specs even if HAVE_XMLTO is false

DocBook/XML input source is also a useful output format that can be viewed
with an XML viewer or editor and by some O/S help system.

Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Install target dbs alongside generated documents

This matches a change in xorg-sgml-docs whereby the masterdb will look for
the target dbs into the same location as the generated documents.

The target dbs are now installed alongside the generated documents.
Previously they are installed in $prefix/sgml/X11/dbs alongside masterdb which
has the potential of installing outside the package prefix and cause
distcheck to fail when user does not have write permission in this package.

Requires XORG_CHECK_SGML_DOCTOOLS(1.8) which was released 2011-06-11

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

EXA: fix typo

The incorrect drawable deltas were applied if dst was a redirected
window. Resulting in a bogus region passed to prepare_access_reg().

Signed-off-by: Rob Clark <rob@ti.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dmx/examples: Fix missing key_click_percent assignment.

Thanks to gcc's -Wunused-but-set-variable, stop ignoring the percent
parameter, and add it to the XKeyboardControl structure before the
XChangeKeyboardControl call.

This warning goes away accordingly:

| CC xbell-xbell.o |
| xbell.c: In function ‘main’: |
| xbell.c:74:22: warning: variable ‘percent’ set but not used [-Wunused-but-set-variable]|
hw/dmx: Stop using variables for text widgets.

They are unused in the sense they're not getting any callback set up, so there's no point in storing them into variables. Keep the initial alignment of the parameters to try and reduce the diff noise.

Those warnings go away accordingly:

|   CC     xdmxconfig-xdmxconfig.o
| xdmxconfig.c: In function ‘main’:
| xdmxconfig.c:881:29: warning: variable ‘quittext’ set but not used [-Wunused-but-set-variable]
| xdmxconfig.c:880:53: warning: variable ‘abouttext’ set but not used [-Wunused-but-set-variable]

xfixes: Remove unused variable.

The last use of pScreen in ProcXFixesSetPictureClipRegion was removed in aa7096ca6f108e399d9916639cf20c57f9776305 so remove it entirely.

xfixes: Mark some variables as unused.

Calling Unwrap() is just a way of performing an assignment while keeping a backup of the original value. In the CursorCloseScreen function, the backup value doesn't seem to be useful, but Unwrap() is used anyway (probably to stay in line with other functions). As a consequence, mark those variables as unused.

The following warnings go away accordingly:

|   CC     cursor.lo
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit f41ac25d932ef34ab912201ab5ce65f85f2ff171
Author: Cyril Brulebois <kibi@debian.org>
Date:   Tue May 24 18:33:17 2011 +0200

miext: Mark some variables as unused.

There's no use for the values set through the various macro calls
(fbGetDrawable and fbGetDrawablePixmap), so mark those variables as unused.

The following warnings go away accordingly:

```
| CC     shpacked.lo
| shpacked.c: In function 'shadowUpdatePacked':
| shpacked.c:55:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shpacked.c:55:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shplanar8.lo
| shplanar8.c: In function 'shadowUpdatePlanar4x8':
| shplanar8.c:105:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shplanar8.c:105:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shplanar.lo
| shplanar.c: In function 'shadowUpdatePlanar4':
| shplanar.c:101:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shplanar.c:101:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shrot16pack_180.lo
| In file included from shrot16pack_180.c:31:0:
| shrotpack.h: In function 'shadowUpdateRotate16_180':
| shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shrot16pack_270.lo
| In file included from shrot16pack_270.c:31:0:
| shrotpack.h: In function 'shadowUpdateRotate16_270':
| shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shrot16pack_270YX.lo
| In file included from shrot16pack_270YX.c:31:0:
| shrotpackYX.h: In function 'shadowUpdateRotate16_270YX':
| shrotpackYX.h:72:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
| shrotpackYX.h:72:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable]
| CC     shrot16pack_90.lo
| In file included from shrot16pack_90.c:31:0:
| shrotpack.h: In function 'shadowUpdateRotate16_90':
| shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable]
```
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot16pack_90YX.lo |
| In file included from shrot16pack_90YX.c:31:0: |
| shropackYX.h: In function 'shadowUpdateRotate16_90YX': |
| shropackYX.h:72:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropackYX.h:72:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot16pack.lo |
| In file included from shrot16pack.c:30:0: |
| shropack.h: In function 'shadowUpdateRotate16': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot32pack_180.lo |
| In file included from shrot32pack_180.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate32_180': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot32pack_270.lo |
| In file included from shrot32pack_270.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate32_270': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot32pack_90.lo |
| In file included from shrot32pack_90.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate32_90': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot8pack_180.lo |
| In file included from shrot8pack_180.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate8_180': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot8pack_270.lo |
| In file included from shrot8pack_270.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate8_270': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot8pack_90.lo |
| In file included from shrot8pack_90.c:31:0: |
| shropack.h: In function 'shadowUpdateRotate8_90': |
| shropack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-but-set-variable] |
| shropack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-but-set-variable] |
| CC     shrot8pack.lo |
| In file included from shrot8pack.c:30:0:
shrotpack.h: In function 'shadowUpdateRotate8':
shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrotate.lo
shrotate.c: In function 'shadowUpdateRotatePacked':
shrotate.c:62:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotate.c:62:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shpacked.lo
shpacked.c: In function 'shadowUpdatePacked':
shpacked.c:55:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shpacked.c:55:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shplanar8.lo
shplanar8.c: In function 'shadowUpdatePlanar4x8':
shplanar8.c:105:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shplanar8.c:105:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shplanar.lo
shplanar.c: In function 'shadowUpdatePlanar4':
shplanar.c:101:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shplanar.c:101:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack_180.lo
In file included from shrot16pack_180.c:31:0:
shrotpack.h: In function 'shadowUpdateRotate16_180':
shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack_270.lo
In file included from shrot16pack_270.c:31:0:
shrotpack.h: In function 'shadowUpdateRotate16_270':
shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack_270YX.lo
In file included from shrot16pack_270YX.c:31:0:
shrotpackYX.h: In function 'shadowUpdateRotate16_270YX':
shrotpackYX.h:72:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpackYX.h:72:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack_90.lo
In file included from shrot16pack_90.c:31:0:
shrotpack.h: In function 'shadowUpdateRotate16_90':
shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpack.h:109:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack_90YX.lo
In file included from shrot16pack_90YX.c:31:0:
shrotpackYX.h: In function 'shadowUpdateRotate16_90YX':
shrotpackYX.h:72:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
shrotpackYX.h:72:10: warning: variable 'shaXoff' set but not used [-Wunused-set-variable]
   CC   shrot16pack.lo
In file included from shrot16pack.c:30:0:
shrotpack.h: In function 'shadowUpdateRotate16':
shrotpack.h:109:19: warning: variable 'shaYoff' set but not used [-Wunused-set-variable]
There's no use for the values set through the various macro calls (fbGetDrawable and fbGetDrawablePixmap), so mark those variables as unused.

The following warnings go away accordingly:

- In function 'fb24_32ReformatTile':
  - CC libfb_la-fb24_32.lo

- In function 'fbFill':
  - CC libfb_la-fbfill.lo

- In function 'fbPadPixmap':
  - CC libfb_la-fbgc.lo

- In function 'fbPushPixels':
  - CC libfb_la-fbpush.lo

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

wrapped is only useful is FB_ACCESS_WRAPPER is set; simplify the logic accordingly, and only set it when that's defined.
The following warning goes away accordingly:

```
| CC     libfb_la-fbarc.lo
| fbarc.c: In function 'fbPolyArc':
| fbarc.c:71:11: warning: variable 'wrapped' set but not used [-Wunused-but-set-variable]
```

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 9a8bf2c2c06f0a9206b64ae01a783cf5513f021a6
Author: Cyril Brulebois <kibi@debian.org>
Date:   Tue May 24 18:33:16 2011 +0200

configure: Bump dependency on xproto.

Bumping this dependency means some additional macros can be used, like
_X_UNUSED.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 9da5aa09d70e26dd4d2ef878a21317dae7bf24de
Author: Cyril Brulebois <kibi@debian.org>
Date:   Tue May 24 18:33:11 2011 +0200

Xext: Fix buggy checks.

XvMCScreenKey is defined as XvMCScreenKeyRec's address, so will never be
NULL. Use the check proposed by Alan Coopersmith and Jeremy Huddleston
instead.

Those warnings go away accordingly:

```
| CC     xvmc.lo
| xvmc.c: In function 'ProcXvMCListSubpictureTypes':
| xvmc.c:490:22: warning: the comparison will always evaluate as 'false' for the address of 'XvMCScreenKeyRec'
will never be NULL [-Waddress]
| xvmc.c: In function 'XvMCExtensionInit':
| xvmc.c:671:21: warning: the comparison will always evaluate as 'false' for the address of 'XvMCScreenKeyRec'
will never be NULL [-Waddress]
| xvmc.c: In function 'XvMCFindXvImage':
| xvmc.c:749:22: warning: the comparison will always evaluate as 'false' for the address of 'XvMCScreenKeyRec'
will never be NULL [-Waddress]
```

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 778309f0ef6b586468c1a3b569e3548503459ee
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jun 14 13:23:00 2011 -0700

XQuartz: GLX: Fix a -Wformat-security compilation warning

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 34e2598f0ad247071bd6a4312d9014d6e3b2305a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jun 14 11:18:50 2011 -0700

XQuartz: GLX: Use _glapi_create_table_from_handle to create out dispatch table

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ecec578e35f91a2cbe5d07bc8d45241af7bb585f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jun 14 12:51:04 2011 -0700

 glx: Add _glapi_create_table_from_handle

_glapi_create_table_from_handle was recently added to mesa to ease creation of
a _glapi_table. This commit brings this API over to xserver for use in
XQuartz (next commit).

The API was generated with scripts from current mesa followed by various
script-foo to remove entries that are not in the server and add those which
are still in the server but not in mesa (CullParameterdvEXT and
CullParameterfvEXT)

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c3df4df40761760b281a21f63336ca95670f7bc
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Jun 5 21:59:13 2011 -0400

XQuartz: Add missing include for <pthread.h>

 BuildFix for Leopard and earlier.

https://trac.macports.org/ticket/29717

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 08a7246f43e9f18079219a1c982bed558722f545
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 27 14:21:39 2011 +1000
dix: rename ProcessRawEvents to dix/events.c:DeliverRawEvent

No functional changes, prep work for future changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 0aa45c5e53e2e7ba0723f5a12c1a15f5d4baab933
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 14:19:45 2011 +1000

Xi: use temporary variable for filter.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a1beae635caf81ec31a8998687df0ae92b505fda
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 12:14:32 2011 +1000

dix: split DeliverEventToWindowMask up a bit more.

Move out the actual event delivery, it needs to be used from elsewhere.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 58e4831ed68c2fb2c219c7250e9837e76a73a6432
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 11:43:50 2011 +1000

dix: rename DeliverEventsToClients to DeliverEventsToWindowMask

To avoid confusion with a future patch and it better describes what this
does anyway - delivering events to all clients that have the event mask on
the window.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 37a53f15b0dfa1b25f7e3e826c7e945453398ac5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 11:40:56 2011 +1000
dix: split client list retrieval out of DeliverEventToClients

No functional change, but "other" was renamed to "clients".

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 02d11af01211da55e9d93fe0e1851a0c6fe57472
Merge: bf9fd0a83e ab0df72cd3
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 7 12:31:15 2011 -0700

Merge remote-tracking branch 'kibi/master'

commit bf9fd0a83eef771ee018438f05e2d9f20b43539b
Merge: 21eec367d0 0d140567ba
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 7 07:45:22 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 0d140567ba2b5bf364265da07de519f691c67a1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 7 10:42:50 2011 +1000

dix: fix crashers with floating device.

dc5789959e549403f8488eb9f23425bd7118b22 accidentally reversed the
conditions.

in dix/events.c we try to detach floating devices. This leads to a
NULL-dereference on GetMaster()->id.

in dix/getevents.c we try to get the master device for the floating slave
and dereference it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 21eec367d0d9c142458f973062e17add4f693033
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Mon Jun 6 16:53:41 2011 +0200

randr: void function cannot return value

Providing an argument to return in a function with void return type
is not allowed by the C standard, and makes the Sun compilers unhappy.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ab0df72cd33f011cc48736cfbfce9bbe9c359a80
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 03:21:18 2011 +0200


    That one was missing _XkbKSLower:
    XK_kra: U+0138 LATIN SMALL LETTER KRA

    Reviewed-by: Daniel Stone <daniel@fooishbar.org>
    Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 9eb6e34c2dd09af714400ce6a1063477d7a64776
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 03:12:44 2011 +0200

    xkb: Fix case checks for Latin 2.

    Those ones were getting _XkbKSLower for no reasons:
    XK_ogonek: U+02DB OGONEK
    XK_doubleacute: U+02DD DOUBLE ACUTE ACCENT

    Reviewed-by: Daniel Stone <daniel@fooishbar.org>
    Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 2b88189863579e6b377bca617465bb76b05fbdebd
Author: Cyril Brulebois <kibi@debian.org>
Date:   Sun Jun 5 03:03:47 2011 +0200

    xkb: Fix case checks for Latin 1.

    That one was missing _XkbKSLower:
    XK_ssharp: U+00DF LATIN SMALL LETTER SHARP S

    That one was getting _XkbKSLower for no reasons:
    XK_division: U+00F7 DIVISION SIGN

    For reference, XK_multiply was already excluded from the _XkbKSUpper check, it's no big surprise XK_division has to be excluded from the _XkbKSLower check.
commit feab04397de2684568dedaaaa8f299cac9f44f8b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Jun 3 02:50:40 2011 -0400

XQuartz: AIGLX: Remove unnecessary includes in indirect.c

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 3fa5d27e46ea8af55dcaaad7a99973c38bd11967
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jun 2 20:04:04 2011 -0700

XQuartz: AIGLX: Setup dispatch table based on runtime capabilities rather than buildtime

This will allow XQuartz built on older systems to pickup capabilities on
newer systems and prevent runtime failures when building on newer systems and
running on older ones.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit dd5d91fc954450e99d53862900ef4fa6320ff382
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Jun 3 02:34:28 2011 -0400

XQuartz: Remove explicit link against libGL

This was indented to force a link against OpenGL.framework's libGL, but it
actually resulted in linking against mesa's libGL due to the ordering of -L

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5115c2c7216fc10acb8a26debr904ad15ef18ce8a
Author: Cyril Brulebois <kibi@debian.org>
Date:   Fri Jun 3 18:09:51 2011 +0200

Xephyr: Mention Xserver's options are also accepted.

Originally reported in the Debian BTS:
http://bugs.debian.org/582650

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Jari Aalto <jari.aalto@cante.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 408ed1576dbcf93f4bd27bd3b66917b1bbab2226b
xkb: Fix case checks for Latin 8.

Spotted by -Wlogical-op:
| CC     xkbfmisc.lo
| xkbfmisc.c: In function '_XkbKSCheckCase':
| xkbfmisc.c:104:3: warning: logical 'and' of mutually exclusive tests is always false [-Wlogical-op]
| xkbfmisc.c:118:3: warning: logical 'and' of mutually exclusive tests is always false [-Wlogical-op]

A quick look at the keysymdef.h file (from xproto) suggests the implementor chose to use interval checks to determine the case, but since lines weren't sorted by codepoints, checks were quite wrong.

Implement _XkbKSUpper/_XkbKSLower checks based on a grep for CAPITAL/SMALL (respectively) on the Latin 8 part of the said file.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit d9bda34d40df576d155e1d682d5e2a382b8e1fdda
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 1 10:24:43 2011 +1000

test: fix memset size for WindowRec (#37801)

X.Org Bug 37801 <http://bugs.freedesktop.org/show_bug.cgi?id=37801>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bfd8422e8877acf02155ca0bd7fbd2416b029720
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 12:24:21 2011 +1000

Xi: use __func__ instead of function name.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit c042a267c40d35b4fb947f4baafdec541dd9d772
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 27 10:10:48 2011 +1000
dix: use xi2_get_type instead of manual typecast

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b75cdb5bf76303162e947173e8ee68253a861272
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 31 10:51:19 2011 +1000

dix: drop x/y back into the right valuators after transformation.

If the matrix is used for rotation, the coordinates affected may change.
e.g. a valuator mask of (x, nil) becomes [x, lasty] and is rotated to
[lasty, x]. Since the second value was unset, we would not drop x back into
the mask, resulting in a loss of movement.

Thus, drop any value that changed after applying the matrix into the
valuators. Thus, the example above becomes
(x, nil) [x, lasty] [lasty, x] (lasty, x)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit fe4b818700453b76d9f46749dac5d12540b91e63
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 31 10:23:57 2011 +1000

dix: don't pass x/y to transformAbsolute

We passed in the mask, but didn't do anything with it. Move the logic to
take the axes out of the valuator masks into transformAbsolute.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 62f1bf96e1ea27e1eff137cb9333f3dd3b014dd0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 1 10:22:44 2011 +1000

test: fix memset size for WindowRec (#37801)

X.Org Bug 37801 <http://bugs.freedesktop.org/show_bug.cgi?id=37801>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
commit f94898928d9af8df648bc3e9a7d304826b7ac1b8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 31 14:48:33 2011 +1000

dix: fix an error message.

event type, not device type.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8ef0974874f322e3ce2f3e6be4ab3c7e73a7b380
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 19 14:50:17 2011 +1000

test: don't test for double alignment on i386. (#36986)

i386 is one of the few architectures that doesn't need double alignment.

X.Org Bug 36986 <http://bugs.freedesktop.org/show_bug.cgi?id=36986>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 48b4b778f61daaa161483b510ab520f3fcb84925
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jun 1 21:55:06 2011 -0700

XQuartz: xpbproxy: Correct NSUInteger format strings

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 971193b2750b98b28597ba194ed388e79b3489b6
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jun 1 21:18:03 2011 -0700

XQuartz: ASL: Use xpbproxy subsystem for logging xpbproxy messages

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7df665705cc3e6e2458d6892282520fe5ed8a6b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jun 1 21:06:53 2011 -0700

XQuartz: ASL: Use GLXAqua subsystem for logging GLXAqua messages

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 19020b23efa15d72349bd833aebd6cc64780a615
Author: Jeremy Huddleston <jeremyhu@apple.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34769

Date: Wed Jun 1 21:06:08 2011 -0700

XQuartz: ASL: Use xpr subsystem for logging xpr messages

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a66400f8dba9b7c5b65f9d26996ffff677c42d866
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Jun 1 20:45:58 2011 -0700

XQuartz: ASL: Update logging to support different levels and subsystems

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c0077b41b4c8bb08129db97a2a01d0af55d13fa4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Jun 1 20:54:27 2011 -0700

XQuartz: Add a semicolon after DEBUG_LOG

Don't rely on the macro to provide it

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fbc8aae8e9b5c7b175073f027f7ff1d1363a31
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun May 29 01:20:44 2011 -0700

XQuartz: Move -lxplugin to LDFLAGS from LDADD

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 38df706c6b8a339c4267cae7be0881c4362f36da
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue May 31 13:01:05 2011 -0700

XQuartz: GLX: Create a new dispatch table rather than modifying the existing one

Fixes regression introduced by b0c665ac0fe6840dda581e4d0d0b76c703d62a7b

0  X11.bin  0x0000000100118293 __glXAquaScreenCreateContext + 684
1  X11.bin  0x00000001001315b0 DoCreateContext + 163
2  X11.bin  0x000000010013509f __glXDispatch + 211
3  X11.bin  0x000000010013509f __glXDispatch + 211
4  X11.bin  0x000000010013509f __glXDispatch + 211
5  libSystem.B.dylib  0x00000001000122bc server_thread + 50
6  libSystem.B.dylib  0x0000000100118293 __glXAquaScreenCreateContext + 684
7  libSystem.B.dylib  0x0000000100118293 __glXAquaScreenCreateContext + 684

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c5b72fd350bbd61facd0dd5085f238c4cf252a
Author: Marko Macek <Marko.Macek@gmx.net>
Date:   Sat May 21 13:30:59 2011 +0100

DIX: Set backgroundState correctly for root window

When we change the root window's background to None, and we've run with
-wr or -br for a forced solid background, make sure we also change the
background state to BackgroundPixel, so we don't try to lookup either
pScreen->whitePixel or pScreen->blackPixel as a pixmap.

Signed-off-by: Marko Macek <Marko.Macek@gmx.net>
Reviewed-by: Walter Harms <wharms@bfs.de>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit db228d3d07a6d831f53e4c05c878327ad4d045eb
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 1 11:20:10 2011 -0700

Version bumped to 1.10.99.901 (1.11 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0643c056512d10be8db223d18d6563292d57e916
Merge: a2e6cfc18a d45f5b2493
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 31 23:45:07 2011 -0700

Merge remote-tracking branch 'ajax/xserver-next'

commit a2e6cfc18aece0027b51572b03ec9f2ab074b56
Merge: bc04065b5c 8d84fd2566
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 31 23:42:52 2011 -0700

Merge remote-tracking branch 'sandmann/for-keithp'

commit d45f5b2493be0a2882bf972849b5c9c50ed533ca
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 25 05:54:35 2011 -0400
fixes: Add support for pointer barriers

Implements pointer barriers as specified by version 5 of the XFIXES protocol. Barriers are axis-aligned, zero-width lines that block pointer movement for relative input devices. Barriers may block motion in either the positive or negative direction, or both.

v3:
- Fix off-by-one in version_requests array
- Port to non-glib test harness
- Fix review notes from Søren Sandmann Pedersen, add tests to match

Co-authored-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc04065b5ce277f3ae3491ff221a60ef3c7605cf
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri May 20 19:24:34 2011 -0700
"privates.h", line 198: warning: void function cannot return value
Providing an argument to return in a function with void return type is not allowed by the C standard, and makes the Sun compilers unhappy. (They actually flag it as an error, unless using a new enough version to be able to downgrade it to a warning with "-features=extensions").

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit eadf5021794782fde861d471ed408675f4926b89
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon May 2 19:48:42 2011 -0700
Use XORG STRICT_OPTION from util-macros 1.14 to set -Werror flags

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9275b1fb6f82a6971c4177ddd3d5a859a8f24119
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon May 2 19:47:44 2011 -0700
Use XORG_COMPILER_BRAND from util-macros 1.14 to check for SUNCC
Add a property for device/product ID.

In some cases, knowing about the device model number and the device's vendor is important to activate product-specific settings. Since this is nonetheless driver-specific, only provide the property but don't do anything with it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Xi: add device node property to known properties.

Since the server has little choice (or even knowledge) of the actual device node used by the driver, this property is merely provided for standardisation. It is up to the driver to set it to the appropriate value, usually a device node in the form of /dev/input/event0 or similar.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>

Don't call pixman_disable_out_of_bounds_workaround() anymore

Pixman used to have a workaround for a bug in old X servers, and this function was used to disable that workaround in servers known to be fixed.

Since 0.22, which the X server depends on, the workaround doesn't exist anymore, so there is no point disabling it.

Reviewed-by: Cyril Brulebois <kibi at debian.org>
Signed-off-by: Soren Sandmann Pedersen <ssp@redhat.com>
commit b6c7b9b2f39e970cedb6bc1e073f901e28cb0fa3
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Tue May 24 16:02:42 2011 -0700

randr: check rotated virtual size limits correctly

Commit d1107918d4626268803b54033a07405122278e7f introduced checks to
the RandR path that cause RRSetScreenConfig requests to fail if the
size is too large. Unfortunately, when RandR 1.1 rotation is enabled
it compares the rotated screen dimensions to the unrotated limits,
which causes 90- and 270-degree rotation to fail unless your screen
happens to be square:

X Error of failed request:  BadValue (integer parameter out of range for operation)
  Major opcode of failed request:  153 (RANDR)
  Minor opcode of failed request:  2 (RRSetScreenConfig)
  Value in failed request:  0x780
  Serial number of failed request:  14
  Current serial number in output stream:  14

Fix this by moving the check above the code that swaps the dimensions
based on the rotation.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Jeremy Hustlestone <jeremyhu@apple.com>
Tested-by: Robert Hooker <robert.hooker@canonical.com>
Tested-by: Kent Baxley <kent.baxley@canonical.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4725d6b0db6371af4a1b2f851dcfe155514a
Merge: 1b2d17748f b5d828789c
Author: Keith Packard <keithp@keithp.com>
Date: Wed May 25 09:40:51 2011 -0600

Merge remote-tracking branch 'whot/for-keith'

commit 1b2d17748f0154da142e9b421d4f6a46e4e5a18c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun May 22 13:50:14 2011 -0700

fblbtlone.c: Mark bitmasks as unsigned ints

Clears many Sun compiler warnings:
"fblbtlone.c", line 491: warning: integer overflow detected: op "<<"
"fblbtlone.c", line 491: warning: integer overflow detected: op "<<"
"fblbtlone.c", line 491: warning: integer overflow detected: op "<<"
"fblbtlone.c", line 491: warning: initializer will be sign-extended: -16777216
"fblbtlone.c", line 491: warning: integer overflow detected: op "<<"
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b5d828789c092c994722a896c252212e2b3614ab
Author: Simon Thum <simon.thum@gmx.de>
Date:   Thu Mar 10 21:03:40 2011 +0100

gxserver: remove AbsoluteClass, breaking the A(P|B)I

This struct was unused and has been effectively removed in commit 633b81e8ba09cc6f1ea8b43f323874fda2cf0bde
Refs: xorg-server-1.10.0-133-g633b81e

Remove the remainder, with an ABI bump to 13.0.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c05c8640f13708384e77579e7714ca846fa93f5c
Author: Oleh Nykyforchyn <oleh.nyk@gmail.com>
Date:   Thu May 19 09:39:52 2011 +0300

xfree86: Allow "MatchLayout" statements in config files

Usage example (tested on a dual-seat PC):
Section "InputClass"
    Identifier "keyboard-all"
    MatchIsKeyboard "on"
    MatchDevicePath "/dev/input/event*"
    MatchLayout "!GeForce!Matrox"
    Driver "evdev"
    Option "XkbLayout" "us"
Option "XkbOptions" "terminate:ctrl_alt_bksp"
EndSection

It disables auto keyboard configuration for layouts "GeForce" and "Matrox". Note that "" in patterns means "no Layout sections found", e.g.

MatchLayout "GeForce|"
is "in layout GeForce or without explicit layout at all".

Signed-off-by: Oleh Nykyforchyn <oleh.nyk@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83e059f03463f2d7f41e172afe510d1ca9bba8b0
Author: Tomas Frydrych <tomas@sleepfive.com>
Date: Wed May 18 20:49:52 2011 +0100

Xephyr: fix pointer coordinate translation when screen is rotated

In the Xephyr case the position of the pointer relative toward the Xephyr window is controlled by the host server without taking into account rotation of the Xephyr screen. Consequently the pointer coords must always be translated when the fb is rotated.

Signed-off-by: Tomas Frydrych <tomas@sleepfive.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b387069fabbe549f2091f364e2aa92af6cc21261
Author: Tomas Frydrych <tomas@sleepfive.com>
Date: Wed May 18 20:47:52 2011 +0100

Xephyr: added dummy ephyrDeviceCursorCleanup() to avoid crashing

The DeviceCursorCleanup in miPointerSpriteFuncRec can no longer be NULL it seems.

Signed-off-by: Tomas Frydrych <tomas@sleepfive.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 53ccc54ac71e2655276678e13f0b3d879d691489
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Mon May 16 19:31:57 2011 +0100

Fix XWin compilation after updates for input API changes

Fix XWin compilation after updates for input API changes in commits e7150db5 8670c46b and 20fb07f4
Also remove a no longer needed InternalEvent* variable

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4c4df3ac0d8162c874b85fede12ffbe42f0062c3
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat May 14 16:23:59 2011 -0700

input: Don't implicitly define verify_internal_event

Fixes regression introduced by 56901998020b6f443cbaa5eb303100d979e81b22

mieq.c:159:5: error: implicit declaration of function 'verify_internal_event' is invalid in C99 [-Wimplicit-function-declaration,Semantic Issue]
  verify_internal_event(e);
  ^
1 error generated.

Also includes some other warning cleanups in events.c we're there.

events.c:2198:24: warning: equality comparison with extraneous parentheses [-Wparentheses,Semantic Issue]
  else if ((type == MotionNotify))
      ~~~~~^~~~~~~~~~~~~~~
events.c:2198:24: note: remove extraneous parentheses around the comparison to silence this warning [Semantic Issue]
  else if ((type == MotionNotify))
     ~ ^ ~

events.c:2487:5: error: implicit declaration of function 'verify_internal_event' is invalid in C99 [-Wimplicit-function-declaration,Semantic Issue]
  verify_internal_event(event);
  ^

events.c:5909:22: warning: declaration shadows a local variable [-Wshadow,Semantic Issue]
  DeviceIntPtr it = inputInfo.devices;
  ^

events.c:5893:18: note: previous declaration is here
  DeviceIntPtr it = inputInfo.devices;
  ^
3 warnings and 1 error generated.

events.c:2836:27: warning: incompatible pointer types passing 'DeviceEvent *' (aka 'struct _DeviceEvent *') to parameter of type
     'const InternalEvent *' (aka 'const union _InternalEvent *')
verify_internal_event(ev);
^~
./include/inpututils.h:40:56: note: passing argument to parameter 'ev' here
extern void verify_internal_event(const InternalEvent *ev);
^
1 warning generated.

Found-by: yuffie tinderbox (-Werror=implicit)
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ba7d1020ac0135ebc8acda4cd57ed48b331e0133
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat May 14 16:31:10 2011 -0700

input: Fix format string for verify_internal_event

inpututils.c:577:25: warning: conversion specifies type 'unsigned short' but the argument has type 'unsigned char'
[-Wformat,Format String Issue]
    ErrorF("%02hx ", *data);
    ~~~~~^    ~~~~~
%02hhx
1 warning generated.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0de7cec90738a7a5020150309866bb0e23b6f479
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 19 15:36:29 2011 +1000

xfree86: bump to video ABI 11

We've broken the ABI with some commit and drivers built against ABI 10 happily segfault now.

(The relevant patch is 51f353d0a0d116af16d7d9590cade6c56328746 which changed the ATOM typedef from unsigned long to uint32_t, thanks to Cyril Brulebois <kibi@debian.org> for figuring this out)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1fb501ad1521cfedaa5cf3052d45a924ef1866cf
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun May 22 10:18:36 2011 -0700
XQuartz: Don't crash if CG increases our display resolution

miPaintWindow would cause fbFill() to overwrite pScreen's pixmap which was sized for the old resolution.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 60af79e35ee8546a99d15a1358aac3deabfa22be
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun May 22 09:32:57 2011 -0700

XQuartz: RandR: Don't crash if X11 is launched while there are no attached displays

If CG reports no displays when launching, we could crash in RandR. Instead, just provide a fake 800x600 display until we are notified about displays being attached.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f25ca898c54cb88c7886005fc75a53762c42710b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu May 19 14:39:22 2011 -0700

XQuartz: Mark functions _X_NORETURN

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7413886d650aef492ecbfdec4298c2d92d9af5f87
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu May 19 14:35:56 2011 -0700

XQuartz: Silence clang warnings about shadow declarations

X11Application.m:1272:26: warning: declaration shadows a local variable [-Wshadow,Semantic Issue]
xp_error e;
^
X11Application.m:1098:36: note: previous declaration is here
- (void) sendX11NSEvent:(NSEvent *)e {
    ^
1 warning generated.

bundle-main.c:648:36: warning: declaration shadows a local variable [-Wshadow,Semantic Issue]
int max_files, i;
^
bundle-main.c:594:9: note: previous declaration is here
int i;
^
1 warning generated.
XQuartz: Update DEBUG_LOG to report to ASL

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 96ac4e61f4618332d95d1fd0e4799dd82844f90f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu May 19 14:34:39 2011 -0700

XQuartz: RandR: Avoid over-releasing if we are unable to determine the current display mode.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 384eb45b944a4386eae74a5503423c13b5f2a659
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat May 14 18:33:57 2011 -0700

XQuartz: Don't call mieqEnqueue during server shutdown

Found-by: GuardMalloc
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fd5f630bc41de73be3b1d26bf9ce3e9ef1badc3b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat May 14 14:09:45 2011 -0700

XQuartz: Fix an array-index-out-of-bounds crasher

Found-by: GuardMalloc
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0e7f61d72c4a929319e57c9b5b777e9413c23051
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat May 14 13:30:20 2011 -0400

doc: use devbook.am for developers documentation

Relocate the docs under the doc subdir.
Remove redundant xml subdir.
The xmlrules set of makefiles are no longer used.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
doc: relocate xserver.ent in the package root directory

This is the appropriate location for reusable configuration and/or
makefile artifacts as opposed to picking one of the subdirs where
it is used.

It shields them from future doc reorg as every subdir
will refer to the root package which never changes location.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dbe26634e4f12eba905550666783c9879a3a49a
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat May 14 13:30:18 2011 -0400

doc: add external doc references support to Xserver-DTrace

This makefile is used to build the 60+ docbooks in xorg.
Dtrace is a user document and should be located under doc subdir.

This user document can now refer to external user/specs docs
or can be referred to by such documnets.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 221507e3bf6fcaa4a4c2e1bc264a1f806b4362c0
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Apr 28 21:16:13 2011 -0400

man: relocate manual pages in the man subdir outside doc

The convention is to have the manual pages in a man subdir
which is not under a doc dir. The doc dir contains users docs.
This will move man pages out of the way for upcoming DocBook patches.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9129beb507642e2414ef1f90d650572325d8c2dc
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Apr 28 21:16:12 2011 -0400

dmx: fix warning for doxygen explicit links

Explicit links to functions in another file are not supported.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0d8a5766a39320dedd34a215fc665f19ac19e8bc
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Apr 28 21:16:11 2011 -0400

dmx: modernize doxygen generation.

The configuration and stylesheet were very old.
The stylesheet is not checked-in, use the generated one.
The header is not checked-in, use the generated one.
Add datetime and projectname in default footer.
Developer documentation is not installed and not included in tarball.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 622ebb88157b0ed99355419767685dd70ce0f16c
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Apr 28 21:16:10 2011 -0400

dmx: split DocBook/XML and Doxygen makefile targets

Maintaining either requires full knowledge of both.
It's not obvious one has to check the usage of global variables
in devbook.am when maintaining doxygen target. Or vice-versa.

Being in their respective directory, one less thing to worry about.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 595460c397a543fe512be0dc3c432de2a0a68d187
Author: Gaetan Nadon <memsize@videotron.ca>
dmx/doc: use common makefile for developers documentation

The user/specs docs now have external references support. Developers doc are not installed so they do not participate. However, using a similar makefile shared amongst developers document reduces maintenance and is forward looking.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 04011b0bc3b5b59efa0d981866349c4ad0868d8f
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Thu Apr 28 21:16:08 2011 -0400

doc: use common makefile for developers documentation

The user/specs docs now have external references support. Developers doc are not installed so they do not participate. However, using a similar makefile shared amongst developers document reduces maintenance and is forward looking.

Man pages being out of here, reorg developers docs under the same roof. Drop the obsolete sgml subdir.

Reviewed-by Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 531869448d07e00ae241120b59f3aaaa5709d59c
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Fri May 6 18:18:15 2011 +0300

dri2: Don't send so many needless invalidate events

Only send invalidate events for drawables if some client has requested some buffers.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ba5540221f2a46133371b4ff0d527b1a0a1443b1
Merge: 6347a0b802 728d0bf20e
Author: Keith Packard <keithp@keithp.com>
Date: Fri May 13 13:59:36 2011 -0700
Merge remote-tracking branch 'whot/for-keith'

commit 6347a0b802812bb185ada1bf0951add306935184
Merge: 4d02c53971 f144fb771f
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 13 13:54:29 2011 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 4d02c5397114ac4d15e794908f0708427e258261
Merge: 043c175865 eac37f32b8
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 13 13:52:18 2011 -0700

Merge remote-tracking branch 'vsyrjala/composite_validatetree_2'

commit f144fb771f2e0665677aa88d08778899f666a1d5
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri May 13 09:10:42 2011 -0700

XQuartz: Don't circumvent NDEBUG

If someone wants to turn off asserts with NDEBUG, let them.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f46835a09662f71f2cbb90540609c34561d8af87f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed May 11 15:23:17 2011 -0700

XQuartz: Redirect stdout/stderr to asl

In order to improve logging in XQuartz, stdout and stderr should be redirected to asl (syslog).

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5be05d96f883add324bab338ffbb9499c45b2c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu May 12 15:45:29 2011 -0700

XQuartz: Add a LOGGING section to our man page

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c18b7165f971cbf6b634ccf670eb4aa9840eb9e4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu May 12 18:29:23 2011 -0700

XQuartz: stub: Log directly to ASL rather than stdout/stderr

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d694601591d2a86a437c5150015d9889e2fe16fc
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu May 12 15:15:40 2011 -0700

Fix a typo: laucnd instead of launchd

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 728d0bf20ed8e2612b100fca6526705fa6e1eef4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 11 13:35:39 2011 +1000

dix: replace CORE_EVENT and XI2_EVENT macros with inline functions.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit ffd4874798ba54f86acac75779a15b4babea15f3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 11 12:20:50 2011 +1000

include: add version_compare helper function

Compare two version numbers in the major.minor form.
Switch the few users of manual version switching over to the new function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit c4f9c3a07dbb05b81c8e2193a083102f710eb27
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 11 11:43:16 2011 +1000

dix: use a tmp variable instead of multiple rClient(other).

no functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit dc45d5816dd65168645f0017394eebfc5599d698
Author: Peter Hutterer <peter.hutterer@who-t.net>
Xi: split DeviceStateNotify delivery into a separate function

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 5bcc22757e6e1f24ee2bfe65f68a5f567300532
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 14 15:43:56 2011 +1000

dix: return deliveries from DeliverGrabbedEvent

This isn't currently used by any of the callers but it will likely be in the future.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 2054ca73060a20b5a3025e8d5ef68182149484d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 14 15:09:39 2011 +1000

dix: move the grab activation condition into a if block.

Rather than 3 conditions with if (deliveries && ...), have one block with the three in them.
No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 236ed6f50675dc0303a505ac6f0418c515438fe1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 12 14:04:37 2011 +1000

dix: split out client delivery from DeliverEventsToWindow

No real functional changes, this is just for improved readability.

DeliverEventsToWindow used to return an int to specify the number of deliveries (or rejected deliveries if negative). The number wasn't used by any caller other than for > 0 comparison.

This patch also changes the return value to be -1 or 1 even in case of multiple deliveries/rejections. The comment was updated accordingly.

A future patch should probably use the enum EventDeliveryState for
DeliverEventsToWindow.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 536ca28f1b0b4d8715a41b8acc5f30364c833f9b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 12 13:44:30 2011 +1000

dix: split out window owner event delivery from DeliverEventsToWindow

No functional changes, just for readability.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a311a03135f9734aa4f7dc0f2fa0e4e91768343b
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed May 11 14:08:28 2011 -0700

dix: split implicit grab activation into a separate function.

I'm not sure I like splitting the check for button-press event from the
code which makes assumptions about that check. How about replacing
patches 3 and 4 with this patch instead?

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a558a66d249cd51d3d675b20cc3a76651fd87930
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed May 11 17:27:52 2011 -0700

configure.ac: XQuartz: Fix support for the deprecated --with-launchd-id-prefix

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c89a6f824eaf647d2b182f79fbd78f5bd1c3a27f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue May 10 23:42:46 2011 -0700

XQuartz: Don't call into CoreFoundation after fork() and before exec()

After fork(jing), we should just limit ourselves to setting up
the environment, file descriptors, and exec(jing).

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit c8674a328c68f03de6e4fad7790a595c0dc18736
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 14 16:45:56 2011 +1000

dix: replace unneded goto with break.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 20fb07f436f7d4a0f330b2067a93a5a4829fccc5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 15 10:07:10 2011 +1000

input: remove DDX event list handling

The current approach to event posting required the DDX to request the event list (allocated by the DIX) and then pass that list into QueuePointerEvent and friends.

Remove this step and use the DIX event list directly. This means that QueuePointerEvent is not reentrant but it wasn't before anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 8670c46bdfdad6e463119d2ebbd5e63b6f0a2c3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 14 22:05:41 2011 +1000

input: replace EventListPtr with InternalEvent array

EventListPtr is a relic from pre-1.6, when we had protocol events in the event queue and thus events of varying size.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e7150db5350b2113ff4126019b489847a4dc217
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 11 15:48:15 2011 +1000

input: Provide Queue{Button|Keyboard|Proximity}Event helpers

Don't require every caller to use GPE + mieqEnqueue, provide matching Queue...Event functions instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: print the device ID to the log when adding a device.

Sometimes the name isn't enough, it's handy to see the device ID's from the log file.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3231962db826f5efdd431596a309e96e907a191d1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue May 3 03:20:23 2011 +0100

XKB: Fix sense inversion for core MapNotify events

Due to an unfortunate sense inversion incident while switching from a if (foo) { ... } to if (!foo) continue; style in f06a9d, we punished any client who attempted to use XKB to restrict the MapNotify events they wanted by sending them exactly the events they _didn't_ want, and nothing else.

NewKeyboardNotifies (coming from a client setting the map with an XKB request, when switching between master devices, etc) weren't affected, but this would impact anyone using xmodmap-style core requests. Could explain a fair bit.

Clarified the comments while I was at it.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 460a377ef2d645d9ae38a8356f248ccc47bed4a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue May 3 03:07:50 2011 +0100

XKB: Send XKB events for all devices to all clients

We were using XIShouldNotify(client, device) as a test for whether or not to send XKB map/state/etc changed events, which limits it to only sending events for the current ClientPointer/ClientKeyboard for that client. While this makes perfect sense for core events (e.g. MappingNotify), XKB events carry a device ID, so are safe to send to all clients for all devices.
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a79d4544fee806a25447d0147535ebc5a1cae6b9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue May 3 03:03:06 2011 +0100

XKB: Send NewKeyboardNotify for dev before its master/slaves

When we change the keymap on a device, send the NewKeyboardNotify for that device before we copy the keymap to and notify for its attached master/slave devices.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c7634498d4cd42c8571805122224dc2d0e44a585
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue May 3 02:59:53 2011 +0100

XKB: Remove duplicate keymap-copying loop

Previously we had:
   foreach (device + slaves of device) {
      XkbCopyDeviceKeymap(i, device);
      [...] 
   }
   if (device was last slave of its MD) {
      XkbCopyDeviceKeymap(master, device);
   }
and now:
   foreach (device + slaves of device + MD if device was last slave) {
      XkbCopyDeviceKeymap(i, device);
      [...] 
   }

As an extra bonus, when changing the keymap on a slave device, we now ensure the LED info on the master is kept in sync.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b8540d18c7d3a0f93f9e2565a410986eddedcecb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue May 3 02:50:48 2011 +0100

XKB: Simplify a loop in ProcXkbGetKbdByName
Replace:
for (stuff; things; etc) {
    if (misc || other) {
        [...] 
    }
}
}

with:
for (stuff; things; etc) {
    if (!misc && !other)
        continue;
    [...] 
}

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 72b6639c83df74767094a5e0c2861fde5ea03ecd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue May 3 02:39:55 2011 +0100

XKB: Don't send unnecessary NewKeyboardNotifies

In the XKB GetKeyboardByName handler, we had the following pseudocode:
if (device was last slave of its MD) {
    XkbCopyDeviceKeymap(master, slave);
    XkbSendNewKeyboardNotify(slave, &notify);
}

Even if the SendNewKeyboardNotify line nominated the correct device, which it didn't, it's unnecessary as XkbCopyDeviceKeymap already sends a NewKeyboardNotify on the destination device.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 70cef8d8ba0f058bcaff87ef49e3851628269597
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Jan 19 20:42:10 2011 +0000

Input: Simplify CheckPassiveGrabsOnWindow loop

Instead of a mega never-ending if branch with no else, just continue to the next iteration of the loop if the conditions aren't met - pretty much entirely reindentation.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Input: Make CheckPassiveGrabsOnWindow take InternalEvent

Previously, it only took DeviceEvents, but it would be much more useful if it took InternalEvents. Any event that activates a grab must still be a DeviceEvent, so put in a check to enforce this.

Change all callers to make the appropriate casts.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

input: change CHECKEVENT macro to verify _internal_event function

The macro is sufficient if called during a development cycle, but not sufficient information when triggered by a user (e.g. https://bugzilla.redhat.com/show_bug.cgi?id=688693).

Expand what this does to print the event content and a backtrace, so at least we know where we're coming from. Only the first 32 bytes are printed since if something goes wrong, the event we have is almost certainly an xEvent or xError, both restricted to 32 bytes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

input: Only release SD buttons for explicit floating/reattachment (#36146)

Grabbing an SD device temporary floats the device but we must not release
the buttons. Introduced in

commit 9d2347806f84606ee4f38bb2d19054c432c8552
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 25 11:08:19 2011 +1000

dix: release all buttons and keys before reattaching a device (#34182)

X.Org Bug 36146 <http://bugs.freedesktop.org/show_bug.cgi?id=36146>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit eac37f32b85b631d94ee3ba11fa65b9d2cb72c38
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Wed Apr 13 21:46:20 2011 +0300

composite: Recompute clipping when changing between manual and automatic redirection

Call compMarkWindows() when changing between manual and automatic redirection modes. Otherwise the window clipping won't be recomputed correctly.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit f2001b0f6dffa0a8f05def4a86ea37c4c91db724
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Wed Apr 13 21:45:43 2011 +0300

composite: Fix pWin->redirectDraw when changing between manual and automatic redirection

compAllowPixmap() is not called when changing between manual and automatic redirection modes. That means pWin->redirectDraw is left with an incorrect value, and miComputeClips() gets confused whether the window is supposed to be treated as transparent or not. Fix the issue by updating pWin->redirectDraw in compCheckRedirect() even when not calling compAllocPixmap().

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit 74663e61528346aeea9c11908b6980b51dcaeb68
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Mon Dec 20 16:37:24 2010 +0200

composite: Copy the window contents back from the pixmap

Since extra expose events are no longer generated during window unredirection, the window contents must be preserved by the server.
So copy the window contents back from the pixmap. The copy can only be done after the clips have been recomputed, so delay the copy and the pixmap destruction until ValidateTree is done. Window borders are restored by HandleExposures and thus don't need to be copied back.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 193ecc8b453b22b3e60248b9354c768dbd405598
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Fri Dec 17 23:46:34 2010 +0200

composite: Get rid of the internal UnmapWindow+MapWindow cycle

Eliminate the internal MapWindow+UnmapWindow cycle around window redirection changes. Instead do the work in a single pass by marking the affected windows and calling ValidateTree and HandleExposures directly. This gets rid of unnecessary expose events, and invalid ClipNotify calls during redirection changes. Now ClipNotify will only get called with the final clip values, and expose events are only sent to areas that actually got exposed.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a6ae91746212203a19450ac955fbb7abfffd1ed3
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Mon Dec 20 16:30:52 2010 +0200

composite: Initialize borderClip with current values

ValidateTree needs a valid borderClip so initialize the parent constrained border clip with the window's current borderClip in compRedirectWindow.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ce9eff9e4c30deb16f059ed84b436d37da45d5d5
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Mon Dec 20 16:33:36 2010 +0200

composite: Call ValidateGC after ChangeGC

ChangeGC changes the GC, so ValidateGC should be called after it, not before.
Also pass NullClient instead of serverClient to ChangeGC() since we know the changed values to be valid, and setting serverClient->errorValue seems pointless anyway.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 3ac220d6cc386e9ab9995e5b83463c40330e18c2
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue May 3 10:54:09 2011 -0700

XQuartz: prefs_copy_url and prefs_get_copy return retained objects

No functional change. This just annotates the return policy.

Found-by: clang static analyzer
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit bac8d12555dd44b2139be0696629910cd4d8c782
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue May 3 10:36:19 2011 -0700

XQuartz: Ensure that {CF,NS}_RETURNS{,_NOT}_RETAINED are defined

These will be used in subsequent patches to denote proper retain counts in XQuartz

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 043c1758652259fd12b88ae37720fe6e93eda76b
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Apr 19 19:02:54 2011 -0700

Clean up memory better when GetVisualInfo fails in ProcDbeGetVisualInfo

Use calloc to initialize pScrVisInfo array so we don't have to check which ones were already initialized when freeing them all.

On failure, set rc if necessary, and jump to code at end that already frees all the necessary allocations and return rc.

Fixes parfait reported error:
Error: Memory leak (CWE 401)

Memory leak of pointer 'pScrVisInfo' allocated with malloc((count * 16))
at line 724 of dbe/dbe.c in function 'ProcDbeGetVisualInfo'.
'pScrVisInfo' allocated at line 693 with malloc((count * 16)).
pSerVisInfo leaks when rc != 0 at line 710
and j >= i at line 716.

[ This bug was found by the Parfait 0.3.7 bug checking tool.
For more information see http://labs.oracle.com/projects/parfait/ ]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit dadb0791ebfd05cd3bb82d4addf0fbc21aad6fbb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Apr 19 18:53:22 2011 -0700

Only free pContext once when AddResource fails in ProcRecordCreateContext

Since RecordDeleteContext frees its argument, don't fall through to free it again.

Error: Double free (CWE 415)
Double free of pointer 'malloc(1072)' defined by malloc
at line 1964 of record/record.c in function 'ProcRecordCreateContext'.
Previously freed at line 1960 with RecordDeleteContext.
'malloc(1072)' was allocated at line 1926 with malloc.

[ This bug was found by the Parfait 0.3.7 bug checking tool.
For more information see http://labs.oracle.com/projects/parfait/ ]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 73de54210446e9eca81b96ea6775ee5ea1a31d75
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Jan 24 08:40:10 2011 +1000

Input: Fix event size confusion in CheckPassiveGrabsOnWindow

We were just storing a DeviceEvent, but allocating enough space for an InternalEvent.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit 706326491011be8cecb9b56c06f7241b7cbd425f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jan 18 20:16:36 2011 +0000
Input: Add DeepestSpriteWin function

Does what it says on the box: returns the deepest child window in a given sprite's trace.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 65b54548dce80c8e8ff5ff91fc4f0659e9b2d921
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Tue Jan 18 20:08:09 2011 +0000

Input: Pass co-ordinates by reference to transformAbsolute

With the upcoming XI 2.1 touch work, the co-ordinate values will need to be passed by reference, rather than modified in-place.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a14a0c711397ff7ca0220946010300fc1b2a6e67
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Apr 22 22:19:39 2011 -0700

Move event filter initializer out of the structure itself

When kept in the structure, it causes the entire MAXDEVICES * 128 masks to be stored in the data segment and loaded from the file, and also leads to worries about later generations inheriting changes across server reset.

<table>
<thead>
<tr>
<th>text</th>
<th>data</th>
<th>bss</th>
<th>dec</th>
<th>hex</th>
<th>filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before:</td>
<td>91837</td>
<td>20528</td>
<td>32</td>
<td>112397</td>
<td>1b70d</td>
</tr>
<tr>
<td>After:</td>
<td>92277</td>
<td>48</td>
<td>20512</td>
<td>112837</td>
<td>1b8c5</td>
</tr>
<tr>
<td>Before:</td>
<td>3013384</td>
<td>122696</td>
<td>163156</td>
<td>3299236</td>
<td>3257a4</td>
</tr>
<tr>
<td>After:</td>
<td>3013832</td>
<td>102216</td>
<td>183636</td>
<td>3299684</td>
<td>325964</td>
</tr>
</tbody>
</table>

File size before: 4337008 Xorg
File size after: 4316568 Xorg

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8d229e4cf9e5bde78373ef3dd32708817ae97152
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Mar 11 15:43:14 2011 -0800
Make xorg.conf.example rule compatible with Solaris make

Solaris make won't substitute $< in explicit rules, only implicit ones

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit c6029246ddecf5ead3884dbf2ab4f57e0c3586e93
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Feb 2 17:00:25 2011 -0800

Move Xinput server API documentation from libXi to doc/xml

Documentation is quite out of date but still fits better here than in the client library.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0fc7ec6dd504aa03e1a1b18c60942c0c8c8b701b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Apr 29 11:06:18 2011 -0700

XQuartz: Fix incorrect typedefs with XPLUGIN_VERSION < 4

Ok, this time for sure... how many brown bags can I fit over my face?

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 29d471663e4414a3c7f154fd032d74381a921ae0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 18:09:11 2011 -0700

XQuartz: Use a rwlock instead of a mutex to protect window_hash in the pthread case

Concurrent reads are acceptable, so using an rwlock should be better.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5cb31cd0cbf83fff5f17a475e7b0e45246b19bf3
Merge: 0f284f0f42 4d8735d388
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 29 09:59:49 2011 -0700

Merge remote-tracking branch 'jturney/remove-opengl-spec-download'

commit 4d8735d388c3e6af27ef3d6a645e38e556f392f4
hw/xwin: wglext.h should be provided by w32api, rather than downloaded

wglext.h should be provided by the w32api package, rather than downloaded. if it's not, do `wget -P /usr/include/w32api/GL http://www.opengl.org/registry/api/wglext.h`

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit a50878682cda541766c830e49ab406c78b38d903
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Wed Apr 6 16:23:45 2011 +0100

configure: Look for Khronos OpenGL spec files using pkg-config

Look for Khronos OpenGL spec files using pkg-config, rather than downloading them

Also add a `--with-khronos-spec-dir=PATH` configure option so XWin can be directed where to find these files without using the khronos-spec-files package

XWin with AIGLX requires OpenGL spec files in order to generate wrapper code which:
(1) thunks from the glapi dispatch table which uses the default cdecl calling convention to native GL functions using the stdcall calling convention.
(2) performs function address lookup for OpenGL 1.2+ functions, which are treated as extensions and so not directly linkable.

v2: KHRONOS_SPEC_DIR is only valid when XWIN_GLX_WINDOWS is defined. Avoid 'make dist' seeing invalid dependencies by only including rules using KHRONOS_SPEC_DIR if XWIN_GLX_WINDOWS is defined

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 0f284f0f42f6a242eb3153787f2e98b6b88df8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Apr 27 22:12:59 2011 -0700

XQuartz: BuildFix to build correctly with XPLUGIN_VERSION < 4

This fixes a regression introduced by d79cc14a51f3e8d4d2f66aad055092672cab1526

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f6d4e75ec55ac6812f9dead42ecdfb9614578c7
Merge: ee9ea40178 4318e6a147
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 27 12:08:51 2011 -0700

Merge remote-tracking branch 'jturney/master'

commit ee9ea401785cefe5519a4e890b0ff1a5518235a
Merge: c6cb70be1e 6f29dbf5e3
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 27 12:01:56 2011 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 4318e6a147e78b2663c5e0ea6ba0d351a1e87f98
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Sat Mar 5 17:34:42 2011 +0000

Cygwin/X: Handle failure during winScreenInit()

Handle failure during winScreenInit() a bit more cleanly, rather than crashing

This avoids a crash with 'XWin -fullscreen -screen 0 @2 -screen 1 @1'

Also document that fullscreen may only be applied to one screen.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit ce6136f8c553bbc6d3e3affa0faa2afbf8054f44
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 23 20:06:33 2010 +0000

Cygwin/X: Make winOverrideStyle() thread-safe

Make winOverrideStyle() thread-safe

winOverrideStyle() is called from the internal WM client thread.

Accessing server-internal data structures to get window name and
class is not safe, as there is no lock to ensure we do not collide
with these data structures being updated in the server thread.

Rewrite so the internal client thread uses X client calls to
obtain this data safely

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Cygwin/X: Cosmetic fixes to logging of result from X*TextPropertyToTextList()

Report XLocaleNotSupported result from X*TextPropertyToTextList()
Fix formatting for unknown results reported for X*TextPropertyToTextList()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

Cygwin/X: Decorate function pointers retrieved via GetProcAddress with WINAPI

Decorate function pointers retrieved via GetProcAddress which are currently missing it with WINAPI, to ensure stdcall convention is used when calling them.

This fixes a crash currently seen when compiled -O2 and the -screen option uses a size and monitor number e.g. -screen 0 1280x1000@2

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

Cygwin/X: Don't make InputOnly windows visible

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

Cygwin/X: Fix a GDI bitmap resource leak of window icons

Ensure any icon created specially for a window is destroyed when
the window is destroyed

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 19e764eee0c8b74d877f2b1d6aede933976660e
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jul 21 18:11:13 2010 +0100

Cygwin/X: Internal WM workaround for Java AWT bug

Java applications using AWT on JRE 1.6.0 break with non-reparenting WM's AWT
doesn't explicitly know about (See sun bug #6434227)

XDecoratedPeer.handleConfigureNotifyEvent() only processes non-synthetic
ConfigureNotify events to update window location if it's identified the
WM as a non-reparenting WM it knows about (compiz or lookingglass)

Rather than tell all sorts of lies to get XWM to recognize us as one of
those, simply send a synthetic ConfigureNotify for every non-synthetic one

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit c5a612fc18a7f5c542fca580494e2c66ecfc2159
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Fri Apr 16 21:55:01 2010 +0100

configure: Let configure --enable/disable-aiglx control building of AIGLX for all DDXs

Let configure --enable/disable-aiglx control building of AIGLX for all DDXs. Currently
we can't use --enable/disable-aiglx to control if Xwin DDX is built with AIGLX enabled,
as at the moment it's forced off if we aren't building the X.Org DDX DRI or DRI2 loader

Rearrange things a bit, introducing a new automake conditional, AIGLX_DRI_LOADER to
specifically indicate if the X.Org DDX DRI/DRI2 loader convenience library should be
built, and replace the previous X.Org DDX-specific uses of the AIGLX conditional with that

As before, AIGLX_DRI_LOADER is only enabled if --enable-glx, --enable-aiglx and at least one
of --enable-dri or --enable-dri2 are enabled

This allows the general conditional AIGLX to control if AIGLX is built for the XWin DDX as
well

The C #define AIGLX set by AC_DEFINE(AIGLX) seems to be obsolete, I can't find anything
which checks it
Updated for ajax's "glx: Make --disable-dri not disable AIGLX" patch, which allows DRI2 to be enabled independently of DRI1

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 6f29dbf5e36b6f5e0b08f02d36798ddee0f9f1cd
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon Apr 25 22:00:41 2011 -0700

XQuartz: Use ErrorF rather than fprintf to log errors

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cb083b05c469352ef80e1005a29ac320f2e4e096
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon Apr 25 21:25:10 2011 -0700

XQuartz: stub: Dead code removal

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 72ed7551f494c61283a7ac3d7b570eac39cc9786
Author: Emanuele Giaquinta <emanuele.giaquinta@gmail.com>
Date: Mon Apr 25 10:38:17 2011 -0700

XQuartz: pbproxy: LP64: Fix iteration through XGetWindowProperty where sizeof(long) != 4

http://xquartz.macosforge.org/trac/ticket/476

Signed-off-by: Emanuele Giaquinta <emanuele.giaquinta@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0a60192a85ba9f64b522da181c2fe8a5b93b79df
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Apr 24 22:01:48 2011 -0700

XQuartz: Enable logging to a file for better debugging

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit de4023f194c561b74f8fa904bea3dd5298230cd1
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Apr 24 21:35:04 2011 -0700

XQuartz: Rename launchd-id-prefix to bundle-id-prefix
It's used many other places than just for launchd.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e466745109416a2fcd5d7389c80b814a0363676
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Apr 24 20:35:06 2011 -0700

XQuartz: Dead code removal

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f1d867c0a1577e2c46d5dd4e262444e0cf6f8e25
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 23:22:27 2011 -0700

XQuartz: Silence clang static analyzer

Call to 'malloc' has an allocation size of 0 bytes.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 913223e99df2cb927ecad99aadfa730df8561ac
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 23:15:49 2011 -0700

XQuartz: xpr: Dead code removal

Assigned value is always the same as the existing value.

Found by clang static analyzer

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d0caa0e4cd255bea315757be2ff387cf57e86d7
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 20:12:38 2011 -0700

XQuartz: Silence warnings about deprecated functionality where it is an intended fallback

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9244a3a24f63239ec12675f3df091583e06c8314
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 12:55:39 2011 -0700

XQuartz: xpr: Use a serial queue rather than pthread mutexes for window_hash
Additionally removes some dead code and fixes double-locking in xprIsX11Window. xprIsX11Window doesn't need to do any locking because those resources are protected by the called functions themselves.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel A. Steffen <dsteffen@apple.com>

commit bac34a54f7cb84f346b1b833df9917bd1ace70223
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 12:11:39 2011 -0700

XQuartz: xpr: Initialize window_hash in xprInit

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1596ea72d66a03d9accb534679172ca6f63f78e1
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 11:55:49 2011 -0700

XQuartz: Use a lighter spinlock instead of a pthread_mutex_t in QuartzScreenSaver

Currently, we only end up here through a call to QuartzShowFullscreen, and this is always on the same thread. Future changes (such as further incorporating libdispatch) may allow this to change, but contention will remain minimal since the call is infrequent and it is short held.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel A. Steffen <dsteffen@apple.com>

commit 3e253c603bc18f06fa48b611797eb5a7e8a96fe4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 01:48:25 2011 -0700

XQuartz: Remove the threadSafety dead-ish code

It's been a few years now since we've needed this to debug thread boundaries, so punt it out to clean up the namespace solution.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a52c8078e9cc83c84a8c6eb58810f49db9b0bce1
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 01:39:16 2011 -0700

XQuartz: Use xorg_backtrace() instead of spewCallStack()

xorg_backtrace() has been in os for two years now, we might as well
start using it.

Ref: 94ed0ba1b5043ad9fc33b42756af447d5ab15bbd

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit d79cc14a51f3e8d4d2f66aad055092672cab1526
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 22 12:05:32 2011 -0700

XQuartz: Fix compilation warnings with XPLUGIN_VERSION >= 4

xprAppleWM.c:143: warning: initialization from incompatible pointer type
xprAppleWM.c:144: warning: initialization from incompatible pointer type

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6128544fd58ced0ed738b7150865294d214fb4eb
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Apr 25 12:38:07 2011 -0700

XQuartz: Bump bundle version to 2.7.0

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4944de24849a109ce65f1b353bc12e44e90a1211d
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 23:25:39 2011 -0700

rootless: Fix a typo in RootlessGlyphs which resulted in a garbage value

Found by clang static analyzer

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2098cb03c6b64bfc7694fc2b5213eb77bc12e4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 23:27:16 2011 -0700

rootless: Dead code removal

Found by clang static analyzer

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit bb4d145bd25e2aee988b100ecf1105ea3b6a40b8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 21:24:27 2011 -0700
glx: Silence warnings when building with clang

This replaces AX_TLS (GPL3) with XORG_TLS (MIT)

In file included from glapi.c:46:
In file included from ./glapi.h:51:
./glthread.h:237:20: error: unknown attribute 'tls_model' ignored [-Werror,-Wunknown-attributes]
  __attribute__((tls_model("initial-exec")));
^
In file included from glapi.c:46:
./glapi.h:92:20: error: unknown attribute 'tls_model' ignored [-Werror,-Wunknown-attributes]
  __attribute__((tls_model("initial-exec")));
^
glapi.c:82:20: error: unknown attribute 'tls_model' ignored [-Werror,-Wunknown-attributes]
  __attribute__((tls_model("initial-exec"))) = NULL;
^
glapi.c:85:20: error: unknown attribute 'tls_model' ignored [-Werror,-Wunknown-attributes]
  __attribute__((tls_model("initial-exec")))
^
4 errors generated.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 5e9eafc8e5f8575c06591d244c2cb5ea07691cb4
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 20:55:53 2011 -0700

render: Silence warnings when building with clang

picture.c:351:37: error: implicit conversion from 'unsigned int' to 'CARD16' (aka 'unsigned short') changes value from 4294967295 to 65535
  [-Werror,-Wconstant-conversion]
  pFormats[f].direct.alphaMask = Mask(PICT_FORMAT_A(format));
  ^~~~~~~~~~~~~~~~~~~~~~~~~~~
...
fatal error: too many errors emitted, stopping now [-ferror-limit=]

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Suggested-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit c524f8b768f886d413839bc22184098394c2559
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 20:49:27 2011 -0700
os: Silence warnings when building with clang

access.c:1492:20: error: equality comparison with extraneous parentheses [-Werror,-Wparentheses]
if ((host->family == FamilyServerInterpreted)) {
    ~~~~~~~~~~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~
access.c:1492:20: note: use '=' to turn this equality comparison into an assignment
if ((host->family == FamilyServerInterpreted)) {
    ^

access.c:1492:20: note: remove extraneous parentheses around the comparison to silence this warning
if ((host->family == FamilyServerInterpreted)) {
    ~ ^ ~

In file included from xtrans.c:8:
In file included from /usr/X11/include/X11/Xtrans/transport.c:62:
/usr/X11/include/X11/Xtrans/Xtranssock.c:262:5: error: implicit declaration of function 'ErrorF' is invalid in C99 [-Werror,-Wimplicit-function-declaration]
PRMSG (3,"SocketSelectFamily(%s)a", family, 0, 0);
^

In file included from /usr/X11/include/X11/Xtrans/transport.c:62:
/xusr/X11/include/X11/Xtrans/Xtranssock.c:262:5: error: implicit declaration of function 'ErrorF' is invalid in C99 [-Werror,-Wimplicit-function-declaration]
PRMSG (3,"SocketSelectFamily(%s)a", family, 0, 0);
^

log.c:180:29: error: format string is not a string literal [-Werror,-Wformat-nonliteral]
if (asprintf(&logFileName, fname, display) == -1)
    ^~~~~
log.c:190:26: error: format string is not a string literal [-Werror,-Wformat-nonliteral]
if ((asprintf(&suffix, backup, display) == -1) ||
    ~~~~
log.c:382:25: error: format string is not a string literal [-Werror,-Wformat-nonliteral]
LogVWrite(verb, tmpBuf, args);
    ^~~~~~

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit ab81aa91404ca0fa6843ce8021cbd9de42255a8f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Apr 23 20:39:25 2011 -0700

Xext: Silence warnings when building with clang

xvmain.c:1113:22: warning: equality comparison with extraneous parentheses [-Wparentheses]
if ((pf->depth == pDraw->depth)
  ~~~~~~~~~~~~~~~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~
xvmain.c:1113:22: note: use '=' to turn this equality comparison into an assignment
if ((pf->depth == pDraw->depth)
  ^

xvmain.c:1113:22: note: remove extraneous parentheses around the comparison to silence this warning
if ((pf->depth == pDraw->depth)
    ^ ~ ~
1 warning generated.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit fd086f87cd1bab53c9e918cb687009e7ac8718d8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Apr 23 20:36:53 2011 -0700

fb: Silence warnings when building with clang

fbpict.c:163:8: warning: implicit conversion from enumeration type 'PictFormatShort' (aka 'enum _PictFormatShort') to different enumeration
    pict->format,
    ~~~~~~~~~~^~~~~
fbbltone.c:486:2: warning: shift result (281474959933440) requires 49 bits to represent, but 'int' only has 32 bits [-Wshift-overflow]
  C2_24( 0, 0), C2_24 ( 1, 0), C2_24 ( 2, 0), C2_24 ( 3, 0),
  ~~~~~~~~~~~~~
fbbltone.c:474:6: note: instantiated from:
    SelMask24(b,1,r))
    ^
fbbltone.c:429:46: note: instantiated from:
    ^
fbbltone.c:427:18: note: instantiated from:
    0xffffff << Mask24Check(x,r)) : 0)
    ~~~~~~~~~

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit aad7b324ae9c906f28ac9d10c64650b3445c2ae0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Apr 24 19:57:22 2011 -0700

os: Add missing _X_ATTRIBUTE_PRINTF to va_list variants

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5423da9fb2ec0dfeff866f12cf26fbb804ea673d
Author: Nicolas Kaiser <nikai@nikai.net>
Date: Sun Apr 24 12:44:15 2011 +0200

xkb: remove duplicated include
Remove duplicated include.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 79b3a7f83d7cbee397eecebef1af31c048d295e8
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:43:05 2011 +0200
test/xi2: remove duplicated include

Remove duplicated include.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit a17c30d43e0db6c65cc73cd2be5193c02f138bf5
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:42:07 2011 +0200
hw/xwin: remove duplicated includes

Remove duplicated includes.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronencode.org.uk>

commit c270cfc30c547e28017533f490904013f73cf6f0
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:41:11 2011 +0200
hw/xquartz: remove duplicated includes

Remove duplicated includes.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 50ced6cfa0aef472e713f7f6db003829df68df
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:40:11 2011 +0200
hw/xnest: remove duplicated include

Remove duplicated include.
Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 387f45a7077faadf232edc3f608c4a081a7fd290
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:39:11 2011 +0200

hw/xfree86/modes: remove duplicated include

Remove duplicated include.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 78a9ec125dc81546ca7e7e18aedf2b323eebb1fc
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:38:08 2011 +0200

hw/xfree86/fbdevhw: remove duplicated include

Remove duplicated include.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 0320db25f917980621107b790c4fc5171cb0b6ac
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:36:48 2011 +0200

hw/xfree86/dri: remove duplicated includes

Remove duplicated includes.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit b56271b954d6ab8e9eb320f314925b77403458b9c
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:35:45 2011 +0200

hw/xfree86/ddc: remove duplicated include

Remove duplicated include.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 86c0c8b9c567f57fe7477d5302fa22dc7557ce90
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:34:46 2011 +0200

Remove duplicated includes.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit 9b5046d2130ead79956019faf7103b5c676fd02
Author: Nicolas Kaiser <nikai@nikai.net>
Date:   Sun Apr 24 12:33:32 2011 +0200

Xi: remove duplicated includes

Remove duplicated includes.

Signed-off-by: Nicolas Kaiser <nikai@nikai.net>
Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>

commit c6cb70be1ed7cf73bd3411b8d66ec05a9efcfeb9
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Mon Mar 28 13:30:52 2011 -0400

Fix trapezoid and triangle rendering to windows

For fbAdd{Traps,Triangles}() and fbRasterizeTrapezoid() this is just a matter of adding the image offsets to the trap offsets.

For fbShapes, the story is more complicated:

The recently added pixman API did not allow offsetting trapezoids. Instead, it would use x_dst and y_dst in such a way that the effect was to only offset the source image.

In pixman 0.21.8, this API has changed such that all the traps are conceptually rendered to an infinitely big image, and the source and destination coordinates are then aligned with (0, 0) of that image. This means offsetting dst_x and dst_y will now offset the entire drawing, which is similar to how other composite functions work.

This patch then changes fbComposite{Trapezoid,Triangles} such that the source image is aligned with the shapes, and the destination coordinates offset according to drawable->{x, y}.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit 1b96a99d8edd9016bc4a35348f9d5ddb45832f14
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:    Thu Mar 10 08:52:41 2011 -0500

fb: Call miCompositeSourceValidate() on the source in fbShapes()

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit 04635069554859ec67003b89f56965421cba7f52
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Mar 29 00:11:00 2011 -0400

render: Remove unused TriStrip and TriFan typedefs

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit 2b0cabc620f3a2a5e431052441b092ef979bf94
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Mar 29 00:07:44 2011 -0400

render: Remove unused fields in the source picture structs

The fields class, stopRange, colorTable and colorTableSize are not used by any current code.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit b0d84f94393edab395d65d2b2cb983fc9fec3d36
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Mon Mar 28 20:59:34 2011 -0400

render: Delete PictureGradientColor()

PictureGradientColor(), INTERPOLATE_PIXEL_256() and premultiply() are not used by anything.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit 61a92a78cd49969f74a046fa26c3199e06365814
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Mar 29 13:06:36 2011 -0400
Add RegionInitBoxes(), and fix some buggy callers of RegionInit().

The interface to RegionInit():

RegionInit (RegionPtr pReg, BoxPtr rect, int size);

is very confusing because it doesn't take a list of boxes, it takes *one* box, but if that box is NULL, it initializes an empty region with 'size' rectangles preallocated.

Most callers of this function were correctly passing either NULL or just one box, but there were three confused cases, where the code seems to expect a region to be created from a list of boxes.

This patch adds a new function RegionInitBoxes() and fixes those instances to call that instead.

And yes, the pixman function to initialize a region from a list of boxes is called init_rects() because pixman is also awesome.

V2: Make RegionInitBoxes() return a Bool indicating whether the call succeeded, and fix the callers to check this return value.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Søren Sandmann <ssp@redhat.com>
commit c7bce22b58530239e583d91ae56312bad1630da4
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Mon Mar 28 11:38:11 2011 -0400

Track damage for fbTrapezoids() and fbTriangles().

These calls no longer go through the CompositePicture() hook, so damage was no longer generated for them. This patch simply damages the entire destination clip region.

It would be possible to generate tighter damage for certain operators such as Over and Add, where blank source pixels have no effect on the destination, but given that virtually all trapezoid rendering takes place on pixmaps, it's unlikely that anybody would actually benefit from this optimization, and the miTrapezoidBounds function did sometimes show up on profiles, probably because it does several divisions per trapezoid.

V2: Call DamageRegionProcessPending() - pointed out by Michel Dänzer.
V3: Call DamageRegionProcessPending() *after* rendering - pointed out by Maarten Maathuis
Reviewed-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 918a9c99cf2ebc73acb34b95f597904b93c690d9
Merge: 88c4622b59 5f496bc919
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 22 11:20:16 2011 -0700

Merge remote-tracking branch 'jeremyhu/master'

commit 88c4622b594a1725d0cee86bc82ad640d241c520
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Apr 18 08:23:48 2011 -0700

linux: Retry VT ioctls while errno == EINTR

When the smart scheduler is enabled, the VT ioctls (particularly
VT_WAITACTIVE) can be interrupted by the smart scheduler's SIGALRM.
Previously, this caused the server to immediately continue on to
ScreenInit, almost certainly causing a crash or failure because the X
server that owned the VT hadn't finished cleaning up. As of commit
7e965a300c9eddcc1acacf9414cfe3e589222a8, it causes a FatalError
instead.

Retrying the ioctl as long as it fails with errno == EINTR fixes the
problem and allows server regenerations to trigger VT switches that
actually succeed.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 302bdc3c3e9678c028bed71dbe9c5ba04997626b6b
Merge: 001b6b8b70 6f97fe5df1
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 22 10:48:37 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 5f496bc91941140ceaa3061472fda95bd812f2d2
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 22 01:23:09 2011 -0700

XQuartz: Do translation and handoff of NSEvent to X11 in a separate serial queue

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 72bd232b117b2867282e0ae1855d779e126f912b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 22 00:39:12 2011 -0700

XQuartz: Send tablet proximity events with tilt and pressure

<rdar://problem/6257569>

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 034538ea9b4770025e3573bc708039cabbe1e10d
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 21 16:31:58 2011 -0700

XQuartz: Use dispatch_async to handoff the FD

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ca7b9e6e817681b9ec738e43cf020ac19b5e732
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 21 15:51:32 2011 -0700

configure.ac: Add check for libdispatch when building for darwin

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 3960115dbc83ec1eb8d9c8e90466af3fa0b32abd
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 21 15:19:12 2011 -0700

XQuartz: Fix prototypes for thread functions

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7524dbd06113ec081eaa882aa54e03553c96aa
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 21 15:11:52 2011 -0700

XQuartz: Make the DarwinProcessFDAdditionQueue_thread wait 3 seconds to allow xinitrc to catch up

Previously, we weren't always waiting the full three seconds. This should be better, but is still sub-optimal. We really want to start processing these once a WM has been started.

http://xquartz.macosforge.org/trac/ticket/416

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
dix: improve control flow in QueryTrackers

If the velocity is 0, skip the remainder.
If we're not in range, skip the remainder.

No functional change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a0eda8cd36ffba2ecc79e0d7a1908c89b45e76c4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 21 14:45:09 2011 +1000

dix: rename a bunch of variables to be more self-explanatory

i  used_offset
iveloc  initial_velocity
res  result
vdiff  velocity_diff
vfac  velocity_factor
tmp  tracker_velocity

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit e4901905903c5630a1092c69e42f313abd05187b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 20 15:41:45 2011 +1000

dix: reduce scope of tmp and mult.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 81c6e79f42cc263349e04c0d82b3a85d6b557885
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 20 15:39:27 2011 +1000

dix: reduce the work done by ApplySoftening
We can modify fdx/fdy in-place rather than requiring dx/dy as well. And the decision to soften can be made in the caller (unless decided by the velocity state).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 5870d507cee8547c0993791195fe04d96b271289
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 15:32:33 2011 +1000

dix: split softening and constant deceleration into two functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 8ae90552f95f025ad09a17258d56603a424ca076
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 15:30:19 2011 +1000

dix: use single return statement in ApplySimpleSoftening

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit c45f4cc6bd885855ecb54d9113010906d9ee58e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 15:28:32 2011 +1000

dix: rename od, d to prev_delta, delta

And res to result.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 5ffe06bada85e98d46a071dad578d72f5b96cb51
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 15:26:11 2011 +1000
dix: Don't use short as bool

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 97c1967689d7990be86ee490690ac5a91935c875
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 15:02:46 2011 +1000

dix: rename "res" to "result" for improved readability

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 1c162ebcaba78930f34639145a8ac01b87f8e6fd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 14:56:44 2011 +1000

dix: change ProcessVelocityData2D to BOOL.

Don't confuse users with a return type of short, that's even less indicative
that it returns 0/non-0 than "int".

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 70b76286dbef99daabafccd23f3ba436fe07b09
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 16:28:21 2011 +1000

dix: add some more documentation to ptraccel code

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 6b3a4cc6af240c12d05e27250b61e954eafe9f29
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 14:44:51 2011 +1000

dix: don't pass the index for a tracker around, pass the tracker
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 9e8645cacf5f1c398d7a6e837a36c66cf6c0c9e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 14:23:29 2011 +1000
dix: CalcTracker only uses the tracker, thus only pass the tracker.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 62f4bef8d1252515689420f8aad198e2f29c4f1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 21 13:58:55 2011 +1000
dix: use single return statement in DoGetDirection

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 5f8edbe47e3915f71a20f063a9e8b49591239600
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 13:12:53 2011 +1000
dix: use single return value in GetDirection

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit af6a17812513232785c8c629294190629197df8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 13:12:35 2011 +1000
dix: document GetDirection

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
This is the best explanation I can come up with, but it seems to hold true for my example values.

The two directions returned by this calculation are always the two boundary conditions. Since we don't do quadrants but octants, the flagged ones are 45° each. e.g. an angle of 35° flags E and NE.

Use enums for the direction bits, not hardcoded bitfield values that are added up.
dix: only use a single return where only one is needed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 8c528c667da7c7fba0ba07973a06b2d4613fbf70
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 20 13:14:11 2011 +1000

dix: fix typo in direction calculation

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 47f8cba6f3ae24e5dcde4e348bd4af00d25a91c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 11 14:50:16 2011 +1000

xfree86: removed unused “event” variable in xfl86PostMotionEventM

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c6212a3e5dc43bd3b5263b392eb75ec96cdf4e4f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 15 14:13:51 2011 +1000

dix: silence compiler warning

resource.c: In function ‘AddResource’:
resource.c:493:3: warning: format ‘%lx’ expects type ‘long unsigned int’,
but argument 3 has type ‘RESTYPE’

RESTYPE is uint32_t, not long.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 196d679bed2e9959d2fca89d4ee4bcc551681d0b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 15 14:51:06 2011 +1000

test: remove glib dependency
The few features from the glib test suite we used can be replaced with assert and printf. This patch is a simple replacement for these two

```c
  g_assert  assert
  g_test_message  printf
```

g_test_init is removed and so is g_test_bug_base. g_test_run replaced with a simple return 0.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Gaetan Nadon <memsize@videotron.ca>

```c
commit 071a6ac4d0c347aa7fc6efe37f4f6992524d7ef1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 11 15:22:52 2011 +1000

  input: remove GetKeyboardValuatorEvents, this is now unnecessary.

GetKeyboardValuatorEvents handles NULL valuator masks already, so the GetKeyboardEvents wrapper is not needed. Rename GKVE to GKE.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
```

```c
commit 91a735328c59db006f0ed52b49e9c59895796c0c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 10:45:55 2011 +1000

test: add some XIPassiveGrab protocol testing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>
```

```c
commit 60b08e013dd1e971f82e5bc8708d3f120c217497
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 10:44:48 2011 +1000

  Xi: don't swap the status byte in the XIPassiveGrab replies

Reported-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
```

```c
commit a3f37f3698880aece508b5ecf888daf39360610aa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 10:07:19 2011 +1000
```
Xi: exit with error value if CheckGrabValues failed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f4d9ff73b161d84d3fcacc5834fa714c113c7a10
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 09:54:12 2011 +1000

Xi: fix reply swapping function check for XIPassiveGrabDevice

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 2a49ffa3e94819e9f28dd939f23ee8a675258172
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 9 09:53:47 2011 +1000

Xi: return the bad device ID if a passive grab fails with BadDevice.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 315aa8444b13f827237674535eb2ad55a2066808
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 23 10:32:35 2011 +1000

configure: actually require macros 1.13

Introduced in 6a5bf15fa99cf5b2358b3b3e2f29e5044aa8724a

Reported-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit f0f0eec869d932a2d9228ff3e41e9e7cda155e68
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 11 11:24:29 2011 +1000

Xi: silence valgrind warning. (#36120)

Conditional jump or move depends on uninitialised value(s)
  at 0x4357A1: GetEventMask (events.c:454)
Uninitialised value was created by a stack allocation

by 0x4E8190: XISendDeviceHierarchyEvent (xichangehierarchy.c:61)

Conditional jump or move depends on uninitialised value(s)

by 0x4E8190: XISendDeviceHierarchyEvent (xichangehierarchy.c:61)

Set the type of dummyDev to SLAVE. The jump listed above comes from a check
to IsMaster() in GetEventMask() that would then set the
XIAllMasterDevices mask.
Hierarchy events can only be set for XIAllDevices so the above IsMaster()
check had no effect and the device type doesn't really matter anyway beyond
shutting up valgrind.

Also initialize dummyDev to 0 to ease future debugging.

X.Org Bug 36120 <http://bugs.freedesktop.org/show_bug.cgi?id=36120>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 419a27b5219a739f2fbd50cc96a1b54c469e4a88
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 12 10:17:07 2011 +1000

Xi: fix valuator alignment in DeepCopyDeviceClasses (#36119)

commit 678f5396c91b3d0c7572ed579b0a4fb62b2b4655 only fixed the
initialization, not the copy. After a slave device change, the valuator were out of alignment again.

X.Org Bug 36119 <http://bugs.freedesktop.org/show_bug.cgi?id=36119>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7762de65e153790ee9f63903964d168a6680d815
Author: Alexandr Shadchin <alexandr.shadchin@gmail.com>
Date: Sat Apr 9 17:45:10 2011 +0600

Simplify auto-detect mouse for WSCONS_SUPPORT

Reviewed-by: Matthieu Herrbb <matthieu.herrbb@laas.fr>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 001b6b8b70734db1fa2f68e45c1db8337ba9f662
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 15 13:01:37 2011 -0400

glx: Make --disable-dri not disable AIGLX

Either the DRI1 or DRI2 loaders are sufficient.

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f8540b9dccb1fba886be5c4ce7a0d74952cb48c4
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 15 12:57:05 2011 -0400

glx: Use 0 rather than garbage for unknown INTEL_swap_event types

Otherwise the garbage you return could well be numerically identical to one of the swap type tokens, and apps which rely on us to tell the truth would be in trouble.

Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dc0cf7596782087bdda0e7f9cd2f60907c45b2c4
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 29 10:09:46 2011 -0400

Revert "composite: Don't backfill non-bg-None windows"
This reverts commit 6dd775f57d2f94f0ddaee324aeec33b9b66ed5bc.

Bugzilla: https://bugs.freedesktop.org/34427

Acked-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6a433b67ca15fd1ea58334e607f867554f227451
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 28 12:30:09 2011 -0400

glx: Fix lifetime tracking for pixmaps

GLX pixmaps take a reference on the underlying pixmap; X and GLX pixmap IDs can be destroyed in either order with no error. Only windows need to be tracked under both XIDs.

Fixes piglit/glx-pixmap-life.

Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b3d2164a0361f636bf77b51456bee9213af4f13
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Tue Apr 12 17:16:50 2011 +0300
dri2: Pass out_count by value to update_dri2_drawable_buffers()

update_dri2_drawable_buffers() doesn't modify out_count, so pass it by value.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>

commit 93c833ee84a3465ec5d251e622ba26434cb532f8
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Tue Apr 12 17:13:28 2011 +0300
dri2: Handle calloc() failure

Don't access invalid memory if calloc() fails to allocate the buffers array.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Send events that were missing from RRSelectInput

The RANDR spec (randrproto.txt) specifies that RRSelectInput will send out events corresponding to the event mask, if there have been changes to CRTCs or outputs. Only screen events were being generated, however.

Fixes http://bugs.freedesktop.org/21760

Signed-off-by: Federico Mena Quintero <federico@novell.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e409fb32b97033718f270a273f29f24c0b562b84
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Tue Apr 12 12:55:56 2011 +0300

damage: use DamageReportDamage for the initial borderClip damage report

Instead of using DamageDamageRegion for reporting the first (virtual) damage in ProcDamageCreate that covers the borderClip of the drawable window, use a function DamageReportDamage directly (previously called damageReportDamage). This avoids sending all other damage listeners a full window update when a new damage object is created.

As this patch makes DamageReportDamage a public interface, the function has been moved into the part of the file that contains all the other public functions. The function has not been otherwise modified.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 274dca8f2c6707121d45df8015fe7eddb129dec9
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon Apr 4 22:31:42 2011 +0300

dix: don't free stranger pointers inside AllocARGBCursor

This seems a good convention to follow: if pointers are allocate outside a given function, then free there as well when a failure occurs.

AllocARGBCursor and its callers were mixing up the freeing of resources and causing a particular double free inside TileScreenSaver (srcbits and mskbits).
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Ander Conselvan de Oliveira <ander.conselvan-de-oliveira@nokia.com>

commit f603061e9482ad5caf1975ba5395b3294852d072
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Apr 4 21:40:06 2011 +0300

os: fix use after free in EstablishNewConnections

In the case of failure on AllocNewConnection, new_trans_conn cannot be
dereferenced because it's already freed. Swapping the order of this logic fix
the changes introduced in 04956b80431169e0ae713a3e6ba4cde157ce3a66.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
CC: Jeremy Huddleston <jeremyhu@freedesktop.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 82498e3c2c6e6c851063ecb4b6ae9303e828da00
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Apr 4 20:25:32 2011 +0300

xfree86: xv: set pointers to NULL in xf86XVFreeAdaptor

As a good practice and for eventual double frees.

The reason of this patch is due the resilience of xf86XVInitAdaptors, where
for any adaptor failure it's able to keep trying registering the following
ones.

I discussed briefly with Pauli and Ville about a bigger refactoring of such
function, doing it in a way to return instantly when a failure happens; after
all that's how mostly of the other driver functions work. Instead, we just
thought that xf86XVInitAdaptors is wise and cool, and eventually other driver
functions should be even following the main idea of resilience.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 81414c1c836ae30628606545edbf7392d9b3d009
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Thu Mar 31 23:44:03 2011 +0300

xfree86: xv: fix double free in xf86XVFreeAdaptor

When xf86XVFreeAdaptor is called more than once in xf86XVInitAdaptors (it may,
but not often), the conditional being changed in this patch will always take
true path and will keep freeing pAdaptor->pAttributes, thus letting the system
error-prone.

This patch fixes a problem by checking for a pointer instead of the number of attributes. Such a pointer will be deallocated when `xf86XVFreeAdaptor` is called first and will not let the code re-run in the following calls. This is a bit similar to how the surrounding code is already doing.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 74476b700f1e499a731ba2ddbba87b12b9b5139b
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Thu Mar 31 17:46:42 2011 +0300

`xfree86`: loader: use one exit code only for readability

No functional changes. Spaghetti code for the win! \o/

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit 7aad7dbf409eaa16a2c80d76ba2a42dc84501919
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 7 08:43:13 2011 +1000

`Xext`: use `EXT_MASK` macro instead of manual `& 0x7f`

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit b28a1af55c11ad2a882cc8cd73b77341dec7ff5a
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Wed Apr 6 14:51:45 2011 -0400

Fix unset valuator handling for XI 1.x valuator events again

Set the valuator values for unset masked absolute valuators in the internal device event. This ensures the values will always be correct in `getValuatorEvents` even if the device has been removed.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3085b178626c957854385c7a88a05ec3c7eb74f3
Merge: c9d89cec14 3c45b59e67
Author: Keith Packard <keithp@keithp.com>
Date: Wed Apr 6 08:34:10 2011 -0700
Merge remote-tracking branch 'jturney/master'

commit c9d89cec1407550cb2568f4ce1f46c93607bbae6
Merge: a52049de2f bc61787a20
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 4 11:57:39 2011 -0700

Merge remote-tracking branch 'vignatti/for-keith'

commit bc61787a20e7683cbc4dffa45fe855da98a8c0cd0
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 18:22:50 2011 +0300

render: fix memory leaks in ProcRenderCompositeGlyphs

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Soren Sandmann <ssp@redhat.com>

commit 45b6667b651a0a26b17f64e9e99d70784045e4bf
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 17:17:40 2011 +0300

xkb: fix fd leak in XkbDDXListComponent

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit 0b288c8738a97cf6aa3f36aa5c05e7ac2a5bcba8
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 16:54:14 2011 +0300

dix: fix memory leak in ProcListExtensions

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit 90e03ab026cd8ffddc6202e6b8bae119717ee8528
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 16:48:21 2011 +0300

mi: fix memory leak in miZeroLine

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
xi: fix memory leak in AddExtensionClient

Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit c1875ac25b7b3730d46dc98c4c151c35efd64a562
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Mar 28 20:09:04 2011 +0300

dix: fix memory leak in AllocShared

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit 6e5020f46165862ff09211d5425c8b6a13966303
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Mar 28 20:07:06 2011 +0300

dix: fix memory leak in AllocPseudo

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit a6c71ce5d2d2fe89e07a2ef041c915acc3dc686
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Mar 28 19:21:28 2011 +0300

os: fix memory and fd leaks in Popen

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit bafec9a25efa902bef2a3730dc44dc50f0e45877
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Mar 28 19:19:57 2011 +0300

os: use DebugF for debugging
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>

commit 719b37c33a89d6ad86c79097e5c67b9b3cea5aac
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 20:04:24 2011 +0300

xfree86: fix memory leak in xf86LoadModules

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit af054db005b48160b117dfd5bec5f821ee614ea9
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 19:51:23 2011 +0300

xfree86: fix bad free configInputDevices

introduced in 93ca526892c0d22afa05ccee6496198c652043a19.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ac2fac24d8baa56f369f4e54908bc00c2b73a60a
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Mar 29 19:49:32 2011 +0300

xfree86: fix memory leaks in configLayout

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc123319206930638ef121792282d58f64ada6d
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Mar 25 22:21:21 2011 +0200

xfree86: fix memory leak in xf86ConfigFbEntity

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
fb: fix memory leak in fbOverlayFinishScreenInit

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: fix memory leak in ProcXGetSelectedExtensionEvents

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: fix memory leak in SetDefaultFontPath

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

mi: fix memory leak in miFillUniqueSpanGroup

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

xi: fix memory leak in ProcXIQueryDevice

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
commit dce2f10cf7bf9929cefab5b885d566df42a865
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Mar 25 19:21:03 2011 +0200

mi: fix memory leak in miInitVisuals

Free the pointers inside miInitVisuals, so the callers of this function
(fboverlay.c and fbscreen.c) don't need to worry with deallocation in the case
of failure.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8ab92cd9822510f426d179a636ef34bb0ace3bb3
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Mar 25 18:56:02 2011 +0200

xfree86: dri2: fix memory leak and free resources properly

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit aa7096ca6f108e399d9916639cf20c57f9776305
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Mar 25 18:24:34 2011 +0200

xorg: remove unused pointer values all over the server

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 49051355d47849b3dd73631e3e2287e319a7f4e5
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Mar 23 18:08:29 2011 +0200

dix: remove unused macro

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f1a80e1268fa4d235a411a8cdff20b4f13eafde0
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
dix: remove unused debug code

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a52049de2f846fe984d4db5ac8d2c1826c7b2d0b
Merge: d044d36756 266ea63bc3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Apr 4 09:58:53 2011 +1000

Merge branch 'master' of git://people.freedesktop.org/~herrb/xserver into for-keith

commit d044d3675635f037bf0eb30e47f82460f78227d1
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Thu Mar 31 16:26:06 2011 +0300

xfree86: loader: fix memory leaks in LoaderListDirs

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Nicolas Peninguy <nico@lostgeeks.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9c4aae2141161e4bf69313a771db91c0acc4cc83
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date: Wed Mar 30 16:47:31 2011 +0300

xkb: Prevent leaking of XKB geometry information on copy.

Currently shapes, sections and doodads may leak on copy.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 29d63ba175ff1ef1587c390b18ce61c8f1c150f3
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date: Wed Mar 30 16:47:30 2011 +0300

xkb: Introduce helper function to handle similar reallocations.

This is preparation for a memory leak fix and doesn't contain any functional changes.
Note that two variables are generally used for reallocation and clearing of arrays: geom->sz_elems (reallocating) and geom->num_elems (clearing). The interface of XkbGeomRealloc is deliberately kept simple and it only accepts geom->sz_elems as argument, because that is needed to determine whether the array needs to be resized. When the array is cleared, we just assume that either geom->sz_elems and geom->num_elems are synchronized to be equal or that unused elements are cleared whenever geom->num_elems is set to be less than geom->sz_elems without reallocation.

Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f40103cee1d591387359f401a5a7c21f4105ae6
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Thu Mar 31 11:29:01 2011 -0400

Don't report old relative values in getValuatorEvents

Relative valuator values should not be reported in any future events. If a relative valuator value is not set in an internal event, set the value to 0 for XI 1.x valuator events sent over the wire.

Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8199eac44d2c22d313cb23e39d5e607a8cc7f99
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Mon Mar 28 16:04:48 2011 -0400

Handle non continuous valuator data in getValuatorEvents

This allows for masked valuators to be handled properly in XI 1.x events. Any unset valuators in the device event are set to the last known value when transmitted on the wire through XI 1.x valuator events.

Fixes https://bugs.launchpad.net/ubuntu/+source/xorg-server/+bug/736500

Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 266ea63bc3e052b753c5484fa08dce4f6b7c8952
Xi: fix querydevice request swapping

WriteReplyToClient() swaps rep.length, so it can't be used on return of WriteReplyToClient(). So save it's value for later use.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 552c78592c5e5f52fe16e2429f77c63ad5398247
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Fri Apr 1 22:54:54 2011 +0200

Xext: fix test on extension number for the swapped case.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a074e6b6754d6c2706b2b5de54e22c8ff5b1a17
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Fri Apr 1 22:53:40 2011 +0200

Xi: add XI_Focus{In,Out} to swapped events.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 81257377a2d0011ce47fba5822df0f7918dea1d72
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Fri Apr 1 22:51:48 2011 +0200

Xi: take XI2 requests into account also for the swapping case.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit f9834d312e3059073e8ad77d9f9d57cb9d96e1e5
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Mar 31 15:33:46 2011 +1000

fb: cleanup fbChangeWindowAttributes

This cleans up the duplication in fbChangeWindowAttributes, and fixes a bug if the fb24_32ReformatTile ever failed, since the old code would happily dereference it in the fbEvenTile
call a few lines later.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 36c7158133660520034d645b124c2c973d2971bb
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Mar 31 13:21:44 2011 +1000

fb: drop comments around 24-bit support.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ac2ae2ed378cc877444bec17b353dda83b620186
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Mar 29 14:24:52 2011 +1000

fb: add back fb defines for driver compat.

we could drop these really and just fix up the drivers, but since they'll build fine but fail to work this seems safer.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit be9cfb249da18d134c1d65bbb75161aff65f2942
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Mar 29 14:27:41 2011 +1000

fb: drop defines that aren't used/necessary anymore.

This was generated by:
cd fb

A follow up patch readds the FB_24_32BIT define for Intel UXA.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e0a2ad51dfb7373aa602335490d9666d6101b5ea
Merge: 327e1d8801 3d688316af
Author: Keith Packard <keithp@keithp.com>
Date: Wed Mar 30 10:51:27 2011 -0700

Merge remote-tracking branch 'ajax/xserver-next'
Commit ac00ab77d5a00cf1d198958aa1afaa4c3ccc6d7bc
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Mon Mar 28 16:04:47 2011 -0400

Clean up getValuatorEvents using array loop logic

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Commit 3d688316a0e4ff3c44acfc168bd9c76c892b629
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 15 11:03:26 2011 -0400

xfree86: warning fix

xf86RandR12.c: In function 'xf86RandR12EnterVT':
xf86RandR12.c:1769:5: warning: ISO C90 forbids mixed declarations and code

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit 2762eef8c34b48be803226f48fc71f790286f968
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 15 11:01:50 2011 -0400

xfree86: warning fix

Pointer.c: In function 'xf86parsePointerSection':
Pointer.c:192:5: warning: format '%u' expects type 'unsigned int', but argument 3 has type 'long unsigned int'

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit 5275fbe2e226e1c2a46d2688390c8ef6e1a6a52
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 15 10:58:36 2011 -0400

render: warning fixes

picture.c: In function 'CompositeTriStrip':
picture.c:1777:25: warning: unused variable 'ps'
picture.c: In function 'CompositeTriFan':
picture.c:1807:16: warning: unused variable 'pScreen'

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

dix: Small refactor to resource deletion

Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: minor cast cleanup

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: dead variable removal

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: Remove some obfuscatory macros

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

glx: Remove ->forceCurrent from the context vtable

All the implementations of makeCurrent and forceCurrent are identical, so just use makeCurrent everywhere.

Reviewed-by: Eric Anholt <eric@anholt.net>
glx: Reimplement context tags

This would let you do a constant-time context lookup, but if that's your performance problem you have two problems. Just use the context's XID as the tag value instead.

In order to do this, we have to defer destroying a context until it actually goes unreferenced, as you're allowed to mention a context tag after you've (ostensibly) destroyed the context, as long as it's still your current context. Thus, change DestroyContext to merely mark the context as dead if it's a current context, and call down to actual resource destruction (and XID reclamation) in StopUsingContext.

Also, stop trying to delete context state from DrawableGone. This was always broken, as GLX does not say that contexts are destroyed when their drawables are destroyed. But with the above change to defer context destruction, this would trigger a server crash on client exit as we'd free the context state twice.

Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 30d6947cee714385cf62a40ea6fa6d2e68388c78
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 7 14:53:28 2011 -0500

glx: Fix _glapi_add_dispatch

We never need to generate stubs, because those conditions can't happen in the server. Yank that code out, but keep the bookkeeping for which extension functions are registered so the DRI driver doesn't get confused.

As a pleasant bonus, we're now friendlier for environments like selinux that make runtime code generation difficult, and we're portable to more arches since we don't have to port the assembly stubs.

Fixes the following clutter conformance tests (indirect rendering, llvmpipe driver):

    test-cogl-backface-culling
    test-cogl-materials
test-cogl-readpixels
test-cogl-texture-mipmaps
test-cogl-texture-get-set-data
test-cogl-viewport
test-cogl-offscreen

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0cb44cecc7b9fb7d75285f7380f162cf6140a5bf3f
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Mar 3 10:42:41 2011 -0500

glx: Flatten -DXFree86Server

Always defined by the makefile, so, just get rid of it.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ed6c13c01e017f9f40c89247ab6652895fb1ea14
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 2 13:37:43 2011 -0500

glx: Update some glapi comments

Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 17d9e374721d6c8ee3f7f9cde882f80127bdb57f
Author: Adam Jackson <ajax@redhat.com>

glx: Lobotomize _glapi_get_proc_address

This isn't a meaningful thing in the indirect glx loader, so just warn
if it ever happens and move on.

But also, mark it PUBLIC, so if the driver does ever call it we merely
warn instead of aborting because ld.so can't find the symbol.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b0c665ac0f0e6840dda581e4d0d0b76c703d62a7b
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 2 12:30:22 2011 -0500
glx: Remove noop dispatch table

We can never hit this, because the indirect GLX dispatch code always forces a current context and checks that it's non-NULL before calling into the dispatch table. If it's _not_ null, then _glapi_set_context will call into the driver, which is responsible for calling _glapi_set_dispatch to make sure the dispatch table is non-NULL.

Also remove _glapi_set_warning_func and friends, since we can no longer call them even from dead code.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 327e1d88012102af6aca6c6840aa0ed3c7041a77
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Mar 28 17:18:39 2011 +0200


The latter calls the former, let's cut the middle man and eliminate a branch in a hot path.

According to Git history, ExaSetPixmapPriv was never used anywhere, just drop it.

Reviewed-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Keith Packard <keithp@keith.com>

commit a095a6d4e8f5090907e8d66018636216300846
Merge: a22486f848 ef9d04f8ad
Author: Keith Packard <keithp@keith.com>
Date:   Sun Mar 27 20:06:29 2011 -0700

Merge remote-tracking branch 'airedli/pwin-cleanup'

commit a22486f848014000dc13dda470f77d4d8ea9e9f6
Merge: 2ef4ff45ef 633b81e8ba
Author: Keith Packard <keithp@keith.com>
Date:   Sun Mar 27 18:27:10 2011 -0700

Merge remote-tracking branch 'whot/for-keith'

commit 2ef4ff45ef1f6c4967f8be3d550408769e5f6500
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Fri Mar 25 10:38:23 2011 +0200
os/client: Prevent rare fd leak in DetermineClientPid

DetermineClientPid didn't close file descriptor if read on /proc/pid/cmdline failed. Adjusted the code to disregard the close return value and perform the return after that, if the read failed or returned EOF.

Signed-off-by: Mark Kettenis <mark.kettenis@xs4all.nl>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ef9d04f8ad4239ac30984769c9c8c101bb8e78bf
Author: Dave Airlie <airlied@redhat.com>
Date:    Thu Mar 24 14:07:34 2011 +1000

dri: kill if 0 out code.

This refers to pWin->winSize in some #if 0 code remove it.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit eb9266c7176eb240a85e72beda9b603338294f1
Author: Dave Airlie <airlied@redhat.com>
Date:    Thu Mar 24 14:04:25 2011 +1000

consolidate SetRootClip (v2)

each DDX has its own copy, I've taken the darwin one, though I'm not sure why it needs the pOldClip piece that nobody else has and the commit msg is like an "Updates from magic land" type message.

This removes the main uses of pWin->winSize from the DDXen.

v2: drop old clip like ajax suggests.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3c45b59e675ba926ec95842ac3d49e2091e41eb8
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Mar 18 15:00:14 2011 +0000

Fix XWin compilation after commit 769531b9
commit 769531b9 "Add mode field to pointer movement hooks" changes the function signature of miPointerSetPosition() to include the movement mode which resulted in the pointer position

Update use of miPointerSetPosition() in winEnqueueMotion() appropriately

(See http://tinderbox.freedesktop.org/builds/2011-03-16-0008/logs/xserver/#build)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 633b81e87a09cc6a1ea8b43f323874fda2cf0bde
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Mar 9 20:48:22 2011 +0100

xserver: remove AbsoluteClassRec keeping the ABI

This removes the struct, but keeps InitAbsoluteClassDeviceStruct as a no-op and preserves related struct layout.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2103d61909c7e6bd345622962df7784a19df72c5
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Mar 5 05:02:54 2011 +0100

simplify ChangeDeviceControl in stubs

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 118ef6f806f629a8e2ad61e4f2a43820b0fa621c
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Mar 5 05:01:22 2011 +0100

xf86: don't pretend to support DEVICE_ABS_* in ChangeDeviceControl

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de83df4b8bf1351263beaf2d531d033b6d0c4
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Mar 5 04:59:33 2011 +0100
kdrive: don't pretend to support DEVICE_ABS_* in ChangeDeviceControl

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9eaeb1bfe358a0c5f24645a29d6c377c0c4b37c
Author: Simon Thum <simon.thum@gmx.de>
Date: Sun Mar 20 16:28:22 2011 +0100

xquartz: simplify ChangeDeviceControl

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33e257ab43ebf35e8388b80c416762e9b743e9385
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 22 11:53:00 2011 +1000

test: when unit tests are enabled, build them during "make"

Catch compiler errors that were otherwise only spotted on make check.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 624332782f2d286d49f1dec8a628b0a403665fd
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Fri Mar 18 16:35:36 2011 +0200

config: handle device change event properly

wakeup_handler in udev.c wasn't dealing with udev change events.
There are situations when a device can gain its input capabilities
after it has been added to the system and therefore the change events
must be handled as well.

The change is handled as a consecutive device removal and addition.

Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Stefan Kost <Stefan.Kost@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fad10cb38ef2433c82f8a43d3b7d64e323728060
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 18 11:06:57 2011 +1000
xfree86: print out which driver is about to be used.

Makes reading the log file a lot easier for those that don't magically recognise the log spew by the individual drivers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit cb5d4b416a0fc850a1c119755a9cc3c4f0d7a545
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Mar 23 12:10:15 2011 -0700

  XQuartz: applewm: Don't check if requested window level is < 0 because it is unsigned (-Wtautological-compare)

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c116e32dc2799c4abcf38d22bc773b755387c89a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Mar 23 12:07:36 2011 -0700

  XQuartz: Put ifdef guards around have_depth label (-Wunused-label)

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1a583f7940e18a8ef28ca14e74e85e0785d39067
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Mar 23 12:05:05 2011 -0700

  XQuartz: Properly comment extra tokens (-Wextra-tokens) after endif

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c55baebf4ebf1887262cc16899eb297b9f284f6e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Mar 22 19:01:48 2011 -0700

  GLX: Support TLS with better portability

  AX_TLS detects when toolchains support __thread or __declspec(thread), but existing code assumed __thread.

  This also adds a check to configure.ac to error out if TLS is requested but unsupported.

  Found-by: Tinderbox
Merge remote-tracking branch 'airlied/xinerama-cleanup'

Add generalized unit test support using util-macros.

A handful of modules have begun adding unit test programs. These macros will help providing a consistent interface which will help package builders and developers to manage the functionality.

XORG_ENABLE_UNIT_TESTS will turn on/off unit testing, regardless of how it is implemented. The default (yes/no) can be specified by each module. It can be used by itself if glib or -wrap support is not needed.

XORG_WITH_GLIB will probe the system for glib-2.0. A different version can be specified in each module. It will consult XORG_ENABLE_UNIT_TESTS but can be used by itself in contexts other then unit testing. The default (yes/no) can be specified by each module.

XORG_LD_WRAP will probe the linker for -wrap support. It will consult XORG_ENABLE_UNIT_TESTS but can be used by itself in contexts other then unit testing.

configure options:
--enable-unit-tests Enable building unit test cases (default: auto)
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ee583cb33423fa79beb22db20b30e10a677f9b5a
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Thu Mar 17 19:26:35 2011 -0400

config: group document related XORG_ macros together

No functional changes.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d5b16b037b8fe12ba85e68e8289b6a8cc5e3a09d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 17 23:48:52 2011 -0700

Revert "dix: Remove usage_hint from pixmaps, store it in ->drawable.class"

This reverts commit 1564c82417d201de5b9a5ec5e7aa4ef14c45fbad.

The drivers used the top bits of the usage_hint to store driver private flags (intel, radeon, nouveau).

With EXA we need to get at this data so if we migrate the pixmap we can create the correct type of pixmap in the driver, however this commit truncates the usage_hint into 8-bit class and loses all the good stuff.

Signed-off-by: Dave Airlie <airlied@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit de9ce695a69ca0787f58f8d160212a7a41acb703
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date:   Wed Mar 9 15:45:40 2011 +0200

xkb: Initialize pad bytes sent in replies of geometry requests.

Valgrind complains about uninitialized data being written to clients.

Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
xkb: Document XkbWriteCountedString.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5c47f8beac7f87680c6f7331483b9cf941d8c86
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date: Fri Mar 11 14:30:49 2011 +0200

xkb: Release XKB component names when compiling keymap.

Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f46ae3c69c48f389560af1491ed1729ba45866f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 15 13:20:03 2011 +1000

man: list the drivers that are ignored when hotplugging (#35209)

X.Org Bug 35209 <http://bugs.freedesktop.org/show_bug.cgi?id=35209>

Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 642569591a73806d038f00f2f9a5e8738f764c0b
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Sat Mar 12 07:29:35 2011 -0500

dmx/doc: remove dead code in the makefile

This was leftover from some older ways of building dmx/scale docbook.

Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-off-by: Keith Packard <keithp@keithp.com>

commit 21f70cad19474af6f3ba419e03c0df12881ed1092
man: relocate manual pages in the man subdir outside doc

The convention is to have the manual pages in a man subdir which is not under a doc dir. The doc dir contains users docs. This will move man pages out of the way for upcoming DocBook patches.

Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86/modes: Fixed memory leak in xf86InitialConfiguration

There were two memory leaks in the function: one was the lack of free for "enabled", the other was the full lack of releasing anything when configuration was too small. The first issue was fixed by adding the missing free, the other was addressed by replacing the duplicate memory releasing sequences with one that is gotoed into.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

When XDMCP -from is specified, only register the requested address

When XDMCP -from is specified, only register the requested address, rather than the requested address, and any others we have of different address families to the requested address.

e.g. if we have 4 interfaces with both IPv4 and IPv6 addresses (which are not IPv6 mapped IPv4 addresses), using -from with one of those IPv4 addresses currently means only that IPv4 address, and all IPv6 addresses are used in the connection data in XDMCP REQUEST packet.


Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Merge remote-tracking branch 'ajax/xserver-next'

Removing TriStrip and TriFan from the picture screen

These functions no longer go through the screen vtable, so remove them and fix up the various wrappers.

Absorbing miTriStrip() into CompositeTriStrip()

There is no need to virtualize this function that nobody cares about.

Absorbing miTriFan() into CompositeTriFan()

There is no need to virtualize this function that nobody cares about.
mi/misprite: use memory management provided by dixRegisterPrivateKey

The record allocated by miSpriteDeviceCursorInitialize was not being released.

This patch makes misprite use dixRegisterPrivateKey with the record size argument, which handles the memory management issues. miSpriteDeviceCursorInitialize is restructured to initialize pCursorInfo only if miDCDeviceInitialize succeeds. The record itself is zeroed on cleanup to ensure that the assumptions in the code still hold.

Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 57b35adaed112520c3b3b2fbad13cf5a91cd6652
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Wed Mar 9 13:57:25 2011 -0500

Remove geometry arguments from miSourceValidate()

The only user of the geometry coordinates is the software sprite code, which uses them to remove the pointer whenever the window beneath is being used as a source. However, using Window pictures as a source is
extremely rare (let alone *partial* windows), so there is no harm done in just validating all of the drawable.

Additionally, the miSourceValidate() function was buggy in at least three respects:

(a) It added drawable->{x,y} before calling down, which is wrong since the misprite code already adds them in its check. (Alternatively, the misprite code is wrong, but there are actual users who would notice if that code was broken).

(b) It didn't account for the width of the interpolation filter, so if the Picture had a bilinear or convolution filter, the edges surrounding the source area would not be validated.

(c) It didn't validate alpha maps.

Finally, computing the bounding box of the transform on every composite request was a real performance issue in pixman, so presumably it could be one here as well.

This patch changes miSourceValidate() to simply validate all of the underlying drawable.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Soren Sandmann <ssp@redhat.com>

commit 016dc17512ba966d60edede8cf947996bae0b3c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 17:12:26 2011 -0500

dix: Define RESTYPE as uint32_t

long is needlessly long on LP64.

Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1f2bc777f96fd41feb55a4799ece939652130ef4
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 13:11:12 2011 -0500

dix: Shrink PropertyRec on LP64

size needn't be a long. No change on ILP32 but, combined with the previous change, 56 -> 40 bytes on LP64.
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 51f353d0a0d116af16d7d9590cade0fc56328746
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 13:10:20 2011 -0500

dix: Fix ATOM typedef

unsigned long is needlessly large on LP64. Use uint32_t instead.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7ca75abbdd2a1211e52a4f43ac4ed24d3c8ab34
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Wed Mar 9 11:17:28 2011 +1100

glx: Use PATH_MAX as size of filename buffer

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit d17a9fb8414becf6a8998041df6f209f92222b2b
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Wed Mar 9 11:17:27 2011 +1100

Consolidate all the PATH_MAX handling into misc.h

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 021393d1b8bbcc9ff2ffdeb2306360e6b0afa1c6
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Wed Mar 9 11:15:07 2011 +1100

glx: Factor out glxProbeDriver function.

DRI, DRI2 and swrast all had near-identical driver probing logic.
Pull it into glxdricommon.

[ajax: warning fix]
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>

commit 56c90e29f04727c903bd0f084d23bf44eb1a0a11
Author: Adam Jackson <ajax@redhat.com>
randr: Add RRConstrainCursorHarder

Confine cursor motion to within the bounds of a single CRTC, iff all the
CRTCs within a ScreenRec are reachable from each other. If not you get
the same "cursor floats within the bounding rect" behaviour you get now.

v3:
- Incorporate review feedback from Christopher James Halse Rogers
v4:
- Add mode field.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

mi: Call pScreen->ConstrainCursorHarder from the position update path

v2: Cover more paths, spotted by Daniel Stone.
v3: pass down the mode field for movement mode.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Add mode field to pointer movement hooks.

Preparation work for pointer barriers.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

test: add some tests for basic list manipulation.

This has less purpose as a test but more as documentation on how to actually
use the different list calls.
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1ad9f01c31742157934a791e6141d10520d13e8a
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 10 10:47:40 2011 -0500

    glx: Add texbuffer2 support to swrast

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 5fb329a04a18835ce864d0563f6defeb3d3c78d69
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Mar 9 15:05:26 2011 +1000

    panoramiX: convert 1->panoramiXNumScreens loops to use macro (v2)

This converts all the remaining 1->num loops to the macro,
this removes nearly all the panoramiXNumScreens usage in
loops, and is a step to replacing it.

v2: move some from the other patch.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 0bccfcec97b2300b83aa4693454c27ac87f23f221
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Mar 9 15:01:20 2011 +1000

    panoramiX: convert 0->panoramiXNumScreens loops to macro (v3)

This just uses the FOR_NSCREENS macro instead.

v2: remove some of the 1->x loops.
v3: drop the 1->0 loop, will rework later.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 5a94934487ea477947e24dcd4720b7cede77d3d2f
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Mar 9 14:53:26 2011 +1000
panoramiX: consolidate common id assignment code.

This adds a new FOR_NSCREENS_FORWARD_SKIP, which skips the first element and is a common idiom throughout panoramiX code.

It then adds a new inline function to hide id assignment to a panoramiX resource and cleans up lots of common repeated code.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit e2f8315daefc6e56ac8395a9f58f8b0809039
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Mar 10 09:13:50 2011 +1000

drop exa

don't provide accel in this framework

commit c48e530e541e201ea1afe2512d85967659eeef84
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Mar 9 15:11:42 2011 +1000

panoramiX: macro checking if drawable is root (v2)

this code appears in quite a few places, consolidate it into a macro in a header.

v2: align braces with macro just above it, and with lines removed

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c30e2fdd326214e271ce144e8fc2725cbd738ef
Merge: a19771e433 735555555a4
Author: Keith Packard <keithp@keithp.com>
Date: Wed Mar 9 14:25:54 2011 -0800

Merge remote branch 'whot/for-keith'

commit 735555555a440855f9ae64c3367c5c7dca98c8741
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 8 15:33:13 2011 -0500

record: warning fix
record.c:810:9: warning: unused variable 'count'

Scope-shadowed by a later variable of the same name, safe to just delete.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4d114cc5467a514fa437ce7f4c5e772e2f6a21d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 8 15:33:12 2011 -0500

input: warning fixes

eventconvert.c:287:9: warning: enumeration value 'ET_Enter' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_Leave' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusIn' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusOut' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusIn' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusOut' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DeviceChanged' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusIn' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusOut' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DeviceChanged' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusIn' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_FocusOut' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DeviceChanged' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DeviceChanged' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DGAEvent' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_DGAEvent' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumeration value 'ET_RawKeyPress' not handled in switch
eventconvert.c:287:9: warning: enumera

From the code it appears these are can't happens, so if they ever do, BadImplementation seems entirely appropriate.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7b5e562ea74039832116ee13db910f290f074782
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 8 15:33:11 2011 -0500

input: warning fix

getevents.c:770:5: warning: suggest parentheses around '&&' within '||'

Introduced with dc57f89959e549403f8488eb9f23425bd7118b22:

-   if(dev->u.master && dev->valuator) {

+ if(dev->valuator && IsMaster(dev) || !IsFloating(dev)) {

So I'm assuming the two terms around the || are meant to be a unit.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33fee13361e745e1db29e250b08622c83046d488
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 8 14:41:21 2011 +1000

Xi: fix X12 passive grab reply length calculation

If modifiers failed, the reply length was 4 bytes too short.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit eb8141b6edd8b477c0ba796be71e985c35520a9b
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Mar 7 18:55:19 2011 +0100

Xi: fix length checks for swapped clients

ChangeDeviceProperty and XIChangeProperty are followed by some data, so use REQUEST_AT_LEAST_SIZE instead of REQUEST_SIZE_MATCH.

X.Org bug#35082 <https://bugs.freedesktop.org/show_bug.cgi?id=35082>
Reported-by: Markus Fleschutz <markus.fleschutz@x-software.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4114533db6704324fc26f28a444415e325ace8e0
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date:   Fri Mar 4 17:55:33 2011 +0200

config: Ensure that stolen option list elements are released.

NewInputDeviceRequest steals the contents of option list elements but doesn't use the elements themselves for anything. Therefore the list elements need to be released always.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8d30aff4aa708b9b885d492602ced7493a96a4df
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date:   Fri Mar 4 17:55:32 2011 +0200

dix: Release input device config info when the device disconnects.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 40e56d34538f4663426db50893c231a2b5d760dc
Author: Rami Ylimäki <rami.ylimaki@vincit.fi>
Date:   Fri Mar 4 17:55:31 2011 +0200

xbk: Ensure that XKB device private won't leak on device disconnect.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 18413f55089623123537c1499b02aa95ca2014d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 3 14:15:55 2011 +1000

xfree86: block signals between EnableDevice and first CheckMotion()

Devices usually enable SIGIO processing in EnableDevice. CheckMotion
initialises the pointer sprite, sends Enter/Leave events, etc. This leaves
us with a small window where events may be processed without the sprite or
pointer position (as seen from the protocol) is valid.
Block signals during this window.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a19771e4337d1c4600550314bbc42a1495a023ff
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date:   Tue Mar 8 13:29:41 2011 -0500

xfree86/common: Remove a configScreen leak when conf_screen is NULL
configScreen used a dynamically allocated buffer for XF86ConfScreenRec when conf_screen argument was NULL. This pointer was never stored anywhere, nor was it released, so this patch makes the function use automatically allocated storage in that situation.

[ajax: minor grammar fix]
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>

commit b73ebe65cd071a063417ac9c38513a6742e32428
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 2 12:12:35 2011 -0500

glx: Remove unused _glapi_get_proc_name

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4377288abdbaac8506d8643b440c300ba03182fe
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 2 11:52:27 2011 -0500

glx: Simplify _glapi_check_multithread

We can guarantee that the X server does not call DRI driver services from multiple threads, so _glapi_check_multithread need never do anything special. As a result, ThreadSafe is always false, so remove it and simplify expressions where it appeared to match.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d5e8bb2150ce9d8a4132d61f76621a2c7a7f0acf
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 2 11:26:05 2011 -0500

glx: unifdef BEOS_THREADS

We don't support BeOS, so, no.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3692ff0b35e774a6f6cbedf634d53c4df2e53a24
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Mar 2 11:22:45 2011 -0500
glx: undefine USE_XTHREADS

xthreads is an ancient wrapper around a half dozen or so common thread APIs, including pthreads. Just use pthreads directly if you have it; if you don't, get with the times.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2371b44f9eb9181ec2c081ce66bfee51d18b6e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 2 11:17:07 2011 -0500

glx: undefine SOLARIS_THREADS

Solaris 7 and older are not supported; Solaris 8 and later have (and use) pthreads.

Acked-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a5fdd1aa06c7c8ecefeafafc4a778fc816ad41a4
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Mar 2 10:20:02 2011 -0500

glx: Remove unused _glapi_get_proc_offset and friends

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2eb3dc020cbec1baa64848 dac532b3bb2d8d0635
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Feb 28 17:11:35 2011 -0500

xi: Use RESTYPE consistently

No functional change

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2413702aa0b488f1a4f8828a017d5b508c4f219f1
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Feb 28 16:54:17 2011 -0500

xvmc: Use RESTYPE consistently
Also mark these static since they're not used externally.

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cd58924d294de2abddbd2f03c2db021894fe9759
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 16:28:26 2011 -0500

xinerama: Use RESTYPE consistently

No functional change

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 9a6a9971b03381b7c44257284edecdfa0135957f
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 16:25:23 2011 -0500

xv: Use RESTYPE where appropriate

No functional change.

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fddfd026a0e4a8190dc01f0f38af4b2c29b63a3
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 28 13:01:15 2011 -0500

dix: Remove PIXEL typedef

Doesn't appear to be used anywhere.

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 82a8677d9175732a61df4116a396b76a7704efb4
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 20 22:49:32 2011 -0500

dix: Remove deprecated.c

No more internal users, this can be dropped now.

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 1564c82417d201de5b9a5ec5e7a4ef14c45fbd
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 20 18:37:45 2011 -0500

dix: Remove usage_hint from pixmaps, store it in ->drawable.class

The class field was unused for pixmaps, and we don't have enough classes
to justify a whole uint32 anyway.

Reviewed-by: Soren Sandmann <ssp@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d8ca782009abf4dc17b945e325e83fda299a534
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Feb 24 16:06:34 2011 -0500

vbe: Fix malloc size bug

v2: Slightly more obvious sizing math.

==14882== Invalid write of size 2
==14882== at 0x6750267: VBEGetVBEInfo (vbe.c:400)
==14882== by 0x6142064: ??? (in /usr/lib64/xorg/modules/drivers/vesa_drv.so)
==14882== by 0x471895: InitOutput (xf86Init.c:519)
==14882== by 0x422778: main (main.c:205)
==14882== Address 0x4f32fa8 is 72 bytes inside a block of size 73 alloc'd
==14882== at 0x4A0640D: malloc (vg_replace_malloc.c:236)
==14882== by 0x675024B: VBEGetVBEInfo (vbe.c:398)
==14882== by 0x6142064: ??? (in /usr/lib64/xorg/modules/drivers/vesa_drv.so)
==14882== by 0x471895: InitOutput (xf86Init.c:519)
==14882== by 0x422778: main (main.c:205)

Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 628d16a92a7fa556fb70bf4a4adf57ec05c190b
Author: Keith Packard <keithp@keithp.com>
Date: Sat Feb 26 10:31:50 2011 -0800

loader: Don't distribute sdksyms.c and make it depend on the config

sdksyms.c is constructed by processing header files with the C
preprocessor. Its contents will vary depending on the precise
configuration options, and so must depend on the config header
files.
We have one header file which is always changed when any config option is modified called do-not-use-config.h (which may want a different name at some point), so make sdsyms.c depend on that file.

Also, we don't want to ship this file; it always needs to be built. So, include it in the nodist_libloader_la_SOURCES list to prevent it from being added to the tarball.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 705f047876f78bbdfb368c3643925af1d1d17f71
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Mar 4 01:12:01 2011 +0100

configure.ac: bump version for 1.11 development

Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6c90e839d9872a37d371578c9c423e8213922044
Merge: 0bc95d5b06 edcceedbd3
Author: Keith Packard <keithp@keithp.com>
Date: Thu Mar 3 14:41:44 2011 -0800

Merge remote branch 'whot/for-keith'

commit 0bc95d5b06dcea65a1aa193ea907b50f7dd168b5
Merge: 3f41f4adea 69a9171dbb
Author: Keith Packard <keithp@keithp.com>
Date: Thu Mar 3 14:33:08 2011 -0800

Merge remote branch 'jeremyhu/master'

commit 3f41f4adea4bbb90d4bda4dab600595b655e3ed8
Merge: 8e4c3ce55b dae24abcd4
Author: Keith Packard <keithp@keithp.com>
Date: Thu Mar 3 14:12:36 2011 -0800

Merge remote branch 'sandmann/for-keithp'

commit 8e4c3ce55b0f186bc6ba4039e30629669b6087b7
Merge: f3d19c0cf3 296561506a
Author: Keith Packard <keithp@keithp.com>
Date: Thu Mar 3 13:42:07 2011 -0800

Merge remote branch 'rjy/clientids'
commit 1e008e7e7865b405b8033f625333cd64ece4499e
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Feb 23 02:29:35 2011 +0100


dix: change all timestamps in pointer acceleration to CARD32

CARD32 is being returned by getTimeInMilis(), so use it consistently.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a4b85261859b17dba9ad8f7f1ce650133f0235d4
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Feb 23 02:29:34 2011 +0100


dix: update pointer acceleration code to use ValuatorMask

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8128846e16b406c7d459ae7556f7cd09bdc24c91
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Feb 23 02:29:33 2011 +0100


dix: refactor predictable scheme initialization

This intends to clean up the predictable accel struct
from purely scheme-related things like input properties,
as they would be useless in other use cases such
as wheel acceleration.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 69a9171dbbaf6a7db702d48770d28fb54717545
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Mar 1 20:02:46 2011 -0800

XQuartz: pbproxy: Protect against possible collision between Cocoa and X11 Cursor types

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit dae24abcd44f3bb1966faa88222f851c784b37dc
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date: Mon Feb 28 11:10:38 2011 -0500

Delete RegionClipSpans()
Nothing uses it.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Søren Sandmann Pedersen <ssp@redhat.com>

commit edcceedbd35df576929685767d0b619659e5b020
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Feb 28 12:32:53 2011 -0500

tnext: Remove XCALIBRATE extension

Nobody can have been using this, it's never called from extension init.
XI2 device properties should now be a functional replacement.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c2207d11f243900bc2f641e08d80da63d84e97a8
Merge: 0079932de 579ee8f5d8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 28 11:26:09 2011 +1000

Merge branch 'next' into for-keith

Conflicts:
   dix/devices.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0343aed1f082ba4bfbd730c1c3582f1410b8741
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Feb 27 16:18:27 2011 -0800

XQuartz: Don't use deprecated CoreGraphics API on SL and Lion

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit de32d4df57c10fc100c1b33630127947a8c8460
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Feb 27 15:49:10 2011 -0800

Revert "rootless: Remove ROOTLESS_WORKAROUND"

Christof Wolf has reported a regression that seems to be caused by
this change, so reverting the change in the 1.9 branch. We'll
investigate a proper fix in master for 1.10.
This reverts commit c89f0521044083a11d538ebfeaabbe6fc7fb9a03.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 00779932de861bf7ac8e625802f1afed75d01b6f
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Feb 27 20:16:03 2011 +0100

Don't clobber input device options from xorg.conf

Since commit b8d9c5ff removed commonOptions, we now need to append the "Core{Keyboard,Pointer}" options to the existing list.

Fixes passing options to devices configured in xorg.conf on systems where autoaddevices is false.

Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8cf3348e90846f5b04236479042228fb98ac8f70
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Feb 8 11:38:35 2011 -0800

XQuartz: RandR: Add RandR modes for the primary display in multi-monitor configs

We now support using RandR to set the resolution of the primary display (and place a shielding window on other displays) in multi-monitor configurations.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 968652983f8e6ae6889b48e15f4098ff6ad4a15a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Feb 8 12:26:35 2011 -0800

XQuartz: RandR: Provide an alert box when entering a RandR mode for the first time.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 13578b852b7631f99cf1fd5e2e5469edc5aae369
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Feb 8 11:37:52 2011 -0800

XQuartz: RandR: Capture the display when switching modes with RandR

This will prevent native windows from resizing as we change resolutions.
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7dff79e39564b403c3afbc5e7bacffa0df190a23
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Fri Feb 11 09:00:10 2011 -0500

Implement fbAddTriangles() in terms of pixman_add_triangles()

This allows the remaining triangle-to-trap conversion code to be deleted.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 566f1931ee2916269e164e114bffaf2da1d039d1
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Jan 11 10:33:57 2011 -0500

Move miTriangles to fb as fbTriangles()

The fb version simply calls the new pixman_composite_triangles(). This allows us to get rid of miCreateAlphaPicture().

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 788cce9a8bce6a4fbf054c507111e3338fb969
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Jan 11 09:46:46 2011 -0500

Move miTrapezoids() into fb as fbTrapezoids()

The main consumer of trapezoids, cairo, is using the Trapezoids request, which is currently implemented in the miTrapezoids() function. That function splits the request into smaller bits and calls lower level functions such as AddTrap.

By moving the implementation of the whole request into fb, we can instead call pixman_composite_trapezoids() to do the whole request in one step.

There are no callers of miTrapezoids in any of the open source drivers, although exa and uxa have their own copies of the function.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Søren Sandmann <ssp@redhat.com>
commit 197df069a4037d6faa2723c31ffba09c95d71166
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Wed Feb 23 10:36:57 2011 -0500

Require pixman 0.21.6

The following patches need pixman_composite_trapezoids() and pixman_add_triangles().

Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit f3d19c0cf3327cceb90f7378f5d8fc0c3e327400
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 25 21:22:23 2011 -0800

Version bumped to 1.10

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 678f5396e91b3d0c7572ed579b0a4fb62b2b4655
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 25 21:10:21 2011 -0800

input: Ensure Valuator axes are aligned as needed

Let the compiler figure out the correct alignment for the axes data for a valuator by using a union to force double alignment of the initial ValuatorClassRec structure in the allocation.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit dc8f52e77f51b6fa8908d9611c3f7e3cfbbaf2d1
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 25 16:38:27 2011 -0800

hw/dmx/doc: Add explicit dependency for all doxygen output files

Instead of listing one of the doxygen output files and depending on sequential execution to ensure that the other files were present before make checked for them, create explicit dependencies so that make will not check for the additional files until after doxygen has been run.

This allows parallel make to work correctly in this directory.

Signed-off-by: Keith Packard <keithp@keithp.com>
hw/xwin: Look for gl spec files in $(srcdir) or 

Tarballs include the downloaded gl spec files, which will end up in $(srcdir). But, git-based builds will not have them at all and will need to download them from opengl.org. They'll land in the build directory instead of $(srcdir), and so we need to allow them to be in either place.

This change checks for the files in $(srcdir), linking them to . if present. Otherwise, it downloads them from opengl.org.

A suggested better solution is to have Mesa install these files somewhere.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Kristian Høgsberg <krh@bitplanet.net>

dmx: Construct paths in doxygen.conf to fix VPATH builds

The paths in doxygen.conf assumed that srcdir=builddir and broke otherwise. Use autoconf to fill in the paths to the srcdir so that the files can be found when users have a separate build directory (as with distcheck).

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Tested-by: Sedat Dilek <sedat.dilek@gmail.com>

xfree86: Allow sdksyms.dep to be included portably

Non-GNU makes don't deal with the sinclude or -include variants that allow Makefile stubs to be created and then included during the build. Instead, create an empty file at the end of configure so that the regular include statement can be included. This is how automake handles
automatic source dependencies.

In order to trick automake into not processing the include statement, a variable is used.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 780a77acce1dd369549ece802b3e2c4006058dfe
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 24 20:45:46 2011 -0800

Version bumped to 1.9.99.903 (1.10 RC3)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9d23459415b84606ee4f38bb2d19054c432c8552
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 25 11:08:19 2011 +1000

dix: release all buttons and keys before reattaching a device (#34182)

Testcase:

xinput float <keyboard name>

results in the keyboard's enter key being repeated as the device is detached while the key is still physically down. To avoid this, release all keys and buttons before reattaching the device.

X.Org Bug 34182 <http://bugs.freedesktop.org/show_bug.cgi?id=34182>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 229b055bdbe53370944401649234e8a38183f4f
Merge: 6178959e3d b17fe99cb9
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 24 19:44:35 2011 -0800

Merge remote branch 'jeremyhu/master'

commit 6178959e3dd6482a4317de6eb14eb19ca7329b9c
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 24 19:42:02 2011 -0800

xfree86: Bump video ABI to 10.0

RandR 1.4 revert changed things
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 31704510f448706524b7b7085cc4ff0ada7bfe7e
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu Feb 24 12:17:57 2011 +0100

EXA/mixed: ModifyPixmapHeader pitch fixes. (bug #33929)

If there's a GPU copy and a non-zero devKind was passed in, set the GPU copy
pitch to that instead of to a possibly bogus value derived from the new width.
This is e.g. used by the radeon driver's drmmdode_xf86crtc_resize hook, fixes
https://bugs.freedesktop.org/show_bug.cgi?id=33929.

On the other hand, the system memory copy doesn't need the pitch to be aligned
beyond the PixmapBytePad of the width.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Cyril Brulebois <kibi@debian.org>
Tested-by: Cyril Brulebois <kibi@debian.org>
Reported-by: Thierry Vignaud <thierry.vignaud@gmail.com>
Tested-by: Thierry Vignaud <thierry.vignaud@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b17fe99cb9ca9f0a3592f783a906c6c35da748
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Feb 24 19:24:35 2011 -0800

XQuartz: Localization Updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 59850630fe5e4f0430d7e2e106937fd1e7ff8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Feb 24 19:18:35 2011 -0800

XQuartz: Add LSApplicationCategoryType key to Info.plist

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 83861595782aaa05907f9cf7b236d50261d404d9
Merge: a1cc0e52b0 4102a0962
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 24 18:59:07 2011 -0800

Merge remote branch 'kibi/master'

commit a1cc0e52b0e8ca40bc1218de553424b2bc760ef
Removing unused code

In OpenBSD removed support PCCONS in 2002 year
http://marc.info/?l=openbsd-cvs&m=102435816424294&w=2

Reviewed-by: Matthieu Herrb <matthieu.herrb@laas.fr>
Signed-off-by: Keith Packard <keithp@keithp.com>

record: avoid crash when calling RecordFlushReplyBuffer recursively

RecordFlushReplyBuffer can call itself recursively through
WriteClient->CallCallbacks->_CallCallbacks->RecordFlushAllContexts
when the recording client's buffer cannot be completely emptied in one
WriteClient. When a such a recursion occurs, it will not be broken out
of which results in segmentation fault when the stack is exhausted.

This patch adds a counter (a flag, really) that guards against this
situation, to break out of the recursion.

One alternative to this change would be to change _CallCallbacks to
check the corresponding counter before the callback loop, but that
might affect existing behavior, which may be relied upon.

Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Signed-off-by: Erkki Seppälä <erkki.seppala@vincit.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

include: document list interface.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit b833f9b924ddc043244c0a026547c438f1c4d4df
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:18:35 2011 -0800

Revert "Replace huge argument list in xf86CrtcSetModeTransform with struct"

This reverts commit 8b35118e03590a7ad3786d3284bafbf3f40fcb8cc.

commit 7030c82648930cea7e7a22e9d8138078920d4d
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:18:16 2011 -0800

Revert "Require RandR protocol version 1.4 or newer"

This reverts commit c8be25fd7629df10f2825b7cc713b031ae78f223.

commit a91d33917beefd6719bb7f01007be253a2ae1bb0b
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:18:12 2011 -0800

Revert "randr: Add sprite position transforms"

This reverts commit 66294afcab7b7a82f7dd897767e46c48a94b8ee8.

commit 3d4ee25a1e2e0ed2463ceaabea8f5a284a6ddd60
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:18:08 2011 -0800

Revert "randr: Implement RRSetCrtcConfigs"

This reverts commit d94a035ea9eb3167fc4f35b2d9f0d53f8807014c.

commit 8b0e651f7d09a7f35c87a4d0ases2053ca93b516
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:18:05 2011 -0800

Revert "hw/xfree86/modes: Add optional driver API for RRSetCrtcConfigs"

This reverts commit 86c489c319c705f710bee3897fe27600ce15008e.

commit 9e8c20b0d49783d6b9334d4c11c4e6e3ba273524
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 23 11:17:42 2011 -0800

Revert "randr: Add per-crtc pixmaps"
This reverts commit 82612045e11f2b882ae132e184a9629f43f1c424.

commit 9f47780ecdc7693f756587a758ec0141e75cb1eb
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:17:36 2011 -0800

Revert "randr: Hook up the new RandR 1.4 functionality"

This reverts commit afb6ebf1d5829346c40fe1053c9f50afe9266e6c6.

commit 793a242c89fcccdf1a2557ba33da1da2cb4ff8c4
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:17:33 2011 -0800

Revert "DIX is responsible for ref counting scanout pixmaps."

This reverts commit 96b4d4f787bf82edd9d06eb9a6e94bc45412c7df2.

commit 7b7cd3f121b3904ad851155f853ce87a0e00d002
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:17:29 2011 -0800

Revert "Set sprite transforms from RRSetCrtcConfigs"

This reverts commit a88d70fb20a2bc3152b84adff4380857e6cfadf5.

commit fd9331f6eb39a28da7de4867b2e3a460f667d514
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:17:24 2011 -0800

Revert "Separate out screen size and screen pixmap sizes in RRScreenSizeSet"

This reverts commit 752c368421c1c824752cf467fba9318d75d2ca2c.

commit 4d91e7a63161cdde9af53aedb3fe3e53dbe3049e
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:17:20 2011 -0800

Revert 'ProcRRSetCrtcConfigs uses 'configs' without being initialized"

This reverts commit b0f4bd61f0caf80f3be9a176f1f7a707bc6628d8.

commit 00d0b235cfbf162d5d58c088d2ed03e55a9c5cb
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 23 11:16:48 2011 -0800

Revert "randr: handle RRSetCrtcConfigs request with zero configs"
This reverts commit 0d01b66df9081ef48843b3bad81c56bb2cd1ae69.

commit 720c895db9327bbdc32215a67236303d2ceafad4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 23 13:36:20 2011 -0500

Add mode field to ConstrainCursorHarder

  For Pointer Barriers, the movement mode is important and must be passed through.

    Reviewed-by: Adam Jackson <ajax@redhat.com>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a16e282200f84233041e5a565c6363a5a78be525
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 8 15:40:22 2010 -0500

  xfree86: Fix the sdk headers to be multilib-safe

    Use _LP64 (verified on gcc and sun compilers) instead of _XSERVER64 in internal header usage, and always define _XSERVER64 for modules if _LP64 is defined. Prevents differing xorg-server.h between 32 and 64 bit packages.

    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit dc498b433f36af5d2de3065e7c64cdh575385d81
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 8 15:23:04 2010 -0500

  xfree86: If the driver found modes on an output, don't add more

    Inferring modes from sync ranges is only valid if the monitor says it's valid. If the monitor says it's valid, then we'll have already added those modes during EDID block parse. If it doesn't, then we should believe it.

    If there's no EDID for an output, but sync ranges from the config, we'll still add default modes as normal.

    Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 303977fbcf9c641b7e19dfde192ce585f5b455c
Author: Adam Jackson <ajax@redhat.com>
glxproxy: warning fix

glxvendor.c: In function '__glXVForwardPipe0WithReply':
glxvendor.c:205:10: warning: 'be_buf' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 405ad0610d6e2f4606768294b655ace52aee9ae58
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 14:51:47 2011 -0500

glxproxy: warning fix

glxvendor.c: In function '__glXVForwardAllWithReply':
glxvendor.c:284:10: warning: 'be_buf' may be used uninitialized in this function
glxvendor.c:285:10: warning: 'be_buf_size' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a4cd2e0da6415ec1b3b182579bebbe2a41f29d30
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 14:47:05 2011 -0500

glxproxy: warning fix

glxsingle.c: In function '__glXForwardPipe0WithReply':
glxsingle.c:218:10: warning: 'be_buf' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f928caca6e60215bc9ab423acae5542dfabc9bec
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 14:45:31 2011 -0500

glxproxy: warning fix

glxsingle.c: In function '__glXForwardAllWithReply':
glxsingle.c:300:10: warning: 'be_buf' may be used uninitialized in this function
glxsingle.c:301:10: warning: 'be_buf_size' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 3b9de273a94fb68de51238c20c3182396aa41b84
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 14:07:20 2011 -0500

glxproxy: warning fix

glxcmds.c: In function `CreateContext.clone.6':
glxcmds.c:105:19: warning: `be_fbconfigId' may be used uninitialized in this function
glxcmds.c:104:14: warning: `be_vid' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 767b93e783a981b4fc926299a85a1a18387e693a
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 14:02:37 2011 -0500

glxproxy: warning fix

glxcmds.c: In function `__glXGetDrawableAttributes':
glxcmds.c:3295:8: warning: `screen' may be used uninitialized in this function
glxcmds.c:3298:8: warning: `attribs_size' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a391089186cd1063d807bf14a9651e6861b248de
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 8 13:55:23 2011 -0500

glxproxy: warning fix

glxcmds.c: In function `__glXChangeDrawableAttributes':
glxcmds.c:3464:8: warning: `screen' may be used uninitialized in this function

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 4102a00962f568b1d34cf72ad524e1cc705b0b1c
Author: Cyril Brulebois <kibi@debian.org>
Date:   Wed Feb 23 14:44:23 2011 +0100

xfree86: Fix undefined reference to `XNFsprintf' on sparc.

Build failure on sparc:
| copying selected object files to avoid basename conflicts...
| CCLD   Xorg
| ./libs/libxorg.a(xf86sbusBus.o): In function `xf86SbusConfigureNewDev':
Fix typo introduced in:
3a9bb93dd178084f4ff1abcea331ca5a62f88ce6

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Apoloized-for-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 579ee8f5d84c3a523b7b3e3941ecbb226d1d19e2
Merge: b636893137 17265ccb02
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 23 08:44:42 2011 +1000

Merge branch 'mi-cleanup' into next

commit b636893137da1695e235e3a9354bf9243fdddc2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Feb 22 13:43:28 2011 +0000

Input: Don't freeze unrelated devices in DeliverGrabbedEvent

When delivering an event to a device grabbed with SyncBoth, DeliverGrabbedEvent walks the device tree looking for associated devices to freeze them. Unfortunately, it froze all devices instead of just the paired device, and the previous fix in 4fbadc8b17237f3c would still break if the same client had a non-SyncBoth grab on another unrelated master device.

Fix this by completely ignoring devices that aren't our paired device.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 17265ccb027e30956bf7409106174f44621d1cb8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 18 12:28:43 2011 +1000

Move master/lastSlave out of the union into separate fields.

The removal of the double-use will cause some subtle bugs as some conditions to check for the dev->u.master case were broken and also evaluated as true if lastSlave was set (instead of master).

Also breaks the input ABI.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 77113dd3ee0f03dd65b556b672d976817b3f4542e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:45:29 2011 +1000

input: Change a bunch of direct dev->u.master accesses to use GetMaster()

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 2936635698619271a790004480a14285149277cb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 12:06:56 2011 +1000

  xkb: Fix a check for MASTER_KEYBOARD

  And copy into the master keyboard, not just the directly attached device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 0ba526deeb4d54ee1a75400291ee7a3673ed4d96
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 12:04:46 2011 +1000

  mi: check for MASTER_POINTER instead of manual checks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 52c13896ce9a1e178d4eed15f68020947cc20ed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:57:06 2011 +1000

  mi: update macro to search for MASTER_POINTER

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit d270f12a3e44f4ea01f176a86783e8cd4c59ddf7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:55:51 2011 +1000

  xf86: update GetMaster check for the VCP.
Same result, but now also triggers on slave keyboards that send pointer events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit ce7f79efd588899f01c7495c2f58d6dd6d816cd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:53:06 2011 +1000

dix: fix a master device access in change_modmap.

We need to check if our master keyboard is the given device since we may be a pointer with keys and thus need to change the modmap too.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit e1ac704185dee31b427a46cd41a00ef7a28b4129
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:42:09 2011 +1000

dix: fix up a master check in ChangeKeyboardMapping handling.

We don't just care about the directly attached master, we care about the master keyboard.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit febce8cb814df46018f6ae1e6a9dae019b8ad0a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:32:28 2011 +1000

Xi: replace a direct master access with GetMaster()

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit df6559237a2d641b2fc38d14975beab9bae0d971
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 18 11:30:10 2011 +1000

dix: add MASTER_ATTACHED as allowed type for GetMaster().

In some cases, we don't know/care whether we want the master pointer or keyboard for a device. Add a new type MASTER_ATTACHED to return the master this device is attached to.
Switch to use IsFloating()

This is not a straightforward search/replacement due to a long-standing issue.

dev->u.master is the same field as dev->u.lastSlave. Thus, if dev is a master device, a check for dev->u.master may give us false positives and false negatives. The switch to IsFloating() spells out these cases and modifies the conditions accordingly to cover both cases.

commit e48bf3b6403d2e33586ca0e421db61e402525453
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 11 11:11:57 2011 +1000

xfree86: replace two inputInfo.pointer uses with device loops.

commit 703bae7e2bd128a6742d0523d5b3eb65126fa5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 11 12:19:26 2011 +1000

dix: Add IsFloating(device) wrapper.

Simplifies check for floating devices.

commit 77af45ebc3eda32dc534968cab8d5adfb01bd9e3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 11 12:48:30 2011 +1000

dix: Simplify retrieving the master device.
GetMaster() returns NULL for floating slaves.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit dc32a23890776edf575bf18b3f3c079da6214340
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 11 15:21:51 2011 +1000

Fix two incorrect checks for master devices.

These two were sideeffects of lastSlave being in the same field as the
master. For devices generated by the master device directly, lastSlave was 0
and the device would (with the old checks) be interpreted as floating.

Add the required checks to safeguard against master devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit d63c979c7fe0f2b114b27e73ebe0a706be8840ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 11 15:21:31 2011 +1000
dix: replace direct master access with GetMaster and temp. device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit c2a9e0a96983f22f721196513e75a53ea0b86d7e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 11 11:41:47 2011 +1000

mi: simplify a "check for keyboard" condition

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 3a6160b408447ce620140849f62683a5d139cb9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 11 11:40:01 2011 +1000

mi: remove if 0 code.

Note sure why this is in if 0 but it's been that way since 2007.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>
commit d9987e8c45236bc9cfcafbf2ac2a9d0e7e6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 11 11:22:45 2011 +1000

    mi: Add a few comments explaining various cursor move functions.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 15fe86e69fc256342881112cd07565527e32435b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 11 11:01:19 2011 +1000

    mi: remove static GenerateEvent variable.

    Push into the respective devices. This should have no functional changes
    since we never warp more than one device at a time. In the glorious future
    with true multithreading, still the better thing to do.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Benjamin Tissoires <tissoire@cena.fr>

commit 93a73993708b1345c86ec3ec06b02ed236595673
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 21 15:40:40 2011 +1000

    test: write some event XII conversion tests.

    Don't test everything, but hey, life is short and I'm trying to have one.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>
    Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 4cdf1013771bc86fe2f6d9223bc4a46753bc918f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 21 15:32:57 2011 +1000

    dix: a valuator number of 0 is valid (#34510)

    For all but motion and proximity events, having no valuators is ok.
    Regression from 1.9, keyboard events are not converted to protocol events.

    X.Org Bug 34510 <http://bugs.freedesktop.org/show_bug.cgi?id=34510>

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Keith Packard <keithp@keithp.com>
Revert "exa/mixed: Exclude frontbuffer from deferred pixmap handling."

This reverts commit 541b25038a5de74411a094570b4075ae018c2ba.

- It turns out that the high latency was a driver problem.
- cutting a large amount of text turns out to look prettier when the throughput is lower, but it's not worth the loss for a minor improvement that may not even exist on someone else's computer.

Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 443d75446bcbe7d97a23860a1e2d46c0b7e7cb26
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 18 14:46:33 2011 -0800

Version bumped to 1.9.99.902 (1.10 RC2)

Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2c77aeb39f59f1a94cc603a2e6256a62ce785c36
Merge: 816d67de2b 402b329c3a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 18 14:29:32 2011 -0800

Merge remote branch 'jcristau/for-keith'

commit 816d67de2ba9bdf6e652da32cb6447a3056342b98
Merge: a73c28f0bd 3bbb70a1a7
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 18 12:20:26 2011 -0800

Merge remote branch 'whot/for-keith'

commit a73c28f0bdaaf1c5cb8129179188a99c0ca052e2
Author: Justin Dou <Justin.Dou@intel.com>
Date:   Thu Feb 10 16:27:29 2011 -0500

Replace malloc with calloc to initialize the buffers[] as NULL in do_get_buffers function
The calling for allocate_or_reuse_buffer may fail due to some reason, e.g. out of memory. If the buffers[] were not initialized to be NULL, the following err_out may try to access an illegal memory, which will cause X crash afterward.

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Justin Dou <Justin.Dou@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0bc9b15a622377c57e617411ccd26c4b5bf8cb4a
Merge: d1123b66eb 93cd4b1034
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 18 12:04:41 2011 -0800

Merge remote branch 'ajax/for-keithp'

commit d1123b66ebbcf96dd816236f54beec568a5f7c68
Merge: 5d020c3135 f6e4ace9e9a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 18 11:59:25 2011 -0800

Merge remote branch 'jturney/master'

commit 649269d40667cb387cb5286dd3519dd68f7dd80
Author: Bryce Harrington <bryce@canonical.com>
Date:   Wed Feb 16 16:55:57 2011 -0800

Check for OOM condition in XISendDeviceHierarchyEvent

When system is out of memory, calloc can fail returning a NULL pointer. Check for this before dereferencing it, and bail out if it fails.

Ref.: https://bugs.launchpad.net/ubuntu/+source/xorg-server/+bug/720445

Signed-off-by: Bryce Harrington <bryce@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 31ddb7ef4f5bac2c13c199e74a0716e43b8dc38e
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Feb 2 00:03:44 2011 +0100

dix: avoid FP promotion during pointer acceleration

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 006157f203f8493bb3d18e333a3fd3d6cb10f8ea
dix: refactor scheme init

This makes it possible to init a scheme in one init call, so we get rid of the tightly coupled two-phase init used before.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: allow to check for options without warnings in the log

This allows set_percent_option in synaptics to work as described, and should generally enable to check option syntax without log spam.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

fix percent options parsing

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Allow EventToCore to return multiple events

Some event types (notably Expose and GraphicsExpose) require multiple events, a la XI 1.x. Bring the EventToCore API in line with EventToXI's and allow it to generate multiple events.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit ea1495adabca52df44241c0eba39e6bceb58202
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Feb 15 11:28:01 2011 +0000

Input: Reduce use of filter in DeliverEvents

Instead of switching on the event filter to determine delivery, use the event type instead.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8a0241656ceeb6ab2fb377f02b14238d18e65fc1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Feb 15 11:28:00 2011 +0000

Input: Rename EventIsDeliverable return masks

Rename the return mask values for EventIsDeliverable:
* CORE_MASK -> EVENT_CORE_MASK
* XI_MASK -> EVENT_XI1_MASK
* XI2_MASK -> EVENT_XI2_MASK
* DONT_PROPAGATE_MASK -> EVENT_DONT_PROPAGATE_MASK

And don't undef them in dix/events.c, since they're supposed to be global.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 737562257e8ee30b1c438e5160a61fbb26ca609e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Feb 15 11:27:59 2011 +0000

Input: Actually send Xi 1.x DeviceStateNotify events

When a client has selected for Xi 1.x DeviceStateNotify events, they should receive them when a DeviceFocusIn event is generated. The code to do this was there, but an incorrect test meant they were never being sent.

The "type" passed in is the XI2 type, the XI1 type is in event.type.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit da39d57a20d4281fc4099e356645fef980290030
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Feb 15 11:27:57 2011 +0000

Input: Store passive-activating key in CheckDeviceGrabs

CheckDeviceGrabs will activate a passive grab for KeyPress and ButtonPress events. GrabInfoRec::activatingKey contains the keycode which activated the passive grab, so we can deactivate it later in ProcessOtherEvents.

Previously, CheckDeviceGrabs relied on its callers to set activatingKey, which not all callers were doing (I'm looking at you, ComputeFreezes). Just set it in CheckDeviceGrabs instead.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3bb70a1a7b24d3d1375b20a13db7011cf961c86
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 16 07:56:58 2011 +1000

xfree86: fix up an out-of-date comment.

InitInput simply initialises all input devices now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 402b329c3aa8ddbebaa1f593306a02d4cd6fed26
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 23 13:35:54 2011 +0100

glx: Work around wrong request lengths sent by mesa

mesa used to send too long requests for GLXDestroyPixmap, GLXDestroyWindow, GLXChangeDrawableAttributes, GLXGetDrawableAttributes and GLXGetFBConfigsSGIX.

Fixes a regression introduced in ec9c97c6bf70b523bc500bd3adf62176f1bb33a4 X.Org bug#33324 <https://bugs.freedesktop.org/show_bug.cgi?id=33324>

Reported-by: xunx.fang@intel.com
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit 1137c11be0f82049d28024eaf963c6f76e0d4334
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Jan 26 13:06:53 2011 +0100

glx: fix BindTexImageEXT length check

The request is followed by a list of attributes.

X.Org bug#33449

Reported-and-tested-by: meng <mengmeng.meng@intel.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a883cf1545ab899bb2cadfa659718884b56fd234
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 23 17:05:26 2011 +0100

glx: fix request length check for CreateGLXPbufferSGIX

The request is followed by an attribute list.

   Signed-off-by: Julien Cristau <jcristau@debian.org>
   Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0f9c6f2f822ff53b9d12ff4fa0b26cbeb7394ba5
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 13 21:36:05 2011 -0800

xkb: Replace malloc(strlen) + strcpy with strdup

   Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
   Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 682865c460945e1299f943561140f46439e2b4cb
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sun Feb 13 21:36:04 2011 -0800

XkbAddGeomProperty: Fix checks for malloc failure

   Check the variable we just tried to malloc, not the string we're copying
   and already checked for NULL at the beginning of the function.

   Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
   Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Replace _XkbDupString with Xstrdup

The two functions have identical semantics, including safely returning
NULL when NULL is passed in (which POSIX strdup does not guarantee).

Some callers could probably be adjusted to call libc strdup directly,
when we know the input is non-NULL.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xkb: Use snprintf to measure string lengths instead of manual strlen math

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xfixes: calloc, not malloc the cursorScreenRec

Debugging NULL pointers is significantly easier than random memory.
Plus, if new fields (such as pointer barriers) are added they may just be
properly initialised.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

xkb: if the keymap failed to compile, load the default keymap instead.

We really need symbols, compat, keynames, vmods and types for a sensible keymap.

Try this in your xorg.conf.d snippets for all keyboards:
us(nodeadkeys) doesn't exist so xkbcomp provides everything but the symbols
map. We say we want everything but don't _need_ anything, the server happily
gives us a keymap with every key mapped to NoSymbol. This in turn isn't what
we want after all.

So instead, require symbols, compat, keynames, vmods and types from the
keymap and if that fails, load the default keymap instead. If that fails
too, all bets are off.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 47d1d2fed656c3a3b2600491078da90962c46934
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 10 15:11:34 2011 +1000

xkb: split out keymap compilation.

Refactoring for simpler double-use in the next patch. No functional changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 787ba25a8a3af52b38448a1af68c9704ea8b7905
Author: Carlos Garnacho <carlosg@gnome.org>
Date: Mon Feb 7 18:21:31 2011 +0100

Xi: make XIQueryPointer return the current modifiers/group as documented.

The previous XKB info was being returned instead of the current
one, producing inconsistent results between the latest events
and the modifiers/group returned by this call.

Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 85f9017393e9bb19553e9afcf554673a44a09993
Author: Ander Conselvan de Oliveira <ander.conselvan-de-oliveira@nokia.com>
Date: Tue Feb 8 11:10:10 2011 +0200

ProcXkbGetXkbByName: fix use of uninitialised bytes valgrind error.

==9999== Syscall param writev(vector[...]) points to uninitialised byte(s)
==9999== at 0x4AB5154: writev (writev.c:51)
==9999== by 0x7C7C3: _XSERVTransWritev (Xtrans.c:912)
==9999== by 0x61C8B: FlushClient (io.c:924)
==9999== by 0x62423: WriteToClient (io.c:846)
==9999== by 0xCE39B: XkbSendMap (xkb.c:1408)
==9999== by 0xD247B: ProcXkbGetKbdByName (xkb.c:5814)
==9999== by 0x4AB53: Dispatch (dispatch.c:432)
==9999== by 0x205BF: main (main.c:291)
==9999== Address 0x557eb68 is 40 bytes inside a block of size 4,096 alloc'd
==9999== at 0x48334A4: calloc (vg_replace_malloc.c:467)
==9999== by 0x62567: WriteToClient (io.c:1065)
==9999== by 0x452EB: ProcEstablishConnection (dispatch.c:3685)
==9999== by 0x4AB53: Dispatch (dispatch.c:432)
==9999== by 0x205BF: main (main.c:291)
==9999== Uninitialised value was created by a stack allocation
==9999== at 0xD1910: ProcXkbGetKbdByName (xkb.c:5559)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Signed-off-by: Ander Conselvan de Oliveira <ander.conselvan-de-oliveira@nokia.com>

commit 8a34d7a8532c7ca013e67307f3baf200167abb92
Author: Ander Conselvan de Oliveira <ander.conselvan-de-oliveira@nokia.com>
Date:   Tue Feb 8 11:10:11 2011 +0200

XkbSendNames: fix use of uninitialised bytes valgrind error.

==537== Syscall param writev(vector[...]) points to uninitialised byte(s)
==537== at 0x4AB7154: writev (writev.c:51)
==537== by 0x8935B: _XSERVTransWritev (Xtrans.c:912)
==537== by 0x6C55F: FlushClient (io.c:924)
==537== by 0x6CCF3: WriteToClient (io.c:846)
==537== by 0xD51D3: XkbSendNames (xkb.c:3765)
==537== by 0xD8183: ProcXkbGetKbdByName (xkb.c:5825)
==537== by 0x27B7B: Dispatch (dispatch.c:432)
==537== by 0x205BF: main (main.c:291)
==537== Address 0x55899f2 is 154 bytes inside a block of size 1,896 alloc'd
==537== at 0x4834C48: malloc (vg_replace_malloc.c:236)
==537== by 0xD47AF: XkbSendNames (xkb.c:3642)
==537== by 0xD8183: ProcXkbGetKbdByName (xkb.c:5825)
==537== by 0x27B7B: Dispatch (dispatch.c:432)
==537== by 0x205BF: main (main.c:291)
==537== Uninitialised value was created by a heap allocation
==537== at 0x4834C48: malloc (vg_replace_malloc.c:236)
==537== by 0xD47AF: XkbSendNames (xkb.c:3642)
==537== by 0xD8183: ProcXkbGetKbdByName (xkb.c:5825)
==537== by 0x27B7B: Dispatch (dispatch.c:432)
==537== by 0x205BF: main (main.c:291)
ProcRRCreateMode: fix use of uninitialised bytes valgrind error.

==543== Syscall param writev(vector[...]) points to uninitialised byte(s)
==543== at 0x4AB7154: writev (writev.c:51)
==543== by 0x8935B: _XSERVTransWritev (Xtrans.c:912)
==543== by 0x6C55F: FlushClient (io.c:924)
==543== by 0x6D013: FlushAllOutput (io.c:668)
==543== by 0x27A83: Dispatch (dispatch.c:453)
==543== by 0x205B7: main (main.c:291)
==543== Address 0x556dc8c is 12 bytes inside a block of size 4,096 alloc'd
==543== at 0x48334A4: calloc (vg_replace_malloc.c:467)
==543== by 0x6CE37: WriteToClient (io.c:1065)
==543== by 0x223A7: ProcEstablishConnection (dispatch.c:3685)
==543== by 0x27B7B: Dispatch (dispatch.c:432)
==543== by 0x205B7: main (main.c:291)
==543== Uninitialised value was created by a stack allocation
==543== at 0xA3350: ProcRRCreateMode (rrmode.c:289)


==9999== Syscall param writev(vector[...]) points to uninitialised byte(s)
==9999== at 0x4AB5154: writev (writev.c:51)
==9999== by 0x7C7C3: _XSERVTransWritev (Xtrans.c:912)
==9999== by 0x61C8B: FlushClient (io.c:924)
==9999== by 0x62743: FlushAllOutput (io.c:668)
==9999== by 0x4AA5B: Dispatch (dispatch.c:453)
==9999== by 0x205BF: main (main.c:291)
==9999== Address 0x55711b9 is 1 bytes inside a block of size 4,096 alloc'd
==9999== at 0x48334A4: calloc (vg_replace_malloc.c:467)
==9999== by 0x62567: WriteToClient (io.c:1065)
==9999== by 0x452EB: ProcEstablishConnection (dispatch.c:3685)
Xi: constify XIChangeDeviceProperty()

We don't modify "value", make it official.

shadow: Remove hw/xfree86/ from includes

damage: Remove hw/xfree86/ from includes
Did you know that anonymous enums with function scope will not only
override the enum values from global scope, but will be treated as
entirely different types? C’s type system just rules.

xf86Crtc.c: In function 'handle_detailed_monrec':
xf86Crtc.c:1555:33: warning: comparison between 'enum det_monrec_source' and 'enum <anonymous>'
xf86Crtc.c:1562:33: warning: comparison between 'enum det_monrec_source' and 'enum <anonymous>'

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

fbdevhw: Remove the non-sysfs hack for mapping from PCI to fbdev

It's broken for devices with BARs above 4G, and the sysfs method should
work everywhere anyway. As a pleasant side effect, this fixes some
warnings:

fbdevhw.c: In function 'fbdev_open_pci':
fbdevhw.c:333:4: warning: cast from pointer to integer of different size
fbdevhw.c:334:4: warning: cast from pointer to integer of different size
fbdevhw.c:336:4: warning: cast from pointer to integer of different size
fbdevhw.c:337:4: warning: cast from pointer to integer of different size

Reviewed-by: Matt Turner <mattst88@gmail.com>
int10: warning fix

helper_exec.c: In function 'pciCfg1in':
helper_exec.c:507:4: warning: passing argument 2 of 'pci_device_cfg_read_u32' from incompatible pointer type
/usr/include/pciaccess.h:153:5: note: expected 'uint32_t *' but argument is of type 'CARD32 *'

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f1b7c9ceed94b520e6b96774d605d63d3f341b50
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 20 00:09:19 2011 -0500

xf86vidmode: warning fix

xf86VidMode.c: In function 'VidModeGetMonitorValue':
xf86VidMode.c:637:19: warning: 'ret.i' may be used uninitialized in this function

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit be186586e504197623c69637b8122fb814f59429
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 20 00:06:48 2011 -0500

Cygwin/X: Fix for Canadian Multilingual Standard keyboard layout handling

Add a keycode mapping for VK_OEM_8 as RCtrl, which is issued by Canadian Multilingual Standard layout

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f6e4ace9eabea1bb2a06dd86b6ff954917a74ce
Author: Jon TURNLEY <jon.turney@droncode.org.uk>
Date: Sun Jul 18 13:24:48 2010 +0100

Cygwin/X: Ignore MappingNotify events sent to clipboard integration client
Ignore MappingNotify events sent to clipboard integration client, xmodmap changes aren't of interest to it, but there is no mechanism to express that disinterest.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit e930aa7bb7f04a128df8e6fd441aed5123a2eb6
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Sep 14 16:02:53 2010 +0100

Cygwin/X: Add Turkish keyboard layouts to keyboard layout mapping table

0x0000041f "Turkish Q" => layout tr
0x0001041f "Turkish F" => layout tr variant f

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ae99a6f895a3a5b6f71e2dd4874cd4bb0235aff0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Jul 18 13:42:29 2010 +0100

Cygwin/X: Make the keyboard layout detection logging a bit clearer

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 57ca09441ee5ff2a8deb95eaa17a2625a756d912
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Jul 1 14:54:48 2010 +0100

Cygwin/X: Update mapping for Canadian keyboard layouts

0x00000c0c "Canadian French (legacy)" => layout ca variant fr-legacy
0x00001009 "Canadian French" => layout ca variant fr
0x00011009 "Canadian Multilingual Standard" => layout ca variant multix

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit be3e5bb50178406e46368be00860331e1b6c4093
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Apr 14 21:45:29 2010 +0100

Cygwin/X: Better keycode debugging output
Replace useless #if 0/ErrorF/#endif with winDebug

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 81892bf6b7e3730ebd19318183734f55dbaa5d4b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Apr 14 21:34:39 2010 +0100

Cygwin/X: Generate X keycodes for multimedia keys

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5d020c31351594e104fb46615ce41f256cd8e8b9
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Fri Jan 14 15:03:28 2011 +0200

xf86/xv: Only register PostValidateTree hook when there is work to do

If none of Xv ports were affected by window tree modifications we don't
want scan the port list. To avoid useless scanning of port list
PostValidateTree hook is only registered when ClipNotify was called for
any port.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit ddf32df5cc2e73b833f6e414276d938fda38869e
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Jan 13 20:50:16 2011 +0200

xf86/xv: Use PostValidateTree to do reput

ValidateTree calls first ClipNotify and later might call
WindowExposures. To avoid useless double reput ClipNotify delays reput
to WindowExposures or PostValidateTree.

PostValidatTree checks all ports if there is clip changes. On clip
changes reput is done to move or scale the overlay.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit 5678a41f6bc0ef8965bd50a88c5ef01ba7eb8b24
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Mon Jan 17 16:58:00 2011 +0200
xf86/xv: Fill color key on expose

If window gets exposed but clipboxes doesn't change drivers would avoid color key fill. This makes XResizeWindo&co to lose colorkey if background is painted.

To help drivers to avoid filling colorkey for each put server can provide helper function if there is exposed areas. Server can subtract exposed areas from filled region.

As a side effect we can avoid useless color key fills if window only moves in screen without background fills.

v3:
* Change tracking to filled area to account for client initiated clip changes
* Make overlaid XvPutImage behavior like textured XvPutImage or PutImage
* Make region dynamically allocated only when required.

v4:
* Simplify new driver interface to reduce duplicate code

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit 9b048ca420864e19862f63f4a491a4da0ff9b54f
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Jan 17 15:07:28 2011 +0200

xf86/xv: Remove unused variable from XvPortRecPrivate

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit 4f8f803280894a8e4c1691a350b7a34bf719fe05
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Jan 13 20:21:09 2011 +0200

xf86/xv: Remove unused GC pointers

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit e012f2312b4bced31bb5d62dd34571f3c12429
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Jan 13 20:19:18 2011 +0200

xf86/xv: Remove copy paste code.
xf86XVFillKeyHelperDrawable can be used to implement
xf86XVFillKeyHelper.

V2:
* Remove RegionTranslate that clobbered parameter region.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>

commit ea1ff3d3e60bdcedbec5a6f28929f8677bf45d45
Merge: 12b0f7df2c 53602c3621
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 2 15:19:55 2011 -0800

Merge remote branch 'whot/for-keith'

commit 12b0f7df2caa78d68b453aa91246bb3577fd724
Author: Evan Broder <ebroder@mokafive.com>
Date:   Tue Feb 1 16:09:50 2011 -0800

dr/xfree86/modes: Be sure to only use new EDID for physical output dimensions

The EDID processing regards physical dimensions of 0mm x 0mm as
invalid. Previously the old values for height and width would be
preserved if none of the physical dimension specifications in the new
EDID were considered valid.

This will come up in particular if first a monitor is connected to an
output, and then a projector is connected. Since projectors generally
report physical dimensions of 0mm x 0mm, this would result in the
projector claiming to have the physical dimensions of the monitor.

Signed-off-by: Evan Broder <ebroder@mokafive.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0b15033031d78836582bd1b641c3160c3803a708
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date:   Mon Jan 31 23:25:10 2011 +0100

dr/xserver: enable TLS even if AIGLX is not enabled

This aligns the xorg server build with the mesa build, which is needed on
systems where aiglx with dri support is not enabled. Else the following error is
obtained when trying to load the software raster:

(EE) AIGLX error: dlopen of /usr/lib/dri/swrast_dri.so failed (/usr/lib/dri/swrast_dri.so: undefined symbol:
because mesa always enables TLS use in GLX, even if dri is not available.

Signed-off-by: Samuel Thibault <samuel.thibault@ens-lyon.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 541b25038a5de74411a094570b407c5ae018c2ba
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Jan 30 14:06:16 2011 +0100

exa/mixed: Exclude frontbuffer from deferred pixmap handling.

- Apps like xterm can trigger a lot of fallback rendering.
- This can lead to (annoyingly) high latencies, because you have to wait for the block handler.
- You need a driver that doesn't directly access the front buffer to trigger this (NV50+ nouveau for example).
- Repeatedly doing dmesg on an xterm with a bitmap font will reveal that you never see part of the text.
- I have received at least one complaint in the past of slow terminal performance, which was related to core font rendering.
- This does sacrifice some throughput, roughly 33% slower.

Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit af87f6367ef733d1a4f3cfca4eeb92bfd84c2b6f
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Jan 30 14:06:15 2011 +0100

exa: Only call driver FinishAccess hook if PrepareAccess hook succeeded.

Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 648d4fe5172cad33c6f09e05dd3d8d7171ef1a7f
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Jan 30 14:06:14 2011 +0100

exa/driver: set pExaPixmap->use_gpu_copy to the right value
- Not sure if it was causing problems, but you never know.

Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 246d40b685292fa6393ba22127152137494af2af
Merge: 70f2d39fbd 8c1f75a1d4
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 2 14:51:33 2011 -0800

Merge remote branch 'jeremyhu/master'

commit 70f2d39fbdde38d0bbaa687f1755b6e4c686f23052
Merge: 3a91c2d21c a9d3e43a57
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 2 14:43:19 2011 -0800

Merge remote branch 'jturney/master'

commit 3a91c2d21c3231e2a011d95c3cfe01785430c1cf
Merge: ac0a00a840 82b1ea6ca
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 2 14:37:00 2011 -0800

Merge remote branch 'dbn/build-fixes'

commit ac0a00a840a5d8d8374e5db2b849e5959550ca4e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 20 23:01:03 2011 -0500

xselinux: Fix GetDrawableContext

M_DRAWABLE_PIXMAP is the lookup mask to dixLookupDrawable, and _not_ the
type value in the drawable itself.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8c1f75a1d4eb5a34b4d10f3f5068bccc4356f31a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Jan 28 21:13:38 2011 -0800

XQuartz: Localization Updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 53602c36217487e0a80880e8328f89ab302d85c8
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:49 2011 +0200

xfree86/dga: Remove DGAIxDgaEvent()

DGAIxDgaEvent() is not used anymore.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2081728b7432e949c274e0dbbabc296fa4db17f9
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:48 2011 +0200

xfree86/dga: Only send DGA events for master devices

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9f09b62e594321a8e45a33f4f13559827d660ed3
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:47 2011 +0200

xfree86/dga: Remove useless ifdefs

Move some variables to the scope where they are used.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5ce941c04ca68cdec2b236c524970bc23f91906af4
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:46 2011 +0200

xfree86/dga: DGAProcessKeyboardEvent() forgot ET_Internal

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ce4e0f660beb097e90110c97d039981702f0b0bd
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:45 2011 +0200
xfree86/dga: Remove DGAMouseX and DGAMouseY

Previously some sort of absolute coordinates were sent out in the padding of the DGA2 Motion and Button events. DGAMouseX and DGAMouseY were used to keep track of said coordinates. libXxf86dga doesn't use that data for anything, and at least git history didn't show any past usage either. So let's just remove the last remnants of this mess.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ee8faeadb60f51a36edce19ec568600dab7c8b357
Author: Ville Syrjala <syrjala@sci.fi>
Date: Mon Jan 24 01:06:44 2011 +0200

xfree86/dga: DGA2 events are missing the dx/dy information

Copy dx/dy from the internal event to the DGA2 Motion/Button events.
Do the same for Key events for the sake of keeping the code consistent.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e3fed815cf85cf9256fd3edeeaa126748b42c
Author: Ville Syrjala <syrjala@sci.fi>
Date: Mon Jan 24 01:06:43 2011 +0200

xfree86/dga: Make mieq_install Bool

mieq_installed is used as a boolean, so why not make it such. Also it's a static variable, so the the explicit zero initialization can be removed.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f4cb25c2ed832bf4cfdcd25198fe5a895430fed
Author: Ville Syrjala <syrjala@sci.fi>
Date: Mon Jan 24 01:06:42 2011 +0200

xfree86/dga: Remove the ET_DGAEvent handler only if it was installed

Remove the handler only if it was installed. Also mark it as uninstalled, otherwise it wouldn't get reinstalled after a
server reset.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e1547a9f1f6d7991219b7711f4cace2852dbf88c
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:41 2011 +0200

xfree86/dga: Install the DGA event handler when DGA2 is used

The ET_DGAEvent handler is only installed when a client requests relative events via DGA1. Do it also when a client requests DGA2 events.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7b16e8633d5a95167aac0c19e43fcfe38bd4a6a4
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:40 2011 +0200

xfree86/input: Restore DGAStealKeyEvent()

DGA key event support was lost in commit 8da0ff2d51086666d10ca7330d428e8610a4a0e3. Bring it back.

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a2c481821997ae14aa5816895ae36db2ca2e4dec
Author: Ville Syrjala <syrjala@sci.fi>
Date:   Mon Jan 24 01:06:39 2011 +0200

include: Fix a copy/paste error in a comment

Signed-off-by: Ville Syrjala <syrjala@sci.fi>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 77af0dc5217fc9c446097d6d487c8ddaf0bddd2a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 24 10:06:34 2011 +1000

xfree86: bump input minor ABI
The new valuator_mask_free() call requires a minor bump.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5927e070b45feb3f3ea4b399420ff6f7d036f1ed
Author: Erkki Seppälä <erkki.seppala@vincit.fi>
Date: Fri Jan 21 15:56:22 2011 +0200

xkb: Cancel a key's repetition when its autorepeat is disabled.

When XkbChangeEnabledControls is called to disable key repetition of a
certain key (or keys), currently ongoing repetition of that key was
not cancelled. It was cancelled if ChangeKeyboardControl was used to
disable key repetition globally.

Reviewed-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Reviewed-by: Dirk Wallenstein <halsmit@t-online.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a9d3c43a57cbaf42d9e96ad49cf12bbfd275f5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jan 19 15:57:59 2011 +0000

Fix compilation of xf86bigfont.c

xf86bigfont.c: In function 'XFree86BigfontExtensionInit':
xf86bigfont.c:146: error: 'ProcXF86BigfontDispatch' undeclared (first use in this function)
xf86bigfont.c:147: error: 'SProcXF86BigfontDispatch' undeclared (first use in this function)

It seems this has been broken since commit cb4d4d5dbb70db62ba1cb79c7b904e6fa11f62d7e
"delete pervasively use of DISPATCH_PROC" (2010-09-28), which is a bit worrying as
that presumably indicates that no tinderbox is configuring with --enable-xf86bigfont.

In a similar fashion to that commit, fix by moving XFree86BigfontExtensionInit()
below the definitions of the static dispatch functions it references.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit effaf9459c4f013e35bf263835d3e37d48ff29d
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Jan 23 22:35:34 2011 -0800

XQuartz: Use the default signal handler

This allows better interaction with CrashTracer
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 418bb57a3923311338baa8a85c0794a72e15cee
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jan 13 17:12:17 2011 -0800

XQuartz: Call RRScreenSizeNotify after handling externally-generated XP_EVENT_DISPLAY_CHANGED

We get an XP_EVENT_DISPLAY_CHANGED event when our display configuration is changed. If this change was caused by hotplugging a monitor or Mac Display Preferences changes by the user, we need to call RRScreenSizeNotify in order to ensure new connections get the correct screen size.

http://xquartz.macosforge.org/trac/ticket/460

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6f52b10b9e8068e3deaf22bb64b62175a208c49
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jan 13 16:08:46 2011 -0800

XQuartz: Bump version string to 2.6.1

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 1cfb96dd6151ebe84a9a26a428005db97e5d5577
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jan 13 16:08:29 2011 -0800

XQuartz: Update copyright dates in bundle's plist

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit bc3be7580b66fd2f7fa4d4abfe5e1ab19470223
Merge: 57a1d9b853 a1d885fdd6
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jan 20 21:21:21 2011 -0800

Merge remote branch 'ajax/for-keithp'

commit 57a1d9b85331f6fe19d5111f5163139572ffbf02
Merge: 24ce650cf4 6423769799
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jan 20 21:16:24 2011 -0800

Merge remote branch 'whot/for-keith'

commit 24ce650cf4f0c6fa72faecd38c53d40703e6c959
Merge: bbdf81a056 09fd010902
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 20 21:11:53 2011 -0800

Merge remote branch 'jturney/jturney-framebuffer-resize-for-master'

commit bbdf81a056be0ea645da17a642dad5eadef3a906
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Jan 18 19:26:20 2011 -0800

Add xorg.conf.d shadow man page pointing to xorg.conf man page

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Tested-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a1d885fdd67503a442b3a486262edf6d22419e8
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jun 23 13:28:55 2010 -0400

resource: Fix indentation

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit cb61cf5c99004ba3c76b504220c6728b5f2d2de6
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 15 18:36:55 2010 -0400

resource: Remove expectID hack

This is clearly meant to short-circuit the (modestly) expensive resource lookup in LegalNewID. The problem is that long-lived clients will eventually run completely through their XID space and start asking XC-MISC for IDs to reuse. Once that happens, the comparison against expectID will always be true, and we'll no longer catch XID collisions at all.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3282e3c627f97f079e3a9af756a6b13bd9a5f227
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Apr 15 08:46:28 2010 -0400
resource: s/NullResource/NULL/g

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f953ae7d8a578d135a6faaff09d9c06ae7c85ede
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 14 14:38:10 2009 -0500

os: Reduce smart scheduler setup calls

We can return from WaitForSomething with no clients ready for any number
of reasons. There's no reason to set up the scheduler timer when this
happens.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d127075da06239852c1cc745abfe63d0d180d984
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 20 19:03:33 2011 -0500

xdmconfig: warning fix

xdmconfig.c: In function ‘dmxConfigCanvasDraw’:
xdmconfig.c:299:23: warning: ‘maxHeight’ may be used uninitialized in this function

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7a08f9abe17219fadbab8d1d49e83af042e36a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 20 18:59:39 2011 -0500

dmx: warning fixes

dmxinputinit.c: In function ‘dmxBlockHandler’:
dmxinputinit.c:610:44: warning: cast from pointer to integer of different size
dmxinputinit.c: In function ‘dmxWakeupHandler’:
dmxinputinit.c:637:41: warning: cast from pointer to integer of different size
dmxinputinit.c: In function ‘dmxInputInit’:
dmxinputinit.c:1041:36: warning: cast to pointer from integer of different size

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ffd323b7c0212ed9b348e51cd9b36363d7c4d1f2
dmx: warning fix

dmxinputinit.c: At top level:
dmxinputinit.c:135:29: warning: ‘DMXCommonOth’ defined but not used

DMXCommonOth is actually mentioned in a #if 0 block, so delete it and the block that references it. If anyone needs it, git remembers.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c1fe0b155d0567440228aa5d9e36036f37670e3b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 20 18:52:57 2011 -0500

dmx: warning fix

dmxgc.c: In function ‘dmxChangeClip’:
dmxgc.c:386:5: warning: case label value exceeds maximum value for type
dmxgc.c:387:5: warning: case label value exceeds maximum value for type
dmxgc.c:388:5: warning: case label value exceeds maximum value for type
dmxgc.c:389:5: warning: case label value exceeds maximum value for type

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit b02e006b2733ea457df41791f6054309e4edf7f6
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jan 20 18:46:00 2011 -0500

dmx: warning fixes

Dear gcc: I do not care about machines where sizeof(void *) <
sizeof(int), and neither should you.

dmxextension.c: In function ‘dmxBECreateResources’:
dmxextension.c:858:26: warning: cast from pointer to integer of different size
dmxextension.c: In function ‘dmxBERestoreRenderPict’:
dmxextension.c:1062:29: warning: cast from pointer to integer of different size
dmxextension.c: In function ‘dmxBERestoreRenderGlyph’:
dmxextension.c:1084:35: warning: cast from pointer to integer of different size
dmxextension.c: In function ‘dmxAttachScreen’:
dmxextension.c:1277:8: warning: cast to pointer from integer of different size
dmxextension.c:1286:34: warning: cast to pointer from integer of different size
dmxextension.c:1292:35: warning: cast to pointer from integer of different size
xkb: after making changes to the xkb ctrls, copy them back into kbdfeed.

enabledCtrlsChanges nowhere near the usual event or config paths. So this condition always evaluated to false and the memcpy would thus never been hit. As a result, any modification to the XKB struct during XkbUpdateDescActions was not reflected in the kbdfeed ctrls. The flag that is set by XkbUpdateDescActions() if ctrls were changed are in enabledCtrls.

This mainly affected keyboard repeat control as XKB uses the kbdfeed ctrls, not XKB's perKeyRepeats, to determine if a key needs to be repeated. Thus, adding a "repeat= False" to the XKB map of any action did not have any effect.

Test case:
assign Mode_switch to any key that by default repeats, e.g. the menu key.

    key <COMP> {         [     Mode_switch ] };  

Then modify the Mode_switch action to not repeat the key.

    interpret Mode_switch+AnyOrNone(all) { 
        virtualModifier= AltGr;  
        useModMapMods=level1;  
        action= SetGroup(group=+1);  
        // Add this line  
        repeat= False;  
    };  

Though the flags are correctly reflected in the description loaded in the server, the change is not handed back to the kbdfeed struct and XKB will trigger softrepeats of this key.

This patch also adds two explanatory comments and an extra check, as this path may be hit before the CtrlProc for the kbdfeed struct is set.
Red Hat Bug 537708 <https://bugzilla.redhat.com/show_bug.cgi?id=537708>

Also fixes broken auto-repeat of the backspace key in the colemak layout (mapped to CapsLock).

X.Org Bug 16318 <http://bugs.freedesktop.org/show_bug.cgi?id=16318>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Dirk Wallenstein <halsmit@t-online.de>
Reviewed-by: Dirk Wallenstein <halsmit@t-online.de>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f1326ed2910bd985fafdb48714b1d6f38116b083
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 13 09:19:28 2011 +1000

xkb: Replace a few manual bitflips with SetBit & friends.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dirk Wallenstein <halsmit@t-online.de>

commit 16eb4f2a7b67ee169785973f9e0a3773e13fdea6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 7 09:53:35 2011 +1000

Xi: reset remainders when warping the device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 09fd010902fad56735b8069b1beeb80d85bd6a35
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Sep 29 22:54:22 2010 +0100

Cygwin/X: DirectDraw engines shouldn't try to blit if the surface wasn't allocated

Fix winShadowUpdateDD(|NL) so we don't try to blit to primary surface if it didn't get allocated

(Intel drivers, in particular, seem to like to issue a WM_DISPLAYCHANGE during a suspend/resume cycle, but not allow surface to be allocated right then)

Also:
Use winReleasePrimarySurfaceShadowDD(|NL) in winFreeFBShadowDD(|NL) rather than open coding it
Don't mess about recreating surface if we're going to resize it anyhow

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
commit 625ab9701fd75b879c1dafe05fa979591eea87c0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 31 13:45:43 2010 +0100

Cygwin/X: Simplify and consolidate reporting of the bpp value we are going to use

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 3f7339a7c5d3dcd05909b041865125f4cb6fa29e
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 31 10:13:01 2010 +0100

Cygwin/X: Deal with RANDR depth changes correctly in ShadowGDI drawing engine
Make ShadowGDI drawing engine only change the size of the screen pixmap/shadow framebuffer on an RANDR change, not the bpp/depth as well.

The server requires the screen pixmap's depth to be invariant.

Other drawing engines aren't quite as affected by this issue as they won't draw to the display, if it has changed colour depth, but probably still need some attention.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 8b22f83113fbdc09b932b5ad7e44f629fc15e3b5
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Aug 30 17:17:57 2010 +0100

Cygwin/X: Use winUpdateFBPointer() in winshadddd.c rather than duplicating it inline

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 8385c426f86e9955e9e570a46f75bdd3c10ca01
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 10 21:55:15 2010 +0100

Cygwin/X: Remove WIN_DIB_MAXIMUM_SIZE check
This is only relevant to pre-NT versions of Windows, which are all EOL.

Also, it's in the wrong place now as framebuffer can get resized.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 981ad1f364cf4fe8008e0f3592eb0f73dd14a118
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 10 16:24:57 2010 +0100

Cygwin/X: Fix a typo in command line argument validation code

Fortunately, these swapped constants are benign as they have the same value, 0

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 5390b494672393506466d8afdb9b146b0e585cc0
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Aug 10 13:16:13 2010 +0100

Cygwin/X: Don't turn off -multiplemonitors when all monitors don't have the same pixel format when using shadow GDI engine

Don't turn off -multiplemonitors when all monitors don't have the same pixel format and when using shadow GDI engine, just warn that performance may be degraded

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 33106e1e807a828208b306512e78c5e3e93960d3
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 30 19:49:41 2010 +0100

Cygwin/X: Generate RANDR change on WM_DISPLAYCHANGE for rootless modes

When RANDR resizing is enabled, generate an internal RANDR change when WM_DISPLAYCHANGE occurs in rootless modes for screens which occupy an entire monitor or the virtual desktop.

Store the monitor number and use that to handle WM_DISPLAYCHANGE for a
screen specified with '-screen @monitor'

In rooted mode, WM_DISPLAYCHANGE isn't relevant (except where display depth changes may cause problems). (A maximized screen window will get WM_SIZE to adjust it to the new monitor size)

In rooted fullscreen mode, WM_DISPLAYCHANGE shouldn't be seen, as we have the resolution we have selected for the fullscreen session)
(Could client randr requests be handled in fullscreen to cause a change of the fullscreen resolution?)

Don't bother do a RANDR resize if the dimensions aren't actually changing when WM_DISPLAYCHANGE is sent (should handle WM_DISPLAYCHANGE to size 0x0 that the intel driver seems to like to send)

Various debug output improvements

Also, remove the note that XWin can't handle display mode changes from the man page

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit bbc511e80b2a9365f6a1528bc1595772f83be654
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Feb 15 13:42:04 2010 +0000

Cygwin/X: Make WM_SIZE use RandR resizing when -resize=randr

To avoid recursion, WM_SIZE requests shouldn't generate XRANDR requests when no change is neeeded.

We do the actual resize on WM_EXITSIZEMOVE, as resizing occurs in a modal loop, to avoid a backlog of resize events building up as the X server doesn't get a change to process anything until the resize is completed.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 85c497a8b6c488e9ea2c6d7b49e6f9b992fb4a2
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 30 20:48:10 2010 +0100

Cygwin/X: Implement framebuffer resizing in RANDR extension
Implement framebuffer resizing in RANDR extension:

Resize the frame buffer, the screen’s root window and the native window containing the root window image.

Correctly allow for decorations in new native window size when resizing native window to fit the new framebuffer size with AdjustWindowRectEx().

Update physical size info for a screen when it is changed by RANDR.

Forbid client-requested RANDR changes in fullscreen and rootless modes.

Only resize window on an external RandR request, to avoid recursing on a WM_SIZE requested resize.

Also, add prototypes for winRandRInit() and winDoRandRScreenSetSize() to header file.

Also, update the author list and copyright for winrandr.c.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 873abef315f5d947b864428891381bff539c5869
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Tue Mar 30 20:07:19 2010 +0100

Cygwin/X: Add -resize command line option

Add -resize command line option to configure how native window sizing frame is used.

In additions to the existing fixed and scrollbars modes, add a new mode to allow framebuffer to be resized using native window frame.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit 46c57788539d8a5f024652b844b88ad4ed6d867d1
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Tue Feb 23 15:44:36 2010 +0000

Cygwin/X: Move QueryMonitor() out of windprocarg.c

Move QueryMonitor() out of windprocarg.c into a new file, winmonitors.c, as we use to use it from other places as well.
Cygwin/X: Remove an attempt at detecting if WM_DISPLAYCHANGE affects the X screen

Remove an attempt at the rather difficult optimization of detecting if WM_DISPLAYCHANGE affects any of the monitors which intersect the native window for the X screen.

We'll always act as if it does, which it probably usually the case.

Cygwin/X: Rather than storing calculated physical display sizes, calculate them when needed

(This stored calculation was wrong if -dpi came after -screen on the command line, anyhow)

Cygwin/X: Refactor framebuffer allocation/release in drawing engines

Refactor the drawing engines so we can explicitly allocate and release the framebuffer for a screen

Move the setting of dwPaddedWidth into the DDNL engine, so it is updated when the framebuffer changes size
Cygwin/X: Enable building of nativegdi and primaryfb engines to avoid further rusting

Some trivial build fixes required

Also fill out all function pointers for primaryfb engine

Also tidy up the man page section describing drawing engines.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

Author: Alan Coopersmith <alan.coopersmith@oracle.com>

xkb/ddxLoad.c doesn't need <paths.h> any more

Was previously used for _PATH_VARTMP, but that was removed in 534fc5140b039a8c98ab715d0a6740d513b41209

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

Author: Gaetan Nadon <memsize@videotron.ca>

commit 65ceaadbf0f0b65f1962cb96d5b87d1175f85a3b
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Sun Jan 9 20:28:31 2011 -0500

Xquartz: rename man page directory from doc to man
Following the convention makes it easier to locate man pages, user's or developer's documentation and specifications.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7ed0d426f616fe9e44ac7091622a798f2043dfe4
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:28:30 2011 -0500

xfree86: use sed rather than cpp to perform string substitutions

Makefile.am: there are only 4 string substitutions to be done in this file.
SED is much simpler than the C pre processor which adds its own
strings which must be substituted by sed, still.

xorgconf.cpp: replaced __xconfigfile__ with xorg.conf as this file name
is hard coded in the xs server configuration and cannot change.
Replace XCOMM with # permanently.

Delete cpprules.in as it isn't used anywhere else. Should one need
 cpprules for real cpp work, there is one in Xquartz from which the
the old man pages code have been stripped.

Fix trailing spaces.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 885a3330092c13786baa3aaab728c71962486c4
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:28:29 2011 -0500

man: refactor common code in the man pages makefiles

Create a manpages.am makefile snippet in the root dir.
Each man page makefile includes manpages.am.

Now all man pages in xs server are generated the same way
using the same method as all of other xorg modules.
All ".man.pre" files in git are ".man" now.
Links are no longer created between different file types.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c86f7c2b8eedd3126066a3aff44bc8767eb5e277
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:28:28 2011 -0500

Xdmx: build all man pages using XORG_MANPAGE_SECTIONS

Use standard directory and makefile.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9bd9d550a0d6fb4fe3daacb604658de92e69d99c
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:28:27 2011 -0500

exa: build man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man) means no need for .gitignore
Use standard directory and makefile
Fix trailing whitespaces

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d4b1fd3ff66d1a3e44a85aed34d9a01e0e0d37fd
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:28:26 2011 -0500

fbdevhw: build man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man) means no need for .gitignore
Use standard directory and makefile
Fix trailing whitespaces

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit b9276cb86b433bc740fe26c2e624d3d5399732f6
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:53 2011 -0500

  XFree86 utils: build utils man pages using XORG_MANPAGE_SECTIONS

  Nothing requires the use of a C preprocessor
  Using standard file extensions (.man) means no need for .gitignore
  Use standard directory and makefile
  Fix trailing whitespaces

  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Reviewed-by: Rémi Cardona <remi@gentoo.org>
  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit ac5ffef60e05eb05275913b133786709881e7e7e
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:52 2011 -0500

  Xephyr: build Xephyr man pages using XORG_MANPAGE_SECTIONS

  Nothing requires the use of a C preprocessor
  Using standard file extensions (.man) means no need for .gitignore
  Use standard directory and makefile
  Fix trailing whitespaces

  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Reviewed-by: Rémi Cardona <remi@gentoo.org>
  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9240cffd659b1c13d66162200c6e384ea1cdbe44
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:51 2011 -0500

  Xvfb: build Xvfb man pages using XORG_MANPAGE_SECTIONS

  Nothing requires the use of a C preprocessor
  Using standard file extensions (.man) means no need for .gitignore
  Use standard directory and makefile
  Fix trailing whitespaces

  Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
  Reviewed-by: Rémi Cardona <remi@gentoo.org>
  Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
  Signed-off-by: Keith Packard <keithp@keithp.com>
commit 3f4c71799b3164440624d09b7b631d3d3c0a29ef
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:50 2011 -0500

XWin: build XWin man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man) means no need for .gitignore
Use standard directory and makefile
Now can be built easily on any platform in the man directory

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b8492e18a7e5322c4a492f6cf6cfeb5b0221d994
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:49 2011 -0500

Xnest: build Xnest man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man) means no need for .gitignore
Use standard directory and makefile

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 57ca20d26614a0787cdd0db91a2eb8cde301f2dc
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:48 2011 -0500

Xquartz: strip the man page code from cpprules.in

This is dead code which will not be used in the future.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c06c46acdc2ead20a6030118fad6092b3da6709f
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:47 2011 -0500
Xquartz: build Xquartz man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man)
Use standard directory and makefile

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a9e85013b1045c7e02891a019bfa8042a219b7f1
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:46 2011 -0500

man: build Xorg and xorg.conf man pages using XORG_MANPAGE_SECTIONS

Nothing requires the use of a C preprocessor
Using standard file extensions (.man) means no need for .gitignore
Use standard directory and makefile

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit dcdd8ea82c0e2f657abde80a22aa0c01ead07e54
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jan 9 20:27:45 2011 -0500

Xorg.man: fix whitespace issues

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d9225b9602e85603ae616a7381c784f5cf5e811c
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Nov 10 22:39:54 2010 +0100

glx: validate numAttributes field before using it

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
commit 62319e8381ebd645ae36b25e5fc3c0e9b098387b
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Aug 22 16:20:45 2010 +0100

glx: swap the request arrays entirely, not just half of them

Various glx requests include a list of pairs of attributes. We were only swapping the first half.

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 6c69235a9dfe52e4b4e47630ff4bab1a820eb543
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Aug 22 00:50:05 2010 +0100

glx: check request length before swapping

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit ec9c97c6bf70b523bc500bd3adf62176f1bb33a4
Author: Julien Cristau <jcristau@debian.org>
Date: Sat Jul 3 19:47:55 2010 +0100

glx: validate request lengths

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 3f0d3f4d97bce75c1828635c322b6560a45a037f
Author: Julien Cristau <jcristau@debian.org>
Date: Sat Jul 3 19:42:26 2010 +0100

glx: make sure screen is non-negative in validGlxScreen

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 82b1eaa0cad20f39dbf15573dbd624ac9d91f9
Author: Tom Fogal <tfogal@alumni.unh.edu>
Date: Wed Dec 22 14:39:48 2010 -0700
Autodetect TLS support instead of defaulting to disabled.

Uses the AX_TLS macro to figure out if the current platform supports TLS. If it does, enable TLS automagically. Still respects --enable option, regardless.

Signed-off-by: Tom Fogal <tfogal@alumni.unh.edu>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 93393411e39fbb0f72cf6c2f79ebde177aa86932
Author: Tom Fogal <tfogal@alumni.unh.edu>
Date:   Wed Dec 22 16:03:03 2010 -0700

Add macro for detecting thread local storage support.

This adds an AX_TLS macro which attempts to identify if the underlying compiler/platform supports thread local storage (TLS). The macro comes from the autoconf macro archive.

Signed-off-by: Tom Fogal <tfogal@alumni.unh.edu>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 60801ff8703ec36995139a6dd7b1fc26ae8854a6
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Tue Nov 23 11:38:50 2010 -0800

xfree86: Convert libxf86config to static libtool library

In order to use libxf86config in a shared library, all the code must be compiled with -fPIC. Add proper PIC support for libxf86config by turning it into a libtool library. However, since we don't want to guarantee API or ABI stability, make sure it's only built static.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Acked-by: Gaetan Nadon <memsize@videotron.ca>

commit 8456625d64bb0013a496f3b56ea3aa20cf7a6142
Merge: aa30a86583 ce74e7562d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 7 09:35:07 2011 +1000

Merge branch 'for-peter' of git://people.freedesktop.org/~daniels/xserver into for-keith

commit aa30a86583c3fc1a83c46e8c7583182d750edcde
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Sun Aug 1 21:28:18 2010 +0200
NO_PANORAMIX preprocessor symbol is nowhere defined

Which makes it useless, so remove it.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who.t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who.t.net>

commit fc6cbee772baeabf7ddd7a75043bd55bb78ad09e
Author: Peter Hutterer <peter.hutterer@who.t.net>
Date:   Thu Jan 6 12:58:00 2011 +1000

input: add valuator_mask_free() to free a valuator mask.

Expecting the caller to free the mask requires us to keep it in a single
memory block (which may be an issue lateron), aside from leaving the API
asymmetrical. Provide valuator_mask_free() to free the memory and reset the
mask pointer to NULL.

Signed-off-by: Peter Hutterer <peter.hutterer@who.t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4fbadc8b17237f3c7f8e0bf56003d1139c86655e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jan 6 11:32:26 2011 +1000

Input: Prevent MD grabs from wandering on to other MDs

The code to set sync.other in DeliverGrabbedEvents is supposed to reset
sync.other for a paired MD to the grab under consideration, but was
rather optimistic in resetting sync.other for _all_ devices.

This would fall apart given two sets of MDs (A paired with B, Y paired
with Z), where both MDs were in FREEZE_BOTH_NEXT_EVENT due to being
called with SyncBoth, where no event had yet triggered the grab. An
event being processed on MD A would result in B, Y and Z all having
sync.other set to A's grab, rather than just B.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who.t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who.t.net>

commit e65c3f8bcc86845f21ac575e2bf4b21b67d5ebf
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jan 5 12:04:19 2011 -0500

dix: Add a Screen method for additional cursor confinement
This just reserves the slot in the ABI. Confining cursors to CRTC's will come soon.

v2: Just reserve the slot.

Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ce74e7562dcc800306ff92b6d3c5ee885cd4763d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 7 11:48:14 2010 +0000

Input: Make CheckPassiveGrabsOnWindow return grab, export

Change CheckPassiveGrabsOnWindow to return the GrabPtr it used (or NULL if none) rather than a boolean, and export it. Also add an additional boolean 'activate' parameter; use TRUE for existing behaviour, or FALSE to only find the grab and then return it.

This will be used in forthcoming touch patches to find the grabs, rather than open-coding same.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eb5aaf5eb819f1287ce40da79edbe07bafb2b5c0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 28 12:15:28 2010 +0000

Input: Export GetEventMask

Make it non-static, add to headers.

Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 30c8c7a86310139e79c9698caee21b3bd51936bd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 28 12:13:29 2010 +0000

Input: Handle grabs with no Xi 1.x equivalent

Don't try to search for an Xi 1.x grab in CheckPassiveGrabsOnWindow for events with no Xi 1.x equivalent.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Input: Pass sprite instead of device to **XYToWindow**, make non-static

XYToWindow calculates the position of the cursor and updates the sprite trace, but does nothing else with the device. Pass a SpritePtr instead so we can update an alternate focus instead of hardcoding the device's sprite. Also make this function non-static, so we can use it elsewhere.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Input: Pass sprite instead of device to **FixUpEventFromWindow**

Since FixUpEventFromWindow only uses the sprite trace to determine the window stack, pass in a sprite instead of hardcoding the device sprite, so we can deliver to windows other than the one currently containing the sprite.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

Input: Make **RootWindow()** take a sprite instead of device

GetCurrentRootWindow already works for the device case, although not as an lvalue.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Date: Mon Dec 27 12:48:42 2010 +0000

Input: Export SpriteRec for use in public API

Change its definition to be more in line with other structs, so we can use it from input.h.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 06a103ad1d6a0ef6146c97a8c81dc7de1c0a0083
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Dec 28 16:37:48 2010 +0000

Test: Input: Test up to supported server, not protocol, events

When building against a newer inputproto, the server may support fewer than XI_LASTEVENT events. We already have XI2LASTEVENT for the highest event number supported by the server, so use that instead.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit a083efe8715e8b29c9bd7f4e7b429a94620bfc4
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Dec 28 16:06:29 2010 +0000

Test: Input: Check flags on DeviceEvent

Add initial validation of acceptable flags for XI2 device events, and make sure they're swapped.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2592effef5f171af3f01a2b5130d9747403140f6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Dec 28 13:42:06 2010 +0000

Test: Input: Add helper function for failing EventToCore

We have quite a few tests which involve checking that EventToCore fails for specific events, so refactor them into a separate function.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Input: Swap flags in DeviceEvents

Swap flags for different-endian clients when delivering XI2 DeviceEvents.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e1aed88be92c27d76bff1743f35f9915dea9264f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Dec 28 17:00:29 2010 +0000

EXA: Pad size of system memory copy for 1x1 pixmaps (bug #32803).

 Fixes https://bugs.freedesktop.org/show_bug.cgi?id=32803.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f3480286aeab3009623d8d4b0202eadda0049552d
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Wed Jan 5 20:41:09 2011 +0200

composite: Support updating an arbitrary subtree

Rename compUpdateWindow to compPaintWindowToParent and split the child walk to compPaintChildrenToWindow. Calling compPaintChildrenToWindow allows an arbitrary subtree to be updated, instead of having to update all the windows. This will be used to make sure all the descendants are copied to the parent when the parent window contents need to be accessed in IncludeInferios sub-window mode.

WindowRec has a new member 'damagedDescendants' that is used to keep track of which subtrees need updating. When a window is damaged, 'damagedDescendants' will be set for all the ancestors, and when a subtree is updated, the tree walk can be stopped early if no damaged descendants are present.

CompScreenRec no longer needs the 'damaged' member since the root
window's 'damagedDescendants' provides the same information.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b89e6dbdfbb50c3b5bc7fcb7ecce397c467c92f8
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Wed Jan 5 20:41:08 2011 +0200

composite: Add SourceValidate wrapper

When SourceValidate is performed on a window with IncludeInferiors sub-window mode, force an immediate update of all the automatically redirected windows, so that the current window contents will be up to date.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 84154954db54696d4661eb8d0a6014c6bf3e91f
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Wed Jan 5 20:41:07 2011 +0200

composite: Add GetImage wrapper

When GetImage is performed on a window, force an immediate update of all the automatically redirected windows, so that the current window contents will be up to date.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a5dc3531e14589ac473cea482944d2d67517aabd
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Wed Jan 5 20:41:06 2011 +0200

Revert "composite: Convert compWindowUpdate to use TraverseTree"

TraverseTree visits the parent before the children. When performing the automatic redirection updates, the children must be visited before the parent.

If there are automatically redirected windows on multiple levels of the tree, updating the parents before the children would cause the parent
updates to use stale data for areas covered by the children. Also
updating the damaged children would re-damage the parent, which would
cause additional walks over the tree.

In the worst case with an unbroken chain of automatically redirected
subwindows, all of which are damaged, only the leaf window would be
properly updated on the first round. Then its parent would be properly
updated on the second round, and so on. And on every round all of the
ancestor windows would be updated as well, but with stale data.
So with N damaged windows you would end up with (N^2+N)/2 updates,
instead of the expected N.

This reverts commit 648c8871c92727d7b6b16859f27f12266a06a16e.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0998574699502e6ab14fd8899c2e42961d4df7d0
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Wed Jan 5 20:41:05 2011 +0200

Call SourceValidate even if src == dst

The extra SourceValidate calls from damageCopyArea and damageCopyPlane
can be removed.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e41e907b3c19908f5316346fa587ced3115478cd
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Wed Jan 5 20:41:04 2011 +0200

Add subWindowMode parameter to SourceValidate

Pass the subWindowMode from the GC/source Picture to SourceValidate.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0dede200e9ac7adbe8b8c16efacc3edc1f183cd9
Merge: 7714357f50 2e781457d4
X Sync Cleanups

Various cleanups identified during review of the X Sync Fence Object patches.

- Correctly handle failure of AddResource()

- Don't assert when data structures are corrupt. Instead, use a new helper function to check for counter sync objects when they're expected, and warn if the type is wrong.

- Use the default switch label rather than reimplementing it.

- Re-introduce cast of result of dixAllocateObjectWithPrivate() to kill an incompatible pointer type warning.

- Remove comments claiming protocol updates are needed. One wasn't true and the other was addressed with a xextproto change.

- Return BadFence, not BadCounter from XSyncAwaitFence()
edid: Fix incorrect timings for VIC61

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Anssi Hannula <anssi.hannula@iki.fi>
Signed-off-by: Zhao Yakui <yakui.zhao@intel.com>

Commit bb18f277156c08be028a6e12d8987fb1593e9168
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 10 14:24:02 2010 -0500

x86emu: Fix more mis-decoding of the data prefix

cc2c73ddcb4370a7c3ad439cda4da825156c26c9's three-cent titanium tax
doesn't go too far enough. Fix the rest of the call and jmp
instructions to handle the data prefix correctly.

Volume 2A: Instruction Set Reference, A-M


Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

Commit 261d0d16af797bb52d4c778e220296d7f2b28e14
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Dec 30 16:08:48 2010 -0800

Fix asprintf typo in commit d2c42b10

Reported-by: Jerome Carretero <cj@zouglob.eu>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Commit c6afe64bad7a27ff8828de499d56776c113df60f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Dec 31 03:15:27 2010 +0000

XFree86: Linux: AGP: Fix void-pointer-arithmetic warning

Cast it to a char *, mimicking the return immediately below it.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

Commit 2d67ada3c4079a11c52024a9c3d4138becca5171
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
os: always check if client is local when connection is accepted

LocalClient is used for all DRI2 requests that makes it frequently called function. Querying if connection is local or not takes 10-15us (on ARM) depending on malloc speed.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 617b7d22115ccaaaa7ec69c99885054d33a3bc37
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:42 2010 +0200

os: Fix a memory leak

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 3e1455505addc7e52178fa04399aef2a8522c921
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:41 2010 +0200

udev: Fix removing of the wake up handler

RemoveBlockAndWakeupHandlers requires caller to pass same block data parameter as for RegisterBlockAndWakeupHandlers.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 13ac3deedbb532b39f41dcd45d70f9eb4a85c1f58
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:40 2010 +0200

mi: Only register sprite block handler when needed

miSpriteBlockHandler takes about 10us in arm each time BlockHandlers are called. To eliminate that overhead from xserver side only register the BlockHandler when there actually is any cursor down.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 4f6e3b0f378d7306dbd8c00ef9a7df81e24e5769
mi: Register sprite damage handler only when required

There is no need to have damage handler registered when there isn't any pointer in the screen. This avoids some overhead from damage handling which takes tens of microseconds on arm.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit bf48082f30818b96bc623834be3022600371d4fc
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Dec 30 19:19:38 2010 +0200

mi: Fix the debug message

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8fb43b8bf9fcb015d4e98c7e09889184d136a1e
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Dec 30 19:19:37 2010 +0200

mi: Fix wrapping for sprite screen

SCREEN_EPILOGUE should read the current function pointer from screen after calling wrapped function in case the pointer changes.

Passing pPriv to macros instead of asking dix each time makes sense when both macros need same pointer.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 4be2a6d1b33fac7ceb50ad1de249a1acd5a46ab0
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Dec 30 19:19:36 2010 +0200

mi: Add GetSpriteScreen macro to hide dixLookupPrivate

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ed8db09b4bff5b4a8d8056808368650e1876547b
composite: Remove unnecessary variable.

We know that there is damage if the dynamic block handler is registered.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c038b8b28e5c436cf31bea7a3bef2c8e9d818b58
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:34 2010 +0200

composite: Only register the block handler when it is required

Even calling block handler that doesn't do much is costly in arm. It takes a few microseconds each time which adds up to relative high CPU time because it is done 500+ times per second.

Simple optimization is to register the block handler only when it is required.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 6d0e9e5d6e1b847961ab52a11aae96981a1cf1c0
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:33 2010 +0200

render: Enable animated cursor block handler only when needed

Calling BlockHandlers takes some time for each iteration in main loop which adds up quickly over multiple request. To reduce the round-trip costs to xserver BlockHandlers should be registered only when required.

AnimCurScreenBlockHandler is the first victim for this optimization.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit aa8cea953dc66bfc4cb4d08f26819ef6eb1bc8c5
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Dec 30 19:19:32 2010 +0200

render: Don't filter 0 return from GetTimeInMillis

In animate cursor block handler code assumes GetTimeInMillis returns
always nonzero value. This isn't true when time wraps around.

To prevent any problems in case GetTimeInMillis would return zero use activeDevice variable to track if we have received time.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 91beee05f88eed10ab0fd97d625e96cb7763ba
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Oct 13 16:27:30 2009 +1100

DIX: Reset window properties when freeing them

This enables us to reliably inspect properties when destroying windows.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 36ebdd361616eedbe4919deae2a4e6f606a6b4
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:24 2010 -0400

linux: warning fix

lnx_agp.c: In function ‘xf86DeallocateGARTMemory’:
lnx_agp.c:267: warning: cast to pointer from integer of different size

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 63ccaec2c39f4b574238472c951ee2cd35c9e14
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:23 2010 -0400

glx: warning fixes

render2.c: In function ‘__glXDisp_Map2d’:
render2.c:127: warning: ‘u1’ may be used uninitialized in this function
render2.c: In function ‘__glXDisp_Map1d’:
render2.c:90: warning: ‘u1’ may be used uninitialized in this function

Remove unnecessary test, and change memcpy to memmove as all users were doing overlapping copies.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit d057e265c862f90e9b6fddff89f40cb82b2a59b1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:22 2010 -0400

cmcisc: warning fix

cmcisc.c:202: warning: no previous prototype for ‘XCMiscExtensionInit’

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 67e0bcba4307de5a330e027f4504c9aed4987e5a
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:21 2010 -0400

dri: warning fix

dri.c: In function ‘DRIScreenInit’:
dri.c:434: warning: cast from pointer to integer of different size

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a298d044f965e5ba911f178c6b599c1df26a958ba
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:20 2010 -0400

loader: warning fix

loadmod.c: In function ‘FreeSubdirs’:
loadmod.c:377: warning: passing argument 1 of ‘free’ discards qualifiers
from pointer target type
/usr/include/stdlib.h:488: note: expected ‘void *’ but argument is of
type ‘const char *’

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ee0b1b564413327c73bb8cdbab76667ca4a744c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 19 11:59:18 2010 -0400

config: warning fixes

xf86AutoConfig.c: In function ‘FreeList’:
xf86AutoConfig.c:123: warning: passing argument 1 of ‘free’ discards
qualifiers from pointer target type
/usr/include/stdlib.h:488: note: expected ‘void *’ but argument is of
type `const char *`

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 32c85ad4b8fe27fed0c494f69c39e3902ce57b1b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 28 12:40:31 2010 +0000

GLX: DRI2: Fix mismatched-types warning

All the DRI extension types have a base extension type as their first
member to avoid exactly these types of warning.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit 22796cfa4805cc9551e1b3fa1d3e2e1bfae5bad1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 28 12:29:53 2010 +0000

udev: Add strdups to kill const warnings

InputAttributes wants non-const members, and while it appears safe to
cast it, just leave it be for the moment.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 03f2eb1e156796ac9a8d7771f60ace61beed026
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 17 17:13:34 2010 +0000

Input: Set client error value for invalid mask bits

When we send BadValue back to the client for having invalid mask bits,
at least tell them what the (first) invalid bit was.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 47818287983b04625661b08ae362e0966cd03e1
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Dec 17 17:13:30 2010 +0000

Make EventIsDeliverable non-static
Will be used outside dix/events.c in proceeding XI 2.1 MT changes.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f7d8ade3c5ac44faf7f3ea0d84e35f75b31c9ec
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 17 17:13:26 2010 +0000

Resources: Move rClient to resource.h

The definition of rClient was duplicated across three source files, so
move it to resource.h.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 05e437c2ce230b588362f012c06ead5c6d89c006
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Dec 17 17:13:27 2010 +0000

Export all valuator_mask_* functions

Input drivers may use valuator masks for internal state. Having all the
valuator_mask_* functions available will help.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Bump ABI_XINPUT_VERSION minor.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2e781457d43ec4bf0d633257ac6852cde3b00541
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Thu Dec 16 18:22:13 2010 +0200

xfree86/modes: Take rotation into account when checking mode size

Assume that a mode can be used in either landscape or portrait
orientation. I suppose the correct thing to do would be to
collect all the supported rotations from the CRTC s that can be used
with a specific output, but that information doesn't seem to be
readily available when these checks are done. So just assume that
either orientation is fine.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
dri2: Don't page flip when the window size doesn't match the pixmap size

If the drawable size doesn't match the pixmap size page flipping should
not be allowed.

If the window is larger than the pixmap, page flipping might need to
reposition the CRTC somewhere in the middle of the pixmap. I didn't
spot any code that would handle that at least in the intel driver.

Also the root pixmap could then move to some negative screen
coordinates. Not sure if all bits of code could handle that. Perhaps
when composite is enabled screen_x/y would make it work, but without
composite there's no way that it would work AFAICS.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit efcb63d0ce43f96d0ac02b6f4a480dfd2374fc84
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Dec 23 13:33:00 2010 +0000

Render: Fix 'comparing between distinct pointer types' warning

Add the appropriate casts so that gcc shuts up, even if it doesn't
matter.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 469d5bf8b75038631c27edbb0f9cdf7d737fa233
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Dec 17 16:48:45 2010 +0000

mi: Sync: Don't free managed screen private

misync allocates space for its screen private with
dixRegisterPrivateKey, which means it doesn't have to free it at
CloseScreen time; doing so will, in fact, result in a crash.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: James Jones <jajones@nvidia.com>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
GetTimeInMillis: Use CLOCK_MONOTONIC_COARSE where available

On some systems, using CLOCK_MONOTONIC forces a readback of HPET or some similarly expensive timer. CLOCK_MONOTONIC_COARSE can alleviate this, at the cost of negligibly-reduced resolution, so prefer that where we can.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

Xext: Use general OS functions to determine client command string in SELinux.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

os: Add facilities for client ID tracking.

An interface is provided for figuring out the PID and process name of a client. Make some existing functionality from SELinux and IA extensions available for general use.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

config: Fix linking order of Xnest libraries.

MAIN depends on DIX and not vice versa.

Signed-off-by: Rami Ylimäki <rami.ylimaki@vincit.fi>
Revert "os: Prevent backtrace from being stopped in noreturn functions."

This reverts commit 579715f830fbbe9e1ebc17de18176132f5969e7.

The patch is not needed anymore. I haven't encountered backtrace problems with GCC 4.3.3. Even if the problems still persisted, this commit should be removed and instead the definition of _X_NORETURN should be modified to be empty if GCC/ARM is used. However, currently it seems that ARM backtraces are OK even if _X_NORETURN is used and -mapcs-frame is not defined in CFLAGS.

Signed-off-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Input: Set client error value for invalid mask bits

When we send BadValue back to the client for having invalid mask bits, at least tell them what the (first) invalid bit was.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Make EventIsDeliverable non-static

Will be used outside dix/events.c in proceeding XI 2.1 MT changes.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Resources: Move rClient to resource.h
The definition of rClient was duplicated across three source files, so move it to resource.h.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 871c1e17e527857cd86b5e517d9a18e5041f00fd
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Dec 17 17:13:27 2010 +0000

Export all valuator_mask_* functions

Input drivers may use valuator masks for internal state. Having all the valuator_mask_* functions available will help.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Bump ABI_XINPUT_VERSION minor.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e06fa804009798ea95efa8babaabb0228dfdfe65
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Wed Dec 22 11:45:36 2010 +0100

EXA: Fix crash with fill using 1x1 tile of depth < 8 (bug #24703).


Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 56d9c736f0c450bffd43300107689eb6dd1ea70b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Dec 16 14:26:10 2010 -0500

xfree86: Convert some xf86BlockSIGIO to OsBlockSignals

The DDC1 and int10 code are blocking SIGIO to get some assurance that their usleep() calls take as long as they expect. That's a good start but you really want to be blocking more than just SIGIO, SIGALRM too at minimum.

At this point, except for SIGIO handler setup itself, BlockSIGIO really means "block input events".
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  34950

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ce13a1dbbfeee3a3d51d0385817df50944cfdee
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Dec 16 14:03:13 2010 -0500

xfree86: Remove xf86EnterServerState

Back when we had RAC this was a vaguely meaningful thing. Since then it's been a glorified (and confusing) wrapper around xf86BlockSIGIO.

Note that the APM and VT switch code are unusual relative to other code that cares about SIGIO state. Most callers push a SIGIO disable to create a critical section for the duration of the caller's stack frame, but those two effectively disable SIGIO after their return and re-enable on their next entry.

Reviewed-by: Tiago Vignatti <tigo.vignatti@nokia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a04e74c4b480f98bc3dd4def2da6f6752640d9e38
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Dec 15 15:16:33 2010 -0500

xfree86: Symmetrize xf86AccessEnter and xf86AccessLeave

Enter was changing server operating state, Leave wasn't. Which was wholly redundant, since all callers of Enter would immediately change the operating state to exactly what Enter had just done.

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7a9062f2f209b4f911ba56f291375fbbf5a98ca73
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 14 15:44:16 2010 -0500

fonts: Fix typo in async ListFonts logic

This was introduced in 3ab6cd31cbdf8095b2948034f6f6752640d9e38. Mea culpa. This logic is still incorrect [1], but at least it's less incorrect.


Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Remove SCO support

This has never been buildable in any modular server release.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

xfree86: Remove unused xf86inSuspend

What is this, I don't even.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

randr: check for virtual size limits before set crtc

Return a error if the screen is configured to an invalid size.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>
Add EDID quirk for HP Compaq nc8430.

Like some other LPL panels, this one reports the vertical size in cm rather than mm.
Patch taken from Launchpad bug #380009 <https://launchpad.net/bugs/380009>

X.Org Bug 28414 <https://bugs.freedesktop.org/show_bug.cgi?id=28414>

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a2e67a6412386782cb8b644b86a5744591397d45
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Mon Dec 6 11:24:01 2010 +1100

IDLETIME: Fix edge-case in IdleTimeBlockHandler

Ensure that if we're called exactly on the threshold of a NegativeTransition trigger that we reschedule to pick up an idle time over the threshold.

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b55bf248581dc66321b24b29f199f6dc8d02db1b
Author: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Date:   Mon Dec 6 11:24:00 2010 +1100

Xext: Fix edge case with {Positive, Negative}Transition triggers.

The {Positive,Negative}Transition triggers only fire when the counter goes from strictly {below,above} the threshold. If SyncComputeBracketValues gets called exactly at this threshold we may update the bracket values so that the counter is not updated past the threshold.

Signed-off-by: Christopher James Halse Rogers <christopher.halse.rogers@canonical.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d5b0d5873ff6f90ea70273cd013102168fd2a18a
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Dec 16 22:29:37 2010 -0800

Bug 32436 - hw/xfree86/parser/Makefile.am TOP_SRCDIR should be top_srccur
Fix typo introduced in 2416255f7e3f3d9190a9 that breaks builds when configured --enable-install-libxf86config

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Tested-by: Simon Thum <simon.thum@gmx.de>

commit 058b889fde47b4c32534f11ed651bf1749d1dbb2
Author: David Barksdale <david.barksdale@adcedosolutions.com>
Date:   Mon Dec 13 18:35:20 2010 -0800

Bug 21827: faulty sdksyms.c generated by the awk script in sdksyms.sh

Signed-off-by: David Barksdale <david.barksdale@adcedosolutions.com>
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 1324b0ca9f8a7fda03b374c75eb3c9df407c2f1
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Dec 10 00:08:24 2010 +0000

Typo in xserver Xvasprintf()

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit f1542f1df716723eca7c323849086585635121893
Merge: 9716d31247 8a8fdd762a
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 14 15:04:12 2010 -0800

Merge remote branch 'whot/for-keith'

Signed-off-by: Keith Packard <keithp@keithp.com>

Merge remote branch 'jeremyhu/master'

Signed-off-by: Keith Packard <keithp@keithp.com>

Author: Gaetan Nadon <memsize@videotron.ca>
docs: replace BUILD_DOCS with existing ENABLE-devel_DOCS

Use the util-macros AM Conditionals to control generation of developers documents. This is used throughout xorg modules.

The doxygen generated docs are now also managed by --enable-devel-docs.

Remove --enable-build-docs as this was last use for BUILD_DOCS

*** From the RELEASE NOTES ***

New configure options for documentation in modules

As many more modules now contain documentation to be converted from DocBook XML to text, HTML, PostScript, and/or PDF formats, new standard options have been added to the configure macros to control the build of these in the modules.

--with-xmlto=yes|no
   Enables or disables use of the xmlto [https://fedorahosted.org/xmlto/] command to translate DocBook XML to other formats. All DocBook XML conversions require use of this command.

--with-fop=yes|no
   Enables or disables use of the Apache fop [http://xmlgraphics.apache.org/fop/] command to translate DocBook XML to PostScript and PDF formats.

--enable-docs=yes|no
   Enables or disables the build and installation of all documentation except traditional man pages or those covered by the --enable-devel-docs and --enable-specs options.

--enable-devel-docs=yes|no
   Enables or disables the build and installation of documentation for developers of the X.Org software modules.

--enable-specs=yes|no
   Enables or disables the build and installation of the formal specification documents for protocols and APIs.

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c78c71c3a872665e426a0a4b82f17007bd8c12cd
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Dec 7 16:31:54 2010 -0500

hw/dmx/doc: DIST_SUBDIRS not required when using AM_CONDITIONAL

The makefile can be simplified as Automake handle this automatically.
All directories in SUBDIRS are visited for dist purposes.

www.gnu.org/software/automake/manual/automake.html#SUBDIRS-vs-DIST

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8a8fdd762ad89c350854943311ec4aadc50245fa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 13 11:28:30 2010 +1000

xfree86: always report the input options before initialising the device.

After collecting the driver's default options, report the list of options
set for the device before calling PreInit(). This helps with debugging those
cases where options are not merged correctly.

xf86OptionListReport reports with verbosity 5, higher than the default
verbosity so this won't generate logspam in the default case.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Simon Thum <simon.thum@gmx.de>

commit 9db9e964f6ca553dcbdb3b7b037745d9581eaa065
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 10 13:23:13 2010 +1000

xfree86: swap the order to-be-merged lists in xf86CollectInputOptions.

Current order causes the user-configured option list to be overwritten with
the default list supplied by the driver. Swap around so we overwrite the
driver's default values instead.

This only affected options supplied by the driver such as XkbLayout in the
case of evdev.

Reported-by: Sebastian Glita <glseba@yahoo.com>
Reported-by: Simon Thum <simon.thum@gmx.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Sebastian Glita <glseba@yahoo.com>

commit 0d44a1c6e219cd39dbddd2b7e813c6431aac6ea
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 8 14:52:19 2010 +1000
dix: allow for button-only input devices (#21457)

Add a few checks for the existence of a valuator class on the device to avoid null-pointer dereferences for button events from devices without a valuator class.

X.Org Bug 21457 <http://bugs.freedesktop.org/show_bug.cgi?id=21457>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit f641e4b34aa91ecda29e546b8b975e72ce037ed0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Dec 8 22:58:12 2010 -0800

XQuartz GL: Add $(GL_CFLAGS) to CFLAGS

This fixes a build failure I found on tinderbox.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9cf055892dd413932e54b43cc2dfe470ba1d525f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 8 14:43:51 2010 +1000

xfree86: don't set movement flags for non-valuator events.

If a device doesn't send valuators, don't try to move its position.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit aba8133c9c5a50753c388d76407868ac69f4134b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 8 14:02:17 2010 +1000

dix: clear up an overly convoluted if statement.

No functional changes, just improves readability. This statement had things added to/removed from it for a few server releases while the input event queue was revamped. What made sense once is now mainly confusing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 883039e07b0c0ef23c7fe4ba3455b41173c7a7fc
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Dec 8 13:27:41 2010 -0800

XQuartz: Just NSBeep() for XBell()

The CoreAudio path uses deprecated API and has reported crashes that aren't worth fixing (4e8bf12b13690afa6d9fee0e339d3819ef16fb3f fixed one and introduced another). NSBeep() does the job just fine.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2c70b650b342378898064cf27e2f95c4b2e53d24
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Dec 8 18:54:30 2010 +0000

Fix Xwin build after af0f9f91

Fix damage to XWIN_LIBS in commit af0f9f913398d34a885c3fb4e8d40c1a7e2b3ee9
"Move some sync code to miext", which broke the XWin build

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison at virgin.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 519d243f0c8e3c80226701f71d2ca62e42dbff7
Merge: 9f9c732311 446482efaa
Author: Keith Packard <keithp@keithp.com>
Date: Tue Dec 7 13:39:58 2010 -0800

Merge remote branch 'alanc/master'

commit 446482efaa3d266266e2a143492a3ec0523622bd
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 28 09:41:17 2010 -0800

Convert cvt code to use XNFasprintf()

Requires linking xprintf.c into standalone cvt utility

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit d2c42b102707db6c1ca9dccc4de9210a43650cb1
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Nov 27 23:10:46 2010 -0800

Replace alloc+strcpy+strcat with asprintf() & XNFasprintf() calls
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 3a9bb93dd178084f4ff1abceea331ca5a62f88ce6
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 22:38:27 2010 -0800

Convert alloc+sprintf pairs into asprintf() & XNFasprintf() calls

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 2416255f7e3fd9190a9e01bda57c992932de4bd9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 22:36:44 2010 -0800

Convert hw/xfree86/parser code to use asprintf() calls

Requires linking xprintf.c into libxf86config for those who build it.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 03e8bfa1d122f7dea905d48ec93cf54af9d91df
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 20:09:04 2010 -0800

Convert existing Xprintf style calls to asprintf style

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit c95c1d338fdb62dbe3d8b934b97324fa778b7f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 18:43:12 2010 -0800

Add asprintf() implementation for platforms without it

Provides a portable implementation of this common allocating sprintf() API found in many, but not yet all, of the platforms we support.
If the platform provides vasprintf() we simply wrap it, otherwise we implement it - either way callers can use it regardless of platform.

Since not all platforms guarantee to NULL out the return pointer on failure, we don't either, and require callers to check the return value for -1.
The old Xprintf() API is deprecated, but left for compatibility for now.

The new API is added in a new header so that it can be used in parts of the server such as hw/xfree86/parser that don't include all the server headers.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 2db6951763115a4a5dfac53d1a8f78ac33f91235
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri Dec 3 16:32:01 2010 -0800

Sun's copyrights now belong to Oracle

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit f06e8a61d6ed8f3054878167bffe619f852aad9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Tue Nov 30 16:34:38 2010 -0800

Move inclusion of panoramicX headers to top of render.c

Fixes compiler error from Sun compilers due to _X_EXPORT declaration being included after the unlabeled version:

"../Xext/panoramicXsrv.h", line 29: redeclaration must have the same or more restrictive linker scoping:
XRT_PICTURE

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9f9c732311ef0cc198e5ee44d02412eb7e8c3f3a
Author: Cyril Brulebois <kibi@debian.org>
Date:   Fri Nov 12 21:35:25 2010 +0100

dix: Fix logic for displaying deprecation warning only once.

As pointed out by Jamey Sharp (again), the logic is faulty: --warn is always going to be false. Replace it with warn-- accordingly, so that there's (at least, but also only) one warning showing up.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit a937803c1f671ef29332e5fe8c190d8b48239912
dix: Simplify deprecated *Lookup* wrappers around dixLookup*.

As pointed out by Jamey Sharp: “the result pointer is already guaranteed to be NULL if the return value is not Success”, so get rid of the variable used to catch the return value, and used in a ternary operation to decide whether to return the pointer or NULL. Always return the result pointer instead.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

Replace SecurityLookupIDByClass() with dixLookupResourceByClass().

This patch has been prepared with the following Coccinelle semantic patch:

@@
expression a, b, c, d;
identifier r;
type t;
@@
- r = (t) SecurityLookupIDByClass(a, b, c, d);
+ dixLookupResourceByClass((pointer*) &r, b, c, a, d);

The only occurrence not matching directly was processed after separating declaration of pXinDraw and call to SecurityLookupIDByClass().

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

Replace SecurityLookupIDByType() with dixLookupResourceByType(), take 2.

These occurrences are a bit harder to catch through a semantic patch, so process them “manually”.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>
commit ac04c1377a42ab6803adf551756653fd8e1a694b
Author: Cyril Brulebois <kibi@debian.org>
Date:   Fri Nov 12 11:36:31 2010 +0100

Replace SecurityLookupIDByType() with dixLookupResourceByType(), take 1.

This patch has been prepared with the following Coccinelle semantic patch:

@@
expression a, b, c, d;
identifier r;
@@
-r = SecurityLookupIDByType(a, b, c, d);
+dixLookupResourceByType((pointer*) &r, b, c, a, d);

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 28b4c02d7463ffe5c29f803f5656c5ecfc040185
Author: Cyril Brulebois <kibi@debian.org>
Date:   Thu Nov 11 18:36:45 2010 +0100

Enable silent rules for cat and echo.

One gets this:

| GEN  lf3-xaaBitmap.c
| GEN  lf3-xaaBitmap.c
| GEN  lf3-xaaBitmap.c
| GEN  lf3-xaaBitmap.c
| CC   lf3-xaaBitmap.lo

instead of this:

| echo "#define LSBFIRST" > l3-xaaBitmap.c
| echo "#define TRIPLE_BITS" >> l3-xaaBitmap.c
| echo '#include "../../../../hw/xfree86/xaa/xaaBitmap.c"' >> l3-xaaBitmap.c
| CC   l3-xaaBitmap.lo

Occurrences found using:

| git grep -E '(cat|echo)' -- '*Makefile.am'

Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit 838b9582280030a159878af566126cb0a523ec29
Author: Cyril Brulebois <kibi@debian.org>
Date:   Thu Nov 11 15:40:13 2010 +0100

Replace LookupIDByType() with dixLookupResourceByType(), take 2.
These occurrences are a bit harder to catch through a semantic patch, so process them “manually”.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit ffb93533fd8067c7383ae5e0018a197af59b46c
Author: Cyril Brulebois <kibi@debian.org>
Date:   Thu Nov 11 15:30:15 2010 +0100

Replace LookupIDByType() with dixLookupResourceByType(), take 1.

This patch has been prepared with the following Coccinelle semantic patch:

@@
expression x, y;
type t;
identifier r;
@@
-r = (t) LookupIDByType(x, y);
+dixLookupResourceByType((pointer*)&r, x, y, NullClient, DixUnknownAccess);

@@
expression x, y;
type t;
identifier r;
@@
-t r = (t) LookupIDByType(x, y);
+ r;
+dixLookupResourceByType((pointer*)&r, x, y, NullClient, DixUnknownAccess);

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Cyril Brulebois <kibi@debian.org>

commit d1b45b0fd54efb952f9ff435a516c1bfd85ca186
Author: Cyril Brulebois <kibi@debian.org>
Date:   Thu Nov 11 11:35:47 2010 +0100

Fix missing <string.h> include.

The following happens otherwise (with -Wall -Werror):
| In file included from /usr/include/X11/Xfuncs.h:47,
|   from ../../../include/misc.h:112,
|   from ../../../include/screenint.h:52,
|   from ../../../include/scrnintstr.h:52,
|   from ../../../dix/cursor.c:58:
| /usr/include/string.h:534: error: conflicting types for ‘xstrcasemp’
Fix GLX_LIBS vs. DMX_LIBS order.

If glxproxy needs symbols which aren't pulled in by dmx itself, glxproxy fails to link because of undefined references.

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 14983286c489ea1ec6ba4fadbeae5c2d2ee34e1
Author: Keith Packard <keithp@keithp.com>
Date: Mon Dec 6 20:45:35 2010 -0800

Version bumped to 1.9.99.901 (1.10 RC1)

Signed-off-by: Keith Packard <keithp@keithp.com>

Commit d96d5f5443358e33e47d1a61f9bd2af8d8064a8dd
Author: James Jones <jajones@nvidia.com>
Date: Sun Dec 5 19:42:41 2010 -0800

Bump extension ABI to 5

Commit 606e079cc4d9a9db3197652ca51683c36f74efb8 moved the visual field in WindowOptRec, breaking the extension module ABI.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 435361bd73b9fc733f093d81af6b839953e35176
Author: Keith Packard <keithp@keithp.com>
Date: Mon Dec 6 20:38:14 2010 -0800

sync: syncObject may be None in SyncInitTrigger

And often is, especially when called from ProcSyncCreateAlarm.
Crashing in this case seems unwise.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0d01b66df9081ef48843b3bad81c56bb2cd1ae69
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 5 23:35:28 2010 -0800

randr: handle RRSetCrtcConfigs request with zero configs

Need to actually return a reply in this case.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit b0f4bd6f0ca80f3be9a176f1f7a707bc6628d8
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 5 21:53:25 2010 -0800

ProcRRSetCrtcConfigs uses 'configs' without being initialized

If the client sends invalid data for this request, the server will jump to 'sendReply' and call RRFreeCrtcConfigs, passing it the uninitialized 'configs' and 'num_configs' values.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 752c368421c1c824752cf467fba9318d75d2ca2c
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 5 20:57:47 2010 -0800

Separate out screen size and screen pixmap sizes in RRScreenSizeSet

This provides for separate sizes for the screen scanout and rendering buffer and the application-visible screen size.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit a88d70fb20a2b3152b84adff4380857e6cfadf5
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Dec 5 20:55:46 2010 -0800

Set sprite transforms from RRSetCrtcConfigs

These were getting ignored.
DIX is responsible for ref counting scanout pixmaps.

Remove some extra ref counting inside hw/xfree86/modes

randr: Hook up the new RandR 1.4 functionality

This bumps the supported RandR protocol version and adds the dispatch hooks needed to call the new functions

randr: Add per-crtc pixmaps

This adds new driver hooks to allocate scanout pixmaps and changes the mode setting APIs to pass the new scanout pixmaps along from DIX. DIX is responsible for reference counting the pixmaps by tracking them through RRCrtcNotify.

hw/xfree86/modes: Add optional driver API for RRSetCrtcConfigs

This provides a driver hook which can either completely replace, or just validate the parameters for, the RRSetCrtcConfigs request.
randr: Implement RRSetCrtcConfigs

This provides a driver-independent implementation of the RRSetCrtcConfigs API by simply using the existing interfaces.

randr: Add sprite position transforms

This implements sprite position transformations. Sprite image transforms are passed all the way to the DDX layer, but the images are not yet manipulated before being passed to the drivers.

Require RandR protocol version 1.4 or newer

Replace huge argument list in xf86CrtcSetModeTransform with struct

xf86CrtcSetModeTransform was starting to get ridiculous with 6 arguments, this change has it take a single structure that contains all of those values along with a set of flags that says which have changed.
Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit f5b8bd620f91214c0b87e9b04d57015655792352
Merge: 0e9fa7da3 8127c83c81
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 6 19:51:06 2010 -0800

    Merge remote branch 'jajones/for-keith'

commit 0e9fa7da389fc7ab834b4234b848451444b7f4
Merge: 79870dbf72 68a1b0de95
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 6 19:45:11 2010 -0800

    Merge remote branch 'whot/for-keith'

commit 79870dbf72d463cf9e0ea1b3e61d1d5759df27b5
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Dec 4 16:13:29 2010 -0500

    config: build Xserver man pages using XORG_MANPAGE_SECTIONS

    Nothing requires the use of a C preprocessor
    Using standard file exentions (.man) means no need for .gitignore
    Use standard directory and makefile
    Fix man page whitespace issues

    Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
    Reviewed-by: Matt Dew <matt@osource.org>
    Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit c4a7a5917ab828d4a0bd825a98e4d641bcb378f1
Merge: 5de312a60d 714b68d9e5
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 6 19:28:07 2010 -0800

    Merge remote branch 'jeremyhu/master'

commit 5de312a60d8227ed670849ecf888ea878aa81430
Merge: 311cad3315 8f42b2b693
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 6 19:22:52 2010 -0800

    Merge remote branch 'alanc/master'

commit 8127c83c81bf64369a8ba2999088226d14e0b128
Expose Sync Fence Object protocol

Add the new protocol handlers for XSync 3.1 to the dispatch tables and report support for Sync protocol version 3.1.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

Add XSyncAwaitFence() handler

-Add the actual ProcSyncAwaitFence() dispatch func

-Add support for fence sync triggers.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

Create/Destroy/Trigger/Reset/Query Fence Sync objs

Initial server side implementation of fence sync objects. Allows creation, management, and state queries of binary state objects. Currently they are not very useful as there is no way to wait for them efficiently.

The basic trigger operation added here triggers relative to a given X screen's rendering operations. To perform this operation, fence sync objects must be tied to a screen. As Aaron Plattner pointed out, screens are identified but a drawable in X protocol, so a drawable argument is included in XSyncCreateFence(). The screen also could have been specified as part of the trigger operation. However, it is also desireable to associate a screen with fence sync objects at creation time so that the associated screen's driver can allocate any HW-
specific resources needed by the fence object up front.

Signed-off-by: James Jones <jajones@nvidia.com>  
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 53ea965d64bd9563e6bfcc81d04f283d2b85f09d  
Author: James Jones <jajones@nvidia.com>  
Date:   Mon Nov 29 10:09:36 2010 -0800

Require xextproto 7.1.99

Subsequent changes rely on fence sync protocol in the sync extension. This protocol is only complete in xextproto version 7.1.99 and above.

Signed-off-by: James Jones <jajones@nvidia.com>  
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1c4a0db2c6bf0320cb630b84ab87bcfd3801a53d  
Author: James Jones <jajones@nvidia.com>  
Date:   Mon Jun 28 16:10:13 2010 -0700

Add fence sync driver interface

-Add fence sync objects

-Add fence sync devPrivates

-Add a X sync module screen private

-Add wrappable functions to create and destroy fence sync objects

-Give fence sync objects wrappable functions to trigger, test, and reset their 'triggered' value.

-Give fence sync objects wrappable functions to notify driver when adding/removing triggers to/from the sync object.

Signed-off-by: James Jones <jajones@nvidia.com>  
Reviewed-by: Keith Packard <keithp@keithp.com>

commit af0f9f913398d34a885c3f4e8d40c1a7e2b3ee9  
Author: James Jones <jajones@nvidia.com>  
Date:   Mon Jun 28 15:39:04 2010 -0700
Move some sync code to miext

As a precursor to the fence sync object video driver and extension API, move some code from Xext to miext/sync. Most of this is just code to set up the build system to include the new directory. No functional code is added in this change.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 12b65de7db6e3e8bf831914d247da269d01c5fbe
Author: James Jones <jajones@nvidia.com>
Date:   Mon Dec 6 10:11:45 2010 -0800

Factor out generic code from ProcSyncAwait()

In preparation for adding more sync object types that will need Await requests of their own, factor out some setup and finalization code from ProcSyncAwait() into SyncAwaitPrologue() and SyncAwaitEpilogue()

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c66a410d378090f350beb398649e9d9262933785
Author: James Jones <jajones@nvidia.com>
Date:   Mon Jun 28 14:59:01 2010 -0700

Make Await SyncTrigger functions generic

Update all the functions dealing with Await sync triggers handle generic sync objects instead of just counters. This will facilitate code sharing between the counter sync waits and the fence sync waits.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 99daf419a3070c347e0cd29b4a9bae07eca7bd6d
Author: James Jones <jajones@nvidia.com>
Date:   Mon Jun 28 14:51:54 2010 -0700

Create SyncObject base type.
SyncObject is now the base type for SyncCounter. Data to be used by all sync types is stored in the base object. SyncCounter can be safely cast to SyncObject, and a SyncObject can be cast to the correct type based on SyncObject::type.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

Add and use SERVER_SYNC_*_VERSION

Most extensions have a version defined in the protocol headers, and also in the server's protocol-versions.h. The latter defines which version the server advertises support for. Sync wasn't included in protocol-versions.h, and was advertising support for whatever was in the protocol headers the server was built against.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

xfree86: use xf86AllocateInput() for xorg.conf devices too.

Single allocation point for input devices, most notably a single point to reset default values. Without this patch, the file descriptor default was -1 for hotplugged devices and 0 for config devices. Drivers that don't overwrite the default themselves would thus fail if configured in the xorg.conf.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

xfree86: don't overwrite option list (#32115)
Options set in the configuration file were unconditionally overwritten by the server. Merge the already existing options and the new options together instead of just overwriting ones.

Introduced in commit 2199842ed50b3eb40d54146827fc58cae7e873ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Sep 2 10:52:54 2010 +1000

 xfree86: remove extraOptions field from IDevRec.

X.Org Bug 32115 <http://bugs.freedesktop.org/show_bug.cgi?id=32115>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: David Ronis <ronis@ronisp.com.mcgill.ca>

commit 8f3fa8fb0b0a75dac714fc213c034b20595898d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 6 15:44:50 2010 +1000

 xfree86: add option "Floating", deprecate SendCoreEvents and friends.

Some devices should be initialised as floating from the start (e.g. Joysticks and accelerometers benefit from this). Currently users use the "SendCoreEvents" "off" flag for this, which isn't the most appropriate naming.

Add an option "Floating", deprecate the others. Still parsed and handled by the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 36b614dedf4ddc428e43ad1542d4f314f73f60a
Author: Eoghan Sherry <ejsherry@gmail.com>
Date: Sun Nov 28 16:15:51 2010 -0500

Xi: Fix master button update when slave buttons are mapped. #24887

It is currently assumed that an event button delivered to a master device corresponds to the slave button states. However, the event button is a logical (mapped) slave button and slave button states correspond to physical (unmapped) slave buttons. This leads to incorrect update of the master button state and incorrect events delivered to clients. Fix the situation by taking the slave button map into account when querying a slave button state.
mi: handle DGA subtypes when determining the master device.

The subtype in the DGA event is the core type and all ET_ event types (where applicable) are identical to the core types. Thus the switch statement below will work as required and assign the right master device.

Fixes a crasher bug on keyboard devices with valuators. If a device sends a motion event while grabbed and a DGA client is active (but has not selected input through DGA), the valuator event is posted through the VCK and eventually results in a NULL-pointer dereference on dev->valuator.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5d31c3e705dfd9f38f0ffffcd07a6d8d06644735c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 26 09:37:37 2010 +1000

dix: don't stop processing valuators when the mode changes.

XI 1.x events still contain absolute coordinates anyway. By the time we get to the InternalEvent to XI event conversion, the valuators are already absolute.

Stopping because of a different mode on a valuator is not necessary.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 714b68d9e5bf624a6703f168e0f7de980e88e8c0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Dec 3 17:27:44 2010 -0800

XQuartz: RandR: Fix mode changing for multi-monitor configurations.

This just fixes the regression whereby we couldn't switch between the legacy fullscreen mode and rootless on multi-monitor configurations. This was happening because ref wasn't being set in these cases (since we don't ever actually change CG modes), so we failed a CFEqual. Setting the references
fixes this regression and places us one step closer to more mode RandR mode switching in multi-monitor configurations.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 14f00449eb81771c01ffcedf3dd697cdf4e41de
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Dec 3 16:46:11 2010 -0800

XQuartz: Cleanup some compiler warnings

Mark __crashreporter_info__ as __attribute__((__used__))

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 14aec8b82a316c6df51ac2a81985ebf1990abd2b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Dec 3 16:45:37 2010 -0800

XQuartz: Remove one more backing store leftover

See: c4c4676e6874b42c2371eee96faa2c2dbb59a704

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ca431371a23a2b9ad36c1d64e11ea41d5e4f04
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Nov 26 15:31:22 2010 -0500

XQuartz: Disable the Mac OS X screensaver when in full screen mode

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 311cad33155c64ed996418808727fc417168592e
Author: Nicolas Peninguy <nico@lostgeeks.org>
Date: Wed Nov 24 00:11:11 2010 +0100

Fix Xdmx and Xephyr build when DTrace support is enabled

This fixes the following build errors when DTrace is enabled
(--with-dtrace):

    CCLD Xdmx
    /usr/bin/ld: ../os/os.O: undefined reference to symbol 'dladdr@@GLIBC_2.2.5'
    /usr/bin/ld: note: 'dladdr@@GLIBC_2.2.5' is defined in DSO /lib64/libdl.so.2 so try adding it to the linker command line

    CCLD Xephyr
...../os/os.O: In function 'TimerForce':
/home/nico/work/xserver/os/WaitFor.c:481: multiple definition of 'TimerForce'
.../os.os.O:/home/nico/work/xserver/os/WaitFor.c:481: first defined here

Signed-off-by: Nicolas Peninguy <nico@lostgeeks.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3824417335ec00a87b51f8d05e592099b8507680
Merge: dab064fa5e f4f41c812d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 2 08:39:33 2010 -0800

    Merge remote branch 'vsyrjala/xv_reput'

commit dab064fa5e0b1f5c67222562ad5367005832cba1
Author: Andrea Canciani <ranma42@gmail.com>
Date:   Tue Nov 2 20:10:32 2010 +0100

    render: Fix byteswapping of gradient stops

    The function swapStops repeatedly swaps the color components as
    CARD16, but incorrectly steps over them as if they were CARD32.

    This causes half of the stops not to be swapped at all and some
    unrelated data be swapped instead.

    Signed-off-by: Andrea Canciani <ranma42@gmail.com>
    Reviewed-by: Soren Sandmann <sandmann@daimi.au.dk>
    Reviewed-by: Julien Cristau <jcristau@debian.org>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 279ef1fdd787d8ba2f0d5056849b9cb15d36aa3eb
Author: Cyril Brulebois <kibi@debian.org>
Date:   Wed Dec 1 14:12:55 2010 +0100

    Fix screen number checks.

    screenInfo.numScreens is not a valid screen number, they go from 0 to
numScreens - 1.

    Signed-off-by: Cyril Brulebois <kibi@debian.org>
    Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8684543021b9b1aa165b1bc69bc58685cb5942c1
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Nov 30 17:23:10 2010 +0100
DGA: fix screen number check

screenInfo.numScreens is not a valid screen number, they go from 0 to numScreens - 1.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8f42b2b69387b006bfcd373c3d023ebea9035db2
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 22:34:57 2010 -0800

Simplify Error() - don't allocate temporary copy of error string

Doesn't seem to be any reason to just not pass the error string as another argument directly to LogVWrite()

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 685286b17d30335d799a9da11914943e466ea955
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 20:43:28 2010 -0800

FindModuleInSubdir: Stop allocating one more byte than needed

15ac25627c7239629be59 removed the '/' from the sprintf strings, but failed to remove the extra byte allocated for the '/'.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 40d5a019352fa8f12230c863e11cbb1f6258a93e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 19:50:38 2010 -0800

xf86VIDrvMsgVerb: print args, not format string

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 4bbc90cd88b7e749fd8072ce7cd8dd998f4396981
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
xf86AutoConfig: make copyScreen memory allocation & error handling more sane

No point calling the no-fail-alloc if you check for failure and your only caller checks for failure.

No point calling calloc to zero fill memory you're about to memcpy over.

In the unlikely event of a loss of memory allocation, drop your previous allocations before returning to others.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 2c8e534c8e9334562485aeaaef374871cf14d5fe
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Nov 27 23:49:55 2010 -0800

xf86ValidateModes: xnffalloc(strlen) + strcpy => xnffstrdup

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 29e467a1f1548a826ee2793244e3ff416aa1a0f2
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Nov 26 16:53:40 2010 -0800

xf86OutputRename: Replace another strlen/malloc/strcpy set with strdup

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit d346bc3083c6d4bea59b777f634c7c5ec6c1d8cc9
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 28 13:48:16 2010 -0800

Fix compiler warnings in hw/xfree86/os-support/solaris

sun_init.c: In function `xf86OpenConsole':
sun_init.c:99: warning: cast does not match function type
sun_init.c:74: warning: unused variable `FreeVTslot'
sun_init.c: In function `xf86UseMsg':
sun_init.c:417: warning: old-style parameter declaration

sun_vid.c: In function `solUnMapVidMem':
sun_vid.c:162: warning: long unsigned int format, pointer arg (arg 6)
sun_vid.c: In function `xf86ReadBIOS':
sun_vid.c:217: warning: long unsigned int format, pointer arg (arg 5)
sun_vid.c:217: warning: long unsigned int format, int arg (arg 6)

sun_agp.c: In function `xf86EnableAGP':
sun_agp.c:321: warning: unsigned int format, CARD32 arg (arg 4)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit d75777d54c2107163305f50e8ee4306da202b95e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 28 13:45:40 2010 -0800

Move xchomp inside #ifdef __linux__

static function only called from the matchDriverFromFiles function
that's inside #ifdef __linux__ section

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit ccbba444b7b8e1ba555532a847377600bea43d03
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sun Nov 28 10:45:17 2010 -0800

config: Remove AC_PROG_CC, SED & INSTALL that XORG_DEFAULT_OPTIONS provide

Most importantly removes AC_PROG_CC call that resets compiler flags back
to C89 mode, breaking use of C99 isfinite() on Solaris in dix/devices.c.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 92ede0b84cdec164cd698dc74a7512d0791d7708
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Nov 27 08:15:52 2010 -0800

Xserver-spec: Update discussion of font library

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c1e769250078cbbc74d7e6e6ddc5323c4f420ab14
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Nov 27 08:06:40 2010 -0800
Xserver-spec: Update location of log functions

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit deae18f3cad94959110761ef2ecd9665690e3db5
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 00:45:48 2010 -0800

Xserver-spec: Fix assorted typos

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a410bf53798bdca43f99476a01ef27cabd1f73e01
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 00:35:28 2010 -0800

Xserver-spec: Update lists of macros

LOOKUP_DRAWABLE & VERIFY_GC are no longer in dix.h, but WriteReplyToClient & WriteSwappedDataToClient are.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit de518c8f378ea31345c946693d58a26a493af603
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 00:30:37 2010 -0800

Xserver-spec: Remove CreateCallbackList

The function is defined as a static, so can't be called by anyone but AddCallback.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f6c880b257a21a574cf1a47095cb39f32252802e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 00:27:46 2010 -0800

Xserver-spec: Replace deprecated resource id lookup functions
Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 922806a5aa6eafc432d6787495b475aaa3f1790d
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Nov 27 00:14:51 2010 -0800

Xserver-spec: Update Memory Management functions

Xalloc, Xrealloc, & Xfree are deprecated now
ALLOCATE_LOCAL is removed due to stack overflow issues

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 02449ee24b484e9fe3a011df274d95a9f87cab23
Merge: afd6eb66d5 b85f9063c2
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 30 13:30:59 2010 -0800

Merge remote branch 'ajax/for-keithp'

commit afd6eb66d5ef6a59be4c03da4588aaa2ee47b9ad
Merge: b16964910d ffcfbfa0063
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 30 13:28:13 2010 -0800

Merge remote branch 'aplattner/for/keith'

commit b16964910d29c0bd039e8bb48bcf1199d709fe3e
Author: Ferry Huberts <ferry.huberts@pelagic.nl>
Date: Tue Nov 30 19:06:55 2010 +0100

dix: do not use bit-wise operators on the boolean result of BitIsOn

Performing bit-wise operations on a boolean amounts to mixing types, is confusing and basically incorrect; one should only perform logical operations on booleans.

Performing such operations relies on the implementation detail that a boolean is in fact an integer and that its value FALSE is implemented as zero.

Signed-off-by: Ferry Huberts <ferry.huberts@pelagic.nl>
Reviewed-by: Matt Turner <mattst88@gmail.com>
xfree86: Bump classic driver default to 1024x768

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 903e0f6f0f0ec54151640fc459ff03dcb0a522af
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Nov 27 10:46:44 2010 -0800

Xserver-spec: Delete DBE Idioms section

The code has been gone for a while

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Remove unused ReqLen & CastxReq macros

According to Xserver-spec, they were part of the now-deleted DBE "Idioms" code. The last callers of them were removed in commits fe616f9230b6 & 3d642905477f.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: Remove the xf8_16bpp overlay module
Only one (marginal) driver was using it, and it's been fixed to just implement it directly.

v2: Also fix sdksyms.sh (spotted by Jesse Adkins)
v3: Also fix DESIGN.xml (spotted by Julien Cristau)

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a861fe6a1cf56df76928d21707551602289963c1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 30 13:50:42 2010 -0500

vbe: Refuse to believe tiny (or negative) panel sizes from PanelID

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 84a14f8af8f930ef1855444ae4e9e3e14ee008328
Author: David Reveman <davidr@novell.com>
Date:   Wed Jan 6 14:55:48 2010 -0500

composite: add panoramix support

Taken from:
50d2d8c8969c165582d215c6e85c4be9eac02b6a
dbff0d44a33dccc84898c7a891d7ba212f65cbb8
9b5b102163b4eaa1b70647354fca46e461e94c
75f9b98af31abf537ac6616c99f3797db7ba017
07fba8b1777a6bca44ea6568b346a18ce9d1e61d

With minor style fixes, ported to dixLookupResourceByType, and ported away from client->noClientException and xalloc/xfree.

v2: Fix a memory leak in PanoramiXCompositeNameWindowPixmap, spotted by James Jones.
v3: Fix a buglet in PanoramiXCompositeUnredirectSubwindows, spotted by Dave Airlie.
v4: Fix a style issue with resource lookup noted by Jamey Sharp.

Reviewed-by: Dave Airlie <airlied@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 6dea617e0f71a6fc7937e3a1e10474fa87488284
Author: David Reveman <davidr@novell.com>
Date:   Tue Jan 5 15:35:10 2010 -0500

fixes: Add panoramix support
Taken from: 583f4dde81d8d5e9101b0289946e1914ea1ee124

With minor style fixes and ported to dixLookupResourceByType.

Reviewed-by: Dave Airlie <airlied@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 1b3c57f075049250c6d059412af3d6954468a5b7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Aug 20 12:25:23 2010 -0400

xfree86: Remove unused xf86PixmapKeyRec

Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 63b9d67d7f4f1fa108370c619e1d0d06badebd4c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Aug 19 18:40:24 2010 -0400

mi: Remove unused miAllocateGCPrivateIndex

Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 87f5b843a08fd92b4b31c04e36d947b8bc0d160
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 19 16:25:51 2010 -0500

render: Reshuffle and cull dead field from GlyphSetRec

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 606e079cc4d9a9db3197652ca51683c36f74efb8
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 19 16:17:48 2010 -0500

dix: reshuffle WindowOptRec to fill a hole on LP64

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fba5c8154dbc8f8c33801a5a43d7361cd6b54ffe
Author: Adam Jackson <ajax@redhat.com>
dix: Remove unused ChangeSaveUnder hooks

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit c4c4676e6874b42c2371eee96faa2c2dbb59a704
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Nov 19 15:04:09 2010 -0500

dix: Remove the backing store leftovers

Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 48bc8d0dd99284f509bc6de01a8fd24a7bfc69d5
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 6 09:56:56 2010 -0400

render: repack PictureRec

Eliminate the unused dither field, move filter and stateChanges into the
bitfield, and reorder elements to pack holes on LP64.

sizeof(PictureRec)  ILP32  LP64
before:           84  152
after:            72  120

Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ffcbfa0063bdc7c9ad5ac724285c7b6e67044c18
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Nov 15 20:43:18 2010 -0800

xfree86: Fix rotation of 2-color non-interleaved cursor images

When RandR 1.2's transformation code is enabled, it rotates the cursor
image so that it appears upright on a rotated screen. This code
completely mangles 2-color cursors on hardware where the the mask and
source images are not interleaved due to two problems:

1. stride is calculated as (width / 4) rather than (width / 8), so the
expression (y * stride) skips two lines instead of one for every
time y is incremented.
2. cursor_bitpos ignores the `mask` parameter if the hardware doesn't
    specify any of the HARDWARE_CURSOR_SOURCE_MASK_INTERLEAVE_* flags.

To fix this, refactor the code to pass the whole xf86CursorInfoPtr
through to cursor_bitpos and compute the correct stride there based on
the flags. If none of the SOURCE_MASK_INTERLEAVE flags are set, use
the total cursor size to move the `image` variable into the mask part
of the image before computing the desired byte pointer.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Tested-by: Cyril Brulebois <kibi@debian.org>

commit 7ee965a300e9eddcc1acaf9414cfe3e589222a8
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 11 09:16:19 2010 -0400

    linux: Refactor VT switch on {re,}generation and shutdown

    This makes more things fatal than were fatal before, but that's correct;
    if you need the VT, then failing to get it on regeneration means things
    are about to go very very badly.

    Reviewed-by: Julien Cristau <jcristau@debian.org>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0def735c6a9f9ab19acc4b806def6921a702f617f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 11 08:40:33 2010 -0400

    xfree86: Remove dead ifdef's from VT switching

    Reviewed-by: Julien Cristau <jcristau@debian.org>
    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 96a7a7d197d5f96e7aa51928155d4b8d5a115875
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon May 10 18:40:09 2010 -0400

    linux: Don't muck about with tty permissions

    This is not X's job.

    Reviewed-by: Julien Cristau <jcristau@debian.org>
    Signed-off-by: Adam Jackson <ajax@redhat.com>
xfree86: Remove os-support/sysv

Nothing's using it, the SysV derivatives we support have their own custom versions.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 01159ffe4718ba48ab7b16acaffd8008f9803811
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon May 10 18:14:49 2010 -0400

linux: Remove redundant variable

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit a80780a7638f847c3be20e5e0c7fe85e83d9bddd1
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Nov 17 09:03:06 2010 -0500

glx: Remove swap barrier and hyperpipe support

Never implemented in any open source driver. The implementation assumed explicit DDX driver knowledge of how the client-side driver worked, since at the time the server's GL renderer was not a DRI driver. But now, it is, so any implementation of these should be done with additional DRI driver API, like the swap control extension.

Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f4f41c812d2ba5edba7e00d9a4bb10af834b3
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Fri Oct 29 17:34:56 2010 +0300

xfree86/xv: Provide a ModeSet hook

Reput all ports when the display mode or panning has been changed by RandR code. This makes the overlays appear in the correct position on the screen.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit 640e8716e0400e35af7de91efc826fc447ea6745
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Thu Oct 28 18:13:02 2010 +0300

xfree86/modes: Provide a ModeSet hook in ScrnInfo

Add a new hook ModeSet that will be called after display mode is
changed, or after the display has been panned.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit a942534ca3908418c407115c6393263c2fe05931
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Tue Nov 2 16:05:13 2010 +0200

xfree86/xv: Pass all coordinate arguments to ReputImage

Pass all of the src/dst coordinates to ReputImage so that drivers
don't necessarily have to do double bookkeeping.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit 0bef4e94480f2b1157ce5f92fcb0c7dd1585371
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Tue Nov 2 16:23:02 2010 +0200

xfree86/xv: Document VIDEO_CLIP_TO_VIEWPORT incompatibility with reput

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit 5f8ec1ade8b485f48de8c72011409219afad9dd7
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Tue Nov 2 16:04:36 2010 +0200

xfree86/xv: Add some helpful comments about ReputImage

Document the fact that ReputImage is used for stills as well as images.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit b4ebde23d25bef1b891902d75b2db3aad92685b7
Author: Ville Syrjälä <ville.syrjala@nokia.com>
xfree86/xv: Fix ReputImage clipping

PutImage/PutStill respect the GC clip, however ReputImage does not. PutImage/PutStill are supposed to be oneshot operations so ReputImage should never expand the area covered by the clip, instead it should only shrink if the window clip shrinks. So commandeer clientClip into use by ReputImage and initially make it a copy of the original GC composite clip. Whenever ReputImage needs reclipping update clientClip with the newly calculated composite clip.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

xfree86/xv: Remove clipOrg from XvPortRecPrivate

clipOrg never changes except when clientClip changes, so instead of keeping copies of both originals translate clientClip by clipOrg immediately and just keep the translated clientClip.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

xfree86/xv: Factor out the meat of xf86XVAdjustFrame for later reuse

No functional change.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

xfree86/xv: Change the behaviour of AdjustFrame to reput everything

Also reput PutVideo/GetVideo ports in AdjustFrame. This makes the overlay track the screen panning instead of staying stationary in the wrong place.
xfree86/xv: No need to free composite clip in AdjustFrame

Nothing should change in AdjustFrame that would need the composite clip to be recomputed.

xfree86/xv: Change the behaviour of ClipNotify to reput instead of stop

When ClipNotify gets called for a visible window, reput instead of stopping the port. This eliminates nasty overlay flickering that happens during clip changes.

If the window is invisible or if ReputImage isn't supported stop and remove the port from the window as was done before.

xfree86/xv: Allow xf86XVReputOrStopPort() to stop PutVideo/GetVideo ports

Modify xf86XVReputOrStopPort() to allow stopping of all types of ports. Will be useful later.

No functional change.
xfree86/xv: Factor out the meat of xf86XVWindowExposures for later reuse

No functional change.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit 0178173f0579c4b9dd0cf60b9cd3e5d264f86ae4
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Fri Oct 29 16:39:13 2010 +0300

xfree86/xv: Eliminate two open coded copies of xf86XVRemovePortFromWindow

No functional change.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit b02858b5af47d524001ec571737cc92f6af06d3
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Fri Oct 29 16:54:42 2010 +0300

xfree86/xv: Remove useless NULL check from ClipNotify

WinPriv->PortRec should never be NULL as WinPriv itself would be removed from the list when the port is removed from the window.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Luc Verhaegen <luc.verhaegen@basyskom.de>

commit 23e3d1f23318ce69623f91908f888a09a8b74ac2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Nov 26 10:00:49 2010 +1000

dix: remove now unnecessary !! before BitIsOn()

The macro has been changed to do this already, no need for double not-not-ing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 42de91e32a02b6b21ff5c45f465f3349e5822615
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Nov 24 14:20:30 2010 +1000
include: let BitIsOn() return a boolean value.

Simply returning the mask bit breaks checks like
   BitIsOn(mask, 0) != BitIsOn(mask, 1);
as used in 048e93593e3f7a99a7d2a219e1ce2bde9d407807.

The naming of this macro suggests that it should return boolean values anyway. This patch also adds a few simple tests for these macros to make sure they don't accidentally break in the future.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Pat Kane <pekane52@gmail.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4e0f8f666e61390206c42ad2087477a912525bc7
Merge: 400ddf2f58 639600fa7e
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 24 11:47:33 2010 -0800

    Merge remote branch 'whot/for-keith'

commit 400ddf2f58ee673c74d4e8ee829729cd3c75f8e9
Merge: 7250f078c1 e074f745a8
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 24 11:46:18 2010 -0800

    Merge remote branch 'jeremyhu/master'

commit 7250f078c12fd20d5ac9150f54495926e5121461
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Nov 21 14:27:58 2010 -0500

doc: refactor Makefile and xmlrules.in code for reusability

A different approach which requires less variables setting
and internal knowledge of the reused code.
Changing from "install" to "not install" is very easy now.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f33512b70cf0350a62df2ee2287a870d5fe991a8
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Nov 21 14:27:57 2010 -0500

xmlrules.in: use $(top_sourcedir) rather than ../.../...
Relative paths don't always work in distcheck when srcdir not = builddir
include $(top_srcdir)/doc/xml/xmlrules.in

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xmlrules.in: specify the xserver entities dependencies on the target

The generated docs will rebuild when the xserver.ent file changes.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xmlrules.in: use pattern rules to enable dependencies

This will allow a dependency to be specified as done in libX11:

%.html: %.xml $(dist_spec_DATA)
   $(AM_V_GEN)$XMLTO $(XMLTO_FLAGS) xhtml-nochunks $<

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xmlrules.in: no need to setup xmlto flags when configuring --without-xmlto

The AM conditional HAVE_XMLTO should wrap more statements.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

xmlrules.in: no need to setup xmlto flags when configuring --without-xmlto

The AM conditional HAVE_XMLTO should wrap more statements.
xmlrules.in: remove unrequired "@rm -f $@" from doc targets

Unable to find a purpose for this, not used anywhere else but in the font module.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d3c523bd124dc1a3f4539f7f6cd4868adbf25e1
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Sun Nov 21 14:27:52 2010 -0500

doc: HTML file generation: use the installed copy of xorg.css

Currently the xorg.css file is copied in each location where a DocBook/XML file resides. This produces about 70 copies in the $(docdir) install tree for all of xorg.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 504e3010e976ccc008ff48417850b594beaee2ec
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Nov 19 22:09:05 2010 -0800

Xorg.man: Replace XDarwin reference with Xquartz

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 566d09a5cd6452ee2e05e23d2205e7c3aa31f0da
Author: Bill Nottingham <notting@redhat.com>
Date: Mon Nov 15 11:25:14 2010 +1000

xfree86: store the screen's gamma information on init.

This fixes a gamma issue on vt switch observed with KDM. VT switching away and back would result in a black screen. Avoid this by storing the current gamma information on init.

https://bugzilla.redhat.com/show_bug.cgi?id=533217
xfree86: apply gamma settings on EnterVT.
When entering the VT, re-apply the saved gamma settings for each screen.

XQuartz: Remove unused CloseInputDevice stub

dix: add a fixme about a corner-case that should probably be fixed.

dix: fix typo, set the second valuator with the y-axis data.

dix: GetProximityEvents needs to check up to the last valuator
valuator_mask_size() returns the highest valuator set as opposed to the number of set bits (which obviously changes as we unset valuators).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 048e93593e3f7a99a7d2a219e1ce2bdc9d407807
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Nov 23 11:15:52 2010 +1000

dix: when converting to XI 1.x events, use the first_valuator's device mode

Don't stop processing events when a valuator's mode doesn't match the 0th valuator's mode. Instead, start with the first_valuator in the event and keep stacking them on until the first valuator with a different mode is hit.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4f3e670fd28fcee384ff0d4ca7c1ff8d7a872ad
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Nov 23 10:59:52 2010 +1000

dix: when comparing axis modes, compare the bits, not the bytes.

The DeviceEvent's mode field is a set of bits for each valuator, not bytes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6f12934d4ea52f17ac7b21e92f4f929db165f83d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Nov 23 10:58:32 2010 +1000

dix: replace a manual valuator check with valuator_get_mode().

This check was missing the OutOfProximity mask and resulted in the wrong bits being set in InternalEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ebe3ddaf284ad388935da9cba6ad61fa21ce6dd
Author: Simon Thum <simon.thum@gmx.de>
Date: Fri Nov 19 11:09:21 2010 +1000

dix: fix up valuators passed to acceleration code.
test: reduce range of byte-padding macro tests.

Byte padding and conversion is interesting for the range of 0-8 bytes, and then interesting towards the end of the valid range (INT_MAX - 7 and INT_MAX - 3).

Note: this changes the upper range for pad_to_int32() and bytes_to_int32() from the previous (INT_MAX - 4) to (INT_MAX - 3).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit f49ee9074a66883a3e525b0d6e71589123288465
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 5 10:59:52 2010 +1000

test: compare byte padding macros against the expected bytes.

We calculate the expected bytes for each value, let's use it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit b31df0439fe336a43a2355e2f1fb223d86045a05
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Nov 22 15:14:02 2010 +1000

xfree86: add missing linebreak in error message.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Magnus Kessler <Magnus.Kessler@gmx.net>

commit 97b9bb1e2cebb769ef347455d9c7979d19de99f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Mon Nov 22 20:43:14 2010 -0800

XQuartz: Localization Updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit f9fbafa1a071951e89f208bf4928a0bf37b67cfe
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Nov 22 20:41:39 2010 -0800

XQuartz: Remove existing localization files on install to avoid conflicts

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 6eed13ad5998ba80296bb2bb3f89928ee51194a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Nov 22 20:25:33 2010 -0800

XQuartz dri: Don't check CoreGraphics version

The version check is hackish, and I highly doubt anyone using this code is on a version of OS X that predates this support (10.2 has support for it).

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a4698754c1da1cf2ca64add5276d0c6012960504
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Nov 21 10:49:24 2010 -0800

XQuartz: Add pointer debugging

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 31737fff08ec19b394837341d5e3583ec401f5cd8
Author: Chase Douglas <chase.douglas@ubuntu.com>
Date:   Mon Nov 15 11:42:12 2010 -0500

Fix transformAbsolute

transformAbsolute must use old values if valuator mask doesn't have new ones, and it must only set new values if there was a change.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 463841f45aaf1d1227bac652965c9ea337dd527fa
Author: Chase Douglas <chase.douglas@ubuntu.com>
Date:   Mon Nov 15 11:42:11 2010 -0500

Fix GPE Y axis scaling

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
linux: Fix CPU usage bug in console fd flushing

If the vt gets a vhangup from under us, then the tty will appear ready in select(), but trying to tcflush() it will return -EIO, so we'll spin around at 100% CPU for no reason. Notice this condition and unregister the handler if it happens.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

XF86CONFIGDIR is undefined when built with --disable-xorg (#28672)

The 10-evdev.conf file gets installed as /usr/share/X11/10-evdev.conf on platforms that built the server with --disable-xorg like s390/s390x. The definition/installation should be guarded with "if XORG" because it makes sense only when built with xorg.

X.Org Bug 28672 <http://bugs.freedesktop.org/show_bug.cgi?id=28672>
Signed-off-by: Dan Horák <dan@danny.cz>
Acked-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34998
Merge remote branch 'jeremyhu/master'

commit ed547a9fc8a4f5cd95e882b656a376c163eda6d
Merge: 78f94f19aa 84e8de1271
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 15 08:51:27 2010 +0800

Merge remote branch 'adkins/master'

commit 78f94f19aab66a1e5331df0ce29f36e310b4195d
Author: Linus Arver <linusarver@gmail.com>
Date: Sun Oct 17 12:26:01 2010 -0700

Xext: panoramiXprocs: fix typo

This fixes a typo introduced in commit
80b5d3a3264d2c3167e5ac85a3b04af0f3f9e3ce1. The pointer pDst was changed
unintentionally to pWin from a copy/paste error. This resulted in all
QT-based apps and some tcl/tk ones (like fontforge) to crash X 1.9 on
starting up, when Xinerama was enabled.

Bug report: https://bbs.archlinux.org/viewtopic.php?id=106125

Signed-off-by: Elie Bleton <drozofil@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Tested-by: Linus Arver <linusarver@gmail.com>

commit c8998af3eb4a942625912d512087e4eaaf5ede
Author: Cyril Brulebois <kibi@debian.org>
Date: Sat Nov 13 02:05:16 2010 +0100

xfree86: Initialize Pointer and Keyboard.

That helps us get rid of:
  | CC  x86Config.lo
  | x86Config.c: In function ‘T.174’:
  | x86Config.c:1228: warning: ‘Pointer$module’ may be used uninitialized in this function
  | x86Config.c:1097: note: ‘Pointer$module’ was declared here
  | x86Config.c:1228: warning: ‘Pointer$drv’ may be used uninitialized in this function
  | x86Config.c:1097: note: ‘Pointer$drv’ was declared here
  | x86Config.c:1228: warning: ‘Pointer$type_name’ may be used uninitialized in this function
  | x86Config.c:1097: note: ‘Pointer$type_name’ was declared here
  | x86Config.c:1228: warning: ‘Pointer$private’ may be used uninitialized in this function
  | x86Config.c:1097: note: ‘Pointer$private’ was declared here
  | x86Config.c:1228: warning: ‘Pointer$dev’ may be used uninitialized in this function
  | x86Config.c:1097: note: ‘Pointer$dev’ was declared here
  | x86Config.c:1228: warning: ‘Pointer$fd’ may be used uninitialized in this function

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 34999
| xf86Config.c:1097: note: ‘Pointer$fd’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$set_device_valuators’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$set_device_valuators’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$switch_mode’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$switch_mode’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$control_proc’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$control_proc’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$read_input’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$read_input’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$device_control’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$device_control’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$flags’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$flags’ was declared here |
| xf86Config.c:1228: warning: ‘Pointer$next’ may be used uninitialized in this function |
| xf86Config.c:1097: note: ‘Pointer$next’ was declared here |

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 98abac809a024ac3ed9dd0514ca96367f668e05d
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Thu Nov 11 23:06:13 2010 +0000
Fix compilation after input API change
Fix compilation after commit 675f4a8525d29edbad783351e177b15b2f32b2e8
converts winmouse.c to the new ValuatorMask input API, but doesn't
include the required header inpututil.h

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c5975722a95c41b8715a4612fc1c3275f8e9b59e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Nov 13 16:04:10 2010 -0800
XQuartz: Fix make distcheck

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Cyril Brulebois <kibi@debian.org>

commit 7b33ef74738d6a557cb25aeb14693b2a340c0e12
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Nov 13 15:46:16 2010 -0800
dix: Fix make distcheck

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 965e709f2b0b17f1e59e5aeb5e7717fede51ef97
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Nov 11 17:23:33 2010 -0800

XQuartz: Build-fixes for XQuartz for recent input API changes

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fa50670c32637faff6bb91f1206a0e3c17a9bada
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Nov 12 11:48:08 2010 +1000

xfree86: rename allowEmptyInput to forceInputDevices.

This is a more accurate name for the actual functionality than allowEmptyInput. Historically, allowEmptyInput has allowed the server to start with no input devices. Since 1.4 and the introduction of VCP and VCK, there are always two input devices present.

allowEmptyInput was changed in behaviour to essentially "ignore xorg.conf devices or not", auto-adding the built-in devices if disabled.

Rename to forceInputDevices, because that's essentially what it does. When disabled (i.e. when hotplugging is enabled), it disables all mouse/kbd/vmmouse devices configured in the xorg.conf file. When enabled, it forces the traditional behaviour for input devices:
- use input devices configured in the server layout
- if none are configured, use the first pointer and the first keyboard device in the xorg.conf
- if none are configured, create the default pointer/keyboard devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit c481dae0dc89d8d50cac23210023d75bfa6012b
Author: Cyril Brulebois <kibi@debian.org>
Date: Thu Nov 11 23:55:55 2010 +0100

test: Fix missing xkbsrv.h include.

Otherwise, building fails with CFLAGS="-Wall -Werror" this way:

```
| protocol-common.c: In function ‘init_simple’:
| protocol-common.c:159: error: implicit declaration of function ‘XkbInitPrivates’
| protocol-common.c:159: error: nested extern declaration of ‘XkbInitPrivates’
```
Signed-off-by: Cyril Brulebois <kibi@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b8114f25b266624c8f73d03c710349f98693d877
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 12 08:32:05 2010 +1000
dix: fix typo in setting valuator modes (#21548)

X.Org Bug 31548 <http://bugs.freedesktop.org/show_bug.cgi?id=31548>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Cyril Brulebois <kibi@debian.org>

commit 5cd11d2356d153840f1b429b68284367f8dc468
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 9 17:10:57 2010 +1000
Xi: move property reset from extension shutdown to init.

If any part of the stack calls XIGetKnownProperty during device shutdown
the property is re-initialized before the server generation resets, leaving
the value invalid again.

Move the reset to the extension init which happens before input devices are
initialized before the first property is requested.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit da66119593b63ef82ae6fa2e034ccd0856b03a80
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Nov 10 21:48:04 2010 +0200
dix: fix root window background behaviour for protocol calls

Instead always paint root tiled (-retro like), protocol calls
(XSetWindowBackgroundPixmap and related) should behave accordingly when None
and ParentRelative is set as background pixmap.

It follow what the protocol states: "changing the background of a root window
to None or ParentRelative restores the default background pixmap".

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Rami Ylimäki <rami.ylimaki@vincit.fi>

commit 8976e9766edfb33f5cf3f6d54f09e46d29bc4ec5
dix: adds support for none root window background

It lets the driver notify the server whether it can draw a background when
'background none' option is used by the system platform. Use cases for that
could be video drivers performing mode-setting in kernel time, before X is up,
so a seamless transition would happen until X clients start to show up.

If the driver can copy the framebuffer cleanly then it can set the flag
canDoBGNoneRoot), otherwise the server will fallback to the normal behaviour.
The system must explicit indicate willingness of doing so through
'background none'. We could do this option as default; in such case,
malicious users would be able to steal the framebuffer with a bit of tricks.

For instance, I can see the content of my nVidia Quadro FX 580 framebuffer
old X session modifying a bit nV driver:

    xf86DPMSInit(pScreen, xf86DPMSSet, 0);

    /* Clear the screen */
    if(pNv->xaa) {
      /* Use the acceleration engine */
      pNv->xaa->SetupForSolidFill(pScrn, 0, GXcopy, ~0);
      pNv->xaa->SubsequentSolidFillRect(pScrn,
          0, 0, pScrn->displayWidth, pNv->offscreenHeight);
      G80DmaKickoff(pNv);
    } else {
      /* Use a slow software clear path */
      memset(pNv->mem, 0, pitch * pNv->offscreenHeight);
    }
    pScreen->canDoBGNoneRoot = TRUE;

The commit is originally based on discussions happened on xorg-devel:

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Rami Ylimäki <rami ylimaki@vincit.fi>
Acked-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit bfe9cdd11bcb60cf33dc48136eb0e028001a737e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Oct 20 17:54:58 2010 -0200

dix: delete logo hack screen saver
Protocol doesn't mention about screen saver with logo being required and people are already using more intelligent ways to draw screen saver themes. So consider -logo as deprecated option, deleting its code.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 84e8de1271bb11b5b4b9747ae4647f47333a8ab7
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Nov 10 21:37:24 2010 -0800

fb: Remove fbmap.c (bug 5436)

This is obsolete since a240c039c47c0be22ea5e100692307b26d938747.
Updated fb.h to mention that the functions come from fbmap_mi.c now.
Dropped fbmap.c from the makefile.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 23e329b5641ef044c34ae712e9193171eaf47198
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Nov 10 21:35:58 2010 -0800

xfree86: parser: Remove 'CUSTOM' flag option in Monitor section.

Not used in the initial import, and also not documented.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 88cb61e1e55c54982b90c2a77465faaac6a0ba89
Merge: 19f43836d1 4ed4915bc0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Nov 11 12:54:46 2010 +1000

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-api

Conflicts:
    dix/getevents.c
    hw/xfree86/common/xf86Xinput.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4ed4915bc0fbeb9b4419ca4a0d4e43c2f0e032ae9
Merge: 291c39dfe9e1bf6e69
An estimated 100% (rounded down to the nearest percent) of the people who have this in their configuration don't actually know what this option does. Protect the users from themselves.

IIRC, AEI on was useful for some time between 1.4 and 1.5 and never since.

"You will probably want to add the following option to the ServerFlags of your xorg.conf:
   Option "AllowEmptyInput" "True"

I can't imagine why you would want to do that. My life is painful enough already.
shadow: Optimize shadowUpdatePacked(). (#26973)

Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Soren Sandmann <sandmann@daimi.au.dk>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c9e0f93f8ed42413a05193ee71c69fa6b41f6a03
Merge: 73f6de1ad8 4132b1c591
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 10 16:11:29 2010 -0800

Merge remote branch 'whot/for-keith'

commit 73f6de1ad8b5e1641102b54ff48a36ebb99cacb
Merge: 333b6ed26e 3dc3ae6bb88
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 10 16:02:22 2010 -0800

Merge remote branch 'sandmann/fbdelete'

commit 333b6ed26e36735ef72f314a3f8c4ec565af223f
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Thu Oct 28 20:46:23 2010 -0700

Set DamageSetReportAfterOp to true for the damage extension

Change the damage extension reporter to queue up events after we chain to the wrapped functions. Damage events are typically sent out after the rendering happens anyway, since we submit batch buffers from the flush callback chain and then flush client io buffers. Compositing managers rely on this order, and there is no way we could reliably provide damage events to clients before the rendering happens anyway.

By queueing up the damage events before the rendering happens, there's a risk that the client io buffer may overflow and send the damage events to the client before the driver has even seen the rendering request. Reporting damage events after the rendering fixes this corner case and better corresponds with how we expect this to work.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
(cherry picked from commit 8d7b7a0d71e0b89321b3341b781bc8845386def6)
[anholt: re-applied to revert the revert, now that the cause of the revert is fixed]
Replace usage of DamageRegionAppend with DamageDamageRegion to fix reportAfter.

In all these cases, any rendering implied by this damage has already occurred, and we want to get the damage out to the client. Some of the DamageRegionAppend calls were explicitly telling damage to flush the reportAfter damage out, but not all.

Bug #30260. Fixes the compiz wallpaper plugin with client damage changed to reportAfter.

os: Fix BigReq ignoring when another request is pending

Handle the long read case by subtracting the smaller of 'needed' and 'gotnow' from oci->ignoreBytes. If needed < gotnow, simply subtract the two, leaving gotnow equal to the number of extra bytes read. Since the code immediately following the (oci->ignoreBytes > 0) block tries to handle the next request, advance oci->bufptr immediately instead of setting oci->lenLastReq and letting the next call to ReadRequestFromClient do it.

Fixes the XTS pChangeKeyboardMapping-3 test.
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cc2c73ddcb4370a7c3ad439cda4da825156c26c9
Author: Luc Verhaegen <libv@skynet.be>
Date:   Sun Oct 24 23:57:06 2010 +0200

x86emu: fix jump_near_IMM to handle DATA: flag correctly.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=24348

Before (data flag ignored -> broken):
  66  DATA:
  e944f1  JMP  1ff6

After (fixed):
  66  DATA:
  e944f1ffff  JMP  00001ff8

This subtle difference in the length of decoded instruction meant
that the VBE call jumped to the routine setting AX=0x14F (VBE Failed)
instead of the routine that set AX=0x4F (VBE success).

The ability to run the same code in vm86 significantly aided the
debugging of this issue. Those X.org developers who would like to drop
vm86 better take special care towards _all_ vesa bugs, as those will
expose further issues.

Patch applies easily to even xservr 1.4.2.

Signed-off-by: Luc Verhaegen <libv@skynet.be>
Tested-by: Luc Verhaegen <libv@skynet.be>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit be7cf14c365c8ee0d69c4335e01316bcfcb69a4
Author: Siddhesh Poyarekar <siddhesh.poyarekar@gmail.com>
Date:   Tue Oct 26 09:11:53 2010 +0530

mi: Integer overflow for dashed lines longer than 46340. #31093

Lines of length greater than 46340 can be drawn with one of the
coordinates being negative. However for dashed lines, miPolyBuildPoly
overflows the int type when setting up edges for a section of the
dashed line. This results in the dashed segments not being drawn at
all.

Signed-off-by: Siddhesh Poyarekar <siddhesh.poyarekar@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Do not trap access to timer and keyboard

Disable timer/keyboard trapping on GNU/Hurd for now

Trapping disabled for now, as some VBIOSes (mga-g450 notably) use these ports, and the int10 wrapper is not emulating them.

It's effectively what happens in the Linux variant too, as iopl() is used there, making the ioperm() meaningless.

os: include dix-config.h, not xorg-config.h

os/strlc{at,py}.c were trying to include xorg-config.h, which is not available in dix.

DRI2: Avoid call to NULL pointer

DDX driver may implement schedule swap without GetMSC. In that case we
can't call GetMSC in DRI2SwapBuffers.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
CC: Keith Packard <keithp@keithp.com>
CC: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 68e4a628d65312df93cc71f3e76241584c4bbd23
Author: Cyril Brulebois <kibi@debian.org>
Date:   Wed Nov 10 15:28:29 2010 +0100

Remove more superfluous if(p!=NULL) checks around free(p).

This patch has been generated by the following Coccinelle semantic patch:

@@
@ expression E;
@@
- if (E != NULL) {
  - free(E);
- }
+ free(E);

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b142b0d27442191d628762604f4eb1f65263d717
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Nov 8 23:35:33 2010 +0100

Remove more superfluous if(p!=NULL) checks around free(p).

This patch has been generated by the following Coccinelle semantic patch:

@@
@ expression E;
@@
- if (E != NULL)
  - free(E);
+ free(E);

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Remove more superfluous if(p) checks around free(p).

This patch has been generated by the following Coccinelle semantic patch:

@@
expression E;
@@
- if (E)
-   free(E);
+ free(E);

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove superfluous if(p!=NULL) checks around free(p); p=NULL;

This patch has been generated by the following Coccinelle semantic patch:

@@
expression E;
@@
- if (E != NULL) {
-   free(E);
( - E = NULL;
| - E = 0;
) - } + free(E); + E = NULL;

Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9e999d18b004b8ead9c6c5d79b4a3d4bbf0e3152
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 5 12:08:11 2010 +1000

Xi: if XTEST device creation fails, fail the master devices.

When getting close to the MAXDEVICES limit, the creation of XTEST devices
may fail due to device id exhaustion. In that case, fail the creation of
master devices too and return an error to the client.

Theoretically, we could alloc the MDs without the XTEST devices but that
will get interesting when a client starts sending XTEST events through those
devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5a455e0c080d433adc4109ebf313fd92afa194545
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 5 11:49:12 2010 +1000

Xi: rename two variables from ptr to dev.

They were named ptr when everything was in one function to save one more
variable. Now that the stuff is split out, "dev" makes more sense.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 9b89b91c685426c9944f7fc8890f436c18b7583c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 5 11:47:43 2010 +1000

Xi: split hierarchy manipulation into static functions.

No functional changes, just code cleanup to improve readability.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 4132b1c591bd01c29df91b88a8b9d144647da9ed8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 21 14:04:42 2010 +1000

xfree86: fix compiler warnings - unused variable i
Introduced in 788bfbf18ac19923604b0d676933fde0d78526a1

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 6b982d73bb8878238ed46665b220a94a591e11a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 21 13:53:35 2010 +1000

xfree86: fix two compiler warnings - unused variable ati, atimisc

Introduced in 52577ae8eea64601db8dd425027cf8e4271b873.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 0799f0771cca335d6400a8494ba236a0d10e122b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 4 12:53:18 2010 +1000

xfree86: remove two unused variables from Makefile.am

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit a52efb096e166e325deb3d6b502671f339a4fa15
Merge: fe8d122b13 f72aadd38b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 3 06:50:45 2010 -0700

Merge remote branch 'sthibaul/master-iopl'

commit 3dc3ae6fb88c167d365795dcd44017742c52e4967
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date:   Mon Nov 1 22:23:05 2010 -0400

fb: Delete a bunch more left-overs
All of these definitions were unused since compositing moved to pixman.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 565b5e2b0261d1148cc2707ffcb915414dd3e02
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date: Mon Nov 1 22:14:29 2010 -0400

wfb: Delete unused renamings

These functions haven't existed in a while.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 0dae479e16590e767df35985150c5acff696e5df2
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date: Mon Nov 1 22:17:08 2010 -0400

fb: Delete fbCompositeGeneral()

This function was an unused and trivial wrapper around fbComposite().

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 74bc2d8c6bafc5373f9c14eed12e26b5b965953
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date: Mon Nov 1 22:12:03 2010 -0400

render: Delete renderedge.[ch]

The functions in these files have not been used since trap rasterization was moved to pixman. They survived until now to preserve the server abi.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit 6118346d64e3c2fbeb1fe2f041ea773dd2a3c0438
Author: Søren Sandmann Pedersen <ssp@redhat.com>
Date: Mon Nov 1 22:04:49 2010 -0400
Delete unused fbWalkCompositeRegion()

This function has not been used since most of the compositing was moved to pixman. The only reason it has survived until now is that it was part of the server ABI.

Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Søren Sandmann <ssp@redhat.com>

commit fe8d122b133a43125cc961d2c3c811fa776f29c8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 28 16:13:09 2010 +1000

Xi: reshuffle conditions for labeling a device as IsXExtensionKeyboard (#29046)

From the original bug reporter Ezra Reeves:

"I did some more digging on this today, and I found that an HP branded wireless USB mouse has the same issue. With this mouse (as well as the logitech wireless mouse), the return from:

xdev = XListInputDevices(GDK_WINDOW_XDISPLAY(rootwin), &ndevices_return);

lists the USB device twice, but both have xdev[num].use == 3 (IsXExtensionKeyboard as defined in X11/XI.h).

[...]

Swapping the order of the test in Xi/listdev.c that determines whether a device is a pointer or a keyboard properly detects my devices (OEM USB wireless mouse/kb combo) -- one as a keyboard and one as a pointer."

X.Org Bug 29046 <http://bugs.freedesktop.org/show_bug.cgi?id=29046>

Reported-by: Erik Kilfoil <ekilfoil@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a210068c5222acdb04db17cb8ceef314735bf977
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Oct 26 20:50:13 2010 +0300

dix: advance parent window pointer when no node is found

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
commit 19f43836d1006d253391926e880b14ed2e7a0cf8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 25 15:10:19 2010 +1000

Re-export xf86CollectInputOptions.

Some drivers, most notably the mouse driver need this and reimplementing on
the driver side doesn't make sense.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4613ce3f78a32f2a6f422e719150d55b035c758e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 15:17:50 2010 +1000

test: valuator_mode tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 58554f1c6429535e7ab432e920aabc71a77edcb8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 15:10:32 2010 +1000

Convert some leftover axes->mode access to valuator_get_mode()

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 44e81654147065b7b907ce0d14fdec2e74a638f79
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Oct 25 01:30:33 2010 +0400

Remove now-misleading comment

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 433dddcf29d257310e95e4215dceef8b0b976e2d
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Oct 25 01:28:38 2010 +0400

Replace "if(buf) realloc(buf, size) else malloc(size)" with realloc()

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
commit 04a04e162886ca9bc3977d3a7509def876487921
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Mon Oct 25 01:27:46 2010 +0400

Remove now-misleading comment

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit f72aadd38b730c46c0a027dabbb57f03068383d
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sat Oct 23 22:42:33 2010 +0200

hurd: Fix use of deprecated iopl device

Fix Xserver on GNU/Hurd into using the "mem" device instead of the deprecated "iopl" device.

Reviewed-by: Olaf Buddenhagen <antrik@users.sf.net>
Signed-off-by: Samuel Thibault <samuel.thibault@ens-lyon.org>

commit dd11f734a9a73bf34357c149d2809842938d57b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 22 16:11:24 2010 +1000

input: remove "mode" field from ValuatorClassRec.

We have per-axis mode now. For those bits that still need it (XI 1.x), assume that the first axis holds the device's mode.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 5cf3b654fccc09de63a3f983c85096cda78fb693
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 22 15:49:40 2010 +1000

input: move proximity state into ProximityClassRec.

Previously the OutOfProximity bit in the valuator mode.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e909af88bf17dbadcc00d50c13a5bdb6001367be
Author: Peter Hutterer <peter.hutterer@who-t.net>
dmx: clarify a valuator mode condition.

Relative is defined as 0, so change the condition to be more obvious.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit b5ef88e911f697530d2c7302f95e1b9a2ead4b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 14:02:17 2010 +1000

dix: clip absolute axes depending on their mode.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit ea567b675f814ac41e75f1ed8ded0ac3e9d552a8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 14:01:11 2010 +1000

dix: populate motion history only if the mode matches the first axis.

XI1 doesn't cater for mixed mode devices, so bail out on the first valuator
that has a different mode.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 4381b70f5aa293400735e9b4e5a792408afa25a2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 13:57:27 2010 +1000

input: add valuator_get_mode() helper.

Returns the mode of the specified valuator.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 6f6f460c2485d16d126a1ab5d939083c322dc3dd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 22 13:48:06 2010 +1000

dix: send proximity events if one or more axes are Absolute.

We only skip relative events for proximity, not absolute ones. Now with
mixed mode, just unset those axes that are relative.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 65c0fc81eb920085e650b8c9e874c9dd26c7ec98
Author: Chase Douglas <chase.douglas@canonical.com>
Date:   Fri Jul 16 09:21:19 2010 -0400

Add support for per-axis valuator modes (Relative/Absolute)

The XI2 protocol supports per-axis modes, but the server so far does not. This change adds support in the server.

A complication is the fact that XI1 does not support per-axis modes. The solution provided here is to set a per-device mode that defines the mode of at least the first two valuators (X and Y). Note that initializing the first two axes to a different mode than the device mode will fail.

For XI1 events, any axes following the first two that have the same mode will be sent to clients, up to the first axis that has a different mode. Thus, if a device has relative, then absolute, then relative mode axes, only the first block of relative axes will be sent over XI1.

Since the XI2 protocol supports per-axis modes, all axes are sent to the client.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>

Commit de8be07cc0a8163b6ef04455706fd5ca2cebe587 adds a requirement to event to core conversion that at least one of the X or Y valuators are set in the valuator mask. This commit fixes the event conversion test to be compliant.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8990b31214bcb08090604147287455bfde91c11
Author: Paulius Zaleckas <paulius.zaleckas@gmail.com>
Date:   Mon Oct 18 00:02:01 2010 +0300
KDrive: Fix handling in tslib driver

If ts_open() fails and return NULL, then next call to ts_fd() segfaults because of NULL dereference. There is no need to check output of ts_fd() as ts_open() did this internally.

Signed-off-by: Paulius Zaleckas <paulius.zaleckas@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9696c782c8eb8f6b06d12949899582533a2e04cfe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 19 12:52:57 2010 +1000

    test: valuator_mask tests.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2362adc2da9745e01c79ed4905aa81926355e4e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 19 10:59:09 2010 +1000

    dix: remove valuator_mask_copy_valuators, not needed anymore.

    With the switch to masks internally, this isn't needed anymore.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 2b04a3ef739a7ba57084009999e5d814182360a0a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 19 09:58:58 2010 +1000

    xfree86: convert xf86Post{Motion|Key|Button|Proximity}Event to masks

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
    Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 0418a39ec71e50b88e050b0d8a758265b17c4bf0e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 18 15:55:53 2010 +1000

    dix: get rid of the now-superfluous valuator arrays in GPE and friends.

    The valuators are stored inside the mask, use it from there. are stored inside the mask, use it from there. are stored inside the mask, use it from
there. are stored inside the mask, use it from there.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 675f4a8525d29ebad783351e17be785b2f32b2e8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 19 13:37:46 2010 +1000

Abstract valuator masks through a set of APIs.

This commit introduces an abstraction API for handling masked valuators. The intent is that drivers just allocate a mask, set the data and pass the mask to the server. The actual storage type of the mask is hidden from the drivers.

The new calls for drivers are:

valuator_mask_new() /* to allocate a valuator mask */
valuator_mask_zero() /* to reset a mask to zero */
valuator_mask_set() /* to set a valuator value */

The new interface to the server is

xf86PostMotionEventM()
xf86PostButtonEventM()
xf86PostKeyboardEventM()
xf86PostProximityEventM()

all taking a mask instead of the valuator array.

The ValuatorMask is currently defined for MAX_VALUATORS fixed size due to memory allocation restrictions in SIGIO handlers.

For easier review, a lot of the code still uses separate valuator arrays. This will be fixed in a later patch.

This patch was initially written by Chase Douglas.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 1a0d9324b3d9fd93e685066e0e5cea0611878c0d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Sun Oct 17 09:58:50 2010 -0700

Revert "Set DamageSetReportAfterOp to true for the damage extension" (#30260)

This commit breaks the Compiz "Wallpaper" plugin.
This reverts commit 8d7b7a0d71e0b89321b3341b781be8845386def6.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d738175eaf1098e29b8af6de8e99b5098e366a7
Merge: 8806a04f7f9872e0f011
Author: Keith Packard <keithp@keithp.com>
Date: Tue Oct 19 22:50:15 2010 -0700

Merge remote branch 'whot/for-keith'

commit fc48a8f9f5f66e591b3e39211d44ce68267303f8
Author: Chase Douglas <chase.douglas@canonical.com>
Date: Tue Oct 19 13:37:38 2010 +1000

Add CountBits() to the server.

Function to count the number of bits set in the given array.

Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit 9872e0f0115cd7d0543e55a1831facddf3aff90c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 13 10:31:51 2010 +1000

xfree86: set mask for valuators 0/1 when emulating core events (#30267)

EventToCore as of the commit below won't generate core motion events if the
valuator mask for x/y isn't set. For DGA, we work around this check by
forcibly setting the mask in the event we pass down.

commit de8be07cc0a8163b6ef04455706fd5ca2cebe587
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 17 12:08:52 2010 +1000

dix: don't create core motion events for non-x/y valuators.

X.Org Bug 30267 <http://bugs.freedesktop.org/show_bug.cgi?id=30267>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Andrew Randrianasulu <randrik@mail.ru>
Tested-by: Andy Furniss
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit 649293f6b634e6305b6737a841d6e9d0f0065d6c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 11 16:09:18 2010 +1000

xkb: always fill the symsPerKey array, regardless of client flags (#30527)

Even if a client does not modify the symbols, symsPerKey and mapWidths must
be filled from the current configuration. Both arrays are then passed into
other functions (pending the right flag), thus they must contain valid
values regardless of the XkbKeySymMask flag in req->present.

X.Org Bug 30527 <http://bugs.freedesktop.org/show_bug.cgi?id=30527>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit ca21a266224b6eff4fd817c2082d2e144f1ea58c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Oct 11 15:38:38 2010 +1000

xkb: init mapWidth and symsPerKey arrays to 0.

Helps debugging greatly, random 8 or 16 bit values can sometimes look like
valid values, causing much excitement on the client front.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8806a04f7f028dd9f6a7ff5c36e460d3895c7deb
Author: Micha Górny <mgorny@gentoo.org>
Date:   Thu Oct 14 15:49:51 2010 +0200

kdrive: Fix linking with tslib, with -Wl, --as-needed. #30600

Change the library order in TSLIB_LIBS variable, placing ${TSLIB_LIBS}
after the local static libraries. This fixes linking with
-Wl,--as-needed.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=30600
Signed-off-by: Micha Górny <mgorny@gentoo.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c7e436e9987a6f6b0876c63e96f59ff4c204b4bef0
Author: Micha Górny <mgorny@gentoo.org>
Date:   Thu Oct 14 15:49:50 2010 +0200

kdrive: Fix tslib check fallback to set TSLIB_LIBS. #30599
If pkg-config is unable to find tslib but the fallback check does find it, the compilation continues with tslib support enabled though TSLIB_LIBS are unset. Thus, the compilation fails with a linking error on tslib functions.

This patch sets TSLIB_LIBS to `-lts' whenever the tslib fallback check succeeds.

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=30599
Signed-off-by: Micha Górny <mgorny@gentoo.org>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 25801a2556ca9b42646023e5a95a3cbf7309e852
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 14 22:38:17 2010 +0100

Cygwin/X: Move duplicate extern variable declarations from various .c files to a new header file

For the global variables defined in winglobals.c, remove duplicate extern declarations from the beginning of various .c files, and move most of them into a new header file, winglobals.h

Leave some clipboard related variables alone for the moment, they need treating more carefully, to avoid mixing client and server type definitions.

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 04d11abc2ea2f36d899428e9c885b69e4f779ad
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 14 22:45:31 2010 +0100

Cygwin/X: Remove g_hwndKeyboardFocus

It's set but it's value is never used

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5e896e425fe14022b0714301531bd54151c763f0
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 14 22:43:51 2010 +0100

Cygwin/X: Make g_hmodCommonControls static

Make g_hmodCommonControls static, it's only used in InitOutput.c
Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 49b996faad0f0cedee25d4a8f96f4c4007c29f5f
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Oct 15 13:00:46 2010 +0100

Cygwin/X: Make g_hmodDirectDraw static

Add winReleaseDDProcAddresses() for releasing the direct draw module handle, so g_hmodDirectDraw can be made static

Remove unneeded duplicate extern definitions of g_fpDirectDrawCreate and g_fpDirectDrawCreateClipper, and move the definition from winglobals.c to winengine.c

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6f12277e37d16a7de9d3f3079688c43b07921b0a
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 14 22:44:53 2010 +0100

Cygwin/X: Make g_hhookKeyboardLL static

Make g_hhookKeyboardLL static, it's only used in winkeyhook.c

Also remove unused externs

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9952b51f56822aeeaa19c27cacf85698741eb4c27d8
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Fri Oct 15 13:01:45 2010 +0100

Cygwin/X: Fix typos in comments

Fix a few typos in comments

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 1de5db73d31411798ae93619d9e626fa32e0a4bd
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Thu Oct 14 22:46:09 2010 +0100
Cygwin/X: Drop several unneeded includes of winprefs.h

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 8e723108151136f115e8e6d4b97ed4e2fa685dbf
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Wed Sep 29 14:18:27 2010 +0100

Xming: Remove uses of register keyword

I'm pretty sure the compiler has a better idea how to optimize this

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit d11761c6a6dd2a9963d6d3bcb313f1b2525387fc
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Feb 26 13:31:18 2010 +0000

Xming: Casts to remove warnings on event pointers

winkeybd.c: In function ‘winSendKeyEvent’:
winkeybd.c:489: warning: passing argument 2 of ‘mieqEnqueue’ from incompatible pointer type

winmouse.c: In function ‘winMouseButtonsSendEvent’:
winmouse.c:247: warning: passing argument 2 of ‘mieqEnqueue’ from incompatible pointer type
winmouse.c: In function ‘winEnqueueMotion’:
winmouse.c:380: warning: passing argument 2 of ‘mieqEnqueue’ from incompatible pointer type

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 10bf8345cf15c6030147a9edb7f6a093c8db8099
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Mon Oct 12 13:50:00 2009 +0100

Xming: Warning fix in winDeviceCursorCleanup()

return statement with an expression in a function whose return-type is void

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit cab837a60a7aa653ccea77ff714335186ce38a4b
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Sun Jul 18 13:22:46 2010 +0100

Cygwin/X: Reformat the keyboard layout mapping table
Also remove the out-of-date listing of keyboard layout IDs and which ones have known mappings

XXX: layout zh_TW doesn't exist anymore

This patch brought to you by C-u M-x align-regexp

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Commit ee2867649d9485f6559f88a973eae6393971ff35
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Jul 18 13:20:01 2010 +0100

Cygwin/X: Clarify XKB options in XWin man page

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Commit 1ba1b12d24d8f825bab8cf38710c7fa9a94821e
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Oct 15 13:46:09 2010 +0100

Xming: Warning fix in winApplyHints()

winmultiwindowwm.c: In function 'winApplyHints':
winmultiwindowwm.c:1587: warning: ISO C90 forbids mixed declarations and code

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Commit fb64414548c437bf52c3cd061ab5079faffba
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Oct 15 14:19:57 2010 +0100

Xming: Fix warnings in ProcWindowsWMFrameSetTitle()

winwindowswm.c: In function 'ProcWindowsWMFrameSetTitle':
winwindowswm.c:516: warning: pointer targets in passing argument 1 of ‘strncpy’ differ in signedness
winwindowswm.c:516: warning: pointer targets in passing argument 2 of ‘strncpy’ differ in signedness
winwindowswm.c:528: warning: pointer targets in passing argument 2 of ‘SetWindowTextA’ differ in signedness

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Commit da5955cc023ae980f0e0397f6fd541e788040c29
Author: Colin Harrison <colin.harrison@virgin.net>
Xming: Fix warnings in windialogs.c

windialogs.c: In function ‘winDisplayExitDialog’:
windialogs.c:327: warning: passing argument 3 of ‘PostMessageA’ makes integer from pointer without a cast
windialogs.c: In function ‘winDisplayAboutDialog’:
windialogs.c:597: warning: passing argument 3 of ‘PostMessageA’ makes integer from pointer without a cast
windialogs.c: In function ‘winAboutDlgProc’:
windialogs.c:697: warning: comparison between pointer and integer
windialogs.c:701: warning: format ‘%d’ expects type ‘int’, but argument 2 has type ‘HWND’
windialogs.c:716: warning: assignment makes integer from pointer without a cast
windialogs.c:736: warning: assignment makes integer from pointer without a cast
windialogs.c:756: warning: assignment makes integer from pointer without a cast

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 6d9fb07db210bcfdcdde632fa341c4ee08d44b35
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Oct 15 14:16:54 2010 +0100

Xming: Fix warnings in winNameCompare(), winNormalizeName()

winconfig.c: In function ‘winNameCompare’:
winconfig.c:715: warning: array subscript has type ‘char’
winconfig.c:715: warning: array subscript has type ‘char’
winconfig.c:716: warning: array subscript has type ‘char’
winconfig.c:716: warning: array subscript has type ‘char’
winconfig.c:730: warning: array subscript has type ‘char’
winconfig.c:730: warning: array subscript has type ‘char’
winconfig.c:731: warning: array subscript has type ‘char’
winconfig.c:731: warning: array subscript has type ‘char’
winconfig.c: In function ‘winNormalizeName’:
winconfig.c:1092: warning: array subscript has type ‘char’
winconfig.c:1093: warning: array subscript has type ‘char’

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 20510e51001d1659000c8d8607e0de16022d1c74
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Oct 15 14:15:51 2010 +0100

Xming: Fix warnings in winClipboardFlushXEvents()

winclipboardevents.c: In function ‘winClipboardFlushXEvents’:
winclipboardevents.c:225: warning: format ‘%08x’ expects type ‘unsigned int’, but argument 2 has type
‘DWORD’
winclipboardxevents.c:266: warning: format ‘%08x’ expects type ‘unsigned int’, but argument 2 has type
‘DWORD’
winclipboardxevents.c:619: warning: pointer targets in passing argument 1 of ‘strcat’ differ in signedness
winclipboardxevents.c:659: warning: pointer targets in passing argument 1 of ‘strlen’ differ in signedness
winclipboardxevents.c:669: warning: pointer targets in passing argument 3 of ‘MultiByteToWideChar’ differ in
signedness
winclipboardxevents.c:690: warning: pointer targets in passing argument 3 of ‘MultiByteToWideChar’ differ in
signedness
winclipboardxevents.c:698: warning: pointer targets in passing argument 1 of ‘strdup’ differ in signedness

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 44c8b449d281c4d984d65f66bac96a65806b2efa
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Oct 15 14:13:57 2010 +0100

Xming: Fix warning in winClipboardErrorHandler()

winclipboardthread.c: In function ‘winClipboardErrorHandler’:
winclipboardthread.c:444: warning: format ‘%d’ expects type ‘int’, but argument 3 has type ‘long unsigned int’

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 1fa57d9e46424a2e0861f55253b91d930d79083
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Fri Oct 15 14:12:22 2010 +0100

Cygwin/X: Turn off the bad-function-cast warning for XWin code

Turn off the bad-function-cast warning for the XWin code, it’s near impossible
to write code which uses Win32 API calls that doesn’t trigger this warning

For example, SendMessage(WM_SETICON) returns an LRESULT, but we are supposed to
know this is safe to cast this result to a HICON, which gcc considers a non-matching
type.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 55e528b6cc6451dbb1e65baec199d4df0441e86d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Mar 25 23:39:37 2010 +0000

Cygwin/X: Remove execute permission from source files
Remove execute permission from source files

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit b2b685e2693f5089006f5b3882d6b0c0853862
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Thu Mar 25 23:00:48 2010 +0000

Cygwin/X: unifdef XFree86Server

Remove XFree86Server define, which was always on anyhow, and the code which was guarded by !XFree86Server

This completes the process of removal started in 2006 :-)

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9ed70f15eff6a85222b46db1fe7af25154314464
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 17:37:14 2009 +0000

Cygwin/X: Use normal apostrophe in XWin DDX help text

Use U+0027 APOSTROPHE in XWin DDX help text, rather than U+2019 RIGHT SINGLE QUOTATION MARK

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 9f8f056a21b9480fd9fd43a22e9d6f45a2c1ef87
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Tue Mar 23 16:34:26 2010 +0000

Cygwin/X: Cleanup some VENDOR_STRING/VENDOR_CONTACT cruft

Cleanup some VENDOR_STRING/VENDOR_CONTACT cruft

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 5aff712a8d2ebf9f65ecbb93216cc0bd8c327ae6
Merge: 5b98c6267f e354ccac36
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 18 17:16:23 2010 -0700

Merge remote branch 'whot/for-keith'
commit 5b98c6267f575ec4ff498ecb651e34dbff030b83
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 16:01:40 2010 -0400

randr: Remove mirandr

This isn't used anywhere, not least because it's completely nonfunctional.

Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7bb653bedceb6180a0361ead1c612839e776ce98
Author: Olivier Fourdan <ofourdan@redhat.com>
Date:   Mon Oct 18 15:59:35 2010 -0400

modes: improve aspect ratio match for classic drivers

After we infer the aspect ratio for the screen, we pick the largest mode matching that aspect ratio from the best mode pool available. We then clamp virtual size to that mode, and run the resulting mode list through the driver's ValidMode hook. In doing so we might filter away our initial guess. If this happens we shrink the default mode to the next largest mode from _any_ mode pool. This is usually wrong, and we should instead pick the next aspect-matched mode from the best available mode pool (as always, user then driver then default).

Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d6d90a4fcce0f86e7c7934adea901b2cd9a595bf
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 15:53:43 2010 -0400

composite: Move the backfill comment to a more appropriate indent level

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit db8840600e8e21356241eb87395031388d9b54d2
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 15:52:52 2010 -0400

composite: Don't backfill non-MapWindow allocations

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 6dd775f57d2f94f0ddaee324aeeec33b9b66ed5bc
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 15:50:37 2010 -0400

composite: Don't backfill non-bg-None windows

If there's a defined background then backfilling is a waste of effort,
since exposure processing will paint that in for us. But note that we
have to backfill if any children are bg=None to preserve semantics with
non-composited servers.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d2064fb6687839c297a851a5d85f32dfbbe4a0d5
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 15:42:54 2010 -0400

ddc: Don't probe for DDC/CI or EEPROM

For whatever reason, some (broken) monitors will crash if you do this.
We're not actually using this information for anything, so let's just
not do it.

Originally reported as http://bugzilla.redhat.com/620333

Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 47c91dca8d8eeeb429123e8370302831bcd57938
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 18 15:40:28 2010 -0400

xfree86: Drop linux libc5 support from the SIGIO code

Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 788bfbf18ac19923604b0d676933fde0d78526a1
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 14 15:10:43 2010 -0400

dri1: Remove "buffers" from the config logic

This was only ever used from the glint driver, which has since lost its
DRI support.
commit a77458486a7b9d78ddc284e2bce96c1fda0e862a
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 14 14:00:53 2010 -0400

xfree86: Remove %M expansion from config parser

This was to distinguish XFree86 3.x files from XFree86 4.x files. It
never really made sense to be looking for xorg.conf-4.

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit f8ec71603c796f3b272a0592cbb934c2a6e8d633
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 14 13:45:31 2010 -0400

xfree86: Remove an open-coded strtoul()

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 52577ae8eda6e4601db8425027cf8e4271b873
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 14 13:22:00 2010 -0400

config: Remove atimisc workaround

Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Reviewed-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 8bb1983a5f2dbf72366de9fb793a46e35912ab61
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 2 15:22:18 2010 -0400

config: Don't look for .o drivers anymore

This hasn't worked since we switched to dlloader.

Reviewed-by: Jesse Adkins <jesserayadkins@gmail.com>
fix a sign problem with valuator data.

Without this patch, any negative valuator value is wrong when returned from XQueryDeviceState(). This is a regression from at least xserver 1.4.

Valuator data is set in dix/getevents.c:set_valuators() by copying signed int values into an unsigned int field DeviceEvent.valuators.data.

That data is converted into a double with an implicit cast by assignment to axisVal[i] in Xi/exevents.c:UpdateDeviceState().

That double is converted back to a signed int in queryst.c:ProcXQueryDeviceState(). If the original value in set_valuators() is negative, the double value will be > 2^31 and the conversion back to a signed int is undefined. (Although I consistently see the value -2^31.)

Fix this by changing the definition of DeviceEvent.valuators.data from uint32_t to int32_t.

All these now generate InternalEvents, point this out. Remove XKB/XI references, that's just confusing. This comment referred to the old-style event generation code from server 1.4 to including 1.6 but is now just confusing to newcomers.

Remove comment about SwitchCoreKeyboard() for the same reason.
Reviewed-by: Chase Douglas <chase.douglas@canonical.com>

commit e2ada55de3e7ec8724b98c4e4adfece41d415499
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Sep 27 13:58:40 2010 -0400

os: Clean up various xtrans bits that we've never supported

Or at least, not supported since xservers 1.0.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit eaf0b6a4d83d49930d21d5191f335fcac962632e
Merge: 693e92d404 23229c7ce5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 15 13:46:59 2010 +1000

Merge branch 'master' into input-api

Conflicts:
config/udev.c
hw/xfree86/common/xf86Helper.c
hw/xfree86/common/xf86Module.h
hw/xfree86/common/xf86Xinput.h
hw/xfree86/os-support/linux/lnx_init.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3c28a29e132d6f73c36d4b64818d112b1c6e9a40
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Oct 13 15:53:59 2010 +1000

xfree86: rename parameter names to xf86ScaleAxis.

Maybe it's just me but every time I look at it I get confused again and need
to work it out from scratch. Rename the parameters to something
self-explanatory, to/from and min/max.

No functional change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 23229c7ce5970516b97a1cc12e65257ff65ab9a7
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Oct 13 16:28:14 2010 -0700

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35035
test: Fix make distcheck when not building unit tests

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ff82f724e4ed24d73f15fa9c35a1d0c2c7d8cef7
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Oct 13 10:20:06 2010 -0700

Comparison between pointer and integer in latest dix/dispatch.c

Signed-off-by: Keith Packard <keithp@keithp.com>

commit da4eebe58ec81e2297cc1773af1fb622fb392bbd
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Oct 13 17:34:31 2010 +0100

event_size is currently never assigned to in mieqProcessInputEvents().
event_size is never assigned to in mieqProcessInputEvents(), so realloc() is always called. This is benign, but I'm guessing not intended.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6274dca9d984ad3c553b4901edc3151c770e6c40
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 11 16:37:16 2010 -0400
dix: optimize CallCallbacks

Move the basic sanity checking to an inline wrapper, which avoids the function call overhead if the callback list is empty. On an XACEful server on a 2.4GHz Core 2 Duo:

<table>
<thead>
<tr>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>X protocol NoOperation</td>
</tr>
<tr>
<td>20000000.0</td>
</tr>
<tr>
<td>25100000.0 ( 1.25)</td>
</tr>
</tbody>
</table>

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e418cd332c1f458d028df3fdf684011109d0c183
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 11 10:49:57 2010 -0400
xwin: Remove some undue paranoia about UNDRAWABLE_WINDOW

mi will throw away rendering to input-only windows.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit febf3e7ead8dbb355622c896ff1744b2ca52a49a
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 11 10:49:56 2010 -0400

dix: Remove the memory of the multibuffer extension

Drop DRAWABLE_BUFFER and related checks, mbuf was the only thing that used them and it was killed in 0ba82562.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1333e101b4f6ecca725688b7f462884f88b102a5c2
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Thu Oct 7 18:17:02 2010 -0700

Remove leftover fbSaveAreas & fbRestoreAreas defines from wfbrename.h

The fb functions they try to rename were deleted in 2007 by commit ae7f71a8b3d6756161e55d998d6eecc37d2695e98

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <matts88@gmail.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8efa3623f32939ef525926b57fd533f4c01ec4b3
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Aug 4 13:48:33 2010 -0700

Use GetCurrentRootWindow or equivalent instead of spriteTrace[0].

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Move replay-window check from ComputeFreezes to CheckDeviceGrabs.

This just simplifies ComputeFreezes, eliminating some duplicated code and a goto.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

CheckDeviceGrabs: Delete redundant pWin->optional test.

CheckPassiveGrabsOnWindow returns FALSE if pWin->optional is NULL, because wPassiveGrabs uses wUseDefault, so don't bother checking at the caller.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Let CheckPassiveGrabsOnWindow callers check if device is already grabbed.

CheckDeviceGrabs checked all the ancestors of the window containing this device's pointer even if no new grabs could possibly apply due to the device already being grabbed.

ActivateFocusInGrab and ActivateEnterGrab already checked whether they should break an existing grab, and then set up an event that was completely ignored if they didn't actually break the grab.

In both cases, just do what we would have done eventually anyway--return FALSE from CheckPassiveGrabsOnWindow's caller--but do it sooner.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 853d7ebfa3e2d281d92890a39010ff5787a00ff
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 5 11:24:28 2010 -0400

vbe: Fix copying the mode info block

Just use memcpy, seriously.

Reviewed-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b2f9ce201ce2a14d5d6ad055b46c9317b040ec2e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 27 17:34:36 2010 -0400

edid: Fix the HDTV sync pulse adjustment

Simple typo, should have been adjusting the horizontal timings
consistently since we're not trying to mangle vertical at all.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Patrick E. Kane <pekane52@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9a893fe52f1bdf415e9fd9d2f5aff5e4da7a756
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Sun Oct 3 16:56:03 2010 +0100

xfree86: Do not call dlclose(NULL) [regression after ab7f057]

During unwind following an error when attempting to a load a module, we
attempt to call dlclose on a potentially NULL handle. This is a
side-effect of removing the abstraction layer in ab7f057.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Adam Jackson <ajax@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 533fa1f47f3cb4b5155a74d78d6144b702e227efa
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 1 10:57:48 2010 -0700

Bump version to 1.9.99.1 (1.10 development series)

Make the 1.10 development series distinguishable from the 1.9 branch.
remove dolt

With libtool 2.2.10 the difference in build time is so small (< 5% with -j8 builds) that it isn't worth having this hack.

commit a769f4c22a9cfb5ba248c924a66c31ec966bd8a0
Author: Adrian Bunk <bunk@stusta.de>
Date: Thu Sep 30 13:18:20 2010 +0300

randr: set error numbers of resource types in RRExtensionInit() (V2)

Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=30367

Currently the ddx calls xf86RandR12Init()
(-> RRScreenInit()
 - -> RRInit()
    - -> RModeInit()
    -> RROutputInit()
    -> RCRtcInit()

before RRExtensionInit() is called. This causes RRErrorBase
being 0 while setting resource type error values (resource types:
RROutput, RMode and RRCrte). The fix moves the setting of error
values to own functions which are called in RRExtensionInit()
to get the right RRErrorBase.

V2: With header file

Signed-off-by: Tobias Droste <tdroste@gmx.de>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c7e4222c9a27094ce4fc2831ac92acebb7b21fb1a
Author: Tobias Droste <tdroste@gmx.de>
Date: Wed Sep 29 22:51:48 2010 +0200

Cygwin/X: Fix compilation after "delete pervasively use of DISPATCH_PROC"
commit cbd4d5dbb70db62ba1cb79c7b904e6fa11f62d7e
removes the static declarations of ProcWindowsWMDispatch and
SProcWindowsWMDispatch which precede their first use in
winWindowsWMExtensionInit()

Move winWindowsWMExtensionInit() to after the definition of those
two functions to fix compilation.

Signed-off-by: Jon TURNEY <jon.turney@dronedcode.org.uk>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1a9022d3289f74043112808cc8aa315fd9c40e8
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Sep 28 13:59:19 2010 -0700

Bump video driver ABI version to 9.0

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c45bea0c044ad37bedb42209f7e6ea8b587999f0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Aug 3 12:51:51 2010 -0700

XQuartz: RandR: Refactor legacy mode-switching to be better integrated with RandR

Adds three new functions
void QuartzRandRSetFakeRootless (void);
void QuartzRandRSetFakeFullscreen (void);
void QuartzRandRToggleFullscreen (void);

The first two are identical to requesting the fake modes from a RandR client
The third responds to cmd-alt-a to leave fullscreen or RandR.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 229323a19b06f80d9b03f487e598b933b9b31d87
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jul 26 23:34:49 2010 -0700

XQuartz: RandR: Don't change the rootless preference when changing RandR mode

Also renames a bunch of other variables for better consistency.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
commit 721edc69c3597578d3e71711769ff0195af6068a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jul 26 11:45:59 2010 -0700

XQuartz: RandR: Better handle switching betwen RandR modes that share CG modes

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 026a47e21226b64eb9a7624ada3d74c3fe5fa763
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Jul 26 01:17:12 2010 -0700

XQuartz: RandR: Respond better to resolution changes made outside X

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 59cd93f48a30a344781d4a94a3cd05a575e2d4ba
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Jul 25 22:25:49 2010 -0700

XQuartz: RandR: Use deprecated CG APIs only on Leopard and earlier

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 629c3f473b7415069a87ef4717ec3d701978dc48
Author: Jan Hauffa <hauffa@in.tum.de>
Date:   Fri Jul 16 17:56:44 2010 +0200

XQuartz: RandR: Remove FAKE_RANDR code.

Signed-off-by: Jan Hauffa <hauffa@in.tum.de>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 97b5f5306437b13390485f7a58a363c261ec9
Author: Jan Hauffa <hauffa@in.tum.de>
Date:   Fri Jul 16 17:54:55 2010 +0200

XQuartz: RandR: Toggle rootless mode on XRandR mode switch.

Report a fake screen mode that corresponds to the screen mode at startup of the server excluding the height of the menu bar. If a client requests this mode, rootless mode is enabled. In all other modes, the root window is shown.

Signed-off-by: Jan Hauffa <hauffa@in.tum.de>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2d411472c2915614bddeb8f0d15260a46a44d
XQuartz: RandR: Implement basic RandR functionality.

Querying and changing of resolution and refresh rate is supported, rotation is not implemented yet.

Signed-off-by: Jan Hauffa <hauffa@in.tum.de>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f4926709485c0605f0b1171c84c803b68eebf38
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Sep 28 09:48:41 2010 -0700

XQuartz: Move use of static dispatch procs after declaration

This fixes fallout from cbd4d5db70db62ba1cb79c7b904e6fa11f62d7e

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c36ca7b1862ecd86df089f4e1933379a113928ea
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Sep 25 10:05:10 2010 -0400

config: remove --with-dri-driver-path option, use dri.pc #29740

The trusted location of the dri driver directory can be obtained from the mesa dri.pc pkg-config file.

Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Acked-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5532687a929426c4b1c4667f4591ed362f097c9b
Merge: 9df4f0adf 682a3ee608
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 28 08:15:07 2010 -0700

Merge remote branch 'ajax/less-loader'

commit 9df4f0adf66f82f0c007897d79af0f54a6dad9
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 27 17:06:46 2010 -0400

xfree86: Add 18bpp support
xfree86: Kill pixmapPrivate with a vengeance (v2)

ScrnInfo->pixmapPrivate only existed in order to catch invalid access to the framebuffer by making the backing data NULL across the VT switch. This was causing more confusion in the higher layers during mode setting without any real benefit, so remove it.

v2: Kill ShadowModifyPixmapHeader() as well.

modes: Beware the driver switching root pixmaps

Program received signal SIGSEGV, Segmentation fault.
0x080d4a2d in xf86RandR12ScreenSetSize (pScreen=0x8dca3a0, width=800, height=600, mmWidth=210, mmHeight=157) at ../../../../hw/xfree86/modes/xf86RandR12.c:731
731 ../../../../hw/xfree86/modes/xf86RandR12.c: No such file or directory.
in ../../../../hw/xfree86/modes/xf86RandR12.c
(gdb) bt full
height=600, mmWidth=210, mmHeight=157) at ../../randr/rrscreen.c:185
randrp = 0x8dcae68
pScrn = 0x8dbeb28
config = <value optimized out>
pRoot = 0x8e08e30
pScrnPix = 0xb6d12008
ret = 1
c = <value optimized out>
mmWidth=210, mmHeight=157) at ../../randr/rrscreen.c:185
No locals.
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Julien Cristau <jcristau@debian.org>
Tested-by: Julien Cristau <jcristau@debian.org>
Cc: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2f0abd7d690c3bcce2a80c093a0880f43e56d8cb
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Thu Sep 23 09:04:11 2010 -0400

glx: Fix use after free in DrawableGone

(note that nearly identical patches were proposed by Kristian and Chris)

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reported-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Tested-by: Chris Wilson <chris@chris-wilson.co.uk>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e416965bf08d8fae5d2b7932b5118efac20546ad
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun Jul 18 18:56:02 2010 +0300

dix: remove proc tables initialization

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit cb4d4d5db70db62ba1cb79c7b904e6fa11f62d7e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 16 20:19:50 2010 +0300

xserver: delete pervasively use of DISPATCH_PROC

Some functions had to be moved around due some missing static definitions.
Another minor clean up like inexistent function declarations and etc were made also.
Part of this patch was cooked using:
    sed -i -e '/static DISPATCH_PROC.*;/d' `git ls-files`

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 58bd317e29f4abf7f950891339d2a6a78ddf7903
Author: Macpaul Lin <macpaul@andestech.com>
Date:   Tue Sep 21 15:13:34 2010 +0800

    xfree86: nds32: add nds32 support for compiler related mmio codes

    Add nds32 support for compiler related mmio codes.
    It includes byte-swap or non-swap operations.

    Signed-off-by: Macpaul Lin <macpaul@andestech.com>
    Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 28e6de66b42062a885ba38416387f2dbc15707fd
Author: Macpaul Lin <macpaul@andestech.com>
Date:   Tue Sep 21 15:13:33 2010 +0800

    xfree86: nds32: add nds32 support for compiler specific codes

    Add nds32 definitions and related assembly codes to compiler header files.

    Signed-off-by: Macpaul Lin <macpaul@andestech.com>
    Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2b24b2bd859a4b4b8ccaf3b7d1b529dcda2d3b94
Author: Macpaul Lin <macpaul@andestech.com>
Date:   Tue Sep 21 15:13:32 2010 +0800

    xfree86: nds32: add nds32 definition for vgaHW support.

    Add __nds32__ definitions for vgaHW support.

    Signed-off-by: Macpaul Lin <macpaul@andestech.com>
    Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 22376aa7aa444646366b12ee1d61b94e52ca02b0f
Author: Macpaul Lin <macpaul@andestech.com>
Date:   Tue Sep 21 15:13:31 2010 +0800
xfree86: nds32: add nds32 definition for support linux video related io.

Add __nds32__ definitions for supporing correct io method for lnx_video.c

Signed-off-by: Macpaul Lin <macpaul@andestech.com>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d52799f67f590b0f91b521cd2bdf5a5a8a229c96
Author: Macpaul Lin <macpaul@andestech.com>
Date:   Tue Sep 21 15:13:30 2010 +0800

xfree86: nds32: add nds32 related definitions into include headers.

Add MSB/LSB related definitions into include/servermd.h

Signed-off-by: Macpaul Lin <macpaul@andestech.com>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 98197d931b266674557b52b4a7099c6470114e55
Merge: 01ad3725a8 402942cdbc
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 23 15:30:37 2010 -0700

Merge remote branch 'jamey/for-keith'

commit 682a3ee60867da027fe1b6da0c8587dd3db9d58e
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Sep 18 07:27:13 2010 -0400

xfree86: Remove useless module setup functions where appropriate

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commits 613a0170e7e9b64c611ee942ec3455dd1a185193d
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Sep 18 06:41:35 2010 -0400

xfree86: Remove unused refcounting from input drivers

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ab7f057ce9df4e905bf12cebc1e587b9a7f200418
loader: Remove a silly layer of reference counting

libdl will refcount objects for us just fine, thanks.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 0438002cd238011f33dbf176c555de5e380ba77e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 17 09:13:04 2010 -0400

loader: include cleanup

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2f003fe49697f8343c052df2b3752eace814ea7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 17 09:02:13 2010 -0400

loader: Remove the handle field from LoaderOpen

This was always 0 from all the callers.

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 09929da50503b559459f5b722c11647c47857fdb
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 17 08:16:51 2010 -0400

loader: Remove unused canonical name field

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3a26e7f459764d4aeec71b2d7e25b113b729b94ac
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Sep 17 07:55:48 2010 -0400

loader: Remove unused module serial number
loader: Merge dlloader directly into the loader

This lets us drop some double-tracking of loaded modules too. If your OS is too lame to have libdl, fix that first.

xfree86: add xf86OptionListDuplicate()

Does what it says on the box.

Some drivers need to duplicate option lists from the original device to ensure that devices created by the driver (driver-internal hotplugging) have the same list of options as the original device.
Xserver need not be compatible with old versions of xserver.

Delete time-traveling multiple personality disorder from the server.

Gaetan notes:

There were a couple of drivers containing an unknown version of the modes/parser code. This was done in server 1.2 time frame because it was released without mode code. It was barely or not maintained afterwards. There are currently no video drivers with a copy of the modes code.

Most of these ifdefs were introduced in commit a8d760f567b1926839c468249f5ca591f08a854, where Aaron wrote,

This change uses XORG_VERSION_CURRENT < 7.0 to mean "server newer than 1.2" since XORG_VERSION current went backwards at some point.

Alan explains that:

In Xorg 1.3, when we first released an Xorg server release decoupled from the katamari release schedule. (1.0 through 1.2 were released as part of X11R7.0 through 7.2, while 1.3 came out between X11R7.2 & 7.3.)

Commit by Jamey Sharp and Josh Triplett.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 01ad3725a8d0a8958720b81d19598a08c072ccee
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Tue Jun 1 20:37:54 2010 +0300

xfree86: delete useless "Primary device is not PCI" message

The primary device being PCI or not has no effect on the server working. This message is superfluous.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
commit 7360235ecca25af29bb2d99a8e46d5b259ad1b1e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon May 31 18:20:57 2010 +0300

xfree86: bus: assign PCI_SOURCES with the actual source files

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 18b2d2e8bd056266410226d779752e7933847b6b
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon May 31 18:09:50 2010 +0300

xfree86: bus: move macros from common PCI header to private file

Only int10/helper_exec.c is using them.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 17a23f9ba8fa95f3e15afba7de22a12fe60bacefb
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Sep 10 19:18:42 2010 +0300

xfree86: dri: remove unused PCI macro

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit fc3ab84de7b5692f0db2b282ab0ed8e5a61d1fce
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Sep 10 19:16:30 2010 +0300

xfree86: configure: move buses references to their own location

This patch makes xf86Configure.c free of PCI and SBUS code, moving to a more meaningful location.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 49b817501f97d55480063c0b62544b3af75b4b7c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jun 1 16:16:53 2010 +0300

xfree86: bus: remove xfree86 and few other references from OS files
Conceptually, os-support should have only a basic set of OS helpers which wouldn't mix with any DDX common structure (e.g. windowing structures, etc)

This patch removes some xf86-only and a few other unused references from os-support/bus.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit d9c682a5e250677883c4d375ca84cf184ee19d77
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 30 21:35:23 2010 +0300

xfree86: bus: remove useless automake variable

Leftover that was missed in f7abe05b.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit a7efeda8a56a540542e056a426e89cfc053a4162
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 30 19:12:31 2010 +0300

xfree86: use xf86PciIsolateDevice to get PCI config information

Make xf86IsolateDevice private on PCI common file.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit c768cdda92696b636c10bb2df64167d5274b4b99
Merge: 5a725385fb 2079853632
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 13 16:48:33 2010 -0700

Merge remote branch 'jamey/reviewed'

commit 20798536326f94ac9c97b4ec7a51329f7c912991
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Jul 14 13:14:28 2010 -0700

rootless: Delete dead remnants of rootless acceleration.

Jeremy deleted rootlessAccelInit's implementation in 2008 in commit 587e010a1cd733fded4d49dc339df0634bda8be6. Delete its prototype and the remaining commented-out call to it.
It still makes sense for the rootless GC ops to relax the planemask, but that's independent of the size of the operation, so quit checking the thresholds there.

FillBytes and CompositePixels are not called anywhere, so delete everything related to both.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Jeremy Huddleston <jeremyhu@apple.com>
Cc: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 58d1ec0fe84412c66f1ea1de15e3901c0b120164
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Jul 14 11:30:17 2010 -0700

rootless: ROOTLESS_GLOBAL_COORDS is always set, so unifdef it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Jeremy Huddleston <jeremyhu@apple.com>
Cc: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 35ce892a705f9377a36f19414e5a25dcbe44a354
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Jul 14 11:19:41 2010 -0700

rootless: ROOTLESS_TRACK_DAMAGE is never set, so unifdef it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Jeremy Huddleston <jeremyhu@apple.com>
Cc: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ccdf15689050a0f988721c91fab75861ec4d339c
Author: Jamey Sharp <jamey@minilop.net>
Date:   Mon May 31 16:01:18 2010 -0700

miPolyGlyphBlt: Delete redundant ValidateGC.

The caller is required to have validated the GC for the drawable before calling any ops, including PolyGlyphBlt.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3fd963de27f3c4452e320e617ad33b91b0967737
Un-export CreateScratchGC now that nothing external uses it.

The server and drivers sometimes use GetScratchGC, but never
CreateScratchGC.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0f48e362c5baee2bc281a4b88cfb68de24172d15
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed May 19 14:03:19 2010 -0700

glxdriswrast: Use CreateGC, not CreateScratchGC.

Since this code was using CreateScratchGC and not GetScratchGC,
FreeScratchGC would always call FreeGC, so just call it directly.

As long as the drawable provided to CreateGC has the same screen and
depth as were passed to CreateScratchGC, these functions are basically
identical. There are two differences:

- CreateGC gives you a non-null stipple. You probably don't care.

- CreateGC passes the gcid and client to XACE. There are several
  internal GCs allocated in the server, and they all pass 0 and
  serverClient. I expect XACE will never reject that combination.

The callers of createDrawable all verify that pDraw has the same screen
that driScreen does. In short, this should have no behavioral change.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit af2a94e12fe4e426dfca461a0d14526193c01cef
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue Jul 13 13:33:59 2010 -0700

VGA arbiter: No need for arbitration around CreateGC.

None of XAA, EXA, or UXA do any hardware access during CreateGC, so they
don't need VGA arbitration. I haven't found any open source drivers that
hook CreateGC, so they're safe. I'd be surprised if any driver directly
hooks CreateGC and does hardware access from it and needs VGA
arbitration.
Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 7a63b2db636f01694cb54726bbb04287718e286a
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun Jul 11 20:36:34 2010 -0700

Delete Colormap->devPriv. It isn't used any more.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 2e8069dd36c2f5ca868937405fc03328004a85d
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun Jul 11 20:35:43 2010 -0700

xnest: Replace use of Colormap->devPriv with standard devPrivates.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 34d6492436c0f4a81822769b24d8c7816d0226ad
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat Jul 10 06:55:58 2010 -0700

xquartz: Delete compile-time-constant DRIGCRec.driOps field.

The driOps field of this structure is never set to anything but
&driGCOps, and this structure is not visible outside this source file.
Just use the constant in the one place the field was used.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 2051e0f371de892b2e598b30c18dae96b58d68de
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Jul 8 02:38:13 2010 -0700

dixfonts: Deobfuscate GC ops calls.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit bbbf795e6b1ac048ea17164ba1089055cfe4306d
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun May 23 17:15:43 2010 -0700
Delete redundant GC initializations.

When a GC is allocated, it is zeroed, including all storage requested with dixRegisterPrivateKey. So CreateGC hooks don't need to initialize anything to zero.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit 3288232f3d2a0239944bd856101c2d16c713ef40
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun Jun 13 18:10:38 2010 -0700

Delete xaaWrapper.

This was part of "An experimental pseudocolor emulation layer. Not fully completed, currently only works for 16bpp." Only neomagic tried to use it, and that was neutered by the removal of the fbpseudocolor portion of that emulation layer; the rest is easily removed.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit f856dcdc3a7b635dd94d3dac387dde952e4880b
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat Jun 12 08:42:31 2010 -0700

Delete unused lastWinOrg field from GCs.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit b2184024361717358c35a56b084c4a71cb29234
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat Jun 12 16:20:00 2010 -0700

Delete unused devPrivate field from GCFunacs and GCOps.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 139aa6e74227f0fe52cd8dcef1d563664103aaba
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun Jun 13 18:57:08 2010 -0700

damage: Delete NOTUSED block--it was never not NOTUSED.
fb: Delete unused oneRect private field.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit e99bbfa0a24ce038b88e81881133a676bf63580e
Author: Jamey Sharp <jamey@minilop.net>
Date: Tue May 25 13:50:11 2010 -0700

dmx: Delete '#undef Xmalloc' and friends.

Nothing in dmx uses these names any more, and it builds cleanly without
trying to undef them.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit b5217bfda67ef2c5323838aafced89eba8899d5
Author: Jamey Sharp <jamey@minilop.net>
Date: Tue May 25 13:28:32 2010 -0700

dmx: __glXMalloc -> malloc, etc.

Kristian made equivalent edits to the reference GLX implementation in
2006, with commit 2d2d38d17cc2558f8a41166a4a1578bc4e663c37.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit a715de7f11afeda7798f0882148a94d4db2291e6
Author: Jamey Sharp <jamey@minilop.net>
Date: Tue May 25 13:10:05 2010 -0700

dmx: Delete unused GLX visual matching code.

Kristian deleted this API from the rest of the server in 2007, in commit
7d7469053b64f7b8e8036507ab7790807349c50.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
commit 5a725385fbb93553931ca0217e79271ab2a2c613
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon Sep 13 12:33:53 2010 +0300

xfree86: vgaarb: fix decoding stub API

This fix a problem introduced in commit 65466652. It closes also:
https://bugs.freedesktop.org/show_bug.cgi?id=30160

Reported-by: <xunx.fang@intel.com>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0a3e6b0345a96aae278dd776c00b5a7c7ccf65af
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat Sep 11 14:25:21 2010 -0700

XQuartz: Localization updates

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4e09a69c5b1f3c8d6f2f92ec24aaab3a1119940c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Aug 15 20:07:28 2010 -0700

rootless: Remove ROOTLESS_WORKAROUND

This was already removed for XWin (20701522be803fe47e921fcf059dadf64c7f287d) with no reported side effects. XQuartz seems to be behaving ok without it as well. While this possibly brings back bug #1168, we don't have any reproduction steps for that issue, and if it crops up again, we should fix it a real way rather than this hokey workaround which doesn't even work for COMPOSITE.

This effectively reverts the following two changes:
b2135e589baeb2ea26da50b9167feaea23bcce3c
d7fe52254126aa5897a5c58faeda1f61d5b13d8

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 63b7d9448abbded1cb91e82a13319d5e4313ca0c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Sun May 30 18:44:06 2010 +0300

xfree86: fbdevhw: remove unnecessary debug code

It very likely no one will want to print all functions of this file for debugging purposes. If this is the case, then a mix of ctags + cpp + gdb
can do the same job.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 66105d8281f8a6442cf7fee5d10e8b8a34bef952
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 30 18:16:32 2010 +0300

xfree86: fbdevhw: remove unused cmap fields from main structure

It was never used since first git revision and probably no one cares for it.

ABI break.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 317e491e067e31ea7cf8cb7301e47de0c10f119e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Jul 19 15:44:39 2010 +0300

xext: remove unused header

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 5098801b3a570d0bb3386d7d210f21a1cbf3bf12
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sat Jun 12 16:57:50 2010 +0300

mi: delete unused code

pBSReg is always NULL, so the statement after the conditional will never be reached.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 7d8c9d027cf55e9921307e5b3dd7052de8496f
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 4 16:12:59 2010 +0300

os: simplify smart scheduler init process

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>
commit d9c18c3b9badf38d499e3f53291bd23fda3c4340
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Wed Aug 4 15:54:48 2010 +0300

    os: remove useless smart scheduler macros

    Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit a9e6080dc94633a4f497535f619a14fd8b566645
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Sep 10 15:01:29 2010 +0300

    os/xfree86: remove macro checking for POSIX symbols

    We assume already that our X implementation is POSIX compliant anyway. So
    remove those redundant checking.

    SA_SIGINFO is left there.

    Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Reviewed-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit 648c8871e92727d7b6b16859f27f12266a06a16e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Sep 8 16:08:24 2010 -0400

    composite: Convert compWindowUpdate to use TraverseTree

    v2: Use != RedirectDrawNone, since we aren't called for manual windows.

    Signed-off-by: Adam Jackson <ajax@redhat.com>
    Reviewed-by: Keith Packard <keithp@keithp.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit bbfb85461eb63bfb1e01e2cb9674607b9221604
Merge: 9a1a4ccbe0 71972e2534
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 10 11:55:34 2010 -0700

    Merge remote branch 'whot/for-keith'

commit 9a1a4ccbe026f34beca5db3b2243874906961b49
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Aug 30 16:37:05 2010 -0400
Add screens to the PRIVATE_XSELINUX set.

The SELinux extension does store a security label in the screen devPrivates. Fixes crash caused by overwriting another private.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reported-by: Justin Mattock <justinmattock@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5b680f2c23fb3d35c721647d0334f63297589371
Author: Vignatti Tiago (Nokia-MS/Helsinki) <tiago.vignatti@nokia.com>
Date:   Mon Aug 30 21:24:30 2010 +0300

os: add -sigstop option for Upstart (or equivalent) startup

This is very similar to the RunFromSmartParent (implicit) option, except we do not send the signal to our parent process, but our own process instead, and that signal is SIGSTOP, not SIGUSR1.

Upstart or a similar equivalent program will detect this, realize that we are ready to accept clients now, send us SIGCONT and move our job status from SPAWNED to RUNNING.

Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ca0d578d29f37b61e62556fff59732741885625b
Merge: cf88363db0 08adf41f63
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 10 11:50:27 2010 -0700

    Merge remote branch 'mattst88/master'

commit cf88363db0ebb42df7cc286b85d30d7898aea840
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Aug 27 10:20:29 2010 -0700

    os: Return BadLength instead of disconnecting BigReq clients (#4565)

    If a client sends a big request that's too big (i.e. bigger than maxBigRequestSize << 2 bytes), the server just disconnects it. This makes the client receive SIGPIPE the next time it tries to send something.

    The X Test Suite sends requests that are too big when the test specifies the TOO_LONG test type. When the client receives SIGPIPE, XTS marks it as
UNRESOLVED, which counts as a failure.

Instead, remember how long the request is supposed to be and then return that size. Dispatch() checks the length and sends BadLength to the client. Then, whenever oci->ignoreBytes is nonzero, ignore the data read instead of trying to process it as a request.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fa22f97af65efc2a147e9be0b7f288848965ff60
Merge: 6eddb7f9e 6546665293
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 10 11:47:41 2010 -0700

Merge remote branch 'vignatti/vgaarb-fixes'

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6eddb7f9e02ecb069c6fe6c0600fc389553ec5d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Aug 23 11:37:46 2010 -0700

Tag sdksyms.c entries with source file and line number

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9ef6241c2382bfc555284a4985f6d1e37d750d6f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 23 16:04:03 2010 -0400

Fix property and selection devPrivate allocation.

Selection objects were not being allocated with privates, and both objects had a stray statement that zeroed out the devPrivates field.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reported-by: Justin Mattock <justinmattock@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9dca441670d261a9a9fb6108960ed48f3d58fb7f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 6 11:32:38 2010 +1000

xfree86: add a hook to replace the new console handler.
This hook is only necessary for the keyboard driver to remove the race condition between drain_console() and the driver's ReadInput (Bug 29969).

The idea is that a driver that needs to handle events from the console calls xf86ReplaceConsoleHandler() with its own ReadInput (or NULL) and thus removes the drain_console call. It's the driver's responsibility to restore the previous behaviour when the driver is unloaded.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
CC: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit da31ca747f8e3993b2aca5d31b7d09b9907ad1d9
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Thu Sep 2 10:53:28 2010 +0200

linux: Don't lose console events on non-evdev drivers (#29969)

The drain_console() function will race with new keyboard events being added by the hardware causing the server to lose keyboard events if the console fd is used for input.

Only use the drain_console() when AllowEmptyInput is off which is the best indicator we have for whether the keyboard driver will be used. This patch will only fix the bug when hotplugging is disabled.
What we really need is a way to figure out either whether we're _not_ using the keyboard driver (not predictable) or a way for the keyboard driver to disable drain_console().

X.Org Bug 29969 <http://bugs.freedesktop.org/show_bug.cgi?id=29969>

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
(cherry picked from commit 71972c2534d490284d3d2b4156c2f34b964b2894)

commit 52df92a563980a7af0b61248da3654bd90e8232
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 15:08:01 2010 +1000

xfree86: move XI_VERIFY_VALUATORS to the source file it's used in.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 824e970c5ce94fc7d5fe5f78a24d0d3057d87a84
xfree86: remove TS_Raw and TS_Scaled defines.

There are no references to it other than the commit that added them. But since we're re-doing the API anyway, now is a good time to break things.

commit 9398d62f27ee1b287e4458fd8b011c10f7b59fd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 00:18:24 2007 +0200

XFree86 input: Add backwards compatibility for motion history
Add the old motion history API back, as a shim around the new mi API.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit ac3f88e604212fc3668d623798d50aa218c13995
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 15:01:26 2010 +1000

xfree86: remove {Dont}SendCoreEvents defines

The input drivers that use it only do so with ABI 0 and we're long past this one now. Input driver don't have a say in whether they send core events now anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 3f264149f1226d7c0bfcfcfc2c8845fa6326d0bd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 14:52:30 2010 +1000

xfree86: don't export xf86InputDevs.

Use xf86FirstLocalDevice() instead (but don't get me started on the naming of that one...)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 8f0531bdddac8e774aa25b51155445309219da0f6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 14:46:59 2010 +1000
xfree86: remove XI_PRIVATE macro, unused.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit c08f7afdbcf16d2ba30b67e27162c5aaa1ed3f61
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 14:45:03 2010 +1000

xfree86: update comment for xf86DeleteInput

We have a driver hook - it's UnInit.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit b8d9c5f0003f15720737949e65e3159c4f4576e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 14:30:11 2010 +1000

xfree86: remove IDevRec, replace with InputInfoRec.

This struct is superfluous, maintaining the same info as the InputInfoRec
(with the exception of the driver name).

This is a rather large commit with the majority of changes being a rename
from the fields of the IDevRec (idev, commonOptions) to the InputInfoRec
(pInfo, options).

The actual changes affect the initialization process of the input device:
In NewInputDeviceRequest, the InputInfoRec is now always allocated and just
added to the internal list in xf86NewInputDevice() if the init process
succeeded.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit c5da32a6105b3cf57b5996971149c39103cd64b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 14:26:20 2010 +1000

xfree86: plug minor memory leak.

When no identifier for the device was specified, the allocated IDevRec (and
its associated fields) need to be freed.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 34ade08174bf6d52cc79bf26d2ad6a10ca73d2c4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 2 14:04:50 2010 +1000

xfree86: Remove extraOptions parameter from xf86CollectInputOptions.

And unexport it, drivers don't need to call this in the new init process.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 2199842ed50b3eb40d54146827fc58cae7e873ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 2 10:52:54 2010 +1000

xfree86: remove extraOptions field from IDevRec.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 5ab8ca0807f9d2f8c8de2f9a1421e59e2a8e976c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 2 10:41:27 2010 +1000

xfree86: remove some ifdef 0 code.

InputInfoRec hasn't had a free function pointer since the git import.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit b0da1be509446a714eb2b29cbd35d43b1e5187ed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 2 10:39:24 2010 +1000

xfree86: move a declaration down to the block it is used in.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit cd7059db4a766be9d03d7968aebaba8542e6c6c0
xfree86: minor comment fix. HAL config backend

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit f3861522fe7d148fd4b0802f2f9ea5d98ab2db93
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 2 11:47:30 2010 +1000

xfree86: skip a few NULL initialization, calloc does it for us.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 12170978617c6862f6ba286b18aaac0a4e2737
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 15:44:44 2010 +0200

xfree86: remove conversion procs and close proc from InputInfoRec.

None of them are called by the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Fernando Carrijo <fcarrijo@freedesktop.org>

commit 71972c2534d490284d3d42b456c2f34b964b2894
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Thu Sep 2 10:53:28 2010 +0200

linux: Don't lose console events on non-evdev drivers (#29969)

The drain-console() function will race with new keyboard events being added by the hardware causing the server to lose keyboard events if the console fd is used for input.

Only use the drain-console() when AllowEmptyInput is off which is the best indicator we have for whether the keyboard driver will be used. This patch will only fix the bug when hotplugging is disabled.
What we really need is a way to figure out either whether we're not using the keyboard driver (not predictable) or a way for the keyboard driver to disable drain-console().
X.Org Bug 29969 <http://bugs.freedesktop.org/show_bug.cgi?id=29969>

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e00e2e7b68fbc932269d607ac5dc2c441d07ad9d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 23 08:35:01 2010 +1000

xfree86: Check for existence of button class before dereferencing it.

The Irxon Super Mini Bluetooth Wireless Keyboard for PC/PDA/Cell Phones keyboards have axes but not buttons. The evdev driver doesn't set up a button class for these keyboards and a motion event handled by DGAProcessPointerEvent dereferences the dev->button NULL pointer, causing a server crash.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9802cca816884e7f055f054ac1ba9194e0eba10b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 15:42:44 2010 +1000

Remove atom field from InputInfoRec.

This field was only used in one location where we can use a local variable.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 79ea9e9ef39971d008d199b18f34d1ae2bab6e33f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 10 15:19:20 2010 +1000

input: constify valuators passed in by input drivers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 86560b5d05f14bdf04d21b3457a66c0d5045db9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 24 13:46:35 2010 +1000

dix: don't set time to CurrentTime in DeviceChangedEvents.
CurrentTime is used by clients to skip setting the time, but not by the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ff055506f0cbb852bed17acb9f9bbf1d715a854e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 23 13:20:09 2010 +1000

dix: fix crash when removing devices on a buttonless MD pointer (#29669)

If the master does not have a button class, recalculating the number of buttons required for this master dereferences a NULL pointer. Guard against this, if the master pointer doesn’t have a button class, it doesn’t need to update it’s number of buttons.

Reproducible:
Two devices on the same master, device NB with axes but no buttons, device A+B with axes and button .
If NB was the last one to send an event through the master when A+B is removed from the server, master->button is NULL and leads to the above NULL-pointer dereference.

X.Org Bug 29669 <http://bugs.freedesktop.org/show_bug.cgi?id=29669>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit be978c7fc97e98ef1bc7b20c6c0740d8a81b609a
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Tue Aug 3 18:21:28 2010 -0700

xfree86: Purge kbdCustomKeycodes from xf86Info.

This was obsolete after 3eeb62e8f587732e6b433c2b9c6879eb26a3f1b4 "bug #890: completely remove deprecated keyboard driver".

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6922b31a136b2b0a185d61785969a11f84c7943
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Sep 1 14:35:40 2010 +1000

xfree86: remove history_size
For a couple of ABIs now the history size was essentially static anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 892e39025b45109ba38c0b5d0b5f4535e092f58c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 14:33:52 2010 +1000

xfree86: remove always_core_feedback from InputInfoRec.

Unused

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5e2912bd1d2bc8ff1508e5f726e77aa5f8677cb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 14:33:26 2010 +1000

xfree86: remove first/last from InputInfoRec.

Unused.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 974bc2322b3667db38d28063786fbc76fb303d00
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 14:32:51 2010 +1000

xfree86: remove private_flags from InputInfoRec.

Unused field.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 23b361b25b7b48a820a4ef851fb89706f7ec2cd0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 1 14:14:20 2010 +1000

xfree86: Purge old_x/old_y from InputInfoRec.

Unused field.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4ac3be29bc1af19f15e84ee0ea609de5c54ca0e0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 30 14:26:06 2010 +1000
input: Purge AddOtherInputDevices DDX hook.

This hook wasn't used by any DDX. Device addition and removal is handled by
the config backend, so we don't need to do anything special that during the
ListInputDevices request processing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit cb672a461cc6cd668ab7e61994b94e9ff46b3ef1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 30 14:21:14 2010 +1000

input: remove OpenInputDevice and CloseInputDevice DDX hooks.

In theory, these hooks were to be used for DDX-specific device enablement.
None of the DDXs however did anything here. Now we call DEVICE_INIT on all
devices when they are added, so the xfree86 DDX as the only one with real
code didn't do anything here.

kdrive checked for device validity but that's already handled in
ProcXOpenDevice.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a46d2bb3344e822bd9d69cb59829b85f9d8f0213
Author: Simon Thum <simon.thum@gmx.de>
Date:   Sun Jul 18 12:31:26 2010 +0200

xfree86: Fix xf86 backend-specific input initialization

Instead of shoving it in rather unrelated places, move acceleration init
into xf86NewInputDevice.

Caveat: It's not clear atm how relevant other callers of ActivateDevice
(like OpenDevice) actually are.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit e930710ae5579752785d6b96ace4b44bf0199a6e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 30 13:59:29 2010 +1000

xfree86: purge superfluous includes from xf86Xinput.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 2b7840b63da6bc00a40e8a427d9fd719ba5e6d0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 30 13:44:20 2010 +1000

xfree86: remove unused DeviceAssocRec struct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit cd58b3c9f68548af0c69e08c697c83f9a5e671
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 23 14:16:38 2010 +1000

xfree86: remove LocalDeviceRec/Ptr definition.

Two names pointing to the same struct for over 7 years now. Remove the
define, if drivers don't want to change they can always do the typedef
themselves.

Rename all "LocalDevicePtr local" to "InputInfoPtr pInfo".

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 8764782f6de56a9dc5e9d5a8e9fb616a8ddfb27c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 7 11:17:10 2010 +1000

xfree86: add xf86IDrvMsg and friends for input driver logging.

Input driver messages are only standardised by convention, with the drivers
prefixing the device name to most messages. This makes it rather hard to
grep on "evdev" for example when looking for the evdev output.

This patch adds three new logging functions, modeled after xf86DrvMsg(), the
logging function for output drivers. New functions are
xf86IDrvMsg() - input driver log message in default verbosity.

xf86IDrvMsgVerb() - input driver log message in specified verbosity.
xf86VIDrvMsgVerb() - same as xf86IDrvMsgVerb() but takes a varargs argument.

Default log format is <driver name>: <device name>: <message>.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b55ac354afa0f16f71bb4f2d3d4277c887082520
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 12:00:07 2010 +1000

xfree86: move xf86AllocateInput and xf86DeleteInput to xf86Xinput.c

Make xf86AllocateInput static in the process, this function is only called from one location.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit d2a5f4166417b9d4a02a219b28470e41b6cfe012
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 10:30:56 2010 +1000

xfree86: return the device from xf86ActivateDevice.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit fbf35e27f3005cf009f2dd1e112260bb294342c7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 10:28:14 2010 +1000

input: set XKB extension for all new devices, not just xf86 ones.

Right now, Xephyr and others don't get to use XKB on the slave devices.
Which works given that no-one cares about SDs just yet but event processing is different if the ProcessInputProc isn't wrapped properly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 11ed32b62c8793ecc1c68e1e4ba91e2eb45eeff3e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 22 10:24:02 2010 +1000

xfree86: purge SendDragEvents support.

From the documentation:
"This is mainly to allow a touch screen to be used with netscape and other
browsers which do strange things if the mouse moves between button down and
button up."

CLOSED - NOTOURBUG

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 7defd282beb57e8880980416ed579f62d561d1ac
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 22 10:16:15 2010 +1000

xfree86: remove XI86_CONFIGURED flag.

PreInit returns a status code. Let's use that instead of having it report
Success in some cases but not set the XI86_CONFIGURED flag and thus signal
an init failure.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 97a4acdac23b8ff33da43917c10b65d2fee5c07f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 22 10:04:53 2010 +1000

xfree86: purge some unused defines.

These defines have been write-only for a while now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 0fb7a5c261aa0d87d6596d72b70696bffe0c0aff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 22 09:53:35 2010 +1000

input: Purge Register*Device() functions.
RegisterPointerDevice() and RegisterKeyboardDevice() were already mapped to RegisterOtherDevice() and obsolete.

RegisterOtherDevice() was called for all devices and the two assignments can simply be moved into AddInputDevice(). Purge RegisterOtherDevice() and pretend it never happened.

*tlalalalala*

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 67ffbcc14cbe61474520d4531599edca24965543
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 09:24:08 2010 +1000

xfree86: remove superflous assignments.

ActivateGrab and DeactivateGrab are set in AddInputDevice() already.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 4cd54d9ed9e87074734789a9a7708c2218f87f1e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 09:22:05 2010 +1000

xfree86: make xf86ActivateDevice static.

No-one but the joystick driver uses it and that one should be using NIDR instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 31c71425ac13a7f554316356691a79175ea82a67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 22 09:09:10 2010 +1000

config: expose config_info as an input option.

config_info is the only reliable indicator we have in the server for duplicate devices (drivers can test for maj/min on fds as well). Don't set this after the device has been initialized but assume it's important enough to set during NIDR.
This makes the option "config_info" available to the drivers as well.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit de0cc5a72deb7c477e368aa4fe9a713788d7ae4c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 21 16:00:26 2010 +1000

tfree86: rework driver PreInit API - XInput ABI 12

The main change introduced in this patch is the removal of the
back-and-forth between DDX and the driver.
The DDX now allocates the InputInfoRec and fills it with default values. The
DDX processes common options (and module-specific default options, if
appropriate) before passing the initialised struct to the driver.

The driver may do module-specific initializations and return Success or an
error code in the case of a failure.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 7925e8945649d4af237e6c3c5593b895a461bd1e
Author: Chase Douglas <chase.douglas@ubuntu.com>
Date:   Wed Sep 1 14:45:34 2010 +1000

Fix udev population of Bluetooth input device product IDs

The udev device_added function takes the vendor and model IDs of added
devices and converts them into an attribute that can be matched for by
an InputClass configuration using MatchUSBID. Currently, the udev
mechanism works for USB devices, but fails to work properly for
Bluetooth devices. The product IDs of the event node are actually the
IDs of the Bluetooth receiver instead of the device.

This patch reads the product ID from the PRODUCT property of the parent
of the added device. This tag is set correctly for both USB and
Bluetooth input devices. The following devices have been tested by
specifying individual InputClass sections in xorg.conf:

* Apple Keyboard (Bluetooth)
* Apple Magic Trackpad (Bluetooth)
* Apple Magic Mouse (Bluetooth)
* Microsoft Bluetooth Notebook Mouse 5000 (Bluetooth)
Signed-off-by: Chase Douglas <chase.douglas@canonical.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 05e616767e5b7e60b92d31c4042ded5892dce6d4
Author: Adam Tkac <atkac@redhat.com>
Date: Wed Aug 25 10:38:40 2010 +0200

Return Success from generate_modkeymap() when max_keys_per_mod is zero

max_keys_per_mod equal to zero is a valid situation so generate_modkeymap should not return BadAlloc in this case.

Signed-off-by: Adam Tkac <atkac@redhat.com>
Reviewed-by: Patrick E. Kane <pekane52 at gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4a12aecac670deb0d0dafb17c245fcb93ee2a2d60
Author: Jesse Adkins <jesserayadkins@gmail.com>

xfree86: Document terminate not mapped by default (bug 25083)

Document that terminate is not mapped to Ctrl+Alt+Backspace by default, to help alleviate some confusion.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a90052ba8697e217b0dc68057d7b9202ae8797db
Author: David Ge <davidqge@gmail.com>
Date: Thu Aug 19 00:33:57 2010 -0500

xkb: Fix RedirectKey didn't send any event.

Xorg.log shows error: Valuators reported for non-valuator device.
This is caused by uninitialized valuators.mask in __XkbFilterRedirectKey(), which trigger the error in UpdateDeviceState().

Signed-off-by: David Ge <davidqge@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ff109bf84401a451380eb7f3f94a6e0aa2776e3e
Use GetMaster instead of direct u.master access in core procs

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3cc5e4422430e9ca44615f3e63fecccd2e5729046
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 23 14:48:32 2010 +1000

xfree86: fix compiler warning about implicit decl of DuplicateModule.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b5c9953bbf4ffdd11f1a70d058c6d3feb2bd1bca8
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Jul 26 15:31:03 2010 +0300

xkb: Check if AddResource failed

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2e6d7174042cc8007e947b7d9fb54auc0ebe29d2
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Jul 26 15:13:34 2010 +0300

xkb: Fix possible NULL pointer dereference

sli is null before allocation assigment so dereference t osli has to be protected.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
commit d6642de7ebdda16e0056600a86a7802bd4c393b7
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Mon Jul 26 14:50:30 2010 +0300

   xkb: Fix possible NULL pointer dereference

   If search for device failed sli is NULL. In that case we have to protect
dereference to prevent server crash.

   Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit adc0697cfcfba295a15d7a307125093ecbced637f
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Jul 22 15:11:27 2010 +0300

   xkb: Fix memory leak in error path

   map is allocated but not freed if reply length and data don't match.

   Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 67cfb66562cd9d39f30fc6fbc38eb1eb5e5b030
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Jul 22 15:05:57 2010 +0300

   xkb: Remove redurant initialization code

   calloc already initializes allocated memory to zero.

   Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2475ef60977f6813dec74ef0837a5915b8a48bbc
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date:   Thu Jul 22 12:48:55 2010 +0300

   xkb: Fix NULL pointer dereference

   xkb->names is dereferenced in else path too.

   Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
   Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 184ef0d35612d6ed0619283d376f04d9a904f47c
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Jul 22 11:34:54 2010 +0300

  xkb: Don't check for NULL before calling free

  Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1223340644744c0b38aa85f5956eb5ab7c696517
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Jul 22 11:33:33 2010 +0300

  xkb: Fix memory leak if opening file fails

  If fopen fails pointer in buf would be overwritten with a new pointer.

  Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 20cb9c923efa4edc348e3a30f956a66413a8208f
Author: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Date: Thu Jul 22 11:13:10 2010 +0300

  xkb: Use memcpy for copy that has known length

  Fixes warning that strncpy is not able to append NULL to the end of destination.

  Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
  Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de8be07cc0a8163b6ef04455706fd5ca2cebe587
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 17 12:08:52 2010 +1000

  dix: don't create core motion events for non-x/y valuators.

  Devices that send motion events with valuators other than x/y get core motion events with unchanged x/y coordinates. This confuses some applications.

  If the DeviceEvent does not have the x/y valuators set, return BadMatch on core conversion, thus skipping the event altogether.

  Reported-by: Bartosz Brachaczek <b.brachaczek@gmail.com>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Tested-by: Bartosz Brachaczek <b.brachaczek@gmail.com>

commit 08adf41f6315663ebac33d010214d98f3e1c8814
Replace malloc/strlen/strcpy with strdup.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit ea239112b030588ed3cdd113643ba5f6207a5bd9
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Aug 4 09:21:33 2010 +0000

xfree86: Purge parsePrologueVoid.

This was included in the original commit, and then never used.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit b25fb9fe998209e79b6917d12d5765c5f6719a7e
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Aug 4 09:21:32 2010 +0000

xfree86: Removed unused messages from Configint.h

AUTOREPEAT_MSG, MOVED_TO_FLAGS_MSG, and XLEDS_MSG made obsolete by 81913a12910e39d7e6af8657c1c66cc6791cd65 Jul 21 2006 (remove undead files from master)
UNDEFINED_DEVICE_MSG made obsolete by 6033d8150be3a115b90226eaa42f237bb0ef3369 Oct 9 2007 (first pass at video driver autoloading)

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 18b62e0479f15e965611880ada6e0195367df025
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Aug 4 09:21:31 2010 +0000

xfree86: Fix leaks in OpenConfigFile and OpenConfigDir

[mattst88: fixed whitespace and a missing semicolon]

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 4f04fd595e82226f1d91226a41bb98ed3d940b37
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Aug 4 09:21:30 2010 +0000
xfree86: Simplify xf86Msg{,Verb}

Previously, the functions would call xf86VDrvMsgVerb with a screen of -1 despite their comments saying they were for "non-driver messages". They now call LogVMessageVerb, which is what xf86VDrvMsgVerb does anyway when it has a screen == -1.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>
Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit f49473abfd6034e68576b2dd30ba8d8dd0838f
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Wed Aug 4 09:21:29 2010 +0000

xfree86: Remove prototypes for non-existant functions.

This was obsolete from 9a0f25de7ca3c68af867b38936103d17daa92ac6 "Static cleanups, dead code deletion." (server 1.3).

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 747bf5fe80f51554205c5a50b8ed9b89065c8a54
Author: Jesse Adkins <jesserayadkins@gmail.com>
Date: Sun Aug 1 16:01:23 2010 -0700

xfree86: Remove comments about unable to use malloc.

These are leftovers from when X still used Xmalloc and friends for allocation. Now that those are gone, these comments are just confusing.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 65466652936bb2706be455d0a416bcf08e88f66
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Wed May 12 13:03:14 2010 +0300

xfree86: vgaarb: fix device decoding interface to send resources type properly

Right now, when there is more than one vide card on the machine, we’re adopting a pessimistic approach and setting all cards to decode VGA legacy address.

Some cards may want to skip the arbitration and the only way to do so is
through pci_device_vgaarb_decodes. Therefore, send the desired kind of resource instead force the worst case.

Note that xf86VGAarbiterDeviceDecodes is not being used so far by any open-source driver. Even so, API break.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mark Kettenis <kettenis@openbsd.org>

commit 7fb3e7cf4b261194faad747e0bf59d528df6d91
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon May 10 21:05:14 2010 +0300

xfree86: vgaarb: remove useless macro

This was inherited from RAC and was never used there either.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit ad698dd5bce4f3ec1e7ce1117c7ad1052710132
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon May 10 21:03:30 2010 +0300

xfree86: vgaarb: remove superfluous and confusing VGAGet_GC and VGAPut_GC

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit c0aed4c99bfe553bd7b88bc79d0ec8f26d0ab3f94
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon May 10 20:58:30 2010 +0300

xfree86: vgaarb: change macros by inline functions to ease debug

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 79ee78de9de49d0cab03401662bba476a18e53b8
Author: Keith Packard <keithp@keithp.com>
Date: Fri Aug 20 17:32:27 2010 -0700

xserver 1.9.0

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3e56efcfb63677cd8574e1e435e61d96f79ea536
Author: Keith Packard <keithp@keithp.com>
fb: make isClipped always reject negative coordinates (bug 11503)

A window with either dimension > 32767 can be positioned such that coordinates > 32767 are visible on the screen. Attempts to draw to those pixels will generate coordinates wrapped around to negative values.

The optimized clipping macro, 'isClipped', in fbbits.h, computes clipping in window space rather than screen space using int16 values, and so it too has coordinates wrapped around to negative values and hence ends up accepting the wrapped drawing coordinates.

Two possible fixes for this problem

1) Detect wrapped region coordinates and clip those to 32767.
2) Detect negative incoming coordinates and reject those

This patch takes the second approach as it is much shorter, simply detecting when either X or Y incoming coordinate is negative, which can never be 'within' any drawable.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 951605b4660290044fb238bcf1d6d9e4985676e8c
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Fri Aug 20 13:51:04 2010 +0100

edid: Adjust rounding of max_clock

A simple hack to accommodate various EDID who have detailed modes that exceed the EDID's max pixel clock. The pixel clock is only defined in units of 10MHz and often appears as the maximum pixel code of the detailed modes, rounded to the nearest 10MHz. Adjusting the max_clock to include an extra 5MHz prevents the parser from rejecting the detailed modes.

The kernel uses the same fuzz and by including it in X we can use the same modes in X as for the console.

Fixes:

Bug 23833 - X uses different refresh rate to that set by kernel module
https://bugs.freedesktop.org/show_bug.cgi?id=23833

In the future, we will want to try harder to keep the KMS modes but at
the same time we need to apply the restrictions as specified by the
user's configuration, and need to fill in modes for fullscreen games on
fixed-mode panels.

Reported-and-tested-by: Fabio Pedretti <fabio.ped@libero.it>
Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7e581780603d6b15291d032efdecea77f969e0ba
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Thu Jun 24 12:24:58 2010 +0100

glx: Prevent NULL context deref in __glXGetDrawable() (bug 29184)

During a SwapBuffers request, we may end up querying an unknown drawable
outside of an active context, and so need to report this error prior to
attempting to dereference the NULL context.

Also fixes:

[Bug 29184] glXSwapBuffers with no GLX context crashes X.
https://bugs.freedesktop.org/show_bug.cgi?id=29184

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Cc: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5725849a1b427cd4a72b84e57f211ed35838718
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 28 18:08:50 2010 -0400

render: Bounds check for nglyphs in ProcRenderAddGlyphs (#28801)

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fc091936e2bdddbeb9c9a501edc5a5f08388617e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 16 14:18:45 2010 +1000

dix: copy the valuators passed into GPE/GKVE/GProxE.

GPE and friends modify the valuators array passed in. Which means any driver
using e.g. xf86PostButtonEventP(..., valuators) twice to emulate a button
click will provide garbage data on the second run.
This is currently affecting the wacom driver, xf86PostButtonEventP() with valicators is required to have input events with device-specific axis values. Passing the same valicators in twice, once with press, once with release, will see the valulators modified in the first call and garbage submitted in the next one.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6e3e559e9fa63069a10eb834a6dab9a4cfc140ee
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Aug 15 20:53:20 2010 -0700

dix: reset pScreen->root to NULL when root window is deleted.

From: Dave Airlie <airlied@redhat.com>

We were seeing a crash in the FreeAllResources codepath, running valgrind revealed this,

==12536== Invalid read of size 4
==12536== at 0x810BCAB: DeliverPropertyEvent (rrproperty.c:33)
==12536== by 0x80958A4: TraverseTree (window.c:227)
==12536== by 0x809593E: WalkTree (window.c:255)
==12536== by 0x810BC66: RRDeliverPropertyEvent (rrproperty.c:53)
==12536== by 0x810BD5D: RRDeleteProperty.clone.0 (rrproperty.c:76)
==12536== by 0x810BD98: RRDeleteAllOutputProperties (rrproperty.c:88)
==12536== by 0x810A36E: RROutputDestroyResource (rroutput.c:407)
==12536== by 0x808DF4E: FreeClientResources (resource.c:859)
==12536== by 0x808E005: FreeAllResources (resource.c:876)
==12536== by 0x808E2300: main (main.c:305)
==12536== Address 0x46ba8ac is 4 bytes inside a block of size 164 free'd
==12536== at 0x46057F6: free (vg_replace_malloc.c:325)
==12536== by 0x8087F1F: __dixFreeObjectWithPrivates (privates.c:357)
==12536== by 0x809832A: DeleteWindow (window.c:926)
==12536== by 0x808DF4E: FreeClientResources (resource.c:859)
==12536== by 0x808E005: FreeAllResources (resource.c:876)
==12536== by 0x8062300: main (main.c:305)

Its a use after free on the root window, since we have already deleted it at this point. This patch checks if the window we are destroying is the root window and resets the pointer to NULL if it is.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Tested-by: Dave Airlie <airlied@redhat.com>
commit 5d1d9d9ae39fab2ee2ac085f9776f82768828dc8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Aug 1 11:41:58 2010 -0700

    XQuartz: xpr: Bail on errors during unlock and destroy

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ee7fd8fc58d9fadfb92302ddea224537f068538
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Aug 1 11:39:14 2010 -0700

    XQuartz: UpdateScreen at the end of SetRootless

This will ensure that pRoot is unlocked after the miPaintWindow

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4fc4cab98d454afbf0d2f48548b5b481e8e7c82
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jul 29 14:49:10 2010 -0700

    XQuartz: Make application switching work better for the no-spaces case

We still have the issue with not raising the frontmost window for the case when spaces is enabled, and the AppleSpacesSwitchOnActivate preference is disabled.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit e5bc62a03289f956c54c4699edf47f7ff237b5be
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Jul 25 22:29:11 2010 -0700

    XQuartz: Ignore kXquartzToggleFullscreen when rootless

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 71af1f71c0492c365707c6b3810f94642f139352
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 12 23:01:59 2010 -0700

    Bump to version 1.8.99.906 (1.9 RC6)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0af322858e86665ee43f065741318e69c2755510
Silence GCC warning about uninitialized lastSlave variable

Not an actual bug, but gcc can't tell that this variable cannot be used without being initialized

Signed-off-by: Keith Packard <keithp@keithp.com>

Stop checking or calling PtrCtrlProcs

None of them do anything useful now that pointer acceleration is entirely handled in the server. (Does not completely nuke yet, since that would be an API/ABI break.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: parser: Never use constant strings for driver names (fixes #17438)

When the parser sees the "keyboard" driver, it automatically (and silently) replaces it with the constant string "kbd". Everybody else uses malloc'd memory for the driver name, so input device closure assumes it can use free. Free val.str, so this crash doesn't turn into a memory leak. Whew.

Signed-off-by: Jesse Adkins <jesserayadkins@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: reset the unused classes pointer after copying

After copying the unused_classes into the device, reset the original pointer. Otherwise we have two pointers pointing to the same field and both
get freed on device removal.

Some classes already have this behaviour since 51c8fd69.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 1a172f3297369a72865232c382abfc14281102a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 23 13:24:34 2010 +1000

xkb: if the button isn't down, don't fake an event.

If the button we're about to fake isn't down (or up), don't fake a release (or press) event for it. Behaviour is the same as before, this just saves a few cycles.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 651c36e95ec0ac60d3fb98966df4218712ae78c2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 23 11:46:30 2010 +1000

xkb: post-fix PointerKeys button events with a DeviceChangedEvent.

commit 14327858391ebe929b806efb53ad79e789361883
xkb: release XTEST pointer buttons on physical releases. (#28808)
revealed a bug with the XTEST/PointerKeys interaction.

Events resulting from PointerKeys are injected into the event processing stream, not appended to the event queue. The events generated for the fake button press include a DeviceChangedEvent (DCE), a raw button event and the button event itself. The DCE causes the master to switch classes to the attached XTEST pointer device.

Once the fake button is processed, normal event processing continues with events in the EQ. The master still contains the XTEST classes, causing some events to be dropped if e.g. the number of valuators of the event in the queue exceeds the XTEST device's number of valuators.

Example: the EQ contains the following events, processed one-by-one, left to right.

[DCE (dev)][Btn down][Btn up][Motion][Motion][...]
^ XkbFakeDeviceButton injects [DCE (XTEST)][Btn up]

Thus the event sequence processed looks like this:
The first DCE causes the master to switch to the device. The button up event injects a DCE to the XTEST device, causing the following Motion events to be processed with the master still being on XTEST classes.

This patch post-fixes the injected event sequence with a DCE to restore the classes of the original slave device, resulting in an event sequence like this:

[DCE (dev)][Btn down][Btn up][DCE (XTEST)][Btn up][DCE (dev)][Motion]

Note that this is a simplified description. The event sequence injected by the PointerKeys code is injected for the master device only and the matching slave device that caused the injection has already finished processing on the slave. Furthermore, the injection happens as part of the the XKB layer, before the unwrapping of the processInputProc takes us into the DIX where the DCE is actually handled.

Bug reproducible with a device that reports more than 2 valuators. Simply cause button releases on the device and wait for a "too many valuators" warning message.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 6dac7f3792611aace1df0c63b6f50c50d93de43
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date:   Tue Aug 10 19:30:20 2010 +0100

xace: Invalid reference to out-of-scope data.

The callback data passed by reference to the hook was allocated on stack within the scope of the case statement. The compiler is free to reuse any of that stack space whilst making the function call so we may end up passing garbage into the callback.

References:

Bug 18451 - Xorg server 1.5.2 SEGV during XFixesGetCursorImage()
https://bugs.freedesktop.org/show_bug.cgi?id=18451

v2: Drop the unrelated hunk that snuck in when ammending the commit message.

Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Commit fbd02046797185715e1a120d52e410ec78fc365f
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Thu Aug 5 15:19:20 2010 +0100

Cygwin/X: Fix glxWinCreateDrawable() for API change.

Commit 9de0e31746d5f0d9d39d11c94ec3cbe04a9935fc changed the signature of __GLXScreen's createDrawable method.

Update the glxWinCreateDrawable() function in XWin's GLX provider appropriately.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Tested-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit ff70848e623920779d20f35d47e9e1f34157de47
Abstract: Don't let alpha maps recurse in fb. Bug 23581.

Recursive alpha maps (where one picture's alpha map is set to a picture with an external alpha map) would be all fine and dandy, except for the case where the client constructs a loop. Detecting this case when setting the alpha map values would be difficult as any time an alpha map is set, the server would have to check for the looping case.

Instead, a far simpler fix is to simply disallow recursive alpha maps in the rendering code, the Render spec is ambiguous in this area and allows us to to ignore the recursive case.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

Commit 70a94c5b7a42adc0995bf774c44587a0778be0d0
Abstract: rootless: fix uninitialized private key assert in non-rootless modes in Cygwin/X

IsFramedWindow() is called from miPaintWindow() if the server has been built with ROOTLESS defined, irrespective of if RootlessInit() has ever been called, or not.
Add a check to IsFramedWindow() to check if rootlessWindowPrivateKey has been registered (as a proxy for checking if the rootless extension has been initialized) so we don't go on to try to use that key, triggering an assert.

This bug exposes what appears to be a difference in opinion about the rootless extension between XQuartz and XWin. XQuartz always initializes the rootless extension, whereas XWin offers several modes of operation, and the rootless extension is only used for one of them.

That probably means that the all code under compile time guard for ROOTLESS should be carefully checked that it doesn't also need to be under a run-time guard.

(I've reviewed the other ROOTLESS blocks in dix/events.c and dix/window.c and they look ok -- keithp)

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

fonts: Fix refcounting for asynchronous font operations (#3040)

When doing Xinerama, we'll dispatch font ops across all backend screens. If using a font server (such that some operations can sleep), we'll put the client to sleep once for each screen, but only wake up once, because we're trying to keep track of the sleep count in _each_ screen's closure.

Instead, just ask the core whether the client is already asleep.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

doc: add missing .gitignore for Xserver-DTrace

The dtrace doc was recently added in commit 9c171d4ae695ab66e6db1ab92539557bd368cfa
Check HAVE_XMLTO_TEXT before trying to use xmlto to make text files

Xserver-spec: Update ChangeGC prototype, add ChangeGCXIDs

Update Xserver-spec for new devPrivates API

Correct function name in dixRegisterPrivateKey comments

Set DamageSetReportAfterOp to true for the damage extension

Change the damage extension reporter to queue up events after we chain to the wrapped functions. Damage events are typically sent out after
the rendering happens anyway, since we submit batch buffers from the
flush callback chain and then flush client io buffers. Compositing
managers relieve on this order, and there is no way we could reliably
provide damage events to clients before the rendering happens anyway.

By queueing up the damage events before the rendering happens, there's
a risk that the client io buffer may overflow and send the damage
events to the client before the driver has even seen the rendering
request. Reporting damage events after the rendering fixes this
corner case and better corresponds with how we expect this to work.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c65f610e12f9df168d5639534ed3c2bd40afffc8
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Thu Jul 29 18:52:35 2010 -0400

Always call the flush callback chain when we flush client buffers

We were missing the callback in a couple of places. Drivers may use
the flush callback to submit batched up rendering before events (for
example, damage events) are sent out, to ensure that the rendering
has been queued when the client receives the event.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 7e0575baf14ec4a89492fd2780f9ab5b9244afbd
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Jul 27 23:32:36 2010 -0400

ddc: Fix memory leak in GetEDID_DDC1

Mark argument to DDC_checksum as const too.

Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 750d4e82a0c1161292d24216b4e0f200cd6647611
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Jul 29 11:39:40 2010 -0700

XQuartz: xpbproxy: Don't take down the whole server on an IO error

Calls pthread_exit to prevent _XIOError from calling exit()
This fixes http://xquartz.macosforge.org/trac/ticket/421

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 98f90145d786695ecbc02a667c6ffe7c619dc67e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Wed Jul 28 18:08:02 2010 -0700

XQuartz: GLX: Don't mangle __GLXDrawable's pDraw

We were incorrectly NULLing pDraw in __GLXDrawable instead of ours in __GLXAquaDrawable. (we should refactor to eliminate this redundancy later)

This was causing http://xquartz.macosforge.org/trac/ticket/426
This was benign until commit f0006aa58f6c7f552a239e169ff6e7e4fda532f4
The root cause of this change was fed7ccc481ad1caaa518cafe944e2327a5d0b6c65

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9c171d4aee695ab666db1ab92539557bd368cfa
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Fri Jun 25 16:52:42 2010 -0700

Add documentation of the Xserver DTrace probes

Mostly pulled together from posts to my blog and the docs posted at http://people.freedesktop.org/~alanc/dtrace/ and converted to DocBook.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Patrick E. Kane <pekane52@gmail.com>

commit 6b912b08ce65072b2401167fbc2150b99c0ca6b0
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Jun 19 23:56:20 2010 -0700

Add name argument to CreateNewResourceType documentation

Reflects API change made in commit 895f40792a during Xorg 1.8 development

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Patrick E. Kane <pekane52@gmail.com>

commit 44c9350d72b3eda982c642feb45d6648afc626cf
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat Jun 19 23:40:37 2010 -0700

Use DocBook stylesheets from xorg-sgml-doctools if they're available
Bumps minimum xorg-macros requirement from 1.6 to 1.10

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Patrick E. Kane <pekane52@gmail.com>

commit 9fbbff3c0456f1969d45cc957d3260723caf62d7
Merge: 95756f410c 9ac8e206ff
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 21 11:56:39 2010 -0700

Merge remote branch 'whot/for-keith'

commit 9ac8e206ffe1016a8bc203261ade6c763a8a486
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 15 15:46:15 2010 +1000

xbk: use GetMaster instead of dev->u.master.

Devices that are both pointers and keyboards are not affected by keyboard
changes as their master device is a master pointer, not a master keyboard.
Use GetMaster() instead to ensure devices that are attached to the paired
master pointer device will still be update.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c54f81ba7a58fa37a612bd9a45276bb2922b5d8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 15 13:24:14 2010 +1000

dix: hack around enter/leave event issues for grabbed devices (#27804)

The current core enter/leave does not cater for device grabs during
enter/leave events. If a window W contains a pointer P1 and a client grabs a
pointer P2, this pointer will not generate enter/leave events inside this
window.

Hack around this by forcing grabbed devices to always send enter/leave
events.

X.Org Bug 27804 <http://bugs.freedesktop.org/show_bug.cgi?id=27804>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 95756f410c65a6510a797e94a792b959d45cdb9e
rootless: Adjust the frame size of the native root window in RootlessResizeWindow

If the native root window isn't resized as well, we will likely crash the next time we draw to the root. On OS X, this can be seen by:

1) Put the display preferences in the menu bar and set X11’s preferences so you can access the menu bar in fullscreen mode
2) Set the resolution of your screen lower than normal.
3) Start X11 in fullscreen mode. The root window will cover the screen as expected.
4) Use the menu bar to increase the resolution of the display. The root window will now cover the old area and not the full screen, but 'xwininfo -root' will report the full width.
5) Run 'xsetroot -solid red', and we have the crash you mention above.

Leaving/entering fullscreen after #4 will fix the problem. This is because the WINREC is erased when we leave fullscreen mode and it is recreated upon re-entry:

RootlessUpdateRooted(FALSE)
   RootlessDisableRoot(screenInfo.screens[0])
   RootlessDestroyFrame (pRoot, winRec);
RootlessUpdateRooted(TRUE)
   RootlessEnableRoot(screenInfo.screens[0])
   RootlessEnsureFrame(screenInfo.screens[0]->pRoot)
creates a new WINREC...

Signed-off-by: Jan Hauffa <hauffa@in.tum.de>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-By: Jon TURNEY <jon.turney@dronecode.org.uk>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a2c13f0d6548310e3cd115cf486d3e43edf23dcc
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 14 12:57:29 2010 -0700

  Bump to version 1.8.99.905 (1.9 RC5)

  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0fc02c0b92f694889589e3648acc08d4684de37
Merge: 0540c46066 9d8ec712a6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 13 15:05:36 2010 -0700
EXA: Finish access to pixmap if it's prepared at destruction time.

Previously we assumed every pixmap destroyed during a software fallback was also created during a software fallback and had access prepared, but that's not always true.

Fixes a server abort

Reported-by: <bupt.dengyixin@gmail.com>

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Unwrap/rewrap EnterVT/LeaveVT completely, Fixes 28998

Because some EnterVT code needs to remove it self from the call chain, we need to fix all of the wrappers to correctly unwrap/rewrap during the call chain. This is a follow-on to the fix for bug 27114 in commit 68a9ee8370e6f9b38218376ac92d5130a5b0ef1e.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Jesse Barnes <jesse.barnes@intel.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

XQuartz: Bump bundle version to 2.6.0 for xorg-server-1.9.0 and X11R7.6

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

XQuartz: Remove some dead code.
XQuartz: Avoid a crash when mistakenly free()ing in QuartzSetCursor on some configs

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

DRI2: re-allocate DRI2 drawable if pixmap serial changes

If a pixmap header is modified or the drawable serial changes, some aspects of the drawable are likely to have changed so we should re-allocate the corresponding DRI2 drawable in that case. This is one way of catching when the root window pixmap changes through xrandr.

Fixes bug https://bugs.freedesktop.org/show_bug.cgi?id=28365.

miModifyPixmapHeader: always update serialNumber

We should update the serial number even if we just change a single field.
Merge remote branch 'whot/for-keith'

commit fd4f5059f08165a726071de9f1ca877038292f6f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 6 09:19:09 2010 +1000
dix: purge leftover manual key down bit setting.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit a1afe172559aff010e886cfc2a7a922d4a06c697
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 6 09:16:42 2010 +1000
dix: add aux. functions for button_is_down, set_button_down, set_button_up.

Same as the matching key functions. Buttons, like keys, can have two states
for down/up - one posted, one processed. Posted is set during event
generation (usually in the signal handler). Processed is set during event
processing when the event queue is emptied and events are being delivered to
the client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 32473d6bf38c95b2d6d5ddbf583a1e801c6605e4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 6 08:56:12 2010 +1000
dix: use BitIsOn/SetBit/ClearBit macros for set_key_down helpers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit c18442908080c9833df6bb2ff367945d1892421
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 5 16:47:57 2010 +1000
Xi: use set_key_up/down instead of manual bit handling.

We have the wrappers, use them.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 10442ce02b5be7f82b373bee1939e2b523e291d9
Author: Peter Hutterer <peter.hutterer@who-t.net>
dix: treat flags as flags, not as value in key_is_down.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit b46fdd25d3f211e91c67bc618ecbd58257939388
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 2 15:25:14 2010 +1000

mi: rename miPointerMoved to miPointerMoveNoEvent.

Having miPointerMove and miPointerMoved is confusing, especially since both
do the same thing bar the event delivery. Also, miPointerMove calls
miPointerMoved which indicates some confusion in the temporal alignment of
cause and effect.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit dbd621705a5211540b353af81c4af83c297b74dc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 2 14:22:03 2010 +1000

mi: De-duplicate some code in mipointer.c

miPointerMoved already has the same code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c65280ce8df4836bd7424a90482e8aa0ab6f447
Author: Robert Hooker <sarvatt@ubuntu.com>
Date: Sat Jun 12 20:23:09 2010 -0400

Increase advertised RENDER protocol minor version to 11

Support for the blend mode operators was added in
0ce42adbf4cffe9e7f049d9fc79d588ece5936177
and the requirement was bumped but when things were split off into
include/protocol-versions.h it defined it to 10. render uses
the lower of the client and server advertised versions so it's not
using the new blend mode operators.

Signed-off-by: Robert Hooker <sarvatt@ubuntu.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9f0b193acdc29e491b6245390cf9f53b5222e6d3
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 1 09:13:43 2010 -0400

miDbe window priv priv is pre-allocated, don't use dixSetPrivate (bug 28639)

miDbeInit pre-allocates space in each DBE window private private for a
MiDbeWindowPrivPrivRec. miDbeAllocBackBufferName used the
pre-allocated space correctly (simply fetching it instead of
allocating a new piece of memory). However, it then called
dixSetPrivate anyways, which isn't necessary, and (in the new
dixPrivate world) causes an assert failure.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Magnus Kessler <Magnus.Kessler@gmx.net>
Reviewed-by: Magnus Kessler <Magnus.Kessler@gmx.net>

commit a94cb400d15b8c78dc04148cbd8db8e5ec8364b5
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 1 09:11:36 2010 -0400

Delete unused miDbe screen private private datatype

MiDbeScreenPrivPrivRec is not used in the server. Remove it, along
with the MI_DBE_SCREEN_PRIV_PRIV macro that tried to use it.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Magnus.Kessler <Magnus.Kessler@gmx.net>

commit f0fcffe55f280add5e4db2f5e9198a48c6f1b015
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu Jun 3 19:00:54 2010 -0700

Update the sprite immediately when moving it with MouseKeys

Fix for OpenSolaris bug 6949755: Mouse Keys are unusable
and possibly https://bugs.freedesktop.org/show_bug.cgi?id=24856

Ensures waitForUpdate is False before calling SetCursorPosition.
Normally waitForUpdate is False when SilkenMouse is active, True
when it's not. When it's True, the mouse cursor position on
screen is not updated immediately.

This is more critical on Solaris, since we disabled SigIO, thus in turn
disable SilkenMouse, due to the SSE2 vs. signal handler issues described in
Sun bugs 6849925, 6859428, and 6879897.
Add API to update setting of waitForUpdate screen private in miPointer

Merge remote branch 'whot/for-keith'

Revert "xkb: merge lockedPtrButtons state from all attached SDs."

Preparing to merge Peter's branch.

This reverts commit 6052710670953b43b4fff5d101b727163fcb1187.

Revert "Revert "dix: use the event mask of the grab for TryClientEvents.""

Preparing to merge Peter's branch.

This reverts commit 018c878e9495b21146c8f38617fdd1bf6d8cc73b.

Cast void* to pointer* to appease some compilers.
When this privates.h is included in C++ builds, the compiler complains about implicitly casting void* to void**. This small patch fixes that up.

Signed-off-by: James Jones <jajones@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 14327858391eb0929b806efb53ad79e789361883
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 1 12:44:57 2010 +1000

xkb: release XTEST pointer buttons on physical releases. (#28808)

If a button release event is posted for the MD pointer, post a release event through the matching XTEST device. This way, a client who posts a button press through the XTEST extension cannot inadvertently lock the button.

This behaviour is required for historical reasons, until server 1.7 the core pointer would release a button press on physical events, regardless of the XTEST state. Clients seem to rely on this behaviour, causing seemingly stuck grabs.

The merged behaviour is kept for multiple keyboard PointerKey events, if two physical keyboards hold the button down as a result of PointerKey actions, the button is not released until the last keyboard releases the button.

X.Org Bug 28808 <http://bugs.freedesktop.org/show_bug.cgi?id=28808>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a71dbc03e65cf7b0654a6eca93ce0bf6a1711ffa
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 1 08:27:05 2010 -0400

Bump to version 1.8.99.904 (1.9 RC4)

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5ea497fc32202ff19c2b7d8ef4eba08889108a87
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jun 29 16:08:02 2010 +0300

xfree86: configure: remove vendor and card name matching rules

Although vendor and board naming are used to create the configure file, the server doesn't actually use it when fetching such file and probing devices.
xfree86: pci: remove superfluous vendor and card name logging

X server suffers in startup time when relying on the pciaccess's linear search to fetch vendor and video device name from PCI ID file (when existent). Such names are only used to write the log, which may be superfluous. This information often is provided by the drivers or likewise users can get the it using external tools like lspci or scanpci.

This patch remove the references of those functions from X start up.

xkb: emulate PointerKeys events only on the master device.

This patch replicates the behaviour for button events. Only generate a PointerKeys motion event on the master device, not on the slave device. Fixes the current issue of PointerKey motion events generating key events as well.

xkb: merge lockedPtrButtons state from all attached SDs.
Problem:
lockedPtrButtons keeps the state of the buttons locked by a PointerKeys button press. Unconditionally clearing the bits may cause stuck buttons in this sequence of events:

1. type Shift + NumLock to enable PointerKeys
2. type 0/Ins on keypad to emulate Button 1 press
   button1 press event to client
3. press and release button 1 on physical mouse
   button1 release event to client

Button 1 on the MD is now stuck and cannot be released.

Cause:
XKB PointerKeys button events are posted through the XTEST pointer device. Once a press is generated, the XTEST device's button is down. The DIX merges the button state of all attached SDs, hence the MD will have a button down while the XTEST device has a button down.

PointerKey button events are only generated on the master device to avoid duplicate events (see XkbFakeDeviceButton()). If the MD has the lockedPtrButtons bit cleared by a release event on a physical device, no such event is generated when a keyboard device triggers the PointerKey ButtonRelease trigger. Since the event - if generated - is posted through the XTEST pointer device, lack of a generated ButtonRelease event on the XTEST pointer device means the button is never released, resulting in the stuck button observed above.

Solution:
This patch merges the MD's lockedPtrButtons with the one of all attached slave devices on release events. Thus, as long as one attached keyboard has a lockedPtrButtons bit set, this bit is kept in the MD. Once a PointerKey button is released on all keyboards, the matching release event is emulated from the MD through the XTEST pointer device, thus also releasing the button in the DIX.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09645864f5a52882eee51c801b3e610d683e7147
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 29 13:49:27 2010 +1000

  xkb: Mark switch case fallthrough with comment.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c7330ecb5d28d7a92d24feb289f7f1812ce055a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
dix: fix up erroneous error message.

(WW) Device 'device name' has 36 axes, only using first 36. does seem a bit silly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dbf249ec6638f0a8dfa4c2286099845aafc8ac88
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 29 10:43:51 2010 +1000

xkb: remove now obsolete comment.

Looks like nothing broke from removing the hardcoded CoreProcessPointerEvent call. Whoop. Di. Doo.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f028e70ca714f6956e41754f132cb9b8a1e8db63
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jun 30 08:33:55 2010 -0700

Initialize dev privates before using any

Initializing the dev privates code after allocating the server client dev privates would cause the memory leak check to fire at server startup or reset.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acknowledged-by: Daniel Stone <daniel@fooishbar.org>

commit 433d0851cd3e61d841ff374ee0a0f052d5907029
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Jun 25 11:34:44 2010 +0100

Xephyr: fix Xv adaptor capability tests

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9626eedb6f620559652ffbf1fe82b5d659e57be
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jun 24 18:45:11 2010 +0100

configure: bail if Xephyr was requested but its dependencies are missing
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e6531ae9d5bdd37775e921268366fb76056e22d5
Author: Julien Cristau <jcristau@debian.org>
Date: Thu Jun 24 18:45:10 2010 +0100

Xephyr: fix memory leak in XF86DRIOpenConnection

The allocated bus id string was not being freed.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 390a8466dd1914f4786b811ff8454f6e0c4b6b04
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date: Mon Jun 28 23:26:48 2010 +0300

xfree86/modes: Allow the driver to specify initial rotation

When the "Rotate" option isn't specified allow the driver to specify the initial rotation mode. This way the driver can choose to retain the same settings that were used by software that was used prior to starting X.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6052710670953b43b4fff5d101b727163fcb1187
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 30 08:21:04 2010 -0700

xb: merge lockedPtrButtons state from all attached SDs.

Problem:
lockedPtrButtons keeps the state of the buttons locked by a PointerKeys button press. Unconditionally clearing the bits may cause stuck buttons in this sequence of events:

1. type Shift + NumLock to enable PointerKeys
2. type 0/Ins on keypad to emulate Button 1 press
   button1 press event to client
3. press and release button 1 on physical mouse
   button1 release event to client
Button 1 on the MD is now stuck and cannot be released.

Cause:
XKB PointerKeys button events are posted through the XTEST pointer device. Once a press is generated, the XTEST device's button is down. The DIX merges the button state of all attached SDs, hence the MD will have a button down while the XTEST device has a button down.

PointerKey button events are only generated on the master device to avoid duplicate events (see XkbFakeDeviceButton()). If the MD has the lockedPtrButtons bit cleared by a release event on a physical device, no such event is generated when a keyboard device triggers the PointerKey ButtonRelease trigger. Since the event - if generated - is posted through the XTEST pointer device, lack of a generated ButtonRelease event on the XTEST pointer device means the button is never released, resulting in the stuck button observed above.

Solution:
This patch merges the MD's lockedPtrButtons with the one of all attached slave devices on release events. Thus, as long as one attached keyboard has a lockedPtrButtons bit set, this bit is kept in the MD. Once a PointerKey button is released on all keyboards, the matching release event is emulated from the MD through the XTEST pointer device, thus also releasing the button in the DIX.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 28e33ae6f69f716ece5d68e63fc52557236c5f6e
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Wed Jun 30 07:59:04 2010 -0700

OS support: fix writeable client vs IgnoreClient behavior

When ResetCurrentRequest is called, or IgnoreClient is called when a client has input pending, IgnoredClientsWithInput will be set. However, a subsequent IgnoreClient request will clear the client fd from that fd set, potentially causing the client to hang.

So add an Ignore/Attend count, and only apply the ignore logic on the first ignore and the attend logic on the last attend. This is consistent with the comments for these functions; callers must pair them.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=27035.
Revert "dix: use the event mask of the grab for TryClientEvents."

Behaviour of earlier X servers was to deliver the ButtonPress event unconditionally, regardless of the actual event mask being set. Thus, a GrabButton event will always deliver the button press event, a GrabKey always the key press event, etc. Same goes for XI and XI2.

Reproducible with a simple client requesting a button grab in the form of:

```
XGrabButton(dpy, AnyButton, AnyModifier, win, True, ButtonReleaseMask, GrabModeAsync, GrabModeAsync, None, None);
```

On servers before MPX/XI2, the client will receive a button press and release event. On current servers, the client receives only the release. Clients that expect the press event to be delivered unconditionally may leave the user with a stuck grab.

XTS test results for XGrabButton are identical with and without this patch.

This reverts commit 48585bd1e3e98db0f3f1ecc68022510216e00cc.

Conflicts:

dix/events.c

Revert "dix: use the event mask of the grab for TryClientEvents."

Behaviour of earlier X servers was to deliver the ButtonPress event unconditionally, regardless of the actual event mask being set. This is documented in the protocol:

"This request establishes a passive grab. In the future, the pointer is actively grabbed as described in GrabPointer, the last-pointer-grab time is
set to the time at which the button was pressed (as transmitted in the
ButtonPress event), and the ButtonPress event is reported if all of the
following conditions are true:

    <list of conditions, event mask is not one of them>"

Thus, a GrabButton event will always deliver the button press event, a
GrabKey always the key press event, etc. Same goes for XI and XI2.

Reproducible with a simple client requesting a button grab in the form of:

    XGrabButton(dpy, AnyButton, AnyModifier, win, True, ButtonReleaseMask,
                GrabModeAsync, GrabModeAsync, None, None);

On servers before MPX/XI2, the client will receive a button press and
release event. On current servers, the client receives only the release.
Clients that expect the press event to be delivered unconditionally.

XTS Xlib13 XGrabButton 5/39 now passes.

This reverts commit 48585bd1e3e98db0f3df1ecc68022510216e00cc.
Effectively reverts commit 1c612acca8568fdff9761d23f112ada4d496f1b as well,
the code introduced with 1c612 is not needed anymore.

Conflicts:

    dix/events.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 3b3c77b87070ddcd2b2a114a81628485e7a129
Author: Tiago Vignatti <tiago.vignatti@Nokia.com>
Date: Wed Jun 23 15:18:04 2010 +0300

configure: don't check xfont always for each server

It's already defined inside REQUIRED_LIBS and all DDX are getting it already.
No semantical changes.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 75536ee80595ce79bba95a1fb684426ee08486d4
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Wed Jun 23 15:18:03 2010 +0300
dix: use one single function to register fpe fonts

X server doesn't need to understand fpe internals, so use register_fpe_functions from libXfont.

It's required to get new version of libXfont, therefore adjust it to be passed to autoconf.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a68a101a730df7f73421555e381a50b074607c5e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 22 12:13:26 2010 -0700

Bump to 1.8.99.903 -- 1.9 RC3

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2c0159d21788b16607e6ebe4571b57fe78545c2a
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Mon Jun 14 09:25:22 2010 -0400

list.h: Fix list_for_each_entry_safe()

Can't use next as a macro argument since we're accessing the .next field of struct list.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e2918b67395a48397bf7db545584cc2d4f4e7ccf
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 22 12:11:20 2010 -0700

Revert "mi: Remove unused overlay support"

This reverts commit 9120e58556014e514eef9dfe43cdea4b74dc66ae.

Whoops, please revert this patch -- overlay is in use in nvidia drivers, and it's too late in release cycle to remove it.

I feel really sorry that I kept this patch in my tree. I will submit another one, removing only XAA overlay hooks which are not used at all.
Bump to 1.8.99.902 -- 1.9 RC2

record: Prevent a crash on recording client disconnect.

Execute the following steps to reproduce the issue.

1. Run at least two recording clients simultaneously.
   $ cnee --record --request-range 1-127 &
   $ cnee --record --request-range 1-127 &
2. Kill the recording clients.
   $ killall cnee
3. Give X server something to do so that the clients are closed.
   $ xinput list
   $ xinput list

As a result RecordUninstallHooks accesses NullClient, because
RecordAClientStateChange doesn't clean the recording clients up
properly.

Fix RecordUninstallHooks to fail locally on an assertion instead of
much later in privates code, if NullClient is still accessed because
of some other bug. Fix RecordAClientStateChange to iterate through all
contexts so that modifications of the iterated array during iteration
don't cause contexts to be skipped.

Don't crash when asked if a client that has disconnected was local

ProcDRI2Dispatch uses LocalClient to determine if it's safe to respond
to a client that has made DRI2 requests which aren't sensible for
remote clients (anything but version). When the client has disappeared
mid-request stream (e.g. as a result of a kill -9, or a client-side
bug), LocalClient causes the X server to follow suit, as
((OsCommPtr)client->osPrivate)->trans_conn is NULL at this point.

The simple and obvious fix is to just return "not local" when
trans_conn is NULL, which fixes the crash I was seeing; however Keith
Packard pointed out that just checking trans_conn isn't enough;
quoting Keith:

"This looks almost right to me -- I reviewed the os code to see when
_XSERVTransClose is called (which is what frees the trans_conn data) and
found that every place which called that immediately set trans_conn to
NULL, except for the call in CloseDownFileDescriptor which is only
called from CloseDownConnection and which is immediately followed by
freeing the OsCommRec and setting client->osPrivate to NULL. So, I'd
suggest checking client->osPrivate in addition to the above check."

Signed-off-by: Simon Farnsworth <simon.farnsworth@onelan.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

composite: fix freeing of old pixmap until after move/resize/cbw (bug 28345)

The fixes for the composite reallocation failure, were freeing the old pixmap
straight after reallocating the new one, however this led to some weird
effects in e16 compositing, and I think in a few other places. This patch
moves the freeing of the pixmap into the post wrapped stage. I'm not sure if
we are actually better off breaking ABI and adding another callback from the
ConfigureWindow to composite to make sure the old pixmap is always freed,
but this should be satisfactory as we should always hit one of the freeing
paths or else its a bug in the DIX.

bug: https://bugs.freedesktop.org/show_bug.cgi?id=28435

Reported-by: Andrew Randrianasulu <randrik@mail.ru>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

dri2: avoid crash with old dri drivers.
I built latest server and copied over a mesa 7.8 dri2 driver to use with it, and it crashed in here starting compiz. Looks like we need to validate the flush extension is registered before calling invalidate.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 80d1a548d6ce73c2ff097536e1bc7044bf74965d
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Jun 21 10:05:08 2010 +1000

rotation: fix cursor and overlap of one pixel.

Commit 77c7a64e888569665556c9fbb3cfff552e367a was introduced to fix a cursor off by one on Intel hw, however it also move the whole crtc into an off by one position and you could see gnom-eshell overlapping.

This commit reverts that and instead fixes the cursor hotspot translation to work like pixman does. We add 0.5 to the cursor vector before translating, and floor the value afterwards.

Thanks to Soeren (ssp) for pointing out where the real problem was after explaining how pixman translates points.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 32c706c4ffd7433dbfc79db8785b1510d2f053f
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sun Jun 20 20:37:26 2010 -0400

config: declare xserver private dependencies in xorg-server.pc

Any module (drivers) depending on xserver also depends on some of the server private dependencies. Any driver including xf86.h depends on xext, kbproto, inputproto and randr.

These dependencies are in separate packages, so anything can happen, removal, wrong version, etc... and the driver fails during compilation. Having the private dependencies declared will ensure all packages the server depends on are present and at the correct version.

Currently each module attempts to check for server dependencies with various degrees of accuracy. With this patch, the driver will only need
to check for its own explicit dependencies.

Now that xproto is included in Requires.private it is removed from Requires. All the cflags from both Requires and Requires.private are returned to caller to pkg-config.

Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 37734ba79ca3a9bad1c1e29d89710c8f9c299210
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Jun 16 18:07:04 2010 +0100

XWin: Fixes for devPrivates API change

Fix some typos in devPrivates API changes in XWin code.
Move allocation of private keys as it's no longer valid to do them during OsVendorInit()

Reviewed-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f7dae972aac28c5792566e997c40254e787d246a
Author: Ville Syrjälä <ville.syrjala@nokia.com>
Date:   Tue Jun 15 23:25:34 2010 +0300

xv: Don't send port notify when SetPortAttribute fails

Currently a port notify event is sent even if SetPortAttribute fails. Furthermore the value field in the event will contain the value that was specified in the failed request. So any client interested in the actual value of the attribute will have to double check the current value with GetPortAttribute after receiving a port notify event.

Fix the problem by sending port notifications only when SetPortAttribute succeeds.

Reviewed-by: Ville Syrjälä <ville.syrjala@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c20166739603f868888f28ca2c65f5cf474d0d8c9
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jun 12 01:05:07 2010 +0700

os: Remove unused dev_tty_from_init variable
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 2e15f1903dac8473285ad2937c079a08cf7c5d31
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jun 12 00:53:38 2010 +0700

os: Remove unused pread/pwrite/lockit functions

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 9120e58556014e514eef9dfe43cdea4b74dc66ae
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jun 12 00:30:27 2010 +0700

mi: Remove unused overlay support

The only reference to it in server and drivers is in XAA overlay code which
would segfault as no miInitOverlay is called ever. No segfaults were observed
"in wild", so XAA overlay is probably also unused.

XAA code is modified to act as if miOverlayCopyUnderlay always returned false,
because XAACopyWindow8_32 could only set doUnderlay to true if it's called from
miOverlayMoveWindow or miOverlayResizeWindow, which can only be called if
miInitOverlay has hooked those functions, and no driver (on fd.o) or server code
calls that.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 91b5aadbd6d9d05ca1ffdeb443e602ecdha1e04d
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Fri Jun 11 20:20:00 2010 +0700

mi: do not use X11/extensions/shape.h header from libXext

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Tested-by: Dan Nicholson <dbn.lists@gmail.com>

commit b8615d592700b7be319c04cc0563fdeb5a266534
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Sat Jun 12 08:19:16 2010 -0700

Don't coredump on "X -showopts" (bug 25874)

Don't try walking the xf86ConfigLayout.screens table if it's empty
Running the following command causes an assertion to fail:

cnee --record --request-range 1-127

3 in dixGetPrivateAddr at ../../../include/privates.h:122
4 in dixGetPrivate at ../../../include/privates.h:137
5 in dixLookupPrivate at ../../../include/privates.h:167
6 in RecordInstallHooks at ../../../record/record.c:911
7 in ProcRecordEnableContext at ../../../record/record.c:2377
8 in ProcRecordDispatch at ../../../record/record.c:2571
9 in Dispatch at ../../../dix/dispatch.c:432
10 in main at ../../../dix/main.c:289

DRI2/xserver: Don't hang in glXSwapBuffers if drawable moves between crtc's (bug 28383)

Detect if a drawable has been moved from an original crtc to a new crtc with a lower current vblank count than the original crtc in between glXSwapBuffers() calls. Reinitialize drawable's last_swap_target before scheduling next swap if such a move has taken place.

last_swap_target defines the baseline for scheduling the next swap. If a movement between crtc's is not taken into account, the swap may schedule for a vblank count on the new crtc far in the future, resulting in a apparent "hang" of the drawable for a long time.

Fixes Bugzilla bug #28383.
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 868bf3de478fac0080d525137fc728c551c78ea6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 15 13:22:20 2010 +1000

dix: the default axis mode is Relative, not "0".

Yay for readability.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>

commit db0d3d4e573c93a8af43499682ed788ce7bd0d70d
Author: Xiaoyang Yu (Max) <max.a.yu@intel.com>
Date:   Fri Jun 4 17:17:53 2010 +0800

Re-enabled Xnest fix for focus in + modifier bug.

* See https://bugs.freedesktop.org/show_bug.cgi?id=3030

Signed-off-by: Xiaoyang Yu (Max) <max.a.yu@intel.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

This takes the xnest way of working around this (see
5904ef2cc6056b187ca76f104c21e2d686bfcc1d "xnest: restore
xnestUpdateModifierState") and copies it to Xephyr.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 505724c5f3e4fc1475fa54f20d08c0c06fb32443
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 7 16:28:34 2010 -0700

In DRI2Connect, check to see if DRI2 has been initialized (bug 28424)

This prevents DRI2GetScreen from being invoked with an uninitialized
private key which would cause an assert failure.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: David Ronis <David.Ronis@McGill.CA>

commit 68a9ee8370e6f9b38218376ac92d5130a5b0ef1e
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 7 22:56:04 2010 -0700

Clean up RandR12 bits on screen close (bug 27114)
When resetting the server, `pScrntn->EnterVT` must be unwrapped or the next server generation will end up wrapping the wrapper and causing an infinite recursion on `EnterVT`.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Michael Stapelberg <michael@freedesktop@stapelberg.de>

commit d5ab71776b5c48552b81607aaeffb447ab268ee
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 10 19:21:18 2010 -0700

Bump to 1.8.99.901 -- 1.9 RC1

Signed-off-by: Keith Packard <keithp@keithp.com>

commit a41d6e9bffbe56cfa1c3b84388a3d9f5a982f1a9
Merge: 7e8f100121 f4190feb25
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jun 11 10:08:13 2010 -0700

Merge remote branch 'dottedmag/for-keithp'

commit 7e8f1001217326cc451974bacf25275420e4bb4e
Author: Éric Piel <E.A.B.Piel@tudelft.nl>
Date:   Fri Jun 11 09:16:32 2010 -0700

exa: fix ExaCheckCopyNtoN for exa_classic when source = dest

In case you want to copy a region with source = dest, you have the same pixmap as source and dest.

At the end of `exaPixmapIsOffscreen_classic()` the `devPrivate.ptr` is reset to NULL (look at the sources).

Now this is what happens in ExaCheckCopyNtoN:

```c
exaPrepareAccess( pDst );

Calls IsOffscreen()
    sets devPrivate.ptr to NULL
    sets up devPrivate.ptr to real pointer
    Everything OK

exaPrepareAccess( pSrc );

Calls IsOffscreen()
    sets devPrivate.ptr to NULL

BAILS OUT CAUSE OF NESTED OPERATION SINCE DST EQUALS SRC
```

We end up with devPrivate.ptr as NULL, and that is clearly wrong.
In particular this fixes a segfault when using the psb driver (bug 28077)

Signed-off-by: Éric Piel <eric.piel@tremplin-utc.net>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f4190feb25ecc3d8278decc8bf28a5ef0e568942
Author: Matt Turner <mattst88@gmail.com>
Date: Thu Jun 10 04:08:54 2010 +0700

Remove more superfluous if(p) checks around free(p)

Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 89bd05106e5823fc5cfca9abf082729f2444363b
Author: Matt Turner <mattst88@gmail.com>
Date: Fri Jun 4 21:09:35 2010 -0400

record: move free() to after last use of pContext

No functional change, since free doesn't change the value of the pointer
passed to it, but it makes this code less confusing.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit a54a766dfb39fb3df671045878ac706215d83cef
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Mon Jun 7 03:19:03 2010 +0700

xb: replace xstrdup with strdup in Win32System

The only caller of Win32System is XkbDDXCompileKeymapByNames. Add allocation
check there to avoid passing NULL pointers to various functions down the code.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6e7417c342b0624e3f3c5686bb43026786423692
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 17:05:35 2010 +0700

config: Replace xstrdup with strdup in add_option()

All callers of add_option pass string literal as "key" argument
except one, where non-NULL condition is guarded by if().

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit e4570f5db5157f4233454c938733a2a0d6a1cb8f
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 17:01:42 2010 +0700

dfree86: Get rid of xstrdup when argument is definitely non-NULL

ditto for XFree86

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 416d228481d71204cf9bfad3ab4773abc4757f79
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 17:01:25 2010 +0700

xquartz: Get rid of xstrdup when argument is definitely non-NULL

ditto for XQuartz

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit eea286f2b9e4b1acfc2b1c9800f5a4bc7c3fa968d
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 17:01:05 2010 +0700

xwin: Get rid of xstrdup when argument is definitely non-NULL

ditto for XWin

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit dd45b7d74696cd4fe9545852640a3c2e66a808fd
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 17:00:46 2010 +0700

kdrive: Get rid of xstrdup when argument is definitely non-NULL

ditto for Kdrive

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
dmx: Get rid of xstrdup when argument is definitely non-NULL

ditto for DMX

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Get rid of xstrdup when argument is definitely non-NULL.

Replace xstrdup with strdup when either constant string is
being duplicated or argument is guarded by conditionals and
obviously can't be NULL

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

Ignore RandR timestamps harder

Checking timestamps in post 1.1 randr requests was never a good idea,
let's ignore them and just make the configuration changes.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Chase Douglas <chase.douglas@canonical.com>
Fix a couple more possible errors with input-only windows

Using type == DRAWABLE_WINDOW to differentiate between pixmaps and
windows isn't sufficient as input-only windows will end up in the
 pixmap case. This patch changes a few more code paths to use
WindowDrawable instead.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Solaris: avoid memory leak if AGPIOC_INFO ioctl fails

Move malloc after ioctl, so we don't have to worry about free'ing the
memory if the ioctl fails.

[ This bug was found by the Parfait bug checking tool.
  For more information see http://research.sun.com/projects/parfait ]

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

Record some additional library dependencies in x116 modules

Helps with symbol resolution when building with -z defs

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

SecurityResource should not segfault when client owning resource has exited

Fixes OpenSolaris bug 6949754:
  Xorg crashes when the magnifier is enabled at gdm login greeter window.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Xi: don't copy the modifier key count when copying device classes (#25480)

The modifier key count is maintained by the XKB layer and increased/decreased for all modifiers that set state.

Test case, MD/SD modifier key count in comment:
1. keyboard 1: press and hold Shift_L   # SD:1   MD:1
2. keyboard 2: press and release Shift_L # SD:1.0 MD:1.0
   <class copy happens>                 # SD:1   MD:1
3. keyboard 1: release Shift_L         # SD:0   MD:1
4. keyboard 1: press and release Shift_L # SD:1.0 MD:2.1

The modifier is now logically down on the MD but not on keyboard 1 or keyboard 2.

XKB is layered in before the DIX, it increases/decreases the modifier key count accordingly. In the above example, during (2), the MD gets the key release and thus clears the modifier bit. (3) doesn't forward the release to the MD because it is already cleared. The copy of modifierKeysDown when the lastSlave changes however increases the counter for the held key. On (4), the press and release are both forwarded to the MD, causing an offset by 1 and thus do not clear the logical modifier state.

X.Org Bug 25480 <http://bugs.freedesktop.org/show_bug.cgi?id=25480>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

config: remove redundant DBUS API define, require dbus-1 >= 1.0

It's still being pulled in by the HAL CFLAGS but the requirement to define this was dropped from DBus pre 1.0 (November 2006).
This means we require dbus 1.0 now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 66b21b2f455a1dfbe92f7ca571dceff3f3765808
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Jun 7 20:39:58 2010 -0700

xfree86: Match devices based on current driver setting

Often we want to apply a driver specific option to a set of devices and
don't care how the driver was selected for that device. The MatchDriver
entry can be used to match the current driver string:

    MatchDriver "evdev\mouse"
    Option "Emulate3Buttons" "yes"

The driver string is a case sensitive match.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a71bdff47d4cc80da6ceeb548db1dce8e8b59702
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Jun 7 20:39:57 2010 -0700

xfree86: Allow multiple InputClass Match* entries for && matching

Currently when there multiple InputClass entries of the same type, only
the last entry is used and the previous ones are ignored. Instead,
multiple entries are used to create multiple matching conditions.

For instance, an InputClass with

    MatchProduct "foo"
    MatchProduct "bar"

will require that the device's product name contain both foo and bar.
This provides a complement to the || style matching when an entry is
split using the "[]" token.

The xorg.conf man page has added an example to hopefully clarify the two
types of compound matches.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
config: Script to convert HAL fdi settings to InputClass sections

In the new world of udev and InputClass, x11_* settings from HAL fdi files will not be honored. This script converts those settings into valid InputClass sections that can be dropped into xorg.conf.d.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: Match devices based on USB ID

Sometimes the vendor and product names aren't specific enough to target a USB device, so expose the numeric codes in the ID. A MatchUSBID entry has been added that supports shell pattern matching when fnmatch(3) is available. For example:

    MatchUSBID "046d:*"

The IDs are stored in lowercase hex separated by a ':' like "lsusb" or "lspci -n".

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: Match devices based on PnP ID

Serial input devices lack properties such as product or vendor name. This makes matching InputClass sections difficult. Add a MatchPnPID entry to test against the PnP ID of the device. The entry supports a shell pattern match on platforms that support fnmatch(3). For example:

    MatchPnPID "WACf*"
A match type for non-path pattern matching, `match_pattern`, has been added. The difference between this and `match_path_pattern` is the `FNMPATHNAME` flag in `fnmatch(3)`.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 84190d20954ef7888e4d96832c2a4b3225b4dfa2
Merge: 4172aa137c 5e1ef1f4dd
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 10 13:36:35 2010 -0700

Merge remote branch 'jeremyhu/master'

commit 4172aa137c1b9b6f2a25c320d847af1f5ae56fba
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 10 07:15:49 2010 -0700

dri2: Only deal with output windows and pixmaps.

This reverts commit fd0b081b430ddffb495aa5b05bcc4cf10882ff4b2
"dri2: Deal with input-only windows by using WindowDrawable()"
and replaces it as follows:

Reject the creation of a DRI2 drawable for UNDRAWABLE_WINDOW (input-only windows) and DRAWABLE_BUFFER (whatever those are) drawables and only look up privates for the supported drawable types.

The rest of the the code can continue pretending there's only output windows and pixmaps, which are the only kinds of drawables relevant for DRI2.

Fixes server crash with GLX compositing managers such as compiz or kwin, due to looking up a window private for a pixmap and getting a bogus pointer.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 353e32d3712f3a883a796ba562ec9f5a8354837
Author: Jamey Sharp <jamey@minilop.net>
Date: Sun Jun 6 06:42:11 2010 -0700

`glxdriswrast` bugfix: configure `swapgc`, not `gc`.

I got this wrong in e2929db7b737413cf93fbebdf4d15abdfb0f05c.
DRI2: Don't return junk reply instead of blocking in glXWaitForSbcOML()

DRI2WaitSBC() didn't block if requested targetSBC wasn't yet reached.

Instead it returned a xreply with uninitialized junk return values, then
blocked the connection until targetSBC was reached.

Therefore the client didn't block, but continued with bogus return
values from glXWaitForSbcOML.

This patch fixes the problem by implementing DRI2WaitSBC similar
to the clean and proven DRI2WaitMSC implementation.

Remove unnecessary parentheses around return values in functions

This patch was generated by the following Perl code:

perl -i -pe 's/([^_]*)return\s*[^s]*)\s*([^s]*)\s*;([^s]*)/\1return \2;\4/g;'

Allow InputClass sections to match against the running operating system
to narrow the application of rules. An example where this could be used is to specify that the default input driver on Linux is evdev while it's mouse/kbd everywhere else.

The operating system name is the same as `uname -s`, and matching is case-insensitive.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9b30fa9f8fedb7dbb5672f93ed1a154d13578c47
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Jun 7 20:39:52 2010 -0700

xfree86: Refactor InputClass matching code

InputClassMatches was starting to get a little hairy with all the loops over the tokenized match strings. This adds code, but makes it easier to read and add new matches.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Jamey Sharp <jamey at minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d09bc8f8e5bb92899f7c90eab6b0907920c7d643
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Jun 7 20:39:51 2010 -0700

xfree86: Constify InputClass functions

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 61c35d8ac4b6423caf2dcecb4ff25baaaaa14b1c
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Jun 7 20:39:50 2010 -0700

config/hal: Missing newline in log message

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 697c5b010d7f6df00ce9cae6352b125c4cbab3ad
Author: Dan Nicholson <dbn.lists@gmail.com>
config/udev: Add verbose info when fetching udev properties

Give the user a chance to see why their input devices are being ignored, even if they have to start the server with -logverbose.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 94547b2d1448232ae316c228d65482cc0b646ac2
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Mon Jun 7 20:39:48 2010 -0700

cfg/hal: don't leak the input.tags property

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5e1ef1f4d4e4615498c1c5e7a4e422c3b3432fe8
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue Jun 8 13:01:10 2010 -0700

XQuartz: Add more sanity checking around string manipulation for xmodmap

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0be81f9a163f2838448caee41b2dd27d73391a
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun Jun 6 16:31:19 2010 -0700

XQuartz: Fix build regression from faeebead7bfcc78535757ca7acc1fae7554c03b7

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b3a7b229e1e1f212bddd185af5443311091824005
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 7 21:49:43 2010 -0700

Make DRI_SCREEN_PRIV just return NULL when DRI isn't initialized

The code relied upon the previous devPrivate implementation which offered this convenience.

Signed-off-by: Keith Packard <keithp@keithp.com>
commit f7af00e9f0e0e1d854b0e882378c032518ab71ca
Author: Ben Skeggs <bskeggs@redhat.com>
Date:   Mon Jun 7 10:21:18 2010 +1000

randr: prevent an unnecessary screen resize with multiple displays

crtc->{x,y} is always 0 when xf86DefaultScreenLimits() is called, so we
calculate too small an area for the initial framebuffer and force a resize
to happen.

This commit fixes the code to use desired{X,Y} instead, which contains the
initial output positions.

Signed-off-by: Ben Skeggs <bskeggs@redhat.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8e97e5f9425639ad0a084150d0b232cad417595d
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 7 14:23:47 2010 -0700

If XTest is always required, then eliminate the XTest devPrivate

The internals of XTest are used by Xi and Xkb, and both Xi and Xkb are
always required, so it makes little sense to have XTest place data in
a devPrivate, especially a devPrivate which is only available when the
XTest extension is enabled.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fdb081b430ddf6b495aa5b05bcc4cf10882ff4b2
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 7 00:54:18 2010 -0700

dri2: Deal with input-only windows by using WindowDrawable()

Input only windows aren't DRAWABLE_WINDOW, but casting them to a
PixmapPtr is a bit harsh, and unlikely to get the appropriate privates
structure, use WindowDrawable instead which checks for both
input-output and input-only windows.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Eric Anholt <eric@anholt.net>

commit bc26665661565918af484ccd17caad951010df60
Initialize private keys in test suite

Make sure all of the private keys used by the test code are initialized before being used.

Signed-off-by: Keith Packard <keithp@keithp.com>
Tested-by: Robert Hooker <sarvatt@ubuntu.com>

commit f03be727d647183a2176355ad0ac9a6f735067be9
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jun 6 16:04:42 2010 -0700

Place glyph privates at correct location within the allocate storage

A glyph allocation consists of :

   GlyphRec
      numScreens * PicturePtr
      glyph privates

Tell the dix private bits to start past the picture pointers.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>

commit 67b824a81bb8254827023de351a4a094031f0e94
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sun Jun 6 20:37:07 2010 +0700

randr: Make deletion of output properties more robust

Previously there was two branches of code with small discrepancies between them (especially prop->valid_values field was not free(3)ed). Extract the common routine and fix double-free prop->valid_values in RRDestroyOutputProperty by the way.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 0a4d8ecbdcdf7b25313fb29ccdb49804af95f7de6
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sun Jun 6 15:28:30 2010 +0700

Remove more superfluous if(p) checks around free(p)
This patch has been generated by the following Coccinelle semantic patch:

@@
expression E;
@@

-if(E) { free(E); }
+free(E);

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit 5a0fc0ad21d562612676ef88ef2d533b2391810a
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 15:35:31 2010 +0700

Replace deprecated bzero with memset

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Marcin Baczyski <marbacz@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>

commit f9810ba914877b379cb36f1b9755f7923ceca14c
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 14:26:31 2010 +0700

xkb: Remove superfluous if(x) x = realloc(x, sz); else x = malloc(sz); logic

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Marcin Baczyski <marbacz@gmail.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 77ea20895ca1d163e14c6b767d8c287c94baa3114
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Fri Jun 4 14:22:06 2010 +0700

xkb: Remove superfluous if(p) checks around free(p)

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit 5d4e2c594059ffbf536c8e506c2623320d3c6a787
Merge: eacc42132e 793dd39946
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jun 5 22:20:28 2010 -0700

Merge remote branch 'jamey/for-keith'

commit 793dd399468ff3b3a22f9a9c62f9a54fc87261fbc7
Author: Jamey Sharp <jamey@minilop.net>
Date: Tue May 25 15:08:38 2010 -0700

dmx: Split glx scalar swap variables from array swap variables.

This makes hw/dmx/glxProxy/unpack.h more closely resemble glx/unpack.h, and fixes the "unused variable 'swapEnd'" and "unused variable 'swapPC'" warnings.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit eacc42132ed0f1e8f4a4d65a4b6637ab06f7e2aa
Author: Kim Woelders <kim@woelders.dk>
Date: Fri Jun 4 20:20:47 2010 +0200

dix: Remove test for obsolete NO_XINERAMA_PORT macro.

Signed-off-by: Kim Woelders <kim@woelders.dk>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a0fe6987b55b5326157b50e169b8d6b9ae26a1ae
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat Jun 5 20:55:29 2010 -0700

Clean up after removal of screen parameters from region macros.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 424b593c7872a703d3d0e942b7e8acc0770eb023
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jun 5 21:34:51 2010 -0700

Damage pixmap private key was being mis-registered as a picture key

This would cause all kinds of fun, in particular Xnest would crash at startup.
Register Xnest colormap screen private key

This key is used to store the currently installed colormap and must be registered before we can use it.

Make GetPictureScreenIfSet check if Render is running

This macro originally checked to see if the Render screen private index had been allocated. When the privates were changed the first time, there wasn't any need to check as dixLookupPrivate would simply return NULL in that case. Now that we care, check to see if the key has been initialized before asking for the value.

Move the shadow screen private key initialization to shadowSetup

Some users of the shadow code don't call shadowInit, just shadowSetup and so make sure the key is initialized there.

Fix exa_priv.h declarations of privates
exa_priv.h exposes the privates to the rest of the exa code, and yet
the declarations of the privates wasn't fixed when the exa.c versions were.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6b306f43384e5c2143197e746a5a39c4ebb2583c
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Jun 5 20:58:04 2010 -0700

kdrive: Xv code uses shared screen private instead of kdrive-specific private

When doing the devPrivate API conversion, I missed this as there was
also a local private key which wasn't ever used.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ab07e2b8ededa2193fc199a8c09623d84032280
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 19:38:48 2010 -0700

Allocate per-screen device/cursor-bits private keys in midispcur

midispcur was abusing the CursorScreenKey to index the cursor_bits
privates, it also had a MAXSCREENS array of keys to index device
privates. Switch both of these to the new dixCreatePrivateKey API and
store a pointer to that in the screen private.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 34db537907c6cb2635dbefdce7dfcae90f7c902
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 19:36:33 2010 -0700

Add dixCreatePrivateKey API

Keys need to persist through server reset so that the private system
can be cleaned up in dixResetPrivates. In particular, this means that
keys cannot live in objects freed at reset time. This API provides
suitable object lifetime by having the privates code free the key in
the reset path.

Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 495fc3eb2d6c98bde82ae1278f89fcf131fd9bf8
Change devPrivates implementation.

Each key now declares which object type it belongs to, this permits keys for different types to share the same offset within the allocated privates. As a special case for XSELinux, a key may be allocated as PRIVATE_XSELINUX which will allow it to continue to be used across the relevant object types.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit fabebead7bfc77535757ca7acc1faaf7554c03b7
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 22:05:27 2010 -0700

Create separate private key for midispcur cursor bits

The CursorScreenKey array is supposed to be used by the DDX for cursor private data, but midispcur was abusing it to hold cursor bits private information. Create a separate set of privates for the dispcur cursor bits information.

This also renames the device private index and macros to better reflect their usage:

  miDCSpriteKey -> miDCDeviceKey
  MIDCBUFFER -> miGetDCDevice

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Remove dixRegisterPrivateOffset; hard-code devPrivates offsets instead

For predefined resource types, the offset of the devPrivates field was already kept in a constant table. The only non-predefined type needing this treatment was dbeDrawableResType, which is just a magic alias for RT_PIXMAP.

This patch special-cases looking up RC_DRAWABLE offsets and uses the table directly for everything else.

Add REGION_ macros for source compatibility with existing drivers.

This makes the region code changes source compatible with existing code, although none of them are used within the server source itself.

Change region implementation from macros to inline functions.

This makes all of the previous macros into inline functions and also turns all of the direct calls to pixman region code into inline functions as well.

Rename region macros to eliminate screen argument
This is a combination of a huge mechanical patch and a few small fixups required to finish the job. They were reviewed separately, but because the server does not build without both pieces, I've merged them together at this time.

The mechanical changes were performed by running the included 'fix-region' script over the whole tree:

$ git ls-files | grep -v '^fix-' | xargs ./fix-region

And then, the white space errors in the resulting patch were fixed using the provided fix-patch-whitespace script.

$ sh ./fix-patch-whitespace

Thanks to Jamey Sharp for the mighty fine sed-generating sed script.

The hand-done changes involve removing functions from dix/region.c that duplicate inline functions in include/regionstr.h, along with their declarations in regionstr.h, mi.h and mispans.h.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d17e726e89ef644310de77b960b715c2d11088da
Author: Keith Packard <keithp@keithp.com>
Date:   Sat May 22 00:09:47 2010 -0700

Move mi/miregion.c to dix/region.c

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9b6f5f549dfc4e20e3cb3c2ef7095ab47abaca3b
Author: Keith Packard <keithp@keithp.com>
Date:   Fri May 21 11:14:59 2010 -0700

Change region implementation names to eliminate the 'mi' prefix

This prepares the file to be moved from mi to dix. This patch was done mechanically with the included scripts 'fix-miregion' run over the entire X server and 'fix-miregion-private' run over include/regionstr.h and mi/miregion.c.

Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1768e51976ae8949d999309bd2384ccad72deecd
rootless: Fix SetShape regression

This fixes a regression in miext/rootless from 643cb6e87c10ab554c03ada81930001a8ebcc909

Found-by: tinderbox
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

configure: Check for libsha1.pc

xserver fails to detect libsha1. Problem is that configure checks for
sha1.pc when libsha1 provides libsha1.pc.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Stop searching for XF86Config files

xorg.conf has been used since the X11R6.7 release in April 2004.
6 years has been a generous transition period for users to
"mv XF86Config xorg.conf" and for distros to update their
configuration tools and packages.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: James Cloos <cloos@jhcloos.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Stop searching for XF86Config files

xorg.conf has been used since the X11R6.7 release in April 2004.
6 years has been a generous transition period for users to
"mv XF86Config xorg.conf" and for distros to update their configuration tools and packages.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: James Cloos <cloos@jhcloos.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7f19a7a76e90a4fd7b7ce0256974f62e575218541
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 4 14:15:04 2010 +1000

xkb: fix invalid memory writes in _XkbCopyGeom.

Classic strlen/strcpy mistake of
  foo = malloc(strlen(bar));
  strcpy(foo, bar);

Testcase: valgrind Xephyr :1

==8591== Invalid write of size 1
==8591== at 0x4A0638F: strcpy (mc_replace_strmem.c:311)
==8591== by 0x605593: _XkbCopyGeom (xkbUtils.c:1994)
==8591== by 0x605973: XkbCopyKeymap (xkbUtils.c:2118)
==8591== by 0x6122B3: InitKeyboardDeviceStruct (xkbInit.c:560)
==8591== by 0x4472E2: CoreKeyboardProc (devices.c:577)
==8591== by 0x447162: ActivateDevice (devices.c:530)
==8591== by 0x4475D6: InitCoreDevices (devices.c:672)
==8591== by 0x4449EE: main (main.c:254)

==8591== Address 0x6f96505 is 0 bytes after a block of size 53 alloc'd
==8591== at 0x4A0638F: strcpy (mc_replace_strmem.c:311)
==8591== by 0x605593: _XkbCopyGeom (xkbUtils.c:1994)
==8591== by 0x605973: XkbCopyKeymap (xkbUtils.c:2118)
==8591== by 0x6122B3: InitKeyboardDeviceStruct (xkbInit.c:560)
==8591== by 0x4472E2: CoreKeyboardProc (devices.c:577)
==8591== by 0x447162: ActivateDevice (devices.c:530)
==8591== by 0x4475D6: InitCoreDevices (devices.c:672)
==8591== by 0x4449EE: main (main.c:254)

Reported-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by-and-apologised-for: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 959a1leaf1c15a691141f1b0dc53757fe9b6e9b13
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jun 4 11:09:46 2010 +1000

composite: use config notify hook to do pixmap resize.
Since reallocating the backing pixmap can fail, we need to try and do it before any other side effects of reconfiguring the window happen.

This changes the ConfigNotify hook to return status, and moves the composite window reconfiguration wrappers to ConfigNotify. They all basically did the same thing, so we can drop the MoveWindow, ResizeWindow, ChangeBorderWidth wrappers, and allow ConfigNotify to do all the work. If reallocation fails we fail before we send any configureNotify events, or enter the area we can't recover from.

The only place we now enforce 32k limits are in EXA/UXA/xb, so drivers that don't use this should probably deal with it in their pixmap allocate if they don't already.

This also breaks ABI, so we need an alternate fix for older servers, working on the X server makes me realise why I'm a kernel hacker.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commits 0f12e86e600522768f5f64eafc1230526e700ab7
Merge: aa7c09fd70 f114f54986
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 3 15:09:32 2010 -0700

  Merge remote branch 'jamey/for-keith'

commit f114f54986aca1add4c8808a05d9692e289547e7
Author: Jamey Sharp <jamey@minilop.net>
Date:   Fri Apr 23 19:33:49 2010 -0700

  Accumulate graphics exposures incrementally in PanoramiXCopyArea/Plane.

Aside from being more efficient, I believe this is equivalent to the previous implementation, since
- each per-screen GC has the graphicsExposures flag set the same way, and
- the REGION_* macros ignore their screen argument.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)
commit a7c7ebe4b3a0df1a4d1ffe3c690cfb21470f103d
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 22 21:13:48 2010 -0700

Delete XineramaScreenRegions cache.

Every screen region consists of a single rectangle, so initializing a
stack-allocated region for each screen on-demand does no heap allocation
and is fast.

This eliminates a MAXSCREENS-sized array.

The REGION_UNINIT calls are no-ops since no boxes are actually allocated
for a single-rectangle region, but it seemed wiser to include them.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit a0456da339fa9b3c3e6fead060338ee7348d6460
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun May 23 12:57:52 2010 -0700

XineramaSetCursorPosition: use screen bounds directly, not POINT_IN_REGION.

This hides a MAXSCREENS-sized array as an implementation detail of
panoramiX.c rather than an exported global.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit a83cfff9f4d622b069c96a68b4e87a669bf1f6446
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sun May 23 10:11:47 2010 -0700

Move each screen's x/y origin into ScreenRec.

Many references to the dixScreenOrigins array already had the
corresponding screen pointer handy, which meant they usually looked like
"dixScreenOrigins[pScreen->myNum]". Adding a field to ScreenRec instead
of keeping this information in a parallel array simplifies those
expressions, and eliminates a MAXSCREENS-sized array.

Since dix declared the dixScreenOrigins array, I figure allocating a
screen private for these values is overkill.
Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit 217ccaa5a341018457f468a774c035c0df47d918
Author: Jamey Sharp <jamey@minilop.net>
Date: Sun May 23 11:05:01 2010 -0700

Delete panoramiXdataPtr: it's redundant.

This eliminates a dynamically-allocated MAXSCREENS-sized array.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit e7fae9ece42ab5e73b89117722dbf4117d928f9a
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat May 22 00:26:28 2010 -0700

Move each screen's root-window pointer into ScreenRec.

Many references to the WindowTable array already had the corresponding screen pointer handy, which meant they usually looked like "WindowTable[pScreen->myNum]". Adding a field to ScreenRec instead of keeping this information in a parallel array simplifies those expressions, and eliminates a MAXSCREENS-sized array.

Since dix uses this data, a screen private entry isn't appropriate.

xf86-video-dummy currently uses WindowTable, so it needs to be updated to reflect this change.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit 80b5d3a3264d2c5167e5ac85a3b04af0f89cece1
Author: Jamey Sharp <jamey@minilop.net>
Date: Fri May 21 23:13:51 2010 -0700

Move each screen's screensaver data into ScreenRec.

Most references to the savedScreenInfo array already had the corresponding screen pointer handy, which meant they usually looked like "savedScreenInfo[pScreen->myNum]". Adding a field to ScreenRec instead of keeping this information in a parallel array simplifies those expressions, and eliminates a MAXSCREENS-sized array.
Since dix uses this data, a screen private entry isn't appropriate.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (i686 GNU/Linux)

commit 5030540d6cd2aa9bbd4ecb7f4487616f9ef0140a
Author: Jamey Sharp <jamey@minilop.net>
Date: Thu May 27 11:50:52 2010 -0700

midispcur: Add comment explaining why pRootPicture must not be freed.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f308cbea8c9fa5c5c6705bc301178b167de450d5
Author: Jamey Sharp <jamey@minilop.net>
Date: Mon May 24 18:41:54 2010 -0700

mi: Delete unused flicker-free MoveCursor code.

It's been commented-out for three and a half years and nobody seems to
be missing it enough to resurrect it.

Besides deleting code that is untested and therefore buggy, this saves a
little memory for each pointer device on each screen.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d1bad1b59f24ab4dcef2d1ce1c5d4f42b5fa40bc1
Author: Jamey Sharp <jamey@minilop.net>
Date: Tue May 25 14:25:07 2010 -0700

dmx: Fix XSetExtensionErrorHandler calls to agree on constness.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit aa7c09f7d04d59852b850b2b6993f4cbdc7ee940
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Wed Jun 2 14:31:56 2010 -0700

Install fbdevhw module in normal module directory instead of linux/

Since we no longer support OS-independent custom elfloader modules,
we don't need to put the OS-dependent modules into os-specific subdirs any more.

We do however still need to install the stubs version of this module on non-Linux platforms, since a number of drivers link to functions in it, even when built on non-Linux platforms.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b13d7a8e09c8e3eb5003420c3c0484431e5a052b
Merge: f0ab726d89 dcceb90b1d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 3 07:01:26 2010 -0700

    Merge remote branch 'vignatti/for-keith'

commit dcceb90b1dccb8f5793f6ba1ed857013b71dafbc
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed May 19 11:45:46 2010 +0200

    xext: delete wrong source reference from fontcache

This should go away in 0b45ba48.

    Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit c043de3261b6e14f2446b2cd9d62dde5860d4720
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon May 3 12:37:25 2010 +0200

    configure: sha1: check libsha1 using pkg-config instead

Previously the code was using AC_CHECK_LIB, guaranteeing whether the library is correct by tracking sha1_begin function. This paranoic checking is not necessary given there's only one libsha1 in the market, which surely contains such function.

Moreover, this patch now improves a bit the sha1 implementation checking behavior using pkg-config to find the right flags that needs to link against.

    Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit f0ab726d8966cab4e50154c216d577db79328d77
DRI2: Use single error path in initialization

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

DRI2: Allow building without libdrm

Some drivers use DRI protocol but implement their own kernel rendering manager. For these drivers, libdrm becomes useless. --disable-libdrm configure parameter can be used to disable libdrm support in dri2.

To provide ABI/API compatibility for libdrm based drivers, libdrm call is wrapped in ifdef.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

DRI2: add AuthMagic hook for driver side support

With this new hook, drmAuthMagic becomes useless and should be deprecated. You might want to implement AuthMagic on driver side instead.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

Only deal with input code when changing the input shape.

Propagate the shape kind all the way to SetShape to avoid performing non-input operations such as revalidating the tree and generating exposures when only changing a window's input shape.
xfree86: Unbreak autoconfig following 0abf065e38c4

The move of the PCI device id probing into a separate file neglected to
return the number of found devices, and so the PCI devices were being
overwritten by the default entries for vesa and fbdev.

Fix pixmap validation in miDbePositionWindow.

miDbePositionWindow allocates two pixmaps: a front buffer, and a back buffer.
If the buffers are supposed to be initialized, it validates a GC against
the front buffer, then uses it to fill and/or copy both the front buffer *and* the
back buffer, without revalidating. If the acceleration architecture needs
different GC funcs for the two pixmaps -- for example if allocation of the front
buffer exhausted video memory -- then this can cause crashes because the GC is
not validated for the back buffer pixmap.

Fix this by performing the rendering for the front buffer first, then
revalidating against the back buffer before performing the back buffer
rendering.
composite: initialise pOldPixmap to NullPixmap at alloc time.

We just never initialised the malloced value.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 968a79dcf5e17ac3963953ef56b8f94bd75323b
Author: Nicolas George <nicolas.george@normalesup.org>
Date:   Wed Jun 2 13:40:51 2010 +0200

Change keyboard controls on slave keyboards (#27926)

Makes the use of IsMaster in ProcChangeKeyboardControl consistent with other similar loops.

Signed-off-by: Nicolas George <nicolas.george@normalesup.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 108b766c31b57fb1955d34d85673a235c7f743aa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 20 11:04:53 2010 +1000

xfree86: initialize InputAttributes to NULL in the autoconfig code.

Reported-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit 151659f9636088fd70bc5586de97bf43ee706180
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 24 16:24:03 2010 +1000

test: fix up InputAttributes helper function test.

Just some extra clarification as pointed out by Dan Nicholson, and that memcpy should have been a memcmp.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>

commit 6cccf0131c8464d8838cae2200730873d7dd9e45
Author: Peter Korsgaard <peter.korsgaard@barco.com>
Date:   Tue May 25 11:03:28 2010 +0200

dix: add 3x3 transformation matrix xinput property for multi-head handling
For absolute input devices (E.G. touchscreens) in multi-head setups, we need a way to bind the device to an randr output. This adds the infrastructure to the server to allow us to do so.

positionSprite() scales input coordinates to the dimensions of the shared (total) screen frame buffer, so to restrict motion to an output we need to scale/rotate/translate device coordinates to a subset of the frame buffer before passing them on to positionSprite.

This is done here using a 3x3 transformation matrix, which is applied to the device coordinates using homogeneous coordinates, E.G.:

\[
\begin{bmatrix}
  c0 & c1 & c2 \\
  c3 & c4 & c5 \\
  c6 & c7 & c8 \\
\end{bmatrix}\begin{bmatrix}
  x \\
  y \\
  1
\end{bmatrix}
\]

Notice: As input devices have varying input ranges, the coordinates are first scaled to the [0..1] range for generality, and afterwards scaled back up.

E.G. for a dual head setup (using same resolution) next to each other, you would want to scale the X coordinates of the touchscreen connected to the both heads by 50%, and translate (offset) the coordinates of the rightmost head by 50%, or in matrix form:

left: \[
\begin{bmatrix}
  0.5 & 0 & 0 \\
  0 & 1 & 0 \\
  0 & 0 & 1
\end{bmatrix}
\]

right: \[
\begin{bmatrix}
  0.5 & 0 & 0.5 \\
  0 & 1 & 0 \\
  0 & 0 & 1
\end{bmatrix}
\]

Which can be done using xinput:

xinput set-prop <left> --type=float "Coordinate Transformation Matrix" \ 0.5 0 0 1 0 0 0 1

xinput set-prop <right> --type=float "Coordinate Transformation Matrix" \ 0.5 0.5 0 1 0 0 0 1

Likewise more complication setups involving more heads, rotation or different resolution can be handled.

Signed-off-by: Peter Korsgaard <peter.korsgaard@barco.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e4582d9e5c8649347742a13ea68cf27005296fc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 27 10:42:54 2010 -0400
xfree86: bump ABI_XINPUT_VERSION to 11.

commit c2d0b3b437b7ce6ce975f2ead4d88b8295ef0ddc
"xfree86: store the InputAttributes in the input device."
introduced the new API. Bump the input version so drivers can handle this appropriately.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cd0ef0b6a2f9c6bfeada98684569da922792d3feb
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 14:30:22 2010 -0700

dmx: Delete unused ChangeKeyboardDevice/ChangePointerDevice.

Daniel Stone deleted the API for these in 2006, in commit 96e32805d12fc36f0fa0926dbf0dd8a5cadb739.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 70454864917f534483fa049e067b5646df61e88a
Author: Jamey Sharp <jamey@minilop.net>
Date:   Fri May 14 12:31:44 2010 -0700

Ignore build products in the server's test suite.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8bb88379d95356384e233225bfda6abfd71389b4
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 15:52:18 2010 -0700

dmx: Remove dead __glXDispSwap_DrawArraysEXT definition.

Eric Anholt made the corresponding fix in glx/render2swap.c in commit 49d38ab2328c409b2a98465b52677af057121513.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit c97a3ade5a8718b063292c73a31aac2196fe2452
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 15:17:30 2010 -0700
dmx: Delete unused local variables.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3c3d099fc10c63d746f90c08043d45180d6a7226
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 13:44:32 2010 -0700

dmx: Xfree -> free

Mikhail fixed the corresponding Xallocs, but missed these uses of Xfree in commit 3f3ff971ecff9936cebaf813af9193b97ba89c.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 01ca6400d949a873c0bb5de7e0dbf138e8a7949b
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 14:02:34 2010 -0700

Xephyr: Fix Xcalloc deprecation warnings.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 34df659687ad3936ab03d19ce8fd21f385c2e8a
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 11:51:32 2010 -0700

xfree86/int10/helper_mem: Fix log message.

Three years ago in commit f62beb6f3609e8b6e61325ac89017590811bbd07 ajax deleted the code that could have set this format string to anything else, so just use the format string literal. This makes GCC happy since it can check the argument types, which, by the way, weren't correct since this format string doesn't need any arguments.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 0a98d9e666c7c611a3c56f97d4d8c0c546975c55
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 25 10:30:58 2010 -0700

xf86bigfont: Silence compiler warning by initializing pDesc.
Access to pDesc was always guarded by (nCharInfos > 0), so the code wasn't actually buggy, but this makes it clear that it's correct.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit 4e9d3e413245e7c01c2ff3c0f130b8967754131b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 26 07:54:35 2010 -0700

Revert "Add a "flags" field to DeleteInputDeviceRequest."

Peter wants to get a larger patch sequence put together and I didn't read past the commit message to see the 'don't take this patch please'.

This reverts commit 531ff40301975519af7b20109ec17d296312d3f2b.

commit 531ff40301975519af7b20109ec17d296312d3f2b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 20 18:07:12 2010 +1000

Add a "flags" field to DeleteInputDeviceRequest.

Some input drivers need to implement an internal hotplugging scheme for dependent devices to provide multiple X devices off one kernel device file. Such dependent devices can be added with NewInputDeviceRequest() but they are not removed when the config backend calls DeleteInputDeviceRequest(), leaving the original device to clean up.

Example of the wacom driver:

config/udev calls NewInputDeviceRequest("stylus")

wacom PreInit calls
   NewInputDeviceRequest("eraser")
   NewInputDeviceRequest("pad")
   NewInputDeviceRequest("cursor")
PreInit finishes.

When the device is removed, the config backend only calls DeleteInputDeviceRequest for "stylus". The driver needs to call DeleteInputDeviceRequest for the dependent devices eraser, pad and cursor to clean up properly. However, when the server terminates, DeleteInputDeviceRequest is called for all devices - the driver must not remove the dependent devices to avoid double-frees. There is no method for the driver to detect why a device is
being removed, leading to elaborate guesswork and some amount of wishful thinking.

Though the input driver's UnInit already supports flags, they are unused. This patch uses the flags to supply information where the DeleteInputDeviceRequest request originates from, allowing a driver to selectively call DeleteInputDeviceRequest when necessary.

Also bumps XINPUT ABI.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c2d0b3b437b7ce6ce975f2ead4d8bb8295ef0ddc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 25 17:15:32 2010 +1000

xfree86: store the InputAttributes in the input device.

InputAttributes largely decide which configuration values get merged from the xorg.conf.d snippets. While they are available in the config backend, they are not available for any other callers of NewInputDeviceRequest().

Drivers implementing driver-side hotplugging do not have access to these attributes and cannot have xorg.conf.d snippets specific to dependent devices. For example, the following case cannot work right now:

Section "InputClass"
  MatchProduct "Wacom"
  Option "PressCurve" "0 0 100 100"
  ...
EndSection

Section "InputClass"
  MatchProduct "Wacom"
  MatchProduct "eraser"
  Option "PressCurve" "10 10 50 50"
  ...
EndSection

The second section is not triggered, as the wacom driver cannot supply the InputAttributes to NewInputDeviceRequest().

Add the attributes to the IDevRec and merge them into the InputInfoRec to make them accessible in the driver. This changes the ABI for input drivers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
No special memory handling is used to give drivers the maximum flexibility with the data. Drivers should be able to call realloc on the product string if needed and perform similar operations.

midispcur: Construct Picture objects lazily in case Render is disabled.

I noticed crashes in Xnest, which doesn't support the RENDER extension, but I suspect other DDXes that support disabling that extension would have had issues as well.

xnest: Don't ignore errors from DeviceCursorInitialize.
xfixes: Remove the invisible cursor sprite, using NullCursor instead.

Oliver McFadden reports that the invisible cursor sprite caused damage events and thus unnecessary redrawing, so removing it improves performance when using software cursor sprites, especially on those devices where you do not want a visible cursor: touchscreen tablets, embedded devices, etc.

For the xfree86 DDX, if hardware cursors are used, the driver is required to provide a HideCursor function, which will be called instead of trying to set a null cursor. I think software cursors are already safe. The other DDXes also look safe.

As far as I can tell, there's no reason to realize a null cursor. I think everything that handles null cursors doesn't rely on any setup in RealizeCursor, and treats them as empty cursors.

Xnest assumes that if a cursor is created, it will be realized before it is freed, which didn't happen if the invisible cursor was never used in a server generation. So this fixes a segfault in Xnest as well.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Oliver McFadden <oliver.mcfadden@nokia.com>
Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Tested-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: move all pci code from auto configurator into a meaningful location

This patch creates the private xf86PciMatchDriver hook, which goes inside pci code to match the drivers found in the system.

Now there's no direct references to PCI inside xf86AutoConfig.c anymore.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
xfree86: no need to check for the configuration case when matching devices

xf86MatchDevice will never be called in configuration time.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

xfree86: organize and group all pci related stuff inside xf86.h

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

xfree86: remove BUS_Isa type given we don't support anymore

Should go together within commit df14682a.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

xfree86: remove all kind of bus and PCI dependency from the common helper file

Move all PCI procedures from xf86Helper.c to a more meaningful place (namely xf86pciBus.c). xf86Helper.c is free of PCI code now.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
xfree86: bus: remove useless field from EntityRec

RAC is the champion of remaining trash for sure!

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 95889a569feabd3f803af92950d067bd76e7397
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue May 18 20:48:35 2010 +0300

xfree86: bus: delete useless xf86FindPrimaryDevice

This function had a wrong name and was just logging the primary device. No one cares about it honestly.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit f6865909485d7d282c8131a2ae306143ad51ba2b
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue May 18 19:39:31 2010 +0300

xfree86: bus: remove unused headers

commit 111b1fff1ca69724a8350c4375089c312329c378
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue May 18 19:35:10 2010 +0300

xfree86: bus: remove unused pci macros

Should be gone in commits 3c03d9f1 and a9d7d659a respectively.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit 2ffffb4daf6161e6a22d81442ecf6209acc9e975
Merge: b5e06d8f4 d5306084b5
Author: Keith Packard <keithp@keithp.com>
Date:   Sun May 23 23:22:08 2010 -0700

Merge remote branch 'alanc/docs'

commit b5e06d8f45c5b24eb50b305c66fa80c783ef488
xfree86: fix multiple InputAttributes tag matching.

attr->tags is an array of strings (null-terminated). When matching, match
against each string instead of each [i,end] substring in the first tag.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d5306084b57583e670c56ce9e7d3c78cca7aa07b
Author: Brice Goglin <bgoglin@debian.org>
Date: Sat May 22 20:29:02 2010 +0200

Remove obsolete reference to README.DRI in xorg.conf.man

Signed-off-by: Brice Goglin <Brice.Goglin@ens-lyon.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@oracle.com>

commit 89dd7d2b6fe18f32c2f9336ce3d8cd9f35490e5ae
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat May 22 10:33:04 2010 -0700

Remove ancient documentation of IBM RapidAccess keyboard hack

Keyboard setup belongs in drivers, not in a document no one sees
because we don't even install it.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>

commit 480fcdf0335abae0ee544b022c7985211eee462f
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat May 22 10:29:47 2010 -0700

Remove completely out-of-date README.DRI

The license only allows distribution of verbatim copies, so we can't
update it, even to correct the incorrect address to send updates to.

The Mesa & DRI web pages are much better sources of current information
anyway.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
commit 1805c74d9b0ed46802481bcd6beea5feeb60212c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Sat May 22 10:29:00 2010 -0700

Add RandR 1.2 README.modes doc to EXTRA_DIST

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5939e39a641773a36c22104e1184143678dca7a2
Author: Dave Airlie <airlied@redhat.com>
Date: Mon May 24 09:31:51 2010 +1000

xf86: allow for no outputs connected at startup operation.

When nothing is connected at startup and we canGrow, allow the server to start with a 1024x768 framebuffer, and when the drivers send hotplug events this will expand to the correct size dynamically.

Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b9f48d60bc0c839bd323c582231e8e7e2b810af6
Author: Jamey Sharp <jamey@minilop.net>
Date: Wed May 19 10:44:33 2010 -0700

Device init: Don't crash when CreateGC fails.

ActivateDevice was ignoring errors from DeviceCursorInitialize, so cursor-related calls failed later. Jeremy Huddleston saw that crash in miPointerConstrainCursor, while with Xvfb I saw it in miSpriteRealizeCursor.

miDCDeviceCleanup frees any non-NULL GCs. miDCDeviceInitialize calls Cleanup on any failure, but if it failed early then some of the pointers in the miDCBufferPtr were garbage. Switch from malloc to calloc to ensure everything's initialized safely first.

With these two fixes, if CreateGC fails then the server gracefully fails in FatalError instead of segfaulting.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c51534961e1bb4e68ff881758862d2f85f572ce7

---
Since the headers we export in the SDK use the _X_NORETURN #define introduced in xproto 7.0.17, drivers built with the SDK will also need to have at least that version of xproto installed.

I considered exporting the version from configure.ac, but decided not to since the minimum required to build the X server may not always be the same as the minimum required to build drivers (for instance, if the X server used a new #define in its .c files or internal headers, but didn't export it in any of the SDK headers).

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

Declare functions that unconditionally call FatalError as _X_NORETURN.

For AtomError, this should fix a clang warning; in the other cases it's just good documentation.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

vfb: Remove dead variable and header file

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

doPolyText: forget about FontChange's XID after looking up pFont.
As of e2929db7b737413cf93fbebdf4d15abdffe05c, doPolyText uses pFont consistently rather than looking it up again from the saved XID.

clang noticed that "oldfid = fid" could run when fid hadn't been initialized yet.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Tested-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 989db930d739483759087b13b8a03299feaf
Author: Aaron Zang <Aaron.Zang@Sun.COM>
Date: Thu May 20 17:56:28 2010 -0700

Solaris: Use VT_SET_CONSUSER ioctl to set Console User rights profile

When Xorg is started on display :0, this ioctl is called to grant the user the rights traditionally associated with /dev/console (before VT support was added), such as access to local peripheral devices.

Also adds a Solaris-specific -C flag to force starting on /dev/console instead of /dev/vt*, allowing programs like xterm -C to access the console device.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 98553e52a14b97a03ae08dc4fc0300b3f4e2c4b5
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu May 20 17:56:27 2010 -0700

vbe.h: Use __attribute__((packed)) on Sun cc 5.9 & later as well as gcc

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7b09335a46f942814181230c69eef7968531359
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Thu May 20 17:56:26 2010 -0700

Xserver(1) man page updates

- Note that -br is now default.
- Move -bs after -br for alphabetical ordering.
- Remove -config option that's been hidden in "ignore" section, since ajax removed the -config code a couple years back.
- Add -nocursor option.
- Add xinput & xrandr to list of runtime server control programs
- Replace XDarwin with Xquartz in list of Xservers

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cf4f3d051858aad606333bb317a1daa3987ad7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 21 13:30:25 2010 +1000

dix: remove obsolete comment from EnableDevice.

The code this comment was referring to was removed in 8b5086250aa5da8ede8b763408ff480d7beac819 "Eliminate bogus event resizing."

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5754e66044571d549c295b7c9e02ce3348dbe3c7
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu May 20 10:46:43 2010 -0700

Replace screen->rgf scratch GC flags with a bit in each GC.

This eliminates a poorly-named, poorly-documented field from the ScreenRec, using a previously-unused flag bit in each GC instead.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Keith Packard <keithp@keithp.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5a7275d78a2f1c20ed5bb7b228cf370c4ada22e9
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 20 13:57:02 2010 -0700

Find windows GL wrapper files in $(srcdir) instead of .

This fixes 'make distcheck' for me.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
commit 1197a87b5638037cc48084fba4eec9d3b599e900
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 20 13:40:24 2010 -0700

winpriv.h was moved from hw/xwin to hw/xwin/glx in November

hw/xwin/Makefile.am was referencing this instead of hw/xwin/glx/Makefile.am

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 1cad520f3f1d9d520422e3e4d5d8f4ea85a212a4
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon May 17 20:35:10 2010 -0700

XFrees6 Design doc: Convert LinuxDoc `quotes' to DocBook <quote> tags

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit 8367913be3305be4f03d095615d3885107094427
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri May 14 22:05:50 2010 -0700

XFrees6 Design doc: Explain this version covers the current Xorg release

Update the title & preface to explain that while this was originally the XFree86 4.0 design, we've changed a lot since forking.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit 78fe4be4c43db1f07a30e8a6c9a17f81c1082d76
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Mon May 17 20:27:10 2010 -0700

Show Xserver release/version date in DIX & DDX docs

Uses a fake absolute path to the entity definition files so that the xmlto --searchpath will work for finding the actual path

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit 2bdc73bcf41ff0c10e70ecc15fc8b8333af6db65
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri May 14 15:33:46 2010 -0700
Move Xserver-spec.xml from xorg-docs to doc/xml

Allows keeping it in sync with the sources it documents, and to be released with them

Requires the previous patch to convert the Xserver tree from LinuxDoc to DocBook for SGML/XML documents.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit fc6ebe1e1d3057378f61f992549a98e67a04dc6c
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri May 14 14:56:09 2010 -0700

Convert LinuxDoc documents to DocBook/XML

Only the markup/formatting is changed - the contents should still be wildly out of date for now.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Rémi Cardona <remi@gentoo.org>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit ebd745ced89b2a2d9f6b4dcbd9f5f7e7f3b35451
Author: Simon Farnsworth <simon.farnsworth@onelan.com>
Date:   Thu May 20 09:58:38 2010 +0100

Add documentation for the new DefaultModes option

This patch adds documentation for the DefaultModes monitor option added in the previous patch.

Signed-off-by: Simon Farnsworth <simon.farnsworth@onelan.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cfc629148891be317ba60f2495abcda485780191
Author: Simon Farnsworth <simon.farnsworth@onelan.com>
Date:   Thu May 20 09:58:37 2010 +0100

Add configuration option to disable default modes on an output

Setting 'Option "DefaultModes" "No"' in an output will guarantee that X will omit the default modes, just picking up modes from the configuration file and modes provided by the output.
EXA: Wrap Glyphs even without Composite acceleration.

In order to avoid migration ping-pong when accumulating glyphs in a mask picture.

Use the version that includes _X_NORETURN
Date: Thu May 20 10:26:56 2010 +1000

xfree86: fix typo in optionTypeToString.

Because we don’t want anyone to get hurt.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8b6c1809c09f832051327d86e1a25dc0ec5cc878
Merge: d88ba7721d c38552d115
Author: Keith Packard <keithp@keithp.com>
Date: Wed May 19 12:58:02 2010 -0700

Merge remote branch 'jamey/for-keith'

commit c38552d115e3bc71ad6179a8ad0d68778e943793
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat Apr 24 23:56:36 2010 -0700

Add typed resource-lookup errors for non-core resource types.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e291c561821ae86b7dd74269d5cd29bc31703962
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat Apr 24 23:26:40 2010 -0700

Return an appropriately-typed error from dixLookupResourceByType.

Rather than always returning BadValue, associate an error status like
BadWindow with a resource type like RT_WINDOW, and return the
appropriate one for the requested type.

This patch only touches the core protocol resource types. Others still
return BadValue and need to be mapped appropriately.

dixLookupResourceByType can now return BadImplementation, if the caller
asked for a resource type that has not been allocated in the server.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 90e612dcebe370da095d317fac62c80ac2447fa0b
Author: Jamey Sharp <jamey@minilop.net>
Use WriteEventsToClient rather than TryClientEvents where possible.

If filter is NoEventMask (aka CantBeFiltered), grab is null, and the first event is not in the set of "critical events", then TryClientEvents simply calls WriteEventsToClient. In that case, it returns 0 for fake or dead clients, and 1 otherwise. Inline for this special case.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 8033fb6c9792820a82fdff6a14ff8a7a141ba74
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 15 13:12:44 2010 -0700

Set event sequence number in WriteEventsToClient instead of at callers.

TryClientEvents already did this; this commit just moves the assignment one level down so that no event source has to worry about sequence numbers.

...No event source, that is, except XKB, which inexplicably calls WriteToClient directly for several events.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4b9600a4167427a8fe88bca9b738c9a99cac9469
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 15 12:31:34 2010 -0700

Make WriteEventsToClient/WriteToClient no-op on fake or dead clients.

This matches the test in TryClientEvents, and is a superset of tests done by the callers of these functions. The consequence of forgetting these tests is a server crash, so they're always desirable. In my opinion, it's better to not require the callers to remember to do these checks.

For callers that don't do very much work before calling WriteToClient or WriteEventsToClient, I've removed the redundant checks.

hw/xquartz/xpr/appledri.c has an interesting case: While its check for "client == NULL" appears redundant with the test in WriteEventsToClient, it dereferences client to get the sequence number.
Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=27497
Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Chris Wilson <chris@chris-wilson.co.uk>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ee9cd2df4a5af66c6b7073563785b8ae6f1fcd8
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 15 13:37:34 2010 -0700

xv: TryClientEvents already checks client and sets sequenceNumber.

So don't bother doing those steps again.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit e1e7deefb59cfdd82c9de46a7ca241d42436b2f8
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 18 16:49:21 2010 -0700

mi/misprite.c: Delete unused private lookups.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 936b09f2a3e31afe41050c007366bb6b812c7003
Author: Jamey Sharp <jamey@minilop.net>
Date:   Tue May 18 16:48:08 2010 -0700

Replace miSpriteCursorFuncRec with direct calls to midispcur.c.

Nobody wraps the mi software-cursor sprite rendering implementations.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 66d5ecc5f5d36e21715531a39ac83dc2b6b988a7e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue May 18 13:53:29 2010 +0300

render: set anim cursor state for pointer enabled devices only

The structure containing the state of animated cursor was amended within SpriteInfoRec, removing all previously privates logic to keep such state.
API change: It was removed MAXDEVICES dependency \o/

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 99fcf655bdc96f7e5b2249b05da51ba4fc9190c7
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Sun May 2 22:34:44 2010 +0300

xfree86: remove PCI dependency from InitOutput

All functions that touch PCI and BUS were moved to their own files, organizing the mess inside the InitOutput. Now, inside InitOutput, mostly accesses to buses are coordinated by the new xf86BusConfig.

Two PCI probe functions just changed the name and a procedure to receive the isolate devices parameters was created also, named xf86PciIsolateDevice.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 0dd299864a133d478e4635bd1cd305b67fc3964d
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Sun May 2 21:33:26 2010 +0300

xfree86: remove xf86EnableAccess

It's RAC remnant. This was substituted by xf86VGAarbiter{Lock, Unlock} mechanism.

It's an API break, but the few drivers using it were covered already with macros to avoid problems.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit f28515b5f774b83e0481acbcdda2f682738079b9
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Sun May 2 21:24:46 2010 +0300

xfree86: bus: remove SetSIGIOForState and simplify the code

Also removed some dumb debug messages.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
commit 211ca67e4d8d00b20a74a78304a61d4dbea62706
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 2 21:16:23 2010 +0300

xfree86: bus: fb drivers might want to use vga arbitration either

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2464eb7d56407422e033ab3b94634ba802a119d5
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 2 21:14:53 2010 +0300

xfree86: bus: simplify entity related hooks

Remove some out dated commentaries either.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 971768e6884f20981652da09a1617c51a760fb86
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri May 7 15:25:48 2010 +0300

xfree86: bus: enable declaration of sparc function as its code usage

The code in xf86sbusBus.c seems too OS-specific to be usable on OpenBSD.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit a70ec0d136bbb9efb6f4e683d7ebcea00375083b
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 2 20:48:01 2010 +0300

xfree86: bus: rework xf86PostProbe logic and remove useless log info

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 2f7d630a1ee446711288af69711d57ea3054b594
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun May 2 20:29:11 2010 +0300

xfree86: bus: reuse already assigned variable when fb driver claimed

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
xfree86: bus: fix Enter/Leave accesses behaviour

Okay, seems we're not using extensively such hooks in fact. But fix the expected behaviour at least.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86: remove unused xf86AccessInit()

The function was only initializing the boolean xf86ResAccessEnter, which couldn't get any other value in the life of the server.

The only possible, though suspicious, code was in xf86AccessLeave(), which could be triggered if AbortDDX is called before xf86AccessInit(). Even so, such change is safety because no driver would have configured any entity leave procedure at this point.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

xfree86: Add option parsing for percent options.

In some cases, an option of "50%" would be preferable over fixed value configuration - especially if the actual values are autoprob. Add a new set of functions to parse percent values from configurations.

The percent value parsing differs slightly - if the option is not to marked as used (e.g. xf86CheckPercentOption()), no warning is emitted to the log file if the value is not a percent value. This allows double-options (either as % or as absolute number) without warnings.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
SyncSendAlarmNotifyEvents: check the correct client's clientGone flag.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

render: remove unused animcursor fields from private rec

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

render: removed unused macro from animcursor

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

dri2: Fix NULL check in allocation error handling

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Tested-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Fix build without XACE
dix/colormap.c and dix/gc.c now dereference a ClientPtr, so they need to include dixstruct.h. Regression introduced by commit 11cf69880c7c48ef9e755c4e09f8edf7a629d7bc7.

Reported-by: Robert Hooker <sarvatt@ubuntu.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5a387cf6d248e3cb3337a938200ed5a09fc1d8cb
Author: Julien Cristau <jcristau@debian.org>
Date: Sun May 16 21:29:02 2010 +0200

Only link Xorg with libconfig.la

Other DDXs don't use input hotplugging since config_init was moved to the DDX in commit d33ad6fd03c69407d151e732fa0cf9947151eb19, so there's no need to link this in.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 37f0b45dbe4ea52bc127720207c7157b2b803ac0
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun May 16 10:14:02 2010 -0700

XQuartz: Fix a build failure on Tiger

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit cfeabe8d0dce8286fb893047f1fe1a7ea9f8f5
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sun May 16 10:03:13 2010 -0700

XQuartz: Don't use deltaXY for determining pointer location on scroll events

<rdar://problem/7989690>

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Edward Moy <emoy@apple.com>

commit a911292c85f7069d2caacb677ed716a04227526
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Sat May 15 10:53:09 2010 -0700

XQuartz: Don't trust deltaXY for middle mouse clicks.
The middle mouse clicks return erroneous values after returning from Fast User Switching.

<rdar://problem/7979468>
http://xquartz.macosforge.org/trac/ticket/389

Signed-off-by: Martin Otte <otte@duke.edu>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Edward Moy <emoy@apple.com>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

ccommit 345eb171264325d73ea2c50ba8c692cf589c2a9b
Author: Keith Packard <keithp@keithp.com>
Date: Sat May 1 01:41:19 2010 -0700

Remove db screen private privates.

Each DBE Screen private structure could have nested privates. Oddly, no code ever used them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

ccommit 87ea5760f86eb60840e6e2c10012915952df5377
Author: Keith Packard <keithp@keithp.com>
Date: Mon May 10 11:46:25 2010 -0700

Check pixmap allocation return value when creating glyphs

The driver may decide that the pixmap is too large or something and fail to allocate a pixmap; not checking would lead to a segfault.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

ccommit 03f7e92a6cbfe58db08ce840283f9809695c70e7
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Mon May 10 13:44:30 2010 -0700

Update list of supported platforms in configure.ac error message

Adds DragonFly BSD, OpenSolaris, & GNU Hurd.
Drops MacOS X, since this is in the section specific to the Xorg/XFree86 DDX.
(Matches the OS patterns the configure script checks for.)

Also uses m4 macros to fix the spacing/formatting of the resulting message.
Fix compiler issues with getifaddrs() call on OpenSolaris

OpenSolaris recently added support for the getifaddrs() API.

Building with that uncovered two compiler issues (one warning, one error) in the code that was now being built for the first time in our builds:

"access.c", line 768: warning: argument #1 is incompatible with prototype:
    prototype: pointer to struct sockaddr {unsigned short sa_family, array[14] of char sa_data} : "access.c", line 213
    argument : pointer to struct sockaddr_storage {unsigned short ss_family, array[6] of char _ss_pad1, double _ss_align, array[240] of char _ss_pad2}

"access.c", line 838: assignment type mismatch:

...
in send_buffers_reply.

Solution is to handle the allocation failure and return BadAlloc to client.

Signed-off-by: Pauli Nieminen <ext-pauli.nieminen@nokia.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f87002eb7d8729b1da4cebe7653f4cfd3a2d956
Merge: a4fbc0feda 890f536f8d
Author: Keith Packard <keithp@keithp.com>
Date: Fri May 14 11:46:29 2010 -0700

Merge remote branch 'jamey/for-keith'

commit 890f536f8d66f08e7d6a5685659ef4001a8757d
Author: Jamey Sharp <jamey@minilop.net>
Date: Fri May 14 00:18:14 2010 -0700

Bugfix for "Pre-validate ChangeGC XIDs": off-by-one in loop index.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Tested-by: Colin Harrison <colin.harrison@virgin.net>

commit a4fbc0fedafda6df98f647173a2deccc86ef0479
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Fri May 14 07:49:31 2010 +0300

scrnintstr.h: removed unused PaintWindow function pointers.

Please note this patch breaks the ABI.

Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 71296885b0bb946e7ab986169f5b872952c221a0
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Thu May 13 07:12:43 2010 +0300

mi: removed unused PointerNonInterestBox functions.

Please note this patch breaks the ABI.

Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Merge remote branch 'jamey/cleanups'

Just let Dispatch() check for a noClientException, rather than making every single dispatch procedure take care of it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

Quit using clientErrorValue in dix/colormap.c.

And that's it! No more clientErrorValue kludge.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

clientErrorValue is never used outside dix. Stop importing it.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

Quit using clientErrorValue in dix/gc.c.
Define GCAllBits as the union of all valid CreateGC masks.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

Replace dixChangeGC with calls directly to the right variant.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

Pre-validate ChangeGC XIDs.

In order to execute a wire-level ChangeGC request, we need to look up the resources named by any XIDs in the value-list. Various places in the server already have pointers to the resources they want to set into the GC, though, so over time the interface has evolved to accept either XIDs or pointers, with several different function call signatures used in different eras.

This patch makes the existing code require pointers to resources rather than XIDs, and adds a simple wrapper that looks up any XIDs. The old dixChangeGC API is preserved by delegating to whichever implementation is appropriate.

This affects error-handling: If any of the XIDs are invalid, then the GC is unchanged, and its ChangeGC callback is not invoked. This change is allowed by the protocol spec, which says, "The order in which components are verified and altered is server-dependent. If an error is generated, a subset of the components may have been altered."

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
dixChangeGC callers: Use ChangeGCVal instead of XID almost everywhere.

The exceptions are ProcChangeGC and CreateGC.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 95728ca09d45af84c8d1828c09c6b6725f1a58d
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 8 09:25:34 2010 -0700

Don't statically allocate the ChangeGC parameter array.

Because that's insane.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit bff8525f8483304d5f93e83e36b47209381da721
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 8 12:06:50 2010 -0700

Simplify miFillPolyHelper and miLineArc.

Both functions compute a set of spans and either fill them immediately
or accumulate them into a caller-provided buffer.

Computing the spans used only the miTranslate and lineWidth fields of
pGC, and neither could have been changed by the initial
ChangeGC/ValidateGC pair, so it's safe to compute the spans first.

Then both functions consume the spans the same way, so factor that into
a new fillSpans function.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 83f7e97279405958aed86c6a57704a460c3bfba
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 8 13:38:00 2010 -0700

miwideline: Factor out span buffer allocation.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Remove devPrivates init and delete callback lists.

XSELinux was the only consumer of these interfaces and it no longer needs them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

xselinux: Remove use of devPrivates init/free callbacks.

Commit eb9210097e9ea81065c301e5b6b4da7a566deb4a removed the sidget/sidput calls which were the major reason for using the callbacks. The remaining operations can be skipped or worked around.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Use _X_ATTRIBUE_PRINTF _X_DEPRECATED _X_NORETURN

Use the values from xproto rather than duplicating the effort

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

dri2: Send out event when auxillary buffers are invalidated

This lets the DRI2 clients rely on the server to notify them when they need to get new buffers. Without this, OpenGL clients poll the server in glViewport() which can be a performance problems and also isn't
completely correct behaviour.

We bump the DRI2 protocol minor to indicate the availability of the event, which the DRI2 clients can use to avoid polling. This speeds up various piglit and oglc test cases as well as real applications.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Remove ResNoAvoid definition, missed in the RAC removal

ResNoAvoid is #defined to ResBios, but ResBios was removed from xf86str.h in 4b42448a2388d40f257774fbfdccae87bd0347

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

CreateGC: Pass current client on to ChangeGC.

Otherwise we can't check that the XIDs this GC is being initialized with are accessible to this client.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

Kill ChangeGC in favor of dixChangeGC.

This doesn't change any behavior, but it isn't clear whether NullClient is correct in all cases. As ajax says,

> For most of these changes, I think it's correct to use NullClient,
> since they are server-initiated changes and should not fail for (eg)
> xace reasons. ... At any rate, you're certainly not changing any
> semantics by leaving them all as NullClient, so this patch can't be
> more wrong than before.

The call in CreateGC is particularly questionable.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 65cedf39054cf3a1e695e84ac228c9e8d48097
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu May 6 21:39:43 2010 -0700

Kill DoChangeGC in favor of dixChangeGC.

This doesn't change any behavior, but it isn't clear whether NullClient
is correct in all cases. As ajax says,

> For most of these changes, I think it's correct to use NullClient,
> since they are server-initiated changes and should not fail for (eg)
> xace reasons. ... At any rate, you're certainly not changing any
> semantics by leaving them all as NullClient, so this patch can't be
> more wrong than before.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit afcbbd6dfe51c5b0adca0d720edc02ba0c2dc16
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat May 8 15:19:03 2010 -0700

doPolyText needs UseAccess to each font, not ReadAccess.

In commit 42d6112ec21949a336ee8b34469f2695273ee2d6, Eamon changed
dixChangeGC to require DixUseAccess on any GCFont XID. I think
doPolyText needs to require the same level of access. Otherwise
dixChangeGC could fail when it does the same lookup, which doPolyText
doesn't check for.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Cc: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 59857ee5da5f1f3f4900292581b9586477513211
Merge: 21ceae9002 432cbbec19
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 12 16:48:08 2010 -0700

Merge remote branch 'dottedmag/for-keithp'
commit 432cbbec194e47bf2a117c9302146e786c8a4ee1
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 13 03:51:00 2010 +0700

Misc coding style cleanup

Use [a][b] instead of *(a+b), fix whitespace.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 816b79dd061e9839cec94a4986a7820b70ca8a7f
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 13 03:45:21 2010 +0700

Remove useless casts

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 63a647abd51f44226cbd16aa04ebc57d07463c6d
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 13 03:44:12 2010 +0700

Fix code style: extra whitespace before ()

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 28211c443c693a1ca3db5740d0128274a3eef723
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 13 03:43:04 2010 +0700

Fix warning: it's safe to pass atom strings > XA_LAST_PREDEFINED to free(3)

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8b5326aa98eba201dd78aea3dd7114e1a084489b
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Wed May 12 20:27:02 2010 +0000

Mark OsAbort as noreturn function to make gcc happier.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Introduce X_NORETURN macro defined as __attribute__((noreturn)) for gcc

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

Do not jump through the hoops to deallocate xkbbasedirflag variable

Fixes gcc warning as well.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

Turn sprintf argument into literal string, shutting up gcc warning

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

Do not use deprecated Xalloc function

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Matt Turner <mattst88@gmail.com>

SetFontPath: set client->errorValue on failure.

Previously the callers were only setting errorValue on Success, when it's ignored, and leaving it alone on failure, when it's sent to the client.
Since SetFontPath takes the ClientPtr, let it set client->errorValue
instead of letting the callers continue to get it wrong.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 801162919d1c625d950a5d105ae4b3487ebc30a7
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu May 6 01:55:36 2010 +0700

Removed outdated comments obsoleted by documentation in headers

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4d55c8c4ffcb5d6c6500b462a41ace8e2359151d
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu May 6 01:54:13 2010 +0700

Use lowercase variant of XNFalloc and Xstrdup

Using one variant of function/macro makes it easier to fix the code
later.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3f3ff971ecff9936cebafc813af9193b97bba89c
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu May 6 01:44:06 2010 +0700

Replace X-allocation functions with their C89 counterparts

The only remaining X-functions used in server are XNF*, the rest is converted to
plain alloc/calloc/realloc/free/strdup.

X* functions are still exported from server and x* macros are still defined in
header file, so both ABI and API are not affected by this change.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 96c7ab27c383ec767f62a7a11e5fd76f86363fbc
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu May 6 00:28:25 2010 +0700
Deprecate allocation functions which are plain wrappers for C stdlib

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a5db0f5caefce236ebd5f71948e5a659bea58e4
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 6 00:27:47 2010 +0700

Document allocation functions, noting deviations from C library

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e983848ab44b0769f97f6207f1aa8b4f127be6a9
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Thu May 6 00:16:24 2010 +0700

Clean {X,XNF} {alloc,calloc,realloc,free,strdup} from pre-C89 baggage

C89 guarantees alignment of pointers returned from malloc/calloc/realloc, so
stop fiddling with alignment manually and just pass the arguments to library
functions.

Also convert silent error when negative size is passed into function into
warning in log file.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4f0006c2203abe0b7660c5068d6afe236f9bd2a4
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Mon May 10 08:36:02 2010 -0400

dri2: Copy front to fake front in swapbuffer

If we don't have a fake front, nothing will happen. The fix was extracted
from a bigger patch from Francisco Jerez.

https://bugs.freedesktop.org/show_bug.cgi?id=27305
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Pauli Nieminen <suokkos@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ba1f1f9d9e48226f1ef6b3222a8d92fe969d6560
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Tue May 11 09:49:34 2010 -0700
XQuartz GL: Fix __glXAquaScreenCreateDrawable prototype

Fixes regression introduced in 9de0e31746d5f0d9d39d11c94ec3cbc04a9935fc

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 286935c6f4965a6b09de1f9e579a00afa14082a
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 11 09:08:40 2010 -0700

Remember drawable ID used to find damage target for use in events. Bug 5730.

Using Composite, window pixmaps are given names in the client resource
namespace and yet may not have any XID recorded in the drawable
structure. As such, we need to remember the XID used to lookup the
pixmap in the resource database so that we can report the correct XID
back to the client in damage events.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 3df22b293c1f1d27e7ce16662744c578d35b5aba
Merge: fa6c701257 9de0e31746
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 11 08:38:44 2010 -0700

Merge remote branch 'krh/dri2-resource-fixes'

commit fa6c7012572093a82c9389682977efff85590719
Author: Cyril Brulebois <kibi@debian.org>
Date:   Mon Mar 1 02:11:36 2010 +0100

Fix null pointer dereference in xf86_reload_cursors().

Upon resume, X may try to dereference a null pointer, which has been
reported in Debian bug #507916 (http://bugs.debian.org/507916).

Jim Paris came up with a patch which solves the problem for him. Here's
a (hopefully) fixed version of his patch (without the typo).

Cc: Jim Paris <jim@jtan.com>
Signed-off-by: Cyril Brulebois <kibi@debian.org>
Reviewed-By: Matthias Hopf <mhopf@suse.de>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9de0e31746d5f0d9d39d11c94ec3cbc04a9935fc
dri2: Take an XID for tracking the DRI2 drawable

Some pixmaps (window pixmaps and scratch pixmaps) don't have the drawable->id set and thus DRI2 gets confused when using that field for looking up the DRI2 drawable. Go back to using privates for getting at the DRI2 drawable from a DrawablePtr. We need to keep the resource tracking in place so we can remove the DRI2 drawable when the X resource it was created for goes away. Additionally, we also now track the DRI2 drawable using a client XID so we can reclaim the DRI2 drawable even if the client goes before the drawable and doesn't destroy the DRI2 drawable.

Tested-by: Owen W. Taylor <otaylor@fishsoup.net>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>

commit 32381363cd8f43aeb741bad70bcf96a287dac0c9
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Sat May 1 13:15:00 2010 -0400

list.h: Add list_for_each_entry_safe()

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 4a8a615d01b9ed18c272414bd11dc2fc661727e5
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Sat May 1 13:13:54 2010 -0400

glxdri2: Hard-code the extension version we need

If we use the #define'd version from dri_interface.h, the server will require at least that version of the extension. If we're compiling against a dri_interface.h with a newer version we don't really require, glxdri2 will require a too high version of the extension.

The right approach is to just hard-code the version we need instead of using the #defines.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit 6d7ba5e0fcb5d1bec6bb213dec009f3a0f802d26
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Sat May 1 13:07:46 2010 -0400
FreeResource() keeps clientTable[cid].elements up to date with the number of resources allocated to the client. The other free resource functions (FreeResourceByType(), FreeClientNeverRetainResources() and FreeClientResources()) don't maintain this invariant.

Typically, the only consequence is that the element count is too high and we end up allocating the hash table bigger than necessary. However, FreeResource() also relies on the element count to restart the search if the list of resources has been changed during a resource destruction callback. Since FreeResourceByType() doesn't update the count, if we call that from a resource destruction callback from FreeResource(), the loop isn't restarted and we end up following an invalid next pointer.

Furthermore, LookupClientResourceComplex() and FreeClientNeverRetainResources() don't use the element count to detect if a callback deleted a resource and may end up following an invalid next pointer if the resource system is called into recursively.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 10de9e8ee37265a35cececeb2007d711da70d4f2d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Apr 16 16:35:22 2010 +1000

xfree86: dga needs to use the master keyboard state (#27573)

GetPairedDevice() may not always return the keyboard, resulting in a null-pointer dereference when accessing the XKB state.
For floating devices, the GetMaster() returns the device itself.

X.Org Bug 27573 <http://bugs.freedesktop.org/show_bug.cgi?id=27573>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Tested-by: Ben Hutchings <ben@decadent.org.uk>

commit 758b8614477b53dc3de2b884fec5ccaf8a736d432
Author: David James <davidjames@google.com>
Date: Mon May 10 14:00:49 2010 -0700

Fix wrong bracket values when startOver = FALSE.

Currently, SyncComputeBracketValues reuses old values of bracket_greater and bracket_less when startOver = FALSE. This can result in incorrect bracket
values. To fix this issue, the startOver parameter is removed, and we do not reuse old values of bracket_greater and bracket_less.

X.Org Bug 27023 <http://bugs.freedesktop.org/show_bug.cgi?id=27023>

Signed-off-by: David James <davidjames@google.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 95074538cce93abc1739a4d9dd78b0500fb8fec9
Merge: c0799779df 2160ff5240
Author: Keith Packard <keithp@keithp.com>
Date: Mon May 10 13:49:33 2010 -0700

Merge remote branch 'jamey/for-keith'

commit 2160ff5240d7e11bde6ec8859fd1f10395c8edd
Author: Jamey Sharp <jamey@minilop.net>
Date: Fri May 7 20:00:40 2010 -0700

Simplify error-handling in dixChangeGC.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 4080cd42fde8b4c693eab7557581af2622479109
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat May 8 09:41:46 2010 -0700

miPolyPoint bugfix: Check memory allocation before changing the GC.

miPolyPoint ought to leave the GC unchanged even if it fails. ajax says:

> We have a new winner for the oldest-bug competition! It's actually
> been like that since X11R1:
> >
> > -rw-r--r--. 1 ajax ajax 2817 1987-09-12 01:20 ddx/mi/mipolypnt.c

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit ccdaecc5471cc2d56b1702e0ed4280bb4d58c515
Author: Jamey Sharp <jamey@minilop.net>
Date: Sat May 8 12:26:47 2010 -0700

Move AppendSpanGroup from miwideline.h to miwideline.c.

Also make it stop being a macro.
Expand macros that are used only in miFillPolyHelper.

dmxBERestoreRenderGlyph was passing wrong value to free

mi: Delete wide ellipse arc cache

This does make wide ellipses slower, by a factor of twoish:

946000.0  521000.0 ( 0.55)  10-pixel wide ellipse
98300.0   49900.0 ( 0.51)  100-pixel wide ellipse
17700.0   9310.0 ( 0.53)   500-pixel wide ellipse
16900.0   7980.0 ( 0.47)   100-pixel wide dashed ellipse
16100.0   5370.0 ( 0.33)   100-pixel wide double-dashed ellipse

But no one cares, and it's a modest size win:
Return BadPicture, not BadPixmap, if alpha-map is invalid.

I believe this is what was intended.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c677fc611b124c44adfcfb95718798105f26357b
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu May 6 11:00:38 2010 -0700

VERIFY_PICTURE always returns BadPicture. Don't bother specifying.

Same goes for VERIFY_ALPHA, VERIFY_XIN_PICTURE, and VERIFY_XIN_ALPHA.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 35761d5f811406bc0b6a68c1b02bdb699142745c
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu May 6 11:00:37 2010 -0700

Introduce dixLookupFontable for "FONT or GC" parameters.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2eab697adb14858a530750e9a35fba79a7bf26
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date:   Fri May 7 09:32:34 2010 -0700

Constify function prototypes in auth & xdmcp code

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e2e2747f40c4b9e23dba38ea656d4c082e83a794
Author: Matthias Hopf <mhopf@suse.de>
Date:   Fri May 7 18:46:30 2010 +0200
Fix mod() definition.

Presumably no implications, especially security-wise.

Signed-off-by: Matthias Hopf <mhopf@suse.de>
Reviewed-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 626f97688a89dbc5da80390d822d21b1a737de0e
Author: Adam Tkac <atkac@redhat.com>
Date: Fri May 7 17:02:03 2010 +1000

Export XkbCopyDeviceKeymap from Xorg, it is needed by VNC.

Signed-off-by: Adam Tkac <atkac@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 21ed660f30a3f96c787ab00a16499e0fb034b2ad
Author: Chris Humbert <freedesktop@mahadri.com>
Date: Fri May 7 17:02:43 2010 +1000

dix: make DeviceEvent coordinates signed for Xinerama. #24986

With Xinerama enabled, event coordinates are relative to Screen 0, so they can be negative. The new DeviceEvent's coordinates are of type uint16_t, making screens above and to the left of Screen 0 unusable.

X.Org Bug 24986 <https://bugs.freedesktop.org/show_bug.cgi?id=24986>

Signed-off-by: Chris Humbert <freedesktop@mahadri.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9802839d35aaf788790f1d0e8300db4693a70096
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 7 16:22:12 2010 +1000

Xi: reset the known properties at the end of the server generation.

Properties allocated through XIGetKnownProperty() aren't reset on the second server generation but keep the old value. As a result, wrong Atoms are supplied to the driver, resulting in potential data corruption or weird error message.

Reproducible by running "xlsatom | grep FLOAT" twice on a plain X server. The second X server generation won't have the FLOAT atom defined anymore,
despite the users of this atom not noticing any errors.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 727582827f79a4f1aa8fa388f20947042e3e14693
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue May 4 15:15:02 2010 +0200

XQuartz: add new localization files to EXTRA_DIST

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit a3f5d30ba61e70b3de8b48754dea32715ba93c40
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 16:10:32 2010 -0700

Make sure XFixes invisible cursor gets freed on server reset

This uses the same hack that dix uses for the rootCursor -- allocate a resource ID for the invisible cursor so that it gets freed at reset time. This also allows us to unconditionally create it during extension initialization; necessary as the privates layout may well be different on subsequent generations.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cdeb2c23f80ced961fe2051255547e16905885534
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 12:18:09 2010 -0700

Fix cursor ref counting mistakes with sprites and xf86Cursor.c

A few cursor value assignments weren't getting correctly ref counted, causing leaks of cursor objects.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a80b1f888f2f7674a715d512ab950eeadee20448
Merge: 4971099860 0efd7b8d82
Author: Keith Packard <keithp@keithp.com>
Delete loop with no effect from GlyphUninit

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Replace some input devPrivates with regular struct fields
In the process, fixes a memory leak in CloseDevice, and an unchecked
memory allocation in InitializePredictableAccelerationProperties.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Move callback definitions to their own file
Needed as the privates stuff uses the callbacks before they would have
been defined in dix.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Move X_DEPRECATED to misc.h so it can be used outside resource.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Move X_DEPRECATED to misc.h so it can be used outside resource.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Move X_DEPRECATED to misc.h so it can be used outside resource.h

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
dix: Improve documentation of the DIX private data functions.

The functions exported by the devPrivates code were poorly documented. I tried to spruce it up a little.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 986d46144b183a36b4e98aed95eca0c55a8b4251
Merge: a974c8e7cb b5b8f91b82
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 12:40:53 2010 -0700

Merge remote branch 'jamey/for-keith'

Conflicts:
   hw/xfree86/common/xf86xv.c

commit a974c8e7cb40c8d7d1b91e07de8c414627b71a2
Merge: 6581bc4591 02e86221b8
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 12:33:00 2010 -0700

Merge remote branch 'whot/for-keith'

commit 6581bc4591746c906d97f8b868f946c47bc6d756
Merge: 0e91e19f78 d073e51bee
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 12:29:52 2010 -0700

Merge remote branch 'yselkowitz/master'

commit 0e91e19f783d21198fc2e210203e0f10040a9cd0
Merge: 81a081c1f0 edbc56c088
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 30 12:27:51 2010 -0700

Merge remote branch 'vignatti/for-keith'

commit 02e86221b851e5423a95782aa7e297ea051022ca
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 29 09:48:37 2010 +1000

xfree86: a missing input driver is not an error.

We call NIDR on all devices that make it through the config backend.
Including some that have no driver assigned to them (/dev/input/mouse0 for example). Those ones then simply get ignored by NIDR, but this should not be noted as an error in the log file.

X_INFO is sufficient, and it may just prevent some bugreports.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 81a081c1f0cb55df94cb10495aa7ad71cd5a9af
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Sat Nov 7 19:28:18 2009 +0000

Cygwin/X: AIGLX using native WGL

A rewrite of the XWin DDX AIGLX code to actually make it do something useful again

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 262c2c9031ea60cbe738ed80ddb7faa1b888d137
Author: Rami Ylimäki <ext-rami ylimaki@nokia.com>
Date: Tue Apr 27 14:04:47 2010 +0300

test: Fix linking of wrapped functions in XI2 tests.

Running "make check" will lead to build problems in scratchbox. Building the first test that wraps dixLookupWindow fails because symbol __real_dixLookupWindow can't be resolved. Defining wrapping options as linker options instead of compiler options makes everything build nicely in scratchbox.

Signed-off-by: Rami Ylimäki <ext-rami ylimaki@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ffaae7c0c69a51a53a76146c79f3630ae197a443
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Apr 26 20:11:31 2010 -0700

Remove mibank support

Banked framebuffers are so 1990. As of 7.4 the only drivers remaining that used this were chips, neomagic, trident, and vesa. vesa only used it when not using shadowfb, which is broadly undesirable anyway, and no longer uses it at all as of 2.3.0. neomagic never used it by default, and support for it is gone in git master. The other two effectively
only ever used it for ISA chips; since ISA support is now gone from
the server, they have been modified to only compile mibank support when
ISA support is available.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b5b8f91b82d7b150c926dd3fecee6c3aafff6e39
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Apr 22 21:35:17 2010 -0700

xfree86: use screen privates for Xv offscreen images.

This replaces a globally-allocated array that depended on MAXSCREENS.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit a1c2a2cfe798c57e5be7e5f6c111a6ce91400487a
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Apr 21 18:05:45 2010 -0700

xfree86: use screen privates for exclusive DGA clients.

Most DGA requests allow at most one client to be using DGA on each
screen. Instead of keeping track of the current client in a
MAXSCREEN-sized array, track it in a per-screen private.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit f9e3a2955d2ca73604c68fc9d5140581b832edb
Author: Jamey Sharp <jamey@minilop.net>
Date:   Mon Apr 26 18:23:27 2010 -0700

Make Xvfb independent of MAXSCREENS.

If a -screen option specifies a screen number higher than any previously
specified, reallocate the vfb-private array of screen-info structs.

If built with a DIX that still has a MAXSCREENS limit, asking for too
many screens won't be detected until InitOutput calls AddScreen.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
commit 20e84b0b44e8b3b40a3ecab5b2e64a27de247b16
Author: Jamey Sharp <jamey@minilop.net>
Date:   Mon Apr 26 18:09:23 2010 -0700

Xvfb: Simplify screen option processing.

Inspired by Jon Turney's "Xwin: Simplify screen option processing"
patch, which does something similar for the Xwin server.

Besides making the code more readable, this eliminates most of Xvfb's
references to MAXSCREENS.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit eeb84547556b943af2acff207e034823205c7dfe
Author: Jamey Sharp <jamey@minilop.net>
Date:   Mon Apr 26 18:04:25 2010 -0700

Delete redundant scrnum field from Xvfb private screen-info struct.

The screen number can be inferred from the position in the vfbScreens
array, and it was only used in two places, so it was hardly important.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit da0217891904bc48d5f0b7ea5c62c8ea0e9b95f9
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Apr 21 22:26:28 2010 -0700

Track screens' installed colormaps as screen privates.

Several DDXes allow each screen to have at most one (or in some cases,
exactely one) installed colormap. These all use the same pattern: Declare
a global-lifetime array of MAXSCREENS ColormapPtrs, and index it by
screen number. This patch converts most of those to use screen privates
instead.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 22c4300ee25a20e1f815e46225bf0de9cfd6748f
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Oct 7 09:00:02 2009 -0700

Simplify XineramifyXv.
The structure of the adaptor-matching algorithm was obscured by trying to use "continue" and "break" as the only control-flow primitives. It's a lot more clear if you add "return" to that set.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit af170a4ab76d33254dd4e54a33bb410fa1624739
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 21 15:51:20 2010 +1000

Xnext: only update the sprite on pointer events.

A call to miPointerUpdateSprite for the XTEST keyboard may result in a NULL pointer dereference in miDCPutUpCursor() when the save buffer is NULL.

XTS test case: Xlib 11 KeymapNotify

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bac1c5f1be4588b2b1eb646ee98a5442e1b767d5
Author: Dirk Wallenstein <halsmit@t-online.de>
Date:   Sat Apr 17 21:36:23 2010 +0200

xkb: Fix omissions in geometry initialization #27679

_XkbCopyGeom did not copy all of the data from the source geometry. This resulted in failures when trying to obtain the keymap from a server where the default geometry has not been replaced by a custom configuration.

Signed-off-by: Dirk Wallenstein <halsmit@t-online.de>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3f63db89191701139d45332ca80b9d6eb327c773
Merge: 41bdb6c003 54e51de8cd
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 26 20:18:13 2010 -0700

Merge remote branch 'jamey/for-keith'

commit 41bdb6c003cca3ef0ff88d9c7de318115bab1ba2
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date:   Wed Apr 21 18:11:05 2010 -0700

xf86: Don't crash when switching modes through RandR without owning the VT.
While VT-switched, FB access is disabled and should remain so. Trying to switch modes in that state would re-enable it, potentially causing crashes if trying to access it before the driver has recovered from the mode switch.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2a763c9023b8bc978b32ea56d2c625b6f2baade
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 15 16:54:35 2010 -0500

dix: Default DPMS timeout values to match screensaver values

These have the same default, but if you specify something different with -s on the command line, only the screensaver time is changed. As DPMS is usually what's desired, change it to match.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 518f3b189b6c8aa28b62837d14309fd06163cbb
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date:   Wed Apr 21 16:46:17 2010 -0700

mi: don't thrash resources when displaying the software cursor across screens

This changes the DC layer to maintain a persistent set of GCs/pixmaps/pictures for each pScreen instead of failing to thrash between them when changing screens.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 54e51de8cd950b3f5b30e72cf1d604f54f619f0e
Author: Jamey Sharp <jamey@minilop.net>
Date:   Sat Apr 24 23:07:47 2010 -0700

ProcGrabButton: remove redundant error check.

If dixLookupResourceByType did not return Success, it will have set the pointer to NULL, so the second if will always be true.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Kill unused/useless macros in panoramiX.h: BREAK_IF, IF_RETURN, FORCE_ROOT

This header doesn't seem to be used outside the server tree, so I don't think anything was depending on these except what I've fixed in this patch.

FORCE_ROOT is not used anywhere, and never has been in all the history that's in git. ajax removed its FORCE_WIN and FORCE_CMAP companions three years ago, in 04b87d6dfae02e4ecdb5216d12c6c6d9f1e8c2b.4.

BREAK_IF and IF_RETURN expanded to exactly the keywords in their names, which is silly. They were rarely used and served only to make callers inconsistent with the idioms used elsewhere in the server.

Boolean-or short-circuits, so (a || (!a && ...)) is redundant. Simplify.

Exa screen private has SavedSourceValidate, not SourceValidate

Need to check the right field to see if there is a wrapped SourceValidate function.
Clarify help strings for disabled features in configure

Features which are disabled by default use the --enable-* syntax to show how they need to be passed to override the default.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>

commit 57409af1267f48457f93134922f2450518182e09
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Apr 14 13:18:28 2010 -0500

Catch when requested SHA1 implementation is missing

The other SHA1 implementation detections already error out if specifically requested but were not found.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 0d8fe2fe5c37659147cbeac793183c62fc6818a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Tue Apr 13 13:32:51 2010 -0500

Prefer libsha1 over libgcrypt

When no SHA1 implementation is specified, we should first prefer system-builtin solutions (libc/libmd/CommonCrypto), then smaller implementations over the larger ones. libsha1 is much smaller than libgcrypt, so it should be first.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Acked-by: Julien Cristau <jcristau@debian.org>

commit 65a2c09549d2372e23b155adff428177708e910
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Apr 8 21:55:45 2010 -0500

Revert "Disable Record by default."

Record was broken during the pre-1.6 development cycle and was not fixed until 1.7.6. Now that it is fixed, re-enable it by default.

This reverts commit 3eaecdd66e791e0f3d86b23ce10be057ca44c044.
Conflicts:

configure.ac

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6e0d847c273ab89323883a05f806f449180e3669
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Mar 25 03:37:09 2010 -0500

xfree86: Fix reference to SGML entities

XORG_CHECK_LINUXDOC sets the SGML search path to the parent of X11/defs.ent.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Gaetan Nadon <memsize@videotron.ca>

commit 04b7d529c09af2c842cf020d5b26080e1fd88d6
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Mar 25 03:36:25 2010 -0500

xfree86: Ignore linuxdoc generated docs

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Acked-by: Gaetan Nadon <memsize@videotron.ca>

commit 39e5108ec78e0802833a8e9ea7f29d042738625ba
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Mar 25 03:35:36 2010 -0500

dmx: use silent rules in doc

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Acked-by: Gaetan Nadon <memsize@videotron.ca>

commit 3ba2ce5d1054c99354686aeb373247f1b9deb79
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Thu Mar 25 03:33:55 2010 -0500

dmx: Ignore linuxdoc generated docs

dmx.txt and scaled.txt are generated from SGML, so they probably never should have been in version control in the first place.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>

commit 40972576b606237d5d42abc13d846163e264a4ac
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Mar 23 04:47:27 2010 -0500

Use AC_PROG_SED and respect its result

AC_PROG_SED sets SED as the path to a fully-functional 'sed' (which may
also be called 'gsed' if GNU sed is installed alongside a proprietary
version).

This is a follow up to commit 9be4157391edf0c5f0c4ee36adfb1eb1c3db8e3b.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Rémi Cardona <remi@gentoo.org>

commit b557571db7f3d9a615e03cad904d4668af9153a0
Author: Jerome Glisse <jglisse@redhat.com>
Date:   Mon Apr 26 16:01:48 2010 +0200

exa: avoid calling non existent SourceValidate callback

In unaccel path we were unconditionally calling the SourceValidate
callback but in some case it could be NULL. Check if we have a
valid callback before calling it.

Signed-off-by: Jerome Glisse <jglisse@redhat.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 06e75b04ea3a119639053acc03d0ac5ece83
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 26 09:14:22 2010 -0700

Revert "exa: avoid calling non existent SourceValidate callback"

This reverts commit daa6f9308fa57e41210f78d92dbb3f1c8ea6ad.

This one checked pScreen->SourceValidate instead of
pExaScr->SourceValidate which would cause a segfault when
pExaScr->SourceValidate was NULL.

commit daa6f9308fa57e41210f78d92dbb3f1c8ea6ad
Author: Jerome Glisse <jglisse@redhat.com>
Date:   Mon Apr 26 15:55:26 2010 +0200

exa: avoid calling non existent SourceValidate callback
In unaccel path we were unconditionally calling the SourceValidate callback but in some case it could be NULL. Check if we have a valid callback before calling it.

Signed-off-by: Jerome Glisse <jglisse@redhat.com>
Acked-by: Michel Dünzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit edbc56c088462844f6445f5e6d7cbfc58a207dc
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:    Mon Apr 26 14:49:25 2010 +0300

include: remove couple of unused structures fields and bump ABI

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 4f8dc1109dcdfa973466a038c16c07da5f6c16b4
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:    Thu Apr 22 15:43:11 2010 +0300

dix and others: remove unused arraySize field from ScreenInfo

Bizarre. This seems to never be used before. I left the field in ScreenInfo, with another name. So, stop looking at it.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>

commit 64fd39f2f0ffbbdc2d5929047d260263d0962141
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:    Thu Apr 22 15:48:48 2010 +0300

xfree86: no need to assign numScreens again

numScreens is always being assigned to 0 in dix for any server generation.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a7d398e545a4be5491248d5ccb303aa03ee1594f
Author: Jon TURNER <jon.turney@dronecake.org.uk>
Date:    Fri Apr 16 18:13:50 2010 +0100

Xwin: make screens structures run-time adjustable

Change g_ScreenInfo, an array of winScreenInfo elements, from a static array of MAXSCREENS elements, to a dynamically allocated one
Fix up the validation that -screen option screen numbers are contiguous from zero (which possibly didn't work correctly before anyhow)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit d8454ae488cfc073cd6010e9a08d53855a0c2612
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Apr 12 20:18:13 2010 +0100

Xwin: Simplify screen option processing

Use an instance of the XWin DDX-specific screen info structure to hold the current default values, to simplify greatly the code for applying options to all screens and remove all those loops over MAXSCREENS screens in the command line option processing

Use g_iNumScreens for tracking the current initialized screen count

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Jamey Sharp <jamey@minilop.net>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit b61870595ba4df06006d24ed8c07cfe781bce1b7
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Thu Apr 22 20:20:48 2010 +0300

xfree86: track screens' installed colormaps as screen privates

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a94f5455c71363d5047668ee093901b9e1645cf1
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Thu Apr 22 20:20:43 2010 +0300

mi: track screens' installed colormaps as screen privates

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

commit a2c716eaf6b3a4ce75382394636a0a890b5d4e0
Author: Jamey Sharp <jamey@minilop.net>
Date: Thu Apr 22 07:34:04 2010 +0200
fb: track screens' installed colormaps as screen privates.

Several DDXes allow each screen to have at most one (or in some cases, exactly one) installed colormap. These all use the same pattern: Declare a global-lifetime array of MAXSCREENS ColormapPtrs, and index it by screen number. This patch converts most of those to use screen privates instead.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit e055bef055b6c726e9f3ef91a83585d13c80651d
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Apr 22 06:08:29 2010 +0200

xfree86: use screen privates for exclusive DGA clients

Most DGA requests allow at most one client to be using DGA on each screen. Instead of keeping track of the current client in a MAXSCREEN-sized array, track it in a per-screen private.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 7c9733d063aceee04735a0e75d62e508f4ea1163
Author: Jamey Sharp <jamey@minilop.net>
Date:   Fri Apr 23 06:41:00 2010 +0200

xfree86: use screen privates for Xv offscreen images.

This replaces a globally-allocated array that depended on MAXSCREENS.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 35d208125fa08ec78e8d694ad52886b977e789cf
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Apr 21 18:28:13 2010 +0300

xfree86: fix not reached code in fi1236 driver from i2c

This issue was introduced in the first dump of the code in 2004. I haven't check what's the correct fix for it so I simply kept the behaviour of someone calling this and removed the unreachable code.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit 7ac6a6b7d0dc5e021270b2898accd3425aa008a
Merge: 0782894b57 f7ef6d9a1
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 21 16:07:38 2010 -0700

Merge remote branch 'vignatti/for-keith'

Conflicts:
    exa/exa.c

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0782894b5702adcf6f4a90861793b717f3856fa5
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 21 16:00:28 2010 -0700

    Xvfb: Usage message typo fix.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ee3412b8702072c3a0b006bd20dd3bc7071d721c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 21 15:58:23 2010 -0700

    Restore some unused win32 debug code accidentally removed with unifdef
unifdef found some code covered by
    which it decided to remove. This patch simply restores that in case
someone wants it back.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit e3d2a7a613366c26e5316cf582d9a8c6c6692b0a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 21 11:47:24 2010 +1000

    Revert "mi: don't thrash resources when displaying the software cursor across screens"

This commit leads to a segfault on the very first XTS test case.

Backtrace:
0: /opt/xorg/bin/Xorg (xorg_backtrace+0x3b) [0x80a33db]
1: /opt/xorg/bin/Xorg (0x8048000+0x62a75) [0x808aa75]
2: (vdso) (__kernel_rt_sigreturn+0x0) [0x5d140c]
3: /lib/libc.so.6 (0x9bb000+0x73579) [0xa2e579]
4: /lib/libc.so.6 (realloc+0xe0) [0xa2e830]
Segmentation fault at address 0x10b2d5f8

valgrind output:
==5069== Invalid read of size 4
==5069== at 0x80F928D: FreePicture (picture.c:1531)
==5069== by 0x818DDEF: miDCDeviceCleanup (midispcur.c:867)
==5069== by 0x81B97F0: miSpriteDeviceCursorCleanup (misprite.c:968)
==5069== by 0x80995FA: miPointerDeviceCleanup (mipointer.c:292)
==5069== by 0x807973E: CloseDevice (devices.c:840)
==5069== by 0x80799B6: CloseDownDevices (devices.c:933)
==5069== by 0x8062705: main (main.c:309)
==5069== Address 0x4cce844 is 12 bytes inside a block of size 84 free'd
==5069== at 0x40057F6: free (vg_replace_malloc.c:325)
==5069== by 0x80A3DE0: Xfree (utils.c:1154)
==5069== by 0x80F9332: FreePicture (picture.c:1576)
==5069== by 0x80FBB4B: PictureDestroyWindow (picture.c:69)
==5069== by 0x810B1A3: damageDestroyWindow (damage.c:1840)
==5069== by 0x80864F1: FreeWindowResources (window.c:846)
==5069== by 0x8086812: DeleteWindow (window.c:925)
==5069== by 0x806B53E: FreeClientResources (resource.c:806)
==5069== by 0x806B60F: FreeAllResources (resource.c:823)
==5069== by 0x80626E4: main (main.c:299)
==5069==
==5069== Invalid write of size 4
==5069== at 0x80F9295: FreePicture (picture.c:1531)
==5069== by 0x818DDEF: miDCDeviceCleanup (midispcur.c:867)
==5069== by 0x81B97F0: miSpriteDeviceCursorCleanup (misprite.c:968)
==5069== by 0x80995FA: miPointerDeviceCleanup (mipointer.c:292)
==5069== by 0x807973E: CloseDevice (devices.c:840)
==5069== by 0x80799B6: CloseDownDevices (devices.c:933)
==5069== by 0x8062705: main (main.c:309)
==5069== Address 0x4cce844 is 12 bytes inside a block of size 84 free'd
==5069== at 0x40057F6: free (vg_replace_malloc.c:325)
==5069== by 0x80A3DE0: Xfree (utils.c:1154)
==5069== by 0x80864F1: FreeWindowResources (window.c:846)
==5069== by 0x8086812: DeleteWindow (window.c:925)
==5069== by 0x8086B53E: FreeClientResources (resource.c:806)
==5069== by 0x806B60F: FreeAllResources (resource.c:823)
==5069== by 0x808626E4: main (main.c:299)

XTS test case: Xproto pAllocColor

This reverts commit 00b8b7ad61b6f818271fb4d1e383113170309d72.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f7ef6fd9a1a1f48603df2796fe7c904c25a81077
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Apr 20 15:56:58 2010 +0300

xfree86: fix not reached code in tty code

CLEARRTS_SUPPORT cannot be triggered at all. Notice that mouse driver manual
page states the support for it though.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b36eeb713a349961a6b8e8a6dd183ded6d27f9974
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Apr 20 16:26:02 2010 +0300

xkb: check for NULL pointer before dereferences it in XkbWriteXKBSymbols
move srv assignment to before it's being used. Also, check for xkb being nil.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 471f350c99b2e7c5a9045eef5ebff65cd2ddb7c5
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Apr 19 20:34:30 2010 +0300

exa: don't need to check for NULL pointer if we already assumed it has a value
the alternative would be to check ps in the beginning of the function.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Michel Dänzer <michel@daenzer.net>

commit 96784f4feb6c2fb82f6d1abb28ea1e189e4e6f5
xkb: check for NULL pointer before dereferences it in XkbAddClientResource

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

Both dev and dev->button are already used before their checking were being performed. So check on the beginning.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

xfree86: check for NULL pointer before dereferences it in parser code

Seems to be harmless. Meh.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

Xi: fix not reached code in XSendExtensionEvent

Error was introduced in 31a7994a. I.e., broken since 2007. I guess nobody uses XSendExtensionEvent.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit f491b0aa5b86a5242fc4e04218202bbb52d0af39
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Apr 16 16:47:33 2010 +0300

xfree86: fix not reached code in parser

...because Error is a macro that returns NULL.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>

commit 099946a3ac94ff5e575e9edcecd26ecf9f346b241
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Apr 16 18:35:55 2010 +0300

mi: check for NULL pointer before dereferences it in miPointerGetPosition

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 49835ee0c996ad95a01f0fe340336b660e51aa
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Apr 16 17:50:43 2010 +0300

exa: check for NULL pointer before dereferences it

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>

commit 996c115deb558e8e9490ea773528b8e96650df53
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Thu Mar 25 18:17:54 2010 +0200

configure: remove unused builtin font macro from autoconf file

This should be removed together with 49b93df8.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Dan Nicholson <dnb.lists@gmail.com>

commit 0ba82562eeba8bf3bcd00b6e3ff28ce5b2e8df3c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Tue Mar 30 19:10:36 2010 +0300

Death to Multibuffer extension

The rationale behind is because no sane application will use this when we have modern APIs such DRI2. Besides, as a fact, xfree86 server has already
deprecated this extension in 1998:

http://www.xfree86.org/3.3.6/isc7.html

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 28b7b2b8d02d975480080865f0dddebcaaf27968
Author: Keith Packard <keithp@keithp.com>
Date: Mon Apr 19 09:26:10 2010 -0700

unifdef -B -DRENDER to always include RENDER code

This patch was created with:

git ls-files '*.[ch]' | while read f; do unifdef -B -DRENDER -o $f $f; done

Signed-off-by: Keith Packard <keithp@keithp.com>

commit b3ab978df861c08298f57529e3db980489055c35
Merge: a92b2c2c8d0ad022a729
Author: Keith Packard <keithp@keithp.com>
Date: Sun Apr 18 22:01:40 2010 -0700

Merge remote branch 'whot/for-keith'

commit 0ad022a729bafa56cc7b5d241567444a34514ad
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 14 10:54:29 2010 +1000

xkb: rename XkbFakeDeviceButton and XkbFakeDeviceMotion, move into xkbActions.c

The name XkbDDXFakeDeviceButton and XkbDDXFakeDeviceMotion is somewhat misleading, there's no DDX involved in the game at all anymore.

This removes XkbFakeDeviceMotion and XkbFakeDeviceButton from the API where it arguably shouldn't have been in the first place.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit da4e2e382828d7ba460766709368ec6214b286dd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 14 09:48:53 2010 +1000

xkb: purge unneeded includes from ddxDevBtn.c
GLX pbuffers are implemented using a pixmap allocated by the server. With the change to DRI2 to track DRI2 drawables as resources, we need to make sure that every drawable we create a DRI2 drawable for has an XID. By using the XID of the pbuffer, the resource system will automatically reclaim the hidden pixmap and the DRI2 drawable when the pbuffer is
destroyed or the client exits.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f006aa58f6cf7552a239e169ff6e7e4fda532f4
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Fri Apr 16 05:55:32 2010 -0400

glx: Track GLX 1.3 style GLX drawables under their X drawable ID as well

This ensures that the DrawableGone callback gets called as necessary when the X drawable goes away. Otherwise, using a GLX drawable (say, glXSwapBuffers) in indirect mode after the X drawable has been destroyed will crash the server.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f4106c02318fcc4b534224df5b95a58aff555fb4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 13 14:44:59 2010 +1000

xkb: use GPE for XKB fake motion events.

Section 4.6.1 of the XKB spec says that "the initial event always moves the cursor the distance specified in the action [...]", so skip the POINTER_ACCELERATE flag for GPE, it would cause double-acceleration.

Potential regression - GPE expects the coordinates to be either relative or both. XKB in theory allows for x to be relative and y to be absolute (or vice versa). Let's pretend that scenario has no users.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 6c42c8c356be305dc7f3f92ad8d58675da8c2f07
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 14 10:51:41 2010 +1000

xkb: Guard against SIGIO updates during PointerKeys.

In theory, an event coming in during GPE could reset our lastSlave, leading to rather interesting events lateron.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xkb: Post PointerKeys through the XTEST device.

Posting an event through a master device may cause pointer jumps once lastSlave == master, caused by double scaling. To avoid this, post the fake event generated by XKB through the XTEST device instead.

Fedora bug #560356 <https://bugzilla.redhat.com/560356>
Tested-by: Andrew McNabb

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

xf86ScaleAxis: support for high resolution devices

High resolution devices was generating integer overflow. For instance the wacom Cintiq 21UX has an axis value up to 87000. Thus the term (dSx * (Cx - Rxlow)) is greater than MAX_INT32.

Using 64bits integer avoids such problem.

Signed-off-by: Philippe Ribet <ribet@cena.fr>
Signed-off-by: Benjamin Tissoires <tissoire@cena.fr>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Merge remote branch 'whot/for-keith'

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
vfb: add a name and type to the pointer and keyboard

Fixes a crash in XIQueryDevice which calls strlen on a NULL pointer.

#0  strlen () at ../sysdeps/x86_64/strlen.S:31
#1  0x000000000004c16ed in SizeDeviceInfo (dev=0x969bd0)  
at ../../Xi/xiquerydevice.c:204
#2  0x000000000004c1a01 in ProcXIQueryDevice (client=0xa57510)  
at ../../Xi/xiquerydevice.c:98

Debian bug#575905 <http://bugs.debian.org/575905>

Reported-by: "Bernhard R. Link" <brlink@debian.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commith: Export AllocDevicePair GetPointerEvents, GetKeyboardEvents and generate_modkeymap functions from Xorg.

Those functions are used by TigerVNC libvnc.so module which doesn't use standard XInput infrastructure but uses same functions like, for example, XTest devices.

Signed-off-by: Adam Tkac <atkac@redhat.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commitsix: remove log-spamming bogus error message (#26843)

miSpriteRealizeCursor is called whenever a device is set floating and it's fine to do so, no need for an error message.
Same goes for the other miSprite messages.

X.Org Bug 26843 <http://bugs.freedesktop.org/show_bug.cgi?id=26843>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

committ: remove log-spamming bogus error message (#26843)

miSpriteRealizeCursor is called whenever a device is set floating and it's fine to do so, no need for an error message.
Same goes for the other miSprite messages.

X.Org Bug 26843 <http://bugs.freedesktop.org/show_bug.cgi?id=26843>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00b8b7ad61b6f818271fa4d1e383113170309d72
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
mi: don't thrash resources when displaying the software cursor across screens

This changes the DC layer to maintain a persistent set of GCs/pixmaps/pictures for each pScreen instead of failing to thrash between them when changing screens.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5f31e2196179f8db3170d65a17d8ad40da1acb0d
Author: Tim Yamin <plasm@roo.me.uk>
Date:   Mon Mar 8 12:45:15 2010 +1000

dix: fix cursor screen check for xinerama setups.

The de-duplication of CheckPhysLimits 942eae6868b8b0f343b6a added a condition that is invalid for a Xinerama setup. pScreen is invalid for the Xinerama case, so comparing it to anything is a bad idea.

Signed-off-by: Tim Yamin <plasm@roo.me.uk>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5b0faf355465c9f21ad96e0ed266fbdbc29efb5b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 15 10:55:53 2010 -0700

XQuartz GLX: Don't let garbage enter our pixel request

https://bugs.freedesktop.org/show_bug.cgi?id=27654

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit fe7778e58e099d353689755ed2f5a440569ebe3
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Apr 14 09:06:04 2010 -0700

XQuartz: Fix possible NULL dereference in ListenOnOpenFD

<rdar://problem/7862319>

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Marc Majka <majka@apple.com>

commit 206531f75cd41c034e89dfb75ab0910682eef8
XQuartz: Localization update

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 9ddbb03fa56aa73c3f417d8ee6433e45b94445b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Apr 14 17:43:22 2010 +1000

dix: Fix crash in DeliverGrabbedEvents.

If both devices are synchronously grabbed, first with a GrabPointer, then
with a GrabKeyboard (GrabModeSync on both), sync.other of each device points
to the grab of the respective other device.

If the keyboard is then thawed through a AllowSome request, the VCK's
sync.other is reset to NULL. Subsequently, an event on the VCP would crash
the server when dereferencing sync.other on the VCP.

The check's purpose is to compare if the other device is grabbed by the same
client, which should be checked by accessing (dev->deviceGrab->grab->resource).
A check of the server-1.3 sources confirms that.

XTS test case: Xlib13 XAllowEvents 20.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7b6517526631a65891b806bca30be8f49955d0a8
Author: Michel Dänzer <daenzer@vmware.com>
Date: Wed Apr 14 19:28:37 2010 +0200

EXA: Check sys_ptr isn't NULL before passing it to the UploadToScreen hook.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=27510.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fc5d76740851725e3788c68e14474a012a205892
Author: Julien Cristau <jeristau@debian.org>
Date: Tue Apr 6 11:51:53 2010 +0200

XGE: don't register an extension event
The GenericEvent is a core event, we never send an extension event, so don't reserve an id for one.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0b676acd47e0d6a675df374b42db200deab5d06
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Apr 13 11:45:41 2010 +0200

Bump version in configure.ac

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1760d2bef9f5b248cb2332f6ebf0220eb02bab42
Author: Kristian Høgsberg <krh@bitplanet.net>
Date:   Fri Apr 9 10:58:48 2010 -0400

glx: Set the pbuffer bit for dri2 fbconfigs

They've been implemented for a while, but we never advertised them. All we need to do is set the GLX_PBUFFER_BIT in the drawable type fbconfig field when we're using DRI2.

https://bugs.freedesktop.org/show_bug.cgi?id=26581

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ab60975fe28cb135b4183e57b7f50d3615921c1f
Merge: adbc66108 59edde7c28
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Apr 12 21:40:41 2010 -0700

Merge remote branch 'jeremyhu/master'

commit 59edde7c28db2d3174a5813a0af334e4ead2082f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 9 16:19:43 2010 -0700

XQuartz: Add a GUI preference for the Alt / Mode_switch toggle

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Kevin Van Vechten <kvv@apple.com>
commit 5600f7f001529b3afdee95546aec212a70d6a5b2
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 9 13:33:06 2010 -0700

XQuartz: Customize the NSDefaults id in the man file.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Kevin Van Vechten <kvv@apple.com>

commit 840d12c7a6ac6a974da185045215ce944a61fab6
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Fri Apr 9 13:29:34 2010 -0700

XQuartz: Add a defaults option to toggle Alt / Mode_switch

See option_sends_alt in Xquartz(1)

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Kevin Van Vechten <kvv@apple.com>

commit d6f160510a50d4c4ee48c9c69a5ddda0d50052c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Apr 5 16:54:22 2010 -0700

XQuartz: Blacklist some oddball legacy Mac keycodes that break wine

http://xquartz.macosforge.org/trac/ticket/295

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Reviewed-by: Kevin Van Vechten <kvv@apple.com>

commit adbbc661080ba4efdb764c154d40c4d2fe718e16
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Tue Feb 16 08:11:41 2010 -0800

xfree86: Fix priority ordering for ignoring input classes

Commit 8736d112afb0dd61d6aadd6378eafd200b2ef5f changed the priority ordering of the InputClass option merging to be "last match wins". This fixes the handling of Option "Ignore" to follow that logic.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d7c98c1c81ae272f66ed8b05fde20f4c616604add
Merge: 82c43a4ae0 03ccbd2579
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 7 22:25:51 2010 -0700
Merge remote branch 'whot/for-keith'

commit 03ccbd2579948d11e5f16f88cdf68a55f57c9d26
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 8 13:47:26 2010 +1000

  xfree86: remove dead input drivers from xorg.conf man page.

  These drivers have been deactivated for over a year now, let's not refer
  potential users to them.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d4dd3d0085f8eaca8e989aaeace1a1a24c5ebf49
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Sat Apr 3 09:33:51 2010 -0700

  Move 10-evdev.conf to system config dir $datadir/X11/xorg.conf.d

  Since the server searches in a vendor specific path now, we can install
  the evdev catchall there without disturbing local administration files.

  Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 95f01bdfee8241371675f0089170fa6b2908d815
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Sat Apr 3 10:08:25 2010 -0700

  xfree86: Search for a system xorg.conf.d

  In addition to the conf files found in /etc/X11 or $sysconfdir/X11 used
  for local administration, we also reserve a system directory for vendor
  and package usage. The simple search path is:

    /usr/share/X11/xorg.conf.d
    $datadir/X11/xorg.conf.d

  Files from these directories will have the lowest config priority. The
directory $datadir/X11/xorg.conf.d is exported from xorg-server.pc in
the variable "sysconfigdir". Packages should install their .conf files
to the directory specified by:

    `pkg-config --variable=sysconfigdir xorg-server`

  Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: Set a saner search path for xorg.conf.d

There's no reason to carry all the oddities from xorg.conf like appended hostname to the search path for xorg.conf.d. This changes it to something very simple:

```
/etc/X11/<cmdline>
$sysconfdir/X11/<cmdline>
/etc/X11/xorg.conf.d
$sysconfdir/X11/xorg.conf.d
```

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: Document how -configdir affects the xorg.conf.d search path

Explain the "safe" path dance for -configdir, too.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: Allow adding sysconfdir and datadir to config search paths

We could just use $projectroot/etc and $projectroot/share, but the user might have other plans for them.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

config: only match sane devices in 10-evdev.conf
Having a generic catchall also adds devices like accelerometers. These devices make X unusable, hence restrict matching to "known sane" devices like pointers, touchpads, keyboards, tablets and touchscreens.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Julien Cristau <jcristau@debian.org>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Acked-by: James Cloos <cloos@jhcloos.com>

commit 6b09f66d8c6ebcee70382b5cca1ba82b68f20afa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Apr 2 12:48:21 2010 -0700

Don't keep a pointer to a possibly freed cursor when changing screens, preventing a crash in xf86CursorEnableDisableFBAccess() trying to restore it.

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 82cf3a4ae0181191f7903d6f62ba9b7132adf7e
Author: Alan Coopersmith <alan.coopersmith@oracle.com>
Date: Tue Apr 6 15:52:18 2010 -0700

Convert x86emu fixed size int typedefs to use stdint types

Fixes x86emu builds when using non-gnu compilers now that u64 is required

Before this fix, the u64 type would not be defined, causing x86emu/sys.c to fail to build:
"sys.c", line 102: syntax error before or at: ldq_u
"sys.c", line 102: syntax error before or at: *

Since Keith requested using <stdint.h>, converted all the x86emu typedefs to use the stdint types.

Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
Acked-by: Matt Turner <mattst88@gmail.com>
Acked-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a9fe7cfa77ccee64d68732d3c3f37d35cbfc27a65
Author: Paulo Ricardo Zanoni <spzanoni@mandriva.com>
Date: Thu Mar 11 14:28:18 2010 -0300

dix: be more verbose when we run out of opcodes

If we run out of opcodes, nothing is print on the log, making the problem hard to debug. In the current Xserver, if you enable some
extensions like multibuffer (+2 events) and use nvidia binary driver (+5 events) you can run out of opcode numbers.

Signed-off-by: Paulo Ricardo Zanonii <spzanoni@mandriva.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6150595bdbacde13bb4f9aba81b15435089bee94
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Mon Apr 5 19:12:22 2010 -0400

doc: specify 1.6.1 as the minimum version for doxygen.

Older versions generate filenames that are different from the ones listed in the Makefile.

Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cbda58e963af5bb9c4643e9017dd4eeec589ceff3
Merge: a7698a6776 e983f40fe4
Author: Keith Packard <keithp@keithp.com>
Date: Wed Apr 7 15:51:38 2010 -0700

Merge remote branch 'yselkowitz/master'

commit a7698a677682a32960b885c22fdba2add70f4658
Merge: 495cecf794d 165a4a9c7d
Author: Keith Packard <keithp@keithp.com>
Date: Tue Apr 6 12:36:15 2010 -0700

Merge remote branch 'jbarnes/master'

commit c983f40fe4f30311f31a9df699cde888709251d0
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Feb 24 15:17:42 2010 -0600

Cygwin/X: Add configure option for WindowsWM

WindowsWM support is still experimental, and uses the Rootless extension which currently breaks the simultaneous build of the other DDXs (see commit b3415187e92960cbff784108b5a3a8d130dc34c5). So we disable it by default for now; once the latter issue is fixed we can make this 'auto'.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
commit 20701522be803fe47e921fcf059dadf64c7f287d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Thu Feb 18 14:19:21 2010 -0600

Don't enable ROOTLESS_WORKAROUND, it breaks composite

This possibly brings back whatever the bug is in
http://bugs.freedesktop.org/show_bug.cgi?id=1168 for
-rootless mode, but since we don't have reproduction
steps for that, I can't test that...

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Tested-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 95c9947f6244d37592958b70760bd1ac885b625a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Mar 24 00:08:23 2010 -0500

Cygwin/X: Disable unsupported extensions in configure

Several extensions are not supported by XWin, some of which are enabled
by default in configure. We forcefully disable these early on so that
configure will succeed without arguments and without the corresponding
proto installed.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 24c9d48cd6999f1e90f9f0e2bbf8d8e95d314d8
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Mon Mar 22 12:47:52 2010 -0500

Disable setuid configure test on Cygwin

Only Xorg is installed setuid, so there is no need to run this configure
test on Cygwin.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>

commit 495cec794dad95ed0c79048f3c410ad23e7d5ea4
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 2 00:14:23 2010 -0700

xserver 1.8.0

Signed-off-by: Keith Packard <keithp@keithp.com>

commit b9ad452ec92a7dcbed680acb3f3b8ec29fa660df
xfree86: die gracefully in the vga arbiter if AddScreen fails

vga arbiter will be locked in one device while AbortDDX will call LeaveVT routines from the other device. Fail!

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e75f202e7768b7cc0eb2ad0e0f3f51ea81cd7275
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 24 11:08:55 2010 +1000

configure: enable udev backend as "auto"

Due to the checks in configure, this means it gets priority over HAL if libudev is found.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 24952b786625ef808cb26d539dd5109d623c053
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Apr 1 23:44:24 2010 -0700

Install 10-evdev.conf in $(prefix)/etc/X11/xorg.conf.d under udev

udev needs some xorg.conf file to tell it to load a suitable input driver, 10-evdev.conf is as simple as they come, mapping all evdev devices to the evdev driver.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 02328f190f893cb4ad0f3a7a2ec39ed77ae5ad
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 1 18:21:51 2010 -0700

Bump bundle version to 2.5.1

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 0e342add7768df55a1917e27f9b85feddd444e82
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Apr 1 15:30:46 2010 -0700
darwin: Correct inline assembly for ___crashreporter_info___

It was missing an underscore.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 67b814d9b2baea6beccfb1625a1e3f0b2ba7218b
Author: Ruediger Oertel <ro@suse.de>
Date:   Mon Mar 29 00:23:40 2010 +0200

Remove now obsolete function chooseVideoDriver

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1dd5fbc5a4d860af1c102b33e04dedd8c72617a1
Author: Ruediger Oertel <ro@suse.de>
Date:   Fri Mar 26 09:33:20 2010 -0700

xfree86: Handle driver autoconfiguration when .conf files exist

When doing driver autoconfiguration with some parts of the config file present but no driver set (e.g. only input configuration) fix the case that we may have multiple drivers to try.

Create a screen section for each driver and let them be tried in a row.

Signed-off-by: Ruediger Oertel <ro@suse.de>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Timo Aaltonen <timo.aaltonen@aalto.fi>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 57cb1a854a1b6d91d214b3fa250a7df2ed20d433
Merge: 4b3d67a764 28a5f14b40
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 29 11:46:00 2010 -0700

Merge remote branch 'jeremyhu/master'

commit 4b3d67a7647f696957727948f9757a261e15d14e
Merge: 579715f830 aa91508356
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 29 11:44:07 2010 -0700

Merge remote branch 'whot/for-keith'

commit 165a4a9c7de0ffcc6ef6a6421736b412ccb35965e
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Tue Mar 23 09:47:08 2010 -0700
GLX/DRI2: expose swap control extensions if DDX support is present

Export DDX swap control status from the DRI2 module and check for it in GLX when initializing extensions.

Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 5933b0abc6a76aaea84aa534df89900cd795c888
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Mon Mar 8 15:10:47 2010 -0800

DRI2: prevent swap wakes from waking MSC waiters

If a few swaps were queued leading to a throttle related block on the client, and then the client submitted an MSC wait, one of the previous swap wakeups could have caused the MSC wait to complete early. Add a flag for this to prevent a swap wake from prematurely waking an MSC waiter.

Reported-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit b00d435ddf2e9817e33bdf5f7e9b905442dc23c7
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Mon Mar 8 12:41:25 2010 -0800

DRI2: handle swapsPending better

Avoid a potential swapsPending underflow by incrementing it before ScheduleSwap, which may complete it immediately. And be sure to decrement it again in case the schedule failed.

Reported-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 0294ff2a5caddc8fccc77ba9a851f979f0b91fc3
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Mon Mar 8 12:39:54 2010 -0800

DRI2: throttle swaps at submission time too

We need to throttle swaps here in addition to when the context is made current to avoid causing problems with clients that just swap. Throttling here also ensures our swaps get ordered as long as we block
the client occasionally.

Reported-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit db1c7cb604167baf49e61be4e09ccf7b592c4af3
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Mon Mar 8 12:38:37 2010 -0800

DRI2: advertise lowest supported DRI2 protocol version

Update our supported DRI2 protocol version as each driver does
DRI2ScreenInit, since depending on available kernel features, each DDX
may support different callbacks and therefore protocol.

Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 87ca6320f26eb3129e3c19056e1d8fa5c1784723
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Fri Mar 5 09:49:03 2010 -0800

DRI2: handle swap_interval of 0 correctly

A 0 swap interval means that swaps shouldn't be sync'd to vblank, so
just complete the swap immediately in that case.

Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 8476d99231cb725c090305d60f1c1c889d25c8dc
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Fri Mar 5 09:15:24 2010 -0800

DRI2: drawable lifetime fixes

Handle drawable destruction and lifetime correctly.

Check whether the drawable priv is valid in DRI2SwapInterval(),
DRI2WaitSBC() and DRI2WaitMSC(); it may have gone away, so be sure to
check it before using it.

If more than 1 outstanding swap is queued, we may complete several after
an app has exited. If we free it after the first one completes and the
refcount reaches 0, we'll crash the server on subsequent completions.
So delay freeing until all swaps complete and remove the error message
as this is a normal occurrence. To do this properly, we must also avoid
destroying drawables in DRI2DestroyDrawable() if a swap or wait event is pending.

And finally, make sure we free drawables in DRI2WaitMSCComplete() if necessary (i.e. if the refcount has reached 0 and this MSC was the last pending event on the object).

Reported-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit b180e43977710b56ccfd6780f204ddcc952987a1
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Thu Mar 4 10:31:59 2010 -0800

DRI2: fix swapbuffers handling of SBC and target MSC

Returns expected SBC after completion of swap to caller, as required by OML_sync_control spec, instead of the last_swap_target value.

Passes target_msc, divisor, remainder, correctly for glXSwapBuffersMscOML() call, while retaining old behaviour for simple glXSwapBuffers() call.

An OML swap can have a 0 target_msc, which just means it needs to satisfy the divisor/remainder equation. Pass this down to the driver as needed so we can support it.

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>

commit 751e8c09d34df4b41e8d8384a3ec1bf5cb8ca028
Author: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Date:   Sun Feb 21 05:26:00 2010 +0100

DRI2WaitSbc(): Fixes for correct semantic of glXWaitForSbcOML()

Added implementation for case target_sbc == 0. In that case, the function shall schedule a wait until all pending swaps for the drawable have completed.

Fix for non-blocking case. Old implementation returned random, uninitialized values for (ust,msc,sbc) if it returned immediately without scheduling a wait due to sbc >= target_sbc.

Now if function doesn't schedule a wait, but returns immediately, it returns the (ust,msc,sbc) of the most recently completed swap, i.e., the UST and MSC corresponding to the time when the returned
current SBC was reached.

Signed-off-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>

commit 0de4974b90b10fa6a447c6f980b4a114c6e9e5a8
Author: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Date:   Sun Feb 21 05:25:59 2010 +0100

DRI2: Fix glitches in DRI2SwapComplete() and DRI2WakeupClient()

DRI2SwapComplete(): Increment pPriv->swap_count++; before calling into callback for INTEL_swap_events extension, so the swap event contains the current SBC after swap completion instead of the previous one.

DRI2WakeupClient: Check for pPriv->target_sbc <= pPriv->swap_count, had wrong comparison pPriv->target_sbc >= pPriv->swap_count for unblocking of clients of DRI2WaitSBC().

Signed-off-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>

commit 4c8ec49826a46eb3b36c69d2ad3f82320c179c38
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Thu Mar 4 09:54:15 2010 -0800

DRI2: make target_sbc signed

We need to track invalid targets as well as 0 targets, so just make it signed so our comparisons work like they should.

Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Reported-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit c4d54816f2ee4883d8f9bcf4595474fb58c95146
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Thu Mar 4 09:19:13 2010 -0800

DRI2: fixup handling of last_swap_target

We need to initialize the swap target, which is passed to the driver to schedule events. Rather than using -1 to indicate that the field is uninitialized, just make sure we initialize it at drawable creation time.

Reviewed-by: Mario Kleiner <mario.kleiner@tuebingen.mpg.de>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35237

commit 28a5f14b4089dccb8045cc4fde923542a73dd22d
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sun Mar 28 13:46:23 2010 -0700

XQuartz: Re-query dixScreenOrigins as the value could've changed.

Fix a regression in 9c9c3a85b094a3c7b2763a572715d710325091aa

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit 436d0bb9cc122bdfde32902b683d2499f61e6fc
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Mar 27 17:35:10 2010 -0700

darwin: Generate crash reports on FatalError()

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit 73b3b67aac9f3938a96cb8822b9c270bd82ded5c
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Mar 22 09:30:51 2010 -0700

GLX: Remove a redundant initialization

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit 339207be6f184cc783076fc7e2cc12f92f57f2ba
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Mar 25 22:15:58 2010 -0700

XQuartz: Workaround weird key data reported on some layouts

This should make 'Unicode Hex Input' work as an input layout.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit aa91508356f243edc3b11795b1481edcfe039c2
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Wed Mar 24 23:18:35 2010 -0700

cfgi/udev: Prefer product name from attribute rather than uevent

The input device product name for evdev devices in the kernel uevent has
embedded quotes that aren't expected here. Use the sysfs name attribute
instead, which does not suffer this problem. The uevent name will be used as a fallback if no name attribute is found.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d00c3298a698dddc8967215cef7dd941fa15804
Author: Fernando Carrijo <fcarrijo@yahoo.com.br>
Date:   Wed Mar 24 20:11:34 2010 -0300

Cleanup some comments in SpriteRec

Signed-off-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 70bd02f2ea3a91c0340df97ca3b8a4f9400f6f46
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 23 12:13:56 2010 +1000

xfree86: merge driver from the input class into the options.

A driver that is assigned by an input class is only present as idev->driver. The driver itself has no access to this information once PreInit is called. For devices that rely on chain-hotplugging (wacom), this means that for the second device the driver information is lost and the second device cannot be initialized through NewInputDeviceRequest. Although this could be worked around by hardcoding the driver name in the wacom driver, having the assigned driver in the options seems like the better solution.

This issue only manifests itself with the udev backend. With HAL, the driver is assigned by HAL and the option is duplicated in config/hal.c.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 579715f830fbbca9e1eb17dc18176132f5969e7
Author: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Date:   Wed Mar 17 12:16:57 2010 +0200

os: Prevent backtrace from being stopped in noreturn functions.

There are two noreturn functions in the X server: FatalError and AbortServer. Having any of those two functions in the middle of a call stack will prevent unwinding the program properly and stops the backtrace at those functions in gdb.

The file containing FatalError and AbortServer, os/log.c, has to be compiled with the -mapcs-frame option on ARM to get proper
backtraces. Automake imposes its own restrictions on compiling individual source files with different options. The recommended way to do this is to put os/log.c into a convenience library and add this library inside os/libos.la. See the documentation of GNU Automake manual, version 1.11.1, section 27.8 Per-Object Flags Emulation, for details.

Signed-off-by: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e086b99c1f5ce351b578de7cd9f6f16bc79d6cf64
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Tue Mar 23 01:03:53 2010 +0600

kdrive: Bump evdev maxKeycode

There are keycodes > 193 in evdev, e.g. KEY_WIMAX which is 246.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Adam Jackson <ajax@nwnk.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 185185eeb44a277c324be0f58a4b4a469b56b69b
Author: Peter Harris <pharris@opentext.com>
Date: Tue Mar 23 12:08:19 2010 -0400

Fix crash when all glyphs of a given depth are freed, but not all glyphsets

This is how the crash can be triggered with only two clients on the system:
Client A: (already running)
Client B: Connect
Client B: CreateGlyphSet(depthN)
Client A: Disconnect
Server: free globalGlyphs(depthN)
Client B: AddGlyphs(depthN)
Server: SEGV

This crash was introduced with the FindGlyphsByHash function in 516b96387b0e57b524a37a96da22dbee041712. Before that revision, ResizeGlyphSet was always called before FindGlyphRef, which would re-create globalGlyphs(depthN) if necessary.

X.Org Bug 20718 <http://bugs.freedesktop.org/show_bug.cgi?id=20718>

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8311cd5f89ca67818422b24671b8122c9be148
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Mar 23 10:37:36 2010 -0700

  XKB: Fix garbage initialization

  XkbEnableDisableControls set extra garbage bits on the xkbControlsNotify
  changedControls mask because it was uninitialized on the stack.

  Found by clang

  Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0ecfab89d1754b0b7e32b3964b40663d1810cd62
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 22 14:04:09 2010 +1000

  xfree86: remove if 1 from the dawn of time.

  7+ years for an if 1 should be enough to just admit that there's no other
  option.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
  Reviewed-by: Corbin Simpson <MostAwesomeDude@gmail.com>

commit 6389405b56d2221d8a7b80c4bb3bd3b4e1a29bab
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 22 09:20:49 2010 +1000

  configure: Always define XINPUT.

  This define was removed in e251c9e75afdc "Remove all traces of #ifdef XINPUT
  and the matching bits from the configure.ac". Drivers that support multiple
  server versions and still check for ifdef XINPUT now always build without
  XINPUT support if they're calling XORG_DRIVER_CHECK_EXT(XINPUT, inputproto).

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
  Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 0c2fde5c8ad6f94b4ed1588aa93256a2b64f74d9
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Mon Mar 22 11:20:15 2010 -0700

  Fix typos in the swap functions
This should fix bug #3539.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3083c5d0c4386cdd7083b7a83ac72f2f1e61e
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Mar 22 18:01:17 2010 +0100

Xext: Fix cursor reference counting hazard.

Make sure the reference count of the new cursor is increased before the old one is decreased, otherwise bad things will happen if they're one and the same and the reference count is 1 initially. Not sure this can actually happen here, but better safe than sorry.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Roland Scheidegger <sroland@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b29220dc765cb6f878c5466e00e4bd21f3bd803d
Merge: c3da76643a ed31d50b5f
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 21 23:01:58 2010 -0700

Merge remote branch 'jeremyhu/master'

commit c3da76643aaebdd24047e3e14a860507eac37ec3
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 18 23:19:20 2010 -0500

Cygwin/X: Make X -> XWin symlink during install

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit abf4e0b7e349b0238b2b97a16b8a308b5026af31
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Mon Mar 22 00:44:28 2010 -0500

New header for XF86Bigfont server functions

Xext/xf86bigfont.c contains three non-static functions which are called elsewhere in the server. This creates a new header containing these declarations in order to fix several warnings:
xf86bigfont.c:285: warning: no previous prototype for `XF86BigfontFreeFontShm'

dixfonts.c:502: warning: implicit declaration of function `XF86BigfontFreeFontShm'
dixfonts.c:502: warning: nested extern declaration of `XF86BigfontFreeFontShm'

c:436: warning: implicit declaration of function `XF86BigfontCleanup'
c:436: warning: nested extern declaration of `XF86BigfontCleanup'

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 57a049ea89b008c0b60316c3b6e6ff5c8fbd4cad
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Mar 18 04:46:20 2010 -0500

Xext: fix old-style function definitions in xf86bigfont.c

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 822b9f9a3e822df8848995eda246f83864d1366f
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Sun Feb 21 01:24:44 2010 -0600

mi: remove deprecated #include <X11/extensions/xf86bigfstr.h> in miinitext.c

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 946b49ebcbf47e030a6e00ce1a699f3b055f638a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Mar 17 17:37:05 2010 -0500

Catch errors in recursive relink targets

If make relink fails in a subdirectory, we need to catch the error
otherwise make will continue iterating the 'for' loop.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 0820a6e2fb005bf856ddda25e1644f34fc994129
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Mar 17 13:40:41 2010 -0500

Fix .man.N targets for AM_SILENT_RULES

Add $(AM_V_GEN) for sed-based rules so they appear as expected with
automake silent rules, and $(AM_V_at) to completely hide cp/ln/rm
commands which are not prone to fail.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 9be4157391edf0c5fc4ee36adfb1eb1c3db8e3b
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Mar 17 13:33:39 2010 -0500

Respect value of SED from configure

We now use libtool, which calls AC_PROG_SED and sets SED as the path to a fully-functional 'sed' (which may also be called 'gsed' if GNU sed is installed alongside a proprietary version). Therefore we should respect the value of SED so we are sure to use the correct one.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 5e00f464c546debf9164f24c6d648623f7ee5946
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Mar 17 14:56:24 2010 -0500

Fix relink targets for silent rules

Add $(AM_V_at) to all relink make targets to silence them when automake silent rules are in use.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit fa7e062962d17862032bc600b6cf4d486addb063
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Wed Mar 17 13:52:38 2010 -0500

Use EXEEXT in relink rules for portable DDXs

On Cygwin and MinGW, executables use the .exe suffix. Autoconf and automake set EXEEXT on these platforms, and leave it empty on others where no suffix is used. $(EXEEXT) must be appended to executable names in custom rules for portability:


Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
commit 037869d7b876f43158dff88d63788b93a5d6187c1
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Mar 17 13:48:49 2010 -0500

kdrive: Use S(MAKE) in relink rules

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>

commit 8e5de45513577c63a33833931f2af00cc59d42a7
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Feb 24 02:56:59 2010 -0600

Use libtool -export-dynamic flag for portability

The linker flag required for exporting symbols in executables varies
by platform. libtool handles this with a single -export-dynamic
flag (not to be confused with the similarly-named ELF linker flag)
which tells it to use the correct platform-specific flag at link time.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2a11ffa977d226d8b2f27b76490a98e9c73b8c7
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Fri Feb 19 14:31:28 2010 -0600

Rename xdmx client to dmxinfo

The DMX Xdmx server and xdmx client cannot both be installed on
case-insensitive file systems. The client is undocumented and
so renaming it is the best option.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit fbb4903eaa23174d21ab8c640d9de1fe3eb17539
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Sun Feb 21 02:08:08 2010 -0600

Cygwin/X: Fix windres rule for automake silent rules
Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Rémi Cardona <rem@gentoo.org>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8db894690988f2bac9c0acb96fd39811d2b42f47
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Fri Feb 19 00:05:28 2010 -0600

Cygwin/X: Fix make dist after 11252ed82e1f361b99e86521ac9314f868bd1a3a

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Acked-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ed31d50b5f7f25e4db986711699704e615b8afcb
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Mar 19 17:24:27 2010 -0700

XQuartz: Constrain the pointer to the updated display bounds on display reconfigure.

http://xquartz.macosforge.org/trac/ticket/346

commit 927480be12ff61deb4e8120d2f90dde73a1a6beb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Mar 20 11:03:28 2010 -0700

XQuartz: pbproxy: Make standalone xpbproxy respect the launchd prefix

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit d16bc8a3cdebe0e8b9cb8a7c7aa2ff7c0458049e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Mar 20 03:28:57 2010 -0700

XQuartz: xpbproxy: Cleanup xpbproxy threading

Confine xpbproxy to a single thread
Runs inside its own CFRunLoop

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 9c9c3a85b094a3c7b2763a572715d710325091aa
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Fri Mar 19 17:23:12 2010 -0700

XQuartz: Minor cleanup

Move RandRInit to where it will need to be (not yet implemented)
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit bb75d0df8b5238bfe8b011bb5737fae2a3584290
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Mar 19 15:26:50 2010 -0700

XQuartz: GLX: Fix Availability for Tiger ppc workaround

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit eac7cdabcaf7c505795207182ab2578d672c06
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Tue Mar 16 11:29:08 2010 -0700

Revert "XQuartz: Explicitly pass a bellProc to make XBell() work again."

I'm not quite sure why this was necessary, but DDXRingBell is being called
from CoreKeyboardBell, so we don't need a separate bellProc which would
result in multiple rings.

This reverts commit 9071b0d69748cfa7ecca17b4cb0e431bbb0ef2a4.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 13c007f9224ad871193e40466e64df1477ed26b0
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 21 17:23:46 2010 -0700

Bump to 1.7.99.902 -- 1.8 RC2

commit 235fa5030428084368e5be57fca695647b7b79c4
Merge: 1c612acca8 fa5103a02b
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 21 15:38:40 2010 -0700

Merge commit 'fa5103a02bd509e4a102afdad2ab26cb22210367'

commit 1c612acca8568fcd9761d23f112ada4d496f1b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 17 14:32:38 2010 +1000

dix: if owner-events is true for passive grabs, add the window mask (#25400)

A client requesting a GrabModeSync button grab, owner-events true, with only
the ButtonRelease mask set would never receive the press event even if the
grab window had the ButtonPress mask set.
The protocol requires that if owner-events is true, then the delivery mask is the combination of the grab mask + the window event mask.

X.Org Bug 25400 <http://bugs.freedesktop.org/show_bug.cgi?id=25400>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Jim Ramsay <i.am@jimramsay.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 95ca39b981624df5338a16b506289014c431ae82
Merge: e7ff956638 bf181915e1
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 21 15:24:06 2010 -0700

    Merge remote branch 'jturney/master'

commit e7ff956638780dc1c6f160a1fd041b92cebff9ac
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:   Mon Mar 15 23:46:36 2010 +0200

    common: xf86Configure: alloc_strlen: Allocated memory does not have space for the terminating NUL of the string

    buffer_alloc: Called allocating function "reallocate" which allocated memory dictated by parameter "len + strlen(displaySize_string)"
    alloc_strlen: Allocated memory does not have space for the terminating NUL of the string
    var_assign: Assigned "ptr->mon_comment" to storage allocated by "realloc(ptr->mon_comment, len + strlen(displaySize_string))"

    Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
    Reviewed-by: Matt Turner <mattst88@gmail.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit aea6637b52b042cf8b07c6943abced5d31968d49
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:   Mon Mar 15 23:46:34 2010 +0200

    fb: fbFinishScreenInit: leaked_storage: Variable "(visuals|depths)" goes out of scope

    Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
    Reviewed-by: Matt Turner <mattst88@gmail.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit d9ee31ab05efbd2d598cc93a41a8834f84d30803
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:   Mon Mar 15 23:46:33 2010 +0200

    exa: exaFinishAccess: Overrun of static array "pExaScr->access" of size 6 at position 6 with index variable "i"
Cygwin/X: Allow the default log location to be configurable

Allow the default log location to be configurable (e.g. /var/log), and use separate logs for each display instance (e.g. XWin.0.log).

Make the type of g_pszLogFile const char*, per os/log.c:LogInit().

Xming: Warning fixes

Fix warnings due to prototypes not specifying function arguments
Fix warning with RegQueryValueEx()
Tidy up an include

Xming: Dead code removal

Remove some dead code, mostly code made obsolete by mandatory XKB

Cygwin/X: Tidy up some cosmetic issues in log strings
Tidy up some cosmetic issues in log strings:
- Add missing 'n'
- Fix some strings starting with 'n'
- Remove 'f' from some log strings

These all just look daft in a log with timestamps.

Also clarify log message about screen origin coordinates

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 178e830378c3514b9e53a5b1c6d2d5f930c3779b
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Feb 22 19:13:30 2010 +0000

Cygwin/X: Fix thinko in mount option checking

Fix a thinko in mount option checking.
Use symbolic names for values assigned to binary flag for clarity.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit fa5103a02bd509e4a102afdad2ab26cb22210367
Author: Francisco Jerez <currojerez@riseup.net>
Date:   Wed Feb 24 23:18:01 2010 +0100

dri2: No need to blit from front on DRI2GetBuffers if they're just being reused.

It can be quite an expensive operation, so we're better off not doing
it unless it's totally required.

Signed-off-by: Francisco Jerez <currojerez@riseup.net>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit c38e01081af42825bb7b44d18aa35845318f8556
Author: Francisco Jerez <currojerez@riseup.net>
Date:   Wed Feb 24 23:18:00 2010 +0100

Import linked list helpers from the intel DDX.

Borrowed from i830.h, except for list_for_each_entry().

Signed-off-by: Francisco Jerez <currojerez@riseup.net>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Add a ConfigNotify hook.

Executed from the ConfigureWindow request, right before sending ConfigNotify to the clients.

This commit breaks the ScreenRec ABI.

Signed-off-by: Francisco Jerez <currojerez@riseup.net>
Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>

commit 67a8c659f25218904bae64ac6e98e326c90330b
Author: Roland Scheidegger <sroland@vmware.com>
Date: Fri Mar 12 16:53:30 2010 +0100

hw/xfree86: move reference counting out of the UseHWCursor[ARGB] functions

The problem is that the xf86_use_hw_cursor(_argb) functions may get this correctly now, some drivers will replace these generic versions with their own functions. It is pretty insane to expect them to do reference counting of the cursor (as an example, look at driver/xf86-video-vmware to see how that looks like as a workaround). There are even places in xserver itself which replace these two functions.

The segfaults if no reference counting is done are caused because the reference count of the cursor reached zero, hence the cursor was freed, however xf86CursorEnableDisableFBAccess() brought it back to life from the dead (from the SavedCursor).

This patch hence adds reference counting in xf86CursorSetCursor. As per Michel Daenzer's suggestion, also free the cursor upon xf86CursorCloseScreen.

In theory with this it should be possible to remove the reference counting in the UseHWCursor functions I think, though it should also be safe to keep them.

Signed-off-by: Roland Scheidegger <sroland@vmware.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 75efb46a14fe45ffe73faff637b1fa6d017e1e52
Author: Roland Scheidegger <sroland@vmware.com>
Date: Fri Mar 12 16:52:56 2010 +0100

hw/xfree86: fix refcounting in xf86_use_hw_cursor
This is the same fix as was done in
fdcc1d78caa3b8bb6b77d53eda7e21d649df6943 for xf86_use_hw_cursor_argb.

Signed-off-by: Roland Scheidegger <sroland@vmware.com>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit df9b6f16b27398545cd4cffe8a56dd59a3813351d
Merge: 5f169f5493 5172253b0e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 15 08:26:58 2010 -0700

    Merge remote branch 'jeremyhu/master'

commit 5f169f54936c9868ad0f3778cb95c1f35eef41ea
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Mar 5 10:35:54 2010 -0500

    XQuartz: remove undefined XSERVER_CFLAGS variable

    This is a variable local to configure.ac which is not AC_SUBST()
    It is undefined in any generated Makefile.

    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5172253b0e3b9867118e6717434e73c173acd5e9
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Feb 10 15:52:14 2010 -0800

    XQuartz: Use an empty xkb keymap by default

    Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b117bc7a441bec8f61610fb384d747112f73d236
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Thu Mar 11 00:06:01 2010 -0800

    XQuartz: Include os.h for OsAbort()

    Fixes regression from 5b9a52be7e975e59e0bfc6b43539ecafff96b2ecd

    Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit b7a16117c6d87a9d33a5f682b592b4507f2c065e
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date: Thu Mar 11 00:03:08 2010 -0800

XQuartz: GLX: Fix prototype for swapBuffers

This was a regression introduced by 04a54f69a8085ab3fe11a8713bd8b6b16ed1db27

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 178da6534fe7ab4b99fb87925c04e6f963c88583
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Mar 8 16:33:37 2010 -0500

Xext: Link to external libraries when necessary.

Although the DDX should be linked to the necessary libraries, we may also need to pull them in directly to the module to ensure the symbols are resolved at runtime. Should fix this bug with XSELINUX:

/usr/bin/X: symbol lookup error:
/usr/lib64/xorg/modules/extensions/libextmod.so: undefined symbol: is_selinux_enabled

-v2: use _LIBADD instead of _LIBS; remove SELINUX_LIBS from XSERVER_SYS_LIBS as it should only be needed in extmod.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a2ea8c2f2cc53607d57d60f41c879380ea70cd02
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Mar 11 14:19:04 2010 +0200

Record: Avoid duplicates from replaying frozen events

Reintroduce a check which used to be there in the old ProcessKeyboardEvent/ProcessPointerEvent codepath, which avoids us recording events subject to a grab twice: once when it's first processed in EnqueueEvent, and then again when it's thawed and being replayed.

This required a tiny amount of code motion to expose syncEvents.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f2eacb4646beb25d055de22868f93e6b24f229b6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Revert "dix: Use DeliverGrabbedEvent for implicit passive grabs (#25400)"

Several users have pointed out that this commit introduces regressions, most notably perhaps fluxbox which essentially stops working after a few clicks.

This reverts commit cf72b5437d2d620521279077a29c5df6d0fbb576.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d9f3273041c6c3e0da2d2254e8c156cd582e296
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 10 09:24:32 2010 +1000

xfree86: fix xf86Config.c build error in --enable-debug mode. (#26971)

xf86Config.c: In function 'configInputDevices':
xf86Config.c:1514: error: request for member 'lay_identifier' in something not a structure or union
make[5]: *** [xf86Config.lo] Error 1

Introduced with e1165632bdfbd720889ed1ad5f7ab338032c0ee.

X.Org Bug 26971 <http://bugs.freedesktop.org/show_bug.cgi?id=26971>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>

commit 116068103282924ef1476231d13d54719a797252
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 9 09:35:23 2010 +1000

xfree86: don't warn about nonexisting core pointer/keyboard in config.

In the vast majority of cases there is no xorg.conf that specifies a core pointer/keyboard. Skip this warning, since we'll get another notification about how the server relies on the config backend for input devices anyway.

Leave the warning in for the error case (AEI off).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit c39c8ece9bd3ce025549f4bac7794f5a62266f4a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 10 15:06:52 2010 +1000
os: remove INTERNAL_MALLOC define.

There doesn't seem to be anything that defines it and given that the counterpart (the X internal malloc) was removed in 01cfba75229f4b9bf1e4fe80814931acdacde14c it's unlikely to work anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9f462ff9082634719e64d2d8d4dbd09ec7deaf2e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 26 14:02:09 2010 +1000

dix: Clip only into axis ranges if we're in absolute mode. (#26543)

An absolute device in relative mode may provide valuators outside of the axis range. Clipping back into the range prevents screen crossings in a multi-screen (Xinerama) setup as the required screen edge for crossing is never met: miPointerSetPosition crosses the screen conditional to the X coordinate being equal to the screen width or _less than_ 0. While the former can be met when clipping into the coordinate range and scaling, the latter cannot, resulting in a mouse pointer that gets stuck on the rightmost screen.

This patch only applies axis clipping for valuators in mode Absolute. If relative, we allow the values to get above/below the axis ranges. Doesn't matter, miPointerSetPosition will reset the values to the allowed range even if no screen was crossed.
This leads to interesting values provided to clients, the valuator range of the device resets once a screen is crossed and essentially reflects the position of the cursor on the screen - scaled into the valuator range.
The values themselves are valid given the range though.

In theory, the XI1 specs require that a relative device has a min/max range of 0/0. This doesn't really go well with devices that actually can switch mode between relative and absolute since they would have to reset their axis range when switching. If multiple XI clients are in use, we have no method of notifying them about the changes, so other clients may continue to use the wrong axis ranges (note: XI1 wasn't really designed to have multiple clients use a device). Expecting all relative devices to have this min/max of 0 is unrealistic at this point.

So pick what is possibly the lesser of all evils, pass the beer and despair.

X.Org Bug 26543 <http://bugs.freedesktop.org/show_bug.cgi?id=26543>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
commit 1f0e69b3a13258b79bffdec76b46f7960eb334b3  
Author: Matt Turner <mattst88@gmail.com>  
Date:   Mon Mar 8 10:54:21 2010 -0500  

Don't check for Xinerama.

It doesn't seem to be used anywhere, so don't require it.

CC: Jerome Glisse <jglisse@redhat.com>  
CC: Alex Deucher <alexdeucher@gmail.com>  
CC: Dave Airlie <airlied@redhat.com>  
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit bbae92795c7eab062e6722c42fa7915e0cee5d69  
Author: Matt Turner <mattst88@gmail.com>  
Date:   Mon Feb 15 20:08:09 2010 -0500  

Replace assembly with generic unaligned access code

Removes Alpha assembly, and probably works around unaligned accesses on other sensitive platforms.

Signed-off-by: Matt Turner <mattst88@gmail.com>  
Acked-by: Adam Jackson <ajax@redhat.com>  
Compiled-by: Tiago Vignatti <tiago.vignatti@nokia.com>  
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1c2abec479cfbae9aeadc121af0825d368317658  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Fri Feb 26 11:44:17 2010 +1000  

configure: move SELINUX_LIBS to XSERVER_SYS_LIBS

All ddxs require linking against selinux if enabled.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>  
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cab99b947c66a42dbf8a906bdb02e23aa7cab519  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Fri Feb 26 11:41:38 2010 +1000  

configure: move libselinux requirement up to the common section.

Let's have all version-specific requirements in one block.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9e7b6c565f6e69f20002bf03ed05fe8b63f86924
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 26 10:14:00 2010 +1000
dmx: fix OsAbort()-related build error in examples/xinput.c

5b9a52be7e975e59e68bc6b43539ecaff96b2ecd changed the server to use OsAbort()
instead of abort(). xinput in dmx is a client program though and fails to
link if it tries to use OsAbort(). Switch it back to using abort().

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit cf72b5437d2d620521279077a29c5df6d0fbb576
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 25 12:49:21 2010 +1000
dix: Use DeliverGrabbedEvent for implicit passive grabs (#25400)

A client requesting a GrabModeSync button grab, owner-events true, with only
the ButtonRelease mask set would never receive the press event even if the
grab window had the ButtonPress mask set.

The protocol requires that if owner-events is true, then the delivery mask
is the combination of the grab mask + the window event mask.

DeliverGrabbedEvents does this already for us, checking first the delivery
based on owner_events and then based on the grab mask. AFAICT, the device
cannot enter the states FREEZE_BOTH_NEXT_EVENT or FREEZE_NEXT_EVENT that
would be handled by DGE in any possible path here.

Bonus point - CheckPassiveGrabsOnWindows suddenly becomes a lot less
complicated.

X.Org Bug 25400 <http://bugs.freedesktop.org/show_bug.cgi?id=25400>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
Allow for missing or disabled compat_output

When the compat output is missing (I don't think this is actually possible), or is disabled (and hence has no crtc), we would like to avoid dereferencing NULL pointers. This patch creates inline functions to extract the current compat output, crtc or associated RandR crtc structure, carefully checking for NULL pointers everywhere.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Share enum definition for det_monrec_parameter sync_source

There were two separate enum definitions, one inside det_monrec_parameter struct and one for a local variable (which was then stored inside the struct). Sharing a single definition makes the code more obviously correct while making the compiler happier.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

DRI2: initialize event->drawable in DRI2SwapEvent

We weren't initialising the drawable in the event structure so the client side DRI2WireToEvent used for translating the event into a GLX event wouldn't be able to lookup up the corresponding GLXDrawable before passing the event on.

Signed-off-by: Robert Bragg <robert@linux.intel.com>
Reviewed-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
Date: Wed Feb 24 09:59:19 2010 -0800

Merge remote branch 'whot/for-keith'

commit 018b177591c9f6ade0bd065e31858cc6e054d33eff
Author: Kristian Høgsberg <krh@bitplanet.net>
Date: Wed Feb 24 10:37:26 2010 -0500

glx: Compile fix to let server compile with new and old mesa

We broke the __DRI2_FLUSH API since it was never released, but since it's taking a little longer than expected to get the X server side of the changes ready, fix things up so it compiles.

Signed-off-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 758f6971750ed507e64ee817d720a77181439f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 15 16:32:16 2010 +1000
dix: try to ring the bell even if the current device doesn't have one. (#24503)

Evdev devices do not have the bell proc set, but XTEST devices do. By exiting early, the bell only rings if the last keyboard used was the XTEST keyboard and hence the bell proc is still set on the master but not if an evdev keyboard was used last.

The better approach here is to try to ring the bell on all devices attached to this master device in case one or more actually do produce an audible sound. That's also XKB's behaviour if XkbUseCoreKbd is specified as device identifier.

X.Org Bug 24503 <http://bugs.freedesktop.org/show_bug.cgi?id=24503>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>

commit c0d941913199ed251fceab62fc65437f6f9bd31
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 18 16:00:15 2010 +1000
dix: remove now-erroneous comment about frozen slave devices.

A direct grab on a slave device through XI2 detaches it, regardless of whether the grab is sync or async. So this comment doesn't apply to XI2 anyway.
For XI1, aside from your life being miserable already, it doesn't matter as XI1 does not have a concept of attachment. You can freeze a device and if you don't freeze _all_ other devices at the same time, the master device can still happily send events to the client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Adam Jackson <ajax@redhat.com>

commit db4f676f25c6d8e58263d5151942be730592d444
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Feb 3 15:40:47 2010 -0500

xselinux: Bump extension minor version.

Changes introduced in this version:
   - 3 window-related requests now handle pixmaps also.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit a6cbcf6e782e65f3d414202ed0b7a8f65b33c9d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Feb 3 15:38:57 2010 -0500

xselinux: Rename window-related requests that now support pixmaps.

Renamed requests:
   SetWindowCreateContext -> SetDrawableCreateContext
   GetWindowCreateContext -> GetDrawableCreateContext
   GetWindowContext -> GetDrawableContext

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ab68c707fd02613d9359120ba6402639dd8b89e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Feb 3 15:08:40 2010 -0500

xselinux: Allow GetWindowContext to be used for pixmaps as well.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit eb9210097eefa81065c301e5b6b4da7a566deb4a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Jan 6 12:52:51 2010 -0500
xselinux: Remove reference counting calls for SID objects.

Starting with libselinux 2.0.86, SID objects are no longer reference counted and the sidput() and sidget() calls are no-ops.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0c4b75a08922416050bb73d2e279ce938d3823e7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 21 21:59:01 2009 -0400

Don't print a failure message when XACE denies an input event delivery.

A denial is normal and the behavior should be to drop the event. Having the log message creates excessive log spam.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit e687e11b1248494a45b9a4e4321675526808703
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 21 21:46:50 2009 -0400

Revert "Remove some debug messages that trigger on XACE event delivery failure."

The log messages still need to be there for non-XACE failures.

This reverts commit 4be354c4c2da5168b302601b91bd80efaca7e193.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 2ecb917d86117f212d7845741a3e155553954a85
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 21 19:28:26 2009 -0400

libselinux now has a pkgconfig file. Use it.

Also remove HAVE_NETLINK_AVC_ACQUIRE_FD tests, because we now require a version of libselinux that has it.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 9fc6b59d46382e949526dc10c3f5bfddbe2acb92
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 15 17:32:21 2009 -0400
xselinux: Allow SetWindowCreateContext to be used for pixmaps as well.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 93ff1bc5884cdfca1132af7fbc06c48e06f218c8
Author: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Date:   Mon Feb 15 14:18:00 2010 +0200

Always enable outputs that have been forced on in the configuration file
If the user has gone to the effort of manually enabling an output in the configuration file assume that they know what they're doing.

X.org Bug 14611 <http://bugs.freedesktop.org/show_bug.cgi?id=14611>

Signed-off-by: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Reviewed-by: Alex Deucher <alexdeucher@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ca9c2472d74c7107ccc117e2c9c723c168d2eccf
Merge: e40ba5798c02d1116e7e
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 22 13:26:06 2010 -0800

   Merge remote branch 'whot/for-keith'

commit e40ba5798c367beec584f6437b23d2c5f801fd013
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 18 15:49:09 2010 +1000

   Xi: assume BadMode for non-BadMatch errors returned from SetDeviceMode.

   The XI protocol spec only allows for two errors on the SetDeviceMode requests: BadMatch or BadMode. BadMode however is a dynamically assigned extension error and the driver doesn’t have access to the actual error number. Hence, if a SetDeviceMode driver returns an error other than BadMatch, assume BadMode.

   The two exceptions are BadAlloc and BadImplementations, pass these on to the client (any request is allowed to return either of those).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 02d1116e7eb84068fa32477f1640d29b0a81b638
Xi: assume BadMode for non-BadMatch errors returned from SetDeviceMode.

The XI protocol spec only allows for two errors on the SetDeviceMode requests: BadMatch or BadMode. BadMode however is a dynamically assigned extension error and the driver doesn't have access to the actual error number. Hence, if a SetDeviceMode driver returns an error other than BadMatch, assume BadMode.

The two exceptions are BadAlloc and BadImplementations, pass these on to the client (any request is allowed to return either of those).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 122fc0e7a0712df4ec2bd9ca6773f90bcd2095cf
Author: Chris Dekter <cdekter@gmail.com>
Date:   Thu Feb 11 16:34:09 2010 +1000

Re-enable RECORD extension.

RECORD was disabled during the switch to internal events. This patch modifies the record callback to work with internal events instead of xEvents. The InternalEvents are converted to core/Xi events as needed.

Since record is a loadable extension, the EventTo* calls must be externed.

Signed-off-by: Chris Dekter <cdekter@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 03ef00ae79687046dc9f9987857062a16ff2c2e0
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Wed Feb 17 11:40:44 2010 +0100

EXA/mixed: Clean up exaPrepareAccessReg_mixed() a little.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9623daad7c864d46b0dfcb6e689820b96cc8115
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Feb 17 11:40:43 2010 +0100
Exa/Mixed: Fix Gnome-Panel Corruption

A mapped pixmap can't be used for acceleration, any decent memory manager will refuse this.
Source pixmaps migrated with a bounding region are incomplete (from the GPU point of view), so do the upload unconditionally, instead of just for deferred destination pixmaps.
Fixes fdo bug #26076.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acknowledged by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Commit 5b9a52be7e975e59e0bb6b43539ecaf96b2ecd
Author: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Date: Thu Jan 28 11:08:34 2010 +0200

Os: Prevent core dump from being truncated.

The problem fixed by this patch can be reproduced on Linux with the following steps.
- Access NULL pointer intentionally in ProcessOtherEvent on key press.
- Instead of saving core dump to a file, write it into a pipe.
  `echo "/usr/sbin/my-core-dumper" > /proc/sys/kernel/core_pattern`
- Dump the core by pressing a key.

While the core is being dumped into the pipe, the smart schedule timer will cause a pending SIGALRM. Linux kernel stops writing data to the pipe when there are pending signals. This causes the core dump to be truncated. On my system I'm expecting a 6 MB dump but the size will be 60 KB instead. The problem is solved if we block the SIGALRM caused by expired smart schedule timer.

I haven't been able to reproduce this problem in the following cases.
- Save core dump to a file instead of a pipe.
- Kill -SEGV `pidof Xorg`
- Press a key to dump core while gdb is attached to Xorg.
- Give option -dumbSched to Xorg.

Also note that the fix works only when NoTrapSignals has the default value FALSE. The problem can still be reproduced if error signals aren't trapped. In addition to pending SIGALRM, there is a similar problem with pending SIGIO from the keyboard driver during core dump.

Signed-off-by: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit ca364ca82a760d8e5347a6f9f79636c9a5e4e03f
Author: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Date: Thu Jan 28 11:08:33 2010 +0200

os: Introduce OsAbort for proper core dumps.

Signed-off-by: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 031f92bf9ab15226df410012a0d1c9c390efc36d
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Wed Feb 3 10:05:20 2010 +0200

parser: corrected xf86getBoolValue to use case insensitive compare

commit c6e8637e29e0ca11dfb35c02da7ca6002ac8c597 introduced this regression; it can cause existing config files to be parsed incorrectly.

Acked-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Oliver McFadden <oliver.mcfadden@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit be96fb2f02c13a6ee8aba40f7d4c3f9141f06cea
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Feb 15 17:42:11 2010 -0800

Solaris xf86OSRingBell() off-by-one error in filling iov[] array

When generating sound buffers for /dev/audio bells, insert waveform for beep *or* silence, but not both, so we don't write one entry past the end of the iov buffer when the final bit of soundwave ends up in the final entry allocated in the iov array.

Fixes OpenSolaris bug 6894890:

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2d40f22d1ec970a84b23aa42b1feca4feede4bb
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Feb 15 20:05:24 2010 -0500

Use C-style comments in x86emu
Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4e8bf12b13690afa6d9fee0e339d3819ef16fb3f
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Feb 15 16:46:21 2010 -0800

XQuartz: Fix a possible buffer overrun in quartzAudio

Also dropped deprecated API while there

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 4127e8e5be5c366eb752bb8d7f0f5b519e641b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Feb 10 17:56:30 2010 -0800

XQuartz: clang static analysis fixes

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit c686c5cbdc5f35744407af5f9aabbd18cc17714b
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Mon Feb 15 15:03:01 2010 -0800

XQuartz: Fix linking (CloseInput())

Fixes regression from d33adcdf03c69407d151e732fa0cf9947151eb19

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 84905007702da2c05a4f7446b3fc5ff52be49655
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Mon Jan 4 15:00:49 2010 -0500

udev: Don't filter subsystem "input"

This allows serial wacom devices to work, whose subsystem is "tty".

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8736d112afb0dd61dfdaadd6378eafd200b2ef5f
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Sat Feb 13 10:40:40 2010 -0800
xfree86: Reorder InputClass option priorities

Currently the config and InputClasses are merged together so that the options from the config backend have the highest priority. This is bad since it means options such as a default XKB layout set by the backend cannot be changed by the user.

This patch changes order of precedence to be:

1. xorg.conf
2. xorg.conf.d (later files have higher priority)
3. config backend

In order to allow this ordering, the config parsing has been changed to read the xorg.conf.d files before xorg.conf. This has the consequence that the core device picking which looks for the first InputDevice may not find it in xorg.conf.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 48f7298657f91843db36566b8d66d6c4c18dbd4c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 13 15:03:45 2010 +1000

Xi: reset the sli pointers after copying device classes. (#25640)

If the indicator flags have the XkbSLI_IsDefault bit set, the indicator map and names aren't their own bit of memory but rather point into the device->key->xkbInfo->desc structure. XkbCopySrvLedInfo knows about this and leaves the pointers alone.

When copying the classes from the slave to the master, these pointers are copied and still point to the dev->key class of the slave device. If the slave device is removed, the memory becomes invalid and a call to modify this data (e.g. XkbSetIndicators) may cause a deadlock.

The copying of dev->key relies on dev->kbdfeed to be already set up. Hence the pointers need to be reset once _both_ kbdfeed and key have been copied into the master device.

X.Org Bug 25640 <http://bugs.freedesktop.org/show_bug.cgi?id=25640>
Fedora Bug 540584 <https://bugzilla.redhat.com/show_bug.cgi?id=540584>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
commit d33adcf03c69407c151e732fa0cf9947151eb19
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 15 15:22:02 2010 +1000

dix: move config_init into the DDX.

The only DDX currently using hotplugging is the xfree86 one and it looks
like it'll stay that way for a bit. Move the initialization to the DDX,
since Xephyr, Xnest, and friends don't need HAL or udev notifications.

Add CloseInput (counterpart to InitInput) to be able to clean up the config
initialization from the DDX as well.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 001ce71dc11287dc94cc2fbc5d35677c046e6c04
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Feb 12 23:34:57 2010 +0100

dix: restore lastDeviceEventTime update in dixSaveScreens

This was removed in 6b5978dcef1f7ac3ecc2f222df06f7000f360e2066 (Do not
reset lastDeviceEventTime when we do dixSaveScreens), but caused a
regression for XResetScreenSaver. Add the lastDeviceEventTime update
back, but restrict it to that case.

X.Org bug#25855 <http://bugs.freedesktop.org/25855>
Reported-by: Lubos Lunak <l.lunak@suse.cz>
Tested-by: Lubos Lunak <l.lunak@suse.cz>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 97b03037f4d99fcebcb7603011f41c3aff9871ce2
Author: Peter Harris <pharris@opentext.com>
Date: Fri Feb 12 15:36:30 2010 -0500

Don't double-swap the RandR PropertyNotify event

The event is already swapped in randr.c/SRROutputPropertyNotifyEvent, so
it should not be swapped here.

X.Org Bugzilla #26511: http://bugs.freedesktop.org/show_bug.cgi?id=26511
Tested-by: Leonardo Chiquitto <leonardo@ngdn.org>
Acked-by: Adam Jackson <ajax at redhat.com>
Reviewed-by: Julien Cristau <jcristau at debian.org>
Signed-off-by: Peter Harris <pharris@opentext.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0b73f98cbd1803b82c2faf1a40f1a0037673d712
Author: Soeren Sandmann <sandmann@daimi.au.dk>
Date:   Fri Feb 12 20:04:53 2010 +0100

xfree86: Add qxl driver to the autoconfig logic

The qxl driver is for the QXL virtualized graphics device.

Signed-off-by: Søren Sandmann Pedersen <ssp@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9c5bb550a2234e4bee2a144417d74c6bdf160e89
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 12 13:46:03 2010 -0800

  Bump to 1.7.99.901 -- 1.8 RC1

commit 57ffeb3f2b3313dcef92a396f1f55fdbc064b2c5
Merge: c6d9bc092c c76248fda9
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 12 13:36:32 2010 -0800

  Merge remote branch 'jturney/master'

commit c6d9bc092c84ad5e68083a126aa7577baa42ce7f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 10 15:36:50 2010 +1000

  Add tag matching to input attributes.

  Tags may be a list of comma-separated strings that match against a MatchTag
InputClass section. If any of the tags specified for a device match against
the MatchTag of the section, this match is evaluated true and passed on to
the next match condition.

  Tags are specified as "input.tags" (hal) or "ID_INPUT.tags" (udev), the
value of the tags is case-sensitive and require an exact match (not a
substring match).

  i.e. "quirk" will not match "QUIRK", "need_quirk" or "quirk_needed".

Example configuration:
udev:
   ENV[ID_INPUT.tags]="foo,bar"

hal:
   <merge key="input.tags" type="string">foo,bar</merge>

xorg.conf:
   Section "InputClass"
      Identifier "foobar quirks"
      MatchTag "foo|foobar"
      Option "Foobar" "on"
   EndSection

Where the xorg.conf section matches against any device with the tag "foo" or tag "foobar" set.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 3ac43df5d4a25d6e0058b327fa05a1c1436b4794
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 10 15:36:49 2010 +1000

Add xstrtokenize to the dix.

Move tokenize out of the parser, make it a dix util function instead.
Splitting a string into multiple substrings is useful by other places, so let's use it across the line. Future users include config/hal, config/udev and of course the parser.

Example usage:
   char **substrings = xstrtokenize(my_string, ":")

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 27d1b86d1b858f931b4cb16ddff857c76d92a6d9
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Wed Feb 10 15:36:48 2010 +1000

xfree86: Set fnmatch pathname flag for InputClass device matching

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9b369f71273fb117c982e6ce16cd4462f206d365
xfree86: Allow multiple arguments to InputClass matches

In order to keep the number of InputClass sections manageable, allow matches to contain multiple arguments. The arguments will be separated by the '|' character. This allows a policy to apply to multiple types of devices. For example:

```
Section "InputClass"
  Identifier "Inverted Mice"
  MatchProduct "Crazy Mouse|Silly Mouse"
  Option "InvertX" "yes"
EndSection
```

This applies to the MatchProduct, MatchVendor and MatchDevicePath entries. Currently there is no way to escape characters, so names or patterns cannot contain '|'.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a378e361a5de89f0be8b68ebe3e854f56cefe666
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Wed Feb 10 15:36:46 2010 +1000

xfree86: Use "Ignore" option in InputClass to skip devices

Sometimes it is desirable to skip adding specific input devices to the server. The "Ignore" option is used similarly to Monitor sections so that matched devices will not be added. BadIDChoice is returned to the config backend so that it will clean up all resources.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b1a685f00ae76be864cc188943a0874f488b8d64
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Wed Feb 10 15:36:45 2010 +1000

xfree86: Handle config files ending without newline

The config parser expects to find a newline at the end of each line, so files ending without one would confuse it. A newline is inserted at the end of the buffer in these situations. Additionally, switching to the
next config file is moved to the higher level to allow parsing of the last line of the previous file to complete before shifting the index and resetting the line number.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Stephan Raue <stephan.raue@gmx.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 67bc278a511ca6ec42e1f8d2d5897ce0109e94e2c
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Wed Feb 10 15:36:44 2010 +1000

xfree86: Make InputClass docs and comments match reality

Drivers and options specified in InputClass sections work on a "first match wins" strategy. Let's be consistent when documenting it.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a34812b09000db2ff2a1dc6182602839123edd4e
Author: Benjamin Tissoires <tissoire@cena.fr>
Date: Mon Feb 8 13:50:43 2010 +0100

Add labels for multitouch valuators

Those definitions have been included in the kernel but the X server is not updated accordingly. Without these definitions, the multitouch axes are not correctly labelled.

Signed-off-by: Benjamin Tissoires <tissoire@cena.fr>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c76248fdaa99c38ae0ccf0ed6b58f9be95f6fe497
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Tue Feb 2 20:53:44 2010 +0000

Cygwin/X: Avoid a collision between DEBUG and a token name

Rename a token to avoid a collision between DEBUG defined via AC_DEFINE if --enable-debug is configured, and the token for the 'debug' instruction in the XWin preferences file

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>
Cygwin/X: Avoid cursor size log spam

Fedora 12 likes to use a 39x26 animated wait cursor. Avoid spamming the log with warnings that each frame can't be completely contained in the 32x32 native cursor

Also reformat log message so it doesn't contain a '\n\t'. I mean, it's not like we might want to grep the log or something...

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Repair '-nolock'

commit 446fe9eeccdd1337f9d5164dd7c301e1ba3dfe32 removes the AC_DEFINE for SERVER_LOCK and conditional compilation checking it, making it always on everywhere, except in os/utils.c where code is left under SERVER_LOCK, which now never gets built, making the '-nolock' option non-functional...

This seems to have been broken since Xserver 1.7.0, but this option is actually of some slight use on cygwin, as if /tmp resides on a FAT filesystem (yes, I know...), hard links aren't supported.

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

Cygwin/X: Make transient windows resizable again

Reverts the change which makes parented windows non-resizeable

Because this was trying to do something which we should be doing, as an alternative we try checking WM_NORMAL_HINTS for windows which shouldn't be resizable

If a window has a maximum size specified, no maximize box
If a window has a fixed size (max size == min size, per EWMH 1.3 Implementation Notes), no resizing frame
Cygwin/X: Discourage other WMs in multiwindow mode

Tidying up of other WM detection code when adding SWT/Motif fix in commit 71519a572fe15b85c0eb2b02636c9e871f2c858f was rather over-agressive and now allows other WMs to think they can start when the internal WM is running.

Revert to the behaviour of selecting ButtonPressMask events as well on the root window, so other WMs will be dissuaded from starting

Cygwin/X: Update XWin man page

Restructure to group similar options and offer some commentary on those groups
Review option descriptions, clarify and bring up to date

Cygwin/X: Update DDX specific -help text

Alphabetize options
Review option descriptions, clarify and bring up to date
Add missing option descriptions

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 654d2e372dc2978ce379ab9f02137333ec224f0c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Tue Nov 10 13:24:40 2009 +0000

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 26857b1c2003797b02e258247f63064aa1e37c10
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sat Oct 31 17:19:17 2009 +0000

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 6f1836bfbd80e88d4c57a32757d0a5b398504c35
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Nov 2 17:37:14 2009 +0000

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 22982b9e95a2339d5ba60d66263ec42a0331ee41f
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Cygwin/X: XSupportsLocale() failure is non-critical

Treat XSupportsLocale() returning false as non-critical to internal client threading startup, and issue a warning, not an error

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f60b7712b3451649f138b158ee282be89a66b9ef
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:  Mon Feb 1 17:13:00 2010 +0000

Cygwin/X: Report BUILDERSTRING with version information

Report BUILDERSTRING with version information

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit ed2c2a68e1e6b409c198a52d99d300eb6d517e89
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:  Mon Feb 1 17:12:57 2010 +0000

Define FD_SETSIZE on Cygwin regardless of XWin DDX

All DDXs segfault on Cygwin unless -DFD_SETSIZE=256 is set, so make sure we do so whether or not we are building XWin.

FD_SETSIZE must be at least XFD_SETSIZE for uses of select() to be correct. The Cygwin default is only 64, so it must be increased to 256

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 2f2f3da080629d410dd99e281c382b54f0dabf5d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:  Fri Jun 19 21:14:47 2009 +0100

Cygwin/X: Copy the state of the Windows keyboard device to the Virtual Core Keyboard at startup.

Otherwise, this happens lazily after the first keypress, which can lead to applications which are started from a shell window and inspect the keyboard state before a character is typed getting the wrong idea about the desired keymap (e.g. xemacs shows this behaviour)
Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 7a440e5b7a416e582b6c3cc4c33822854ce73aedd
Author: Jon TURNEY <jon.turney@droncode.org.uk>
Date:   Sun Oct 4 15:55:40 2009 +0100

Cygwin/X: Tidy up system.Xwinrc

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 11252ed82e1f361f99e86521ac9314f868bd1a3a
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Mon Feb 1 17:11:54 2010 +0000

Cygwin/X: Look for system.Xwinrc in SYSCONFDIR/X11

Look for system.Xwinrc in SYSCONFDIR/X11 (usually /etc/X11)
Rename sample system.Xwinrc file not to have a X11R6 path in it's name
Add makefile install rule for system.XWinrc

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 34269a90ea2087f883f5dc8805894f4998e4b81
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Feb 2 16:21:44 2010 +0000

Cygwin/X: Update resources file and About dialog

Use the configured vendor web address in the About dialog

Update resources file: rework About dialog, use 'MS Shell Dlg 2'
logical font for all dialogs, add ellipsis to exit option in tray
menu as it (may) trigger another dialog.

Get short vendor name from xwin-config.h, like other configuration
data presented in the About dialog box, rather than creating the
PROJECT_NAME define

Signed-off-by: Jon TURNEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 881812438b430d2856d0494707e028e5f30d6e9a
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Tue Feb 2 16:22:39 2010 +0000
Xming: Use 8 point font for URL in About dialog

Use an 8 point font for URL in About dialog, to match the rest of the text in that dialog

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit c02638fd68440513b6046315547c554a910bd7e2
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Tue Feb 2 16:08:45 2010 +0000

Xming: Add a manifest file

Use manifests to enable XP style controls
(only effective for XP and later and when themes are enabled).
The addition of manifests shouldn't cause compatibility problems with older Windows versions.

Manifest must have execute permissions, otherwise attempts to execute XWin.exe in the same directory will fail...

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit fd8a32baba77aba8d124658a19f4f6eda79e49c6
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Fri Jun 19 21:14:39 2009 +0100

Cygwin/X: Window placement refinement for multiwindow mode

Window placement refinement for multiwindow mode, ensure a window actually ends up somewhere visible if it tries to create itself offscreen (which can happen for e.g. if it has a stored position from a different sized display)

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 7eb840fd42bc62d88fb4fcf6600546c9ff6e56be
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Tue Feb 2 15:42:12 2010 +0000

Cygwin/X: Respect the system's ownership of the clipping region

Respect the system's ownership of the clipping region used for shaped windows

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit bad41bdfd4a12f0e92fd221bffd9f3c5e40d0fe1
Xming: Always update the Windows title Unicode (wide-character) in -multiwindow mode.

Apply the Windows title wide-character in -multiwindow mode. Windows should now display correct client X Window titles for locales with wide characters.

Copyright (C) Colin Harrison 2005-2008
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit 901c4efb620579c5bb951a8c003430d967ecf2ff
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Jan 11 00:31:27 2010 +0000

main: move config_init() after InitInput()

With the udev backend, config_init() calls NewInputDeviceRequest(), which enables devices. They can then start sending events, even though the event queue is only initialized later in InitInput().  Oops.

Debian bug#564256 <http://bugs.debian.org/564256>

Reported-by: Sedat Dilek <sedat.dilek@googlemail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Tested-by: Sedat Dilek <sedat.dilek@googlemail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7f648777680b9dea31c4adb657e205fc6880d98b
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Thu Jan 14 16:42:16 2010 +1000

Don't use AC_CHECK_FILE for fontpath checks when cross compiling

AC_CHECK_FILE chokes when cross compiling, so instead we set the default to the standard FONTROOTDIR directories in that case.

Signed-off-by: Dan Nicholson<dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit db687f718f760ba254ab51994769db101dc9ca3a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 15 10:07:38 2010 +1000
xkb: sed True -> TRUE and False -> FALSE

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 0ea2b0bd02f8683998e8b9ebc2b96d606ce45f45
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 18 20:07:30 2009 +1000

xkb: Add XKM file format description.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 08b22c7fa97217ea4d497ee6624fc3dd916d9b
Author: Oldich Jedlika <oldium.pro@seznam.cz>
Date:   Sun Jan 17 17:59:03 2010 +0100

Allow driver to call DeleteInputDeviceRequest during UnInit

When the input driver (like xf86-input-wacom) removes it's devices
during a call to UnInit, the CloseDownDevices() cannot handle it. The
"next" variable can become a pointer to freed memory.

The patch introduces order-independent device freeing mechanism by
remembering the already freed device ids. The devices can reorder any
time during freeing. No device will be double-freed - if the removing
failed for any reason; some implementations of DeleteInputDeviceRequest
don't free the devices already.

Signed-off-by: Oldich Jedlika <oldium.pro@seznam.cz>
Reviewed-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b91cecc26de36775388e620772747b08eee34294
Author: Horst Wente <horst.wente@acm.org>
Date:   Wed Dec 30 19:35:20 2009 +0100

xkb: make ctrl+alt+keypad + / ctrl+alt+keypad - work again (#25743)

Video mode switching via keypad keys did not work

Signed-off-by: Horst Wente <horst.wente@acm.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Oldich Jedlika <oldium.pro@seznam.cz>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 993e78d6c433f65bd8a87890a6bb6da480b2edc4
Author: Oldich Jedlika <oldium.pro@seznam.cz>
Date:   Tue Jan 12 19:15:06 2010 +0100

Fix typo in updateSlaveDeviceCoords

The index [0] for the second valuator looks bogus; fix it.

Signed-off-by: Oldich Jedlika <oldium.pro@seznam.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 52456c602c3cdd7d5eac677889a18fad37dfb7ae
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Sat Jan 30 14:49:02 2010 -0800

XQuartz: Attatch a stub display when CoreGraphics reports no displays.

This is half of the required changes to address the "stuck mouse pointer" bug that occurs when X11 launches while the displays are asleep. The remainder of the fix is part of libXplugin which needs to be updated to send XP_EVENT_DISPLAY_CHANGED when the display wakes up. If you don't have a recent enough libXplugin (expected in 2.5.0_beta2 or later), you can cause this event to be sent by changing your display resolution (or you could just start X11.app with your screens awake).

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 15f4bb6de64313ff100aa544da94c60922a498df
Author: Jeremy Huddleston <jeremyhu@apple.com>
Date:   Wed Jan 27 17:12:12 2010 -0800

XQuartz: Dead code removal

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 7ba5de6e9e1e8efda9f79af601f6269bae841ce
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jan 30 10:55:38 2010 -0800

XQuartz: Add some .gitignore magic

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 4d575b0559817258f7a0ce6c4d2d0f9e7e5bb6a63
Author: Robert Morell <rmorell@nvidia.com>
RENDER: Fix gradient and solid fill pictures with Xinerama, and misc cleanup

If these aren't wrapped, then procs that are wrapped (such as RenderChangePicture) will fail in Xinerama when they see the resource type of a picture created through one of these interfaces is PictureType and not XRT_PICTURE like those allocated via RenderCreatePicture.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8d6b1838330625b758ebe55bb0df1b425c5cefaf
Author: Robert Morell <rmorell@nvidia.com>
Date: Thu Jan 21 12:38:47 2010 -0800

Render: Fix request size verification

RenderSetPictureClipRectangles and the Xinerama version of RenderChangePicture were using the wrong structure types for request size verification.

Signed-off-by: Robert Morell <rmorell@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5e81078cf56aabbf6551d96d312c7840ba9370ae
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon Jan 18 14:31:12 2010 +0200

xfree86: vgaarb: remove useless debug

This is RAC's remnant. Any sane person would use a more wise method of debugging instead.

X.Org Bug 26074 <http://bugs.freedesktop.org/show_bug.cgi?id=26074>

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e38df06772965cd5099646f1e7032b7c944d16ed
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Jan 28 14:33:25 2010 -0800

DRI2: Bump the dri2 module version to 1.2.0 to reflect recent API changes.
The default behavior of the server is to start with an invisible root cursor. Be such cursor invisible or inexistent (null), in the end it doesn't matter - for the user. The content on screen will be the same. Besides, there's no difference, in terms of performance, whether such cursor is invisible or simply null. The paths that both take inside the server are roughly the same.

Therefore create a null root cursor becomes irrelevant.

This value isn't actually set for normal events but it saves us some work for the record extension support.

Revert "dix: EventToCore needs to copy the root window too."

This reverts commit 0f2d297dedeff8bd227df4c498cc668b0e902344.

Peter provided an updated patch which fixes the tests.
Simon reported an issue with kwin that turned out to be a general problem. If a drawable goes away before its swap completes, we’ll try to free it up. However, we free it improperly, which causes a server crash in DRI2DestroyDrawable. Fix that up by splitting the free code out and calling it from DRI2SwapComplete.

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Reviewed-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b68f0204a2e4fa9d8884cbbdd84b6a5df21d66b36e
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Wed Jan 27 09:10:41 2010 -0800

xserver: require libdri 7.8.0 to build

We depend on new DRI interfaces now, so require them in configure.ac.

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 003829072853546abd973266fe9b24d803f4f5cb
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Jan 26 22:25:04 2010 -0800

Avoid segfaults in XF86VidMode GammaRamp functions if randr_crtc is NULL

Fixes crash when xscreensaver tries to use GammaRamp calls to fade out

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 19d03d4f49e08442f58cf02240e3e6bab04633d2
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Tue Jan 26 20:15:49 2010 -0500

doc: finish the removal of SecurityPolicy file man pages

The variable was unassigned but all the code was left in.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7962c8f78964d460c76f76dda2795b971a8c2a94
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Tue Jan 26 20:02:13 2010 -0500

man: add missing __datadir__ for Xserver XWin man pages

The man pages display __datadir__/fonts/X11/... because __datadir__
is missing in cpprules.in. Problem was introduced in commit:
b54bc14ce0ae38c4863794bc3096ca86cdb23908
when replacing __projectroot__ in the previous font path.

Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d2322b6309bf15a45002b42e7e6ba3d6b5ba932
Author: Kok, Auke <auke-jan.h.kok@intel.com>
Date:   Wed Jan 27 11:34:45 2010 -0800

xserver: Add timestamps to logfile output.

Add timestamps in seconds derived from clock_monotonic to the log
file.

Signed-off-by: Auke Kok <auke-jan.h.kok@intel.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0b21a0416b4cb2c32da5e3fda05a0682eb97d56e
Merge: 1e6fd65d0b 837bd2bbc0
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 27 14:14:15 2010 -0800

Merge remote branch 'alanc/master'

commit 1e6fd65d0b9526025382678131885a4ec21c594
Author: Michael Vogt <mvo@ubuntu.com>
Date:   Mon Jan 25 18:41:20 2010 +0100

xfree86/modes: only call gamma_set if its non NULL

I ran accross a crash with xf86-video-nv-2.1.15 [1] and xserver
1.7.3.901. It looks like the problem is that gamma_set is called even
if that is NULL.

[1] https://launchpad.net/bugs/494627
Reviewed-By: Matthias Hopf <mhopf@suse.de>
Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0688dca044f966abc3da667fd4e79e7cf47f996
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jan 21 10:31:04 2010 -0800

dri2: Fix order of operations issue in __glXdriSwapEvent test.

Clients would have received swap events regardless of asking for it.

Signed-off-by: Eric Anholt <eric@anholt.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a6bd5d2e482a5aa844cb3d4932e2a166d8670ef1
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date: Wed Jan 27 14:03:03 2010 -0800

Fix source pictures getting random transforms after 2d6a8f668342a5190cdf43b5.

*xoff and *yoff were uninitialized for source-only pictures.x

Signed-off-by: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Reviewed-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c3395158678aaab9dca5fc6a812cbe715ddc0e1a
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Fri Jan 15 14:13:18 2010 -0500

packaging: provide a default README file #24206

All modules should have a README file.
The bottom URL section is found in all X.Org README files.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f311f2d047120fb816897444d2101465ff5189db
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Jan 13 11:35:52 2010 -0800

DRI2: Allow multiple driver names.
Each driver type (e.g. DRI2DriverDRI or DRI2DriverVDPAU) can have a name in the
driverNames array in DRI2InfoRec. DRI2Connect returns the name for the driver
specified by driverType. Also print names of supported drivers in
DRI2ScreenInit.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f57bc0ede8e018c7e264b917927c42a018cd1d5a
Author: Christian Zander <chzander@nvidia.com>
Date:   Mon Jan 11 12:29:07 2010 -0800

x86emu: Respect the LEA 67h address size prefix.

Signed-off-by: Christian Zander <chzander@nvidia.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 837bd2bcb02b893f96861b48c1f02b7b8e7e3e48
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Oct 16 22:32:15 2009 -0700

Remove unbalanced ( from failure to move log error

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>

commit 138d4c1670ebab435bf00627c97098a3a54b81a6
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Sat Jan 16 21:03:00 2010 -0800

glx: Sun compilers now support some gcc __attribute__ values

Sun cc 5.9 and later (__SUNPRO_C >= 0x590) support __attribute__
calls for aligned, always_inline, noinline, pure, const, and malloc.

This commit consists of the related updates to files that were
regenerated by gl_XML.py in mesa after adding the __SUNPRO_C checks to it

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Brian Paul <brianp@vmware.com>

commit 79e7b0b875634d0f9e1a95232a4e38adf617bc14
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Sat Jan 16 10:45:32 2010 -0800
Only enable kdrive input drivers on Linux by default

Fixes build on non-Linux platforms by restoring the defaults to where they were before commit 6c2b3a4247d10a50699ff6abb643c5e959eefa8, to only enable the Linux kbd, mouse & evdev drivers when building on Linux platforms.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Mikhail Gubarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 39ab474197bdad7d8e9ef496df2d61cbea39d370
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Dec 15 19:07:38 2009 -0800

Move OS-specific VT key handler code from common to os-support

Adds new function xf86Activate to the OS-specific *VTsw*.c files and calls it from xf86ProcessActionEvent

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Tested-by: Tiago Vignatti <tiago.vignatti@nokia.com> (GNU/Linux)

commit 15ca3312c069526b7ff2207de9dfb9b9e851caf95
Author: Aaron Zang <Aaron.Zang@Sun.COM>
Date: Mon Dec 14 17:55:46 2009 -0800

Solaris: Avoid switching to inactive VT's

Fix for OpenSolaris bug 6876992: "[vconsole] Ctrl+Alt+F12 switchs to blank console screen with hotkeys property turned-off"

Xorg needs to do sanity test for the VT it is commanded to switch to. If the VT is not opened by any process, discard the switching request.

The changes also contain the fix for some flaws discovered when getting the new gdm to run.

Signed-off-by: Aaron Zang <Aaron.Zang@Sun.COM>
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 2984c18eb994696927a7f3b94d86fd47907334a0
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Thu Jan 21 14:21:07 2010 -0500

config: replace custom code with reusable macro XORG_WITH_DOXYGEN
XORG\_WITH\_DOXYGEN provides additional functions like a configure option which allow platform builders to control the usage of the doxygen program.

This is a requirement from platforms that do not have such a tool. A platform with a back level doxygen may use --without-doxygen to get the rest of the documentation built.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d9c20ee4191de7276a08288adffce24d4ff48af1f8f
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Jan 15 19:34:29 2010 +0200

dix: move cursor realize code to its own function

The semantic remains, only code was moved: reuse chunk of code to realize cursor on both AllocARGBCursor and AllocGlyphCursor.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f818f222362c93bcc859d997d96d8f3b447729f4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 15 15:32:19 2010 +1000

xkb: unexport xkbDevicePrivateKey and xkbUnwrapProc.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6850ea8fb95417db9ce3a70fc17f90d6fdea1389
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 15 15:32:16 2010 +1000

xfree86: replace True/False with TRUE/FALSE.

xf86Xinput.c relied on xkbsrv.h's definition of True/False which seems odd at first and weird on second glance.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 64b1372c15c3ede2696346e153bca9bd89016a20
xkb: remove unused _XkbIsPressEvent and _XkbIsReleaseEvent defines

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c8bba14a390f3fa16027e6b2433a314b3ea00c3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 15 15:32:13 2010 +1000

xkb: remove XkbAtomGetString, replace with NameForAtom.

XKB really XKBDoes not XKBneed its own XKBdefines for XKBeverything.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f37799c9712afb7769f369162b904d9ea2dbd608
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 15 15:32:12 2010 +1000

xkb: remove IsKeypadKey define, only used in two places.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c8076f317ee5044ed3cc21b097f8b1741af8e0f1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 15 15:32:11 2010 +1000

xkb: remove XConvertCase.

Since it's typedef'd to XkbConvertCase anyway and the headers are now split
from the client headers, simply get rid of it altogether.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit d627dd9d1ef436b01f0581e40a6736ff6b5d2c8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 15 15:32:10 2010 +1000
xkb: remove _XkbClearElems, a memset will do.

Bonus point - it's easier to understand what's actually being done with the memory.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e1de3fcde40d2060bb6d13775005eadd624e767
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 15 15:32:09 2010 +1000

xkb: remove _XkbTyped*alloc

Please no extension-specific macros for memory allocation.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0f2d297dedeff8bd227df4c498cc668b0e902344
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jan 5 16:31:37 2010 +1000

dix: EventToCore needs to copy the root window too.

This value isn't actually set for normal events but it saves us some work for the record extension support.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6f6a99abc12ddee82889fbdabfb50c17e90e094b9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jan 13 14:39:54 2010 -0800

XQuartz: Don't FatalError in x_hook_run if the list is empty

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 6bde306f7f6b9bbabeaa8bb910ea549be906cd8b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jan 13 11:20:29 2010 -0800

XQuartz: Update copyright in bundle for 2010
Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 6008cc116493cb2825ad0bda0b407b7aefabb3f4
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Jan 11 18:02:55 2010 -0800

XQuartz: Setup the modifier map in the quartz thread

This avoids possible doing it twice which could result in incorrect keycodes for all due to our loss of information about its side.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 44f9c3d16c9e9b3362306a9ba26ee52e7baafeca
Merge: 032f97808c 84956ca43b
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jan 13 10:19:21 2010 -0800

Merge remote branch 'jbarnes/master'

commit 84956ca43b087600d9db297cffd62e960c516d9e
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Mon Jan 11 14:56:24 2010 -0500

GLX/DRI2: add INTEL_swap_event support

This allows clients to easily check for swap completion status in their main loop.

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Adam Jackson <ajax@nwnk.net>
Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 04a54f69a8085ab3fe11a8713bd86b16ed1db27
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Thu Jul 16 09:01:17 2009 -0400

DRI2: add support for new DRI2 protocol requests

Support the new DRI2 2.2 protocol requests: DRI2SwapBuffers, DRI2GetMSC, DRI2WaitMSC, DRI2WaitSBC and DRI2SwapInterval.

These requests allow the server to support the SGI_video_sync, SGI_swap_interval, and OML_sync_control GLX extensions if DDX support is present. The new DDX APIs are documented in dri2.h.

Reviewed-by: Kristian Høgsberg <krh@bitplanet.net>
Reviewed-by: Adam Jackson <ajax@nwnk.net>
xfree86: init pointer feedback controls from options

With InputClass support, it makes more sense to cover all aspects of acceleration in options. Previously, one could only set the default on the command line.

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: document pointer acceleration in xorg.conf.man

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Fernando Carrijo <fcarrijo@yahoo.com.br>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

whitespace fixes

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

doc: actually document SendDragEvents

Signed-off-by: Simon Thum <simon.thum@gmx.de>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Jan 6 18:13:27 2010 +0100

    os: state effect of -a and -t options more precisely

    Signed-off-by: Simon Thum <simon.thum@gmx.de>
    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d727dab91a549d23f6bf323e91db4b8916c1b7a0
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Jan 9 16:28:32 2010 -0500

    kdrive: klinux.h breaks make dist

    This file is no longer part of the source code
    and must be removed from distribution.

    Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
    Reviewed-by: Mikhail Gusarov <dottedmag@dottedmag.net>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6313d2da6c6910827d68cf31fe00b46a34c5bfc7
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Fri Jan 8 19:04:25 2010 -0500

    configure: use backticks rather than $() for commands

    This patch to xserver configure.ac is to increase code portability to
    non POSIX system by using backticks rather than $() for command
    substitution for BUILD_DATE and BUILD_TIME.

    Reviewed-by: Rémi Cardona <remi@gentoo.org>
    Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 74ab27f64a747ee45810f99c0c6e29b82cf8035e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Dec 28 18:00:28 2009 +0200

    Revert "Make sys.c use unaligned access functions provided in compiler."

    This reverts commit da923d0bc15e99a8ed1986bd6f5d37f7af7284b.

    Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6a2a57832709798d99d19ff4c587e22f3b3c150d
macro: use PKG_CONFIG variable rather than executable name

User can defined alternate location for pkg-config.
Once option in place, all instances of pkg-config must be converted.

Acknowledged-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1b3132f5e981b3398e08263742332cc966bebc07
Author: Gaetan Nadon <memsize@videotron.ca>
Date: Thu Jan 7 14:12:34 2010 -0500

xwin: ignore intermediate .man file

Only detectable on a Cygwin build

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8ab4749aaefb3727b9fc58bb37b50a2d07eb1531
Merge: 8d53d84485 9437504b21
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 7 10:32:21 2010 -0800

Merge remote branch 'dottedmag/for-keithp'

commit 8d53d84485fdce8ea968e6f300a69f7ddebd467
Author: Adam Tkac <atkac@redhat.com>
Date: Thu Jan 7 15:34:52 2010 +0100

Do not define members of include/eventstr.h:EventType enum conditionally.

Main problem is that EventType enumeration members can be different in
module and in server, which obviously causes problems.

Signed-off-by: Adam Tkac <atkac@redhat.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9437504b21dfdb509ab88b3a00f64403e1e4026dd
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Mon Jan 4 05:42:02 2010 +0600
kdrive: Remove unused kdNoopOps external variable declaration

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit aa6e0936be15488455e6a4236806a58496da2979
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Jan 4 05:30:22 2010 +0600

kdrive: Remove unused kmap.c

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit f78ac5c6e273f575af29746e08e7c182ff7b93b3
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Jan 4 02:36:30 2010 +0600

kdrive: Make internal functions static

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 37a8ddc0dbf3fb7f059b689038979bace206dccf
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Jan 4 02:28:37 2010 +0600

kdrive: Remove unused 'k' variable

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit af1f1a05e1aa9ec921f1288818a66766c301f8b0
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Jan 4 01:50:04 2010 +0600

kdrive: Remove bus mouse driver

Bus mice aren't used anymore, do not keep dead code around.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
commit a3cc3af186b55ac80abd6859ffe491f4ae936596
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Sat Jan 2 23:31:28 2010 +0600

kdrive: Adjust kdrive usage message as shadow overlay support has been dropped

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit c40b9f959175057fac726fcdff9641ae0681cf6
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Mon Jan 4 14:07:37 2010 +0600

kdrive: Remove unused VxWorks* variable declarations

Reviewed-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 4e0d580d5ac00d8d87c8e0080a02868c87a31caa
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Sat Jan 2 15:04:03 2010 +0600

kdrive: Remove unused KdCardInfo::lastMarker field

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit dbaab9759ba31edf63cf73eda86ba931d88e8cce
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Sat Jan 2 16:18:29 2010 +0600

kdrive: Extract common part of fbdevPutColors and fbdevEnable

Put framebuffer colormap updating code in separate function for brevity.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 7ee14154b230b931d294288e1291c4fc617b1354
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Sat Jan 2 15:42:53 2010 +0600

kdrive: Remove unused overlay fb support
Xfbdev, Xephyr and Xfake all use only one framebuffer, so simplify implementation by removing overlay support.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 730f7d1c4fae8ca582a4a9998a4dc4b325f98896
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 15:06:18 2010 +0600

kdrive: Remove unused KD_MAX_CARD_ADDRESS macro

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 5337ddcf8dc2a5b823da39df7adaad6692214f0
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 14:59:07 2010 +0600

kdrive: Move Xephyr-specific fields out of KdScreenInfo

memory_base, memory_size, off_screen_base fields in KdScreenInfo are used only by fake EXA in Xephyr. Move them into Xephyr, cleanup Xfake and Xfbdev.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 62883b499b72f678ab055de4d0370227ae441370
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 13:17:21 2010 +0600

kdrive: Remove unused KdCardAttr from KdCardInfo

Card attrs are unused in all current kdrive servers, so remove it completely to avoid allocating and passing dummy values to KdCardInfoAdd.

Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 6c2b3a4247d10a50699ffaa6abb643c5e959eefa8
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Mon Jan 4 14:07:04 2010 +0600

kdrive: Add option to compile out input drivers

Add --without-kdrive-{kbd,mouse,evdev} configure options disabling
Linux keyboard driver, Linux mouse drivers (ps2, bus,ms),
and Linux evdev driver.

Build all drivers by default as before.

Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 72ba717b1d639e94fa9ab56ca026131edc020a30
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 15:03:24 2010 +0600

kdrive: Remove unused KdCardInfo::needSync field

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit d21b41cdb5e89eb428f36b19e965f0ab49e051d9
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 13:21:25 2010 +0600

kdrive: Remove .gitignore left from SDL server

SDL server is gone, no need to keep its .gitignore anymore.

Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>

commit 6f265d55a61f9be323583b8acacae783be72bda9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 5 13:15:25 2010 +1000

dix: don't update the slave coordinates from the VCK.

A keyboard event from a device with both valuators and keys will be posted
through the VCK. In this case, do not update the slave device coordinates
from the VCK - they're always 0/0. Leave them as-is, for the next pointer
event will continue where it left.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 326429badfc76885e4652ddc72860810c0e8d102
modes: Remove the ClockRanges type

ba2d39dd5428cb5922b797a1d4ea45b859412b40 introduced warnings:

xf86Mode.c: In function ‘xf86CheckModeForDriver’:
xf86Mode.c:986: warning: passing argument 1 of ‘modeInClockRange’ from incompatible pointer type
xf86Mode.c:253: note: expected ‘ClockRangePtr’ but argument is of type ‘ClockRangesPtr’
xf86Mode.c:1002: warning: passing argument 1 of ‘modeInClockRange’ from incompatible pointer type
xf86Mode.c:253: note: expected ‘ClockRangePtr’ but argument is of type ‘ClockRangesPtr’

Because I foolishly didn't notice that we had types with nearly identical members named ClockRange and ClockRanges. The latter contained an extra 'strategy' member at the end, which claimed to be needed by the vidmode extension. Of course, this was a lie: the only time we'd use it was in mode validation, for drivers using LOOKUP_CLKDIV2 with non-programmable clocks. The only driver using LOOKUP_CLKDIV2 is rendition, which has a programmable clock. The only driver using the ClockRanges type was smi, which did not use it for its 'strategy' member, so has been fixed to use ClockRange instead.

Signed-off-by: Adam Jackson <ajax@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 13c8bd3fde3b0831921e59f84936022a16379d63
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Jan 4 18:21:54 2010 -0800

CloseDevice: call XkbRemoveResourceClient before freeing key class struct

XkbRemoveResourceClient() returns immediately if dev->key is NULL.
CloseDevice calls XkbRemoveResourceClient until it removes all resources.

If we free dev->key and NULL it before XkbRemoveResourceClient, then infinite loop ensues, and the server appears to hang on exit or crash.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e707612e9de4e5e1d91dc1a8152810912d7e18bb
Author: Michel Dänzer <daenzer@vmware.com>
Date: Mon Jan 4 09:07:48 2010 +0100
EXA: Restore migration call in exaDoPutImage().

Turns out this is still necessary if the driver PrepareAccess hook succeeds.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Tested-by: Maarten Maathuis <madman2003@gmail.com>
Tested-by: Andrew Chant <andrew.chant+debian@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e10072b7c74a6f5e24f6dfa37e73688d1f3425e3
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 05:43:28 2010 +0600

Add Xephyr.man to .gitignore

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Gaetan Nadon <memsize@videotron.ca>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fb26cb793c6eba189050662c566f7ea0559bd486
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 05:43:27 2010 +0600

Remove unused pShadow field from drivers' private structures

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2c85d72fc7bd013af327321ad5626dc73c3caf0
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 05:43:26 2010 +0600

Do not check xfree argument for NULL

xfree itself checks for NULL, and even this is not necessary as passing NULL to free(3) is safe.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 15bc35c6e44c65812de5c3e85ec8bbf78b032ded
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Sat Jan 2 05:43:25 2010 +0600

Remove trailing whitespace

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
dix: add smooth limited pointer acceleration profile

This profile is inspired by the accel code removed from the wacom driver. It ascends from zero to acceleration, maxing out at threshold. This means you can control the slope using threshold, which wasn't possible in wacom. For sanity's sake, threshold should grow with acceleration.

Works best with adaptive deceleration, since otherwise it only generates acceleration above 1, causing seldom pixel skips.

Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

config: add libudev input-hotplug backend

Add a backend using libudev for input hotplug, and disable the hal and dbus backends if this one is enabled.

XKB configuration happens using xkb{rules,model,layout,variant,options} properties (case-insensitive) on the device. We fill in InputAttributes to allow configuration through InputClass in Xorg.

Requires udev 148 for the input_id helper and ID_INPUT* properties.

Reviewed-by: Julien Cristau <jcristau@debian.org>

xfree86: move sanity checks below option and input classes merges.

While the identifier is likely set before the input classes are merged, the driver may not be. Hence don't check for a driver before we've completed configuration for this device.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 9fad8f06fb89ac2ae05bea0fa24cab3df7677297
Merge: 871bbe1d87 42e8c9224e
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 30 09:28:19 2009 -0800

Merge remote branch 'dbn/inputclass'

commit 871bbe1d87fa3c7ebd075e1d1eec33e45b08493d
Merge: db2c6f7c91 e1165632bd
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 30 09:16:45 2009 -0800

Merge remote branch 'dbn/xorg.conf.d'

commit db2c6f7c91289b5d49978974093a1002b3b53a56
Author: Michel Dänzer <daenzer@vmware.com>
Date: Tue Dec 29 15:48:44 2009 +0100

EXA: Don't use UTS/DFS directly for Put/GetImage when there's a system copy.

We want to save the result in the system memory copy, in case we'll need it
again for subsequent software fallbacks.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-By: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f28ca728e90ccbb901e8e7215a842525d8e786d3
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date: Tue Dec 29 12:51:30 2009 +0100

EXA: Restrict the regions that need to be migrated for composite fallback for src / mask pictures.

[ Michel: Minor fixups to address compiler warnings ]

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0c1f43c0f3e888172f11f62a2f208af70e0183cc
Author: Michel Dänzer <daenzer@vmware.com>
Date: Tue Dec 29 12:51:29 2009 +0100
EXA/mixed: Handle results of software fallbacks in DamageReport hook.

This is more elegant and probably also slightly more correct than doing it at FinishAccess time.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 08bf26c28fc8147b64f2fe8345b9581e0101571c
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Dec 29 12:51:28 2009 +0100

EXA: Fix migration avoidance for 1x1 pixmaps.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0bd8f0cd7f3823ee17ae8c88fd3e004bfff9982d
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Dec 29 12:51:27 2009 +0100

EXA/classic: Fix crash with migration heuristic "smart".

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 40453bf7718f1c3d672b87e9d84991032cbef859
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Tue Dec 29 09:34:44 2009 +0100

EXA: Limit src prepareAccess regions for a number of unaccelerated operations.

When we can trivially calculate the affected source regions, do that before calling region bounded prepareAccess.

[ Michel: Minor fixups to address compiler warnings ]

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit aa9ce8ab343d51a67924757c5a43c9572248bb24
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Dec 29 09:34:43 2009 +0100
EXA: Use relevant source region to minimize migration on CopyWindow fallbacks.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 39cc110ca1f6481a7213ae39f82669333ec1645
Author: Thomas Hellstrom <thellstrom@vmware.com>
Date:   Tue Dec 29 09:34:42 2009 +0100

EXA: Fix bugs in exaGetImage / ExaCheckGetImage migration.

Signed-off-by: Thomas Hellstrom <thellstrom@vmware.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d42f3960514f1c410863ac6c09e5638b5ddeae20
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Dec 28 16:48:18 2009 +0100

EXA: Allow optimized migration to be enabled with mixed pixmaps.

This was always the intention, I only recently realized it wasn't the case yet...

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 661630f9099f254e54c8da513aad12f6532cc35
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Dec 28 16:48:17 2009 +0100

EXA/mixed: Don't clear deferred status of pixmaps if migration is limited.

* With optimized migration, only the pending damage region is synchronized for
destination pixmaps.
* Migration of source pixmaps can be limited to a bounding region.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 42e8c9224e6c54655c45f87999d37d0d67b3f7f5
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Fri Oct 2 06:29:28 2009 -0700
xfree86: Introduce InputClass configuration

Currently Xorg uses hal's fdi files to decide what configuration options are applied to automatically added input devices. This is sub-optimal since it requires users to use a new and different configuration store than xorg.conf.

The InputClass section attempts to provide a system similar to hal where configuration can be applied to all devices with certain attributes. For now, devices can be matched to:

* A substring of the product name via a MatchProduct entry
* A substring of the vendor name via a MatchVendor entry
* A pathname pattern of the device file via a MatchDevicePath entry
* A device type via boolean entries for MatchIsKeyboard, MatchIsPointer, MatchIsJoystick, MatchIsTablet, MatchIsTouchpad and MatchIsTouchscreen

See the INPUTCLASS section in xorg.conf(5) for more details.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0711598dd3e8366217676f462f1af7d0899656d9
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Wed Sep 2 06:47:13 2009 -0700

cfg: Introduce InputAttributes in NewInputDeviceRequest

In order to give NewInputDeviceRequest more information, a new InputAttributes type is introduced. Currently, this collects the product and vendor name, device path, and sets booleans for attributes such as having keys and/or a pointer. Only the HAL backend fills in the attributes, though.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer at who-t.net>

commit c6e8637e29e0ca11dfb35c02da7ca6002ac8c597
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Fri Oct 2 06:28:03 2009 -0700

xfree86: Support non-Option boolean entries in configuration

Refactored code into the parser to allow the freeform boolean types used in Option entries to be used in other configuration entries. This isn't as powerful as allowing "No" to precede the option names, but it atleast gives a common handling of "yes", "no", etc.
A type xf86TriState has been added to support an optional boolean. This allows the boolean sense of the value to be kept while providing a means to signal that it is unset.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer at who-t.net>

commit e1165632bdfbd720889ed1adf5f7ab338032c0ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 21 15:56:35 2009 +1000

xfree86: Add Option AutoServerLayout for input devices.

Any input device with this option will be automatically added to whichever server layout is selected at startup. This removes the need to reference a device from the ServerLayout section. The two following configuration are identical:

CONFIG 1:
Section "ServerLayout"
  InputDevice "foo"
EndSection

Section "InputDevice"
  Identifier "foo"
...
EndSection

CONFIG 2:
Section "InputDevice"
  Identifier "foo"
    Option "AutoServerLayout" "on"
...
EndSection

The selection of the server layout affects both explicitly specified layouts and the implicit layout.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp at keithp.com>

commit 592b20c517461d32daf44a940386ffcc11c434f8
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Mon Dec 21 01:13:44 2009 -0800

xfree86: Allow config directory to be specified on command line
Add a new command line parameter, -configdir, to specify the config directory to be used. Rules are the same as -config for root vs. user privileges.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer at who-t.net>

commit efa5269f23c2237eb5368bf5245ffbbf35714153
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Dec 21 00:04:16 2009 -0800

taxe86: Use xorg.conf.d directory for multiple config files

Currently there is a single file, xorg.conf, for configuring the server. This works fine most of the time, but it becomes a problem when packages or system services need to adjust the configuration. Instead, allow multiple configuration files to live in a directory. Typically this will be /etc/X11/xorg.conf.d.

Files with a suffix of .conf will be read and added to the server configuration after xorg.conf. The server won't fall back to using the auto configuration unless there is no config file and there are no files in the config directory.

Right now this uses a simpler search template than the config file search path by not using the command line or environment variable parameters. The matching code was refactored a bit to make this more coherent. Any DDX wanting to read the config files will need to call xf86initConfigFiles before opening/reading them. This is to allow xf86openConfigFile without xf86openConfigDirFiles and vice-versa.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer at who-t.net>

commit f1e869aca176e9113f9d234b0ea59b4cac295cc4
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Mon Dec 21 00:03:11 2009 -0800

taxe86: Unexport configuration file symbols

These functions should not be used outside of DDXs, so no need to put them in the ABI.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Reviewed-by: Peter Hutterer <peter.hutterer at who-t.net>

commit 90e6d93cf9bfafd63d7849dc16ce194d69e9d5f
Author: Peter Hutterer <peter.hutterer@who-t.net>
test/xi2: fail if xi2 class type is garbage. (#25492)

If the keycode range exceeds the allowable length, memory gets overwritten. Catch this case by making sure that only allowed class types are present.

X.Org Bug 25492 <http://bugs.freedesktop.org/show_bug.cgi?id=25492>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 72286eae9f42a2f2ca6c46919f8a1011429e03a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 22 15:42:59 2009 +1000

xfree86: remove LAYOUT_DEBUG section.

I don't think this one has been in use since 2003.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 38b5af80b5b46b61e7f60e5a377b343e357e7e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 22 15:40:40 2009 +1000

xfree86: remove some 'enable this later' and if 0 ifdefs

2003 called, they want their ifdefs back.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7dc78db79edd15b971110acaf16bbe7f69e40bdb
Merge: 81a623f036 b44c9be244
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 22 21:25:18 2009 -0800

Merge remote branch 'whot/master'

commit b44c9be244cee286835855483a69c69e80b095c0
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Dec 22 17:14:09 2009 +0100
test/xi2: fix maximum max_keycode (bug#25492)

The number of keycodes needs to be lower than 0xFFFD so that the length field of xXIKeyInfo doesn't overflow.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 190610e0c62170a27ab3e40c6c6210a583ae1ad4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 21 11:08:26 2009 +1000

xfree86: remove HistorySize from the xorg.conf man page.

This option isn't parsed by anything anymore.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 094e6b9f97a9f92e5a0ef3c5be24c09ed4d6063
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 21 10:42:32 2009 +1000

xfree86: reword InputDevice man sections, deprecate CorePointer/CoreKeyboard

Reshuffle and reword - InputDevice sections are only necessary if hotplugging is disabled. Put more emphasis on hotplugging and less on HAL since we'll switch backends eventually.

CorePointer, CoreKeyboard, and AlwaysCore should be listed as deprecated since they don't do what they used to since 1.4. These days, only SendCoreEvents matters and it's enabled for any driver calling xf86ProcessCommonOptions (== every driver).
It only controls the startup behavior too, so document this.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 81a623f036fe56d53c4e3bdafb3eaf945502525f
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Dec 19 20:11:41 2009 -0800

Bump to 1.7.99.3 (unreleased)

Signed-off-by: Keith Packard <keithp@keithp.com>
Set release date for 1.7.99.2

Signed-off-by: Keith Packard <keithp@keithp.com>

Add type name argument to CreateNewResourceType

Convert all calls of CreateNewResourceType to pass name argument

Breaks DIX ABI.

ABI versions bumped:

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Ensure all resource types created have names registered

Calls RegisterResourceName to record the type name for use by X-Resource, XACE/SELinux/XTsol, and DTrace.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

Check for failures from CreateNewResourceType

Make sure to check return value before setting bitmask flags. For most calls, just fails to init the extension. Since Xinput already calls FatalError() on initialization failure, so does failure to allocate Xinput's resource type.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed by: Keith Packard <keithp@keithp.com>

commit 1df4bd6011e110dcf0649b15bfff4ab9e6961d6
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 17 18:24:40 2009 -0800

Change default xkb model from pc104 to pc105

PC105 is a more useful default for non-American keyboard users, not harmful for American PC101/PC104 keyboard users.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1d2e189cde1d65c9ca2aa0a950780dcb18e6c50f1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 17 18:24:39 2009 -0800

Change sysconfdir brackets to avoid some shells trying to run it as a command

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 48749cc21b074ee8e68c3854bd3977ec7e408225
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 17 18:24:38 2009 -0800

Add platform compatibility defines for Sun Studio compilers

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b63912ed4c69f6ed1be92274d6cae0429a79677
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 17 18:24:37 2009 -0800

Convert checks for PC98 support from platform #ifdefs to configure flag

Default remains the same - on for most OS'es on i386 (except Solaris), off for everyone else. Can be manually toggled via --enable-pc98 or --disable-pc98.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 801bc8075aee664bd4c6b6ff842ab737c143a1de
xfree86: update man page for special keys handling.

SpecialKeyHandling was removed from the kbd driver with version 1.4.0. Since this is the only version that will build against server 1.7+ it's not reasonable to mention it in the man page. Reword, point to XKB instead and make clear that some key combinations _may_ not be available in any given config.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>

xfree86: DontZap has been disabled for a while now, say so in the man page.

1.7 always shipped with DontZap disabled, it's just the default keymaps that may not include the symbol to trigger it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>

xf86xv: Fix off-by-one in viewport clipping

Most of the Xv Put/Get operations have an off by one error in the
viewport clipping.

Apparently PutImage was fixed at some point but the same code was already copy-pasted all over the place, and so the other operations still suffer from the bug.

Signed-off-by: Ville Syrjälä <ville.syrjala@nokia.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit faca1bc582e374d32ee9d63d10e072bef4940a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 14 11:05:20 2009 +1000

xfree86: belately init RandR12 if xinerama fails. (#24627)

On Fri, Dec 11, 2009 at 10:19:01AM -0800, Keith Packard wrote:
  > On Wed, 9 Dec 2009 11:55:14 +1000, Peter Hutterer <peter.hutterer@who-t.net> wrote:
  >   > On Tue, Dec 08, 2009 at 05:24:06PM -0800, Aaron Plattner wrote:
  >   >   > On Tue, Dec 08, 2009 at 03:52:27PM -0800, Peter Hutterer wrote:
  >   >   >   > Xorg +xinerama crashes immediately due to whacky dependency between Xinerama
  >   >   > and RandR12. The latter doesn't initialize if Xinerama is enabled, but if
  >   >   >   > only one screen is found, Xinerama is disabled again and RandR12 tries to
  >   >   >   > access data it never initialized.
  >   >   > I'd sure like to have RandR get enabled when xinerama doesn't; is there
  >   >   > an easy way of making that happen here? Perhaps having the RandR12 code
  >   >   > disable Xinerama when only one screen is found? Or some other kludge?
  >
  > you know the dependency better than I do so any hints are appreciated.
  > afaict, the screenInfo.numScreens (the check used by Xinerama) isn't
  > necessarily initialized at this point so we can't use the same check.
  > The following seems to work though:

From 670b3ebdb7312a6433a8f093d0820785db2aea20 Mon Sep 17 00:00:00 2001
From: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon, 14 Dec 2009 11:00:58 +1000
Subject: [PATCH] xfree86: if only one screen was found, disable Xinerama (#24627)

Xorg +xinerama crashes immediately due to whacky dependency between Xinerama
and RandR12. The latter doesn't initialize if Xinerama is enabled, but if
only one screen is found, Xinerama is disabled again and RandR12 tries to
access data it never initialized.

Dependency chain is:
- ProcessCommandLine sets noPanoramiXExtension to FALSE
- xf86RandR12Init() is a noop
- PanoramiXExtensionInit sets noPanoramiXExtension to TRUE
- xf86RandR12CreateScreenResources tries to use the devPrivates key it never initialized.

This hack checks if there's only one screen at the time RandR12 is initialized. If so, we expect Xinerama to fail anyhow so we disable it ourselves and proceed as planned.

X.Org Bug 24627 <http://bugs.freedesktop.org/show_bug.cgi?id=24627>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5f898ddbaa7df01d2479e40238d8c7954fc4b67a
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Dec 11 17:04:14 2009 +0200

xfree86: fix -quiet option behaviour

Previously it was trying to set the same value as the default one. Sigh.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acknowledged-by: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7284e198619cdacb38d0ad715e932acff86c8367
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Dec 11 17:04:13 2009 +0200

os: print log markers only if log level is >= 0

FWIW default log verbosity is 0, so this will affect only if one start the server with a different -verbose argument.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acknowledged-by: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f57240a0a8c05e0a2589d0127f8888d8b140d6974
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Dec 11 17:04:12 2009 +0200

xfree86: spam output but with verbose level checked instead

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acknowledged-by: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fbdf493a3e7e48039a0826531e11aa33b04bf391
Add freetype & type1 to the LoadModules ignore list

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit c9726bbe3148c7a8adb4dfde483741545d59c3dc
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 15 15:54:22 2009 -0800

Update Sun license notices to current X.Org standard form

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d50319550458f8127298cf8672b47f914b74ab1f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Dec 11 16:42:43 2009 -0800

Xfake: Nuke -Wl,-undefined=InitExtensions from LDFLAGS

This is not portable, and according to Paulo should not be required any more.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit ed7d2527190ec56aed38db19d9e958abe88441b9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Dec 11 11:53:28 2009 -0800

dtrace: Add Xserver-dtrace.h to CLEANFILES

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
Reviewed-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 44f102ed64e2552a0e04714c7574f74ca5ee66e2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Nov 23 22:24:44 2009 -0800

COPYING: Update license preamble

Update the comment about "a modification is currently under discussion"
since there hasn't been any such discussion for some time and this is
the consensus agreed upon preferred format.

Also throw in a pointer to the OSI discussion page about the MIT license.
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00a7252fe3e519e3e4d62cdd8746833ca59bce77
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Nov 20 13:38:30 2009 -0800

Fix dtrace object builds of libos to link with SHA1_LIBS

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit dd2c83d03cecedee8b546d583e436c12f92510754
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Nov 11 14:42:20 2009 -0800

Fix builds with --with-int10=stub

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Adam Jackson <ajax@redhat.com>

commit 77221e9155a3e96cb63b210a048db1ea71a5e359
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 29 14:01:29 2009 -0400

glx: swrast can do GLX 1.4 too

Reviewed-by: Ian Romanick <ian.d.romanick@intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a72c65e9176c51de95db2fdef4c5d946a4911695
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 2 08:37:20 2009 -0800

fb: Adjust transform or composite coordinates for pixman operations

Windows (or even pixmaps, in some cases) may not sit at the origin of the containing pixmap, so any coordinates relative to the drawable must be adjusted. For destinations and untransformed sources, the operation coordinates are adjusted. For transformed sources, the transform matrix is adjusted.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Soeren Sandmann <sandmann@daimi.au.dk>

commit bd567061c8b84b268d9b9b01bc4d8981feefb862
Split fbGetDrawable into fbGetDrawablePixmap and fbGetPixmapBitsData

These two sub-macros each perform half of the original macro work and the old macro is now implemented in terms of the new ones. This makes way for new code which wants to know the underlying pixmap for a window instead of just getting a pointer to the bits.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Soeren Sandmann <sandmann@daimi.au.dk>

commit 61335052972a78d67c0ba74f902273b34c63a198
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 1 11:09:32 2009 -0800

Revert "Fix clipping when windows are used as sources"

This reverts commit e9aa61e9f0d663d5b34a397b943b4d1df44e873d.

Conflicts:
   fb/fb pict.c

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Soeren Sandmann <sandmann@daimi.au.dk>

commit 071b3c1810d9f2602173acc8578caac20e0b771e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 1 11:05:04 2009 -0800

Revert "Use IncludeInferiors when copying windows before compositing."

This reverts commit 7c7f0c2c6a04f7044d5ce69e97a615735e5831f1.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Soeren Sandmann <sandmann@daimi.au.dk>

commit 8e640d6b131d2865a9725d8997023865b0ef3d69
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 1 11:04:49 2009 -0800

Revert "Reserve space for two GC values in copy_drawable()."

This reverts commit 08df24555cb432eb0d90a3f63275e9485e777c4c.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acknowledged by: Soeren Sandmann <sandmann@daimi.au.dk>

Commit 0816c5482c25251da8af5978cc348e1c547bf731
Author: Keith Packard <keithp@keithp.com>
Date: Tue Dec 1 11:04:06 2009 -0800

Revert "fb: Don't crash if copy_drawable() returns NULL."

This reverts commit 66a9616d645f5a23225251d197e00b94c79274f6.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acknowledged by: Soeren Sandmann <sandmann@daimi.au.dk>

Commit d3e054ac07da12a82ad764b0622fddbef4b9ec5
Merge: 12fb31815d97a6454ea5
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 11 09:22:22 2009 -0800

Merge remote branch 'jeremyhu/master'

Commit 12fb31815db9de9c01f2d4155a2b74531777c0bf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 7 12:58:57 2009 +1000

xkb: don't assign garbage value to led_return.

As the comment for the function states, led_return is undefined if map is
NULL. We might as well skip writing to it then.

Found by clang.

Reported-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Jamey Sharp <jamey@minilop.net>

Commit ea14a418214ba4c58910f5650d8b25b3fc3a7099
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Dec 3 11:21:31 2009 +1000

Xi: reset device properties to NULL after deleting them. (#25374)

Commit 0ef6ceee853d8e5bef3274e632ef034d37f14674a9 introduced cleanup code to
remove the accel properties when switching schemes. The same code is
triggered by the default closedown code but only after unconditionally
removing all device properties (as part of the cleanup). The properties,
although deleted never got reset to NULL.

X.Org Bug 25374 <http://bugs.freedesktop.org/show_bug.cgi?id=25374>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Andy Furniss <lists@andyfurniss.entadsl.com>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 9ac6a048efaec51f158bbbc1a4a3f448cbe5658ad
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 9 11:43:34 2009 +1000

xfree86: remove unused variable in configureDDMonitorSection.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Dave Airlie <airlied@redhat.com>

commit 3fad969a90ccab604359ec4de05e745bb4b909e1
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Dec 6 20:27:06 2009 +0100

Move config_init() after CreateWellKnownSockets() and InitCoreDevices()
config_init() can now add devices directly instead of scheduling a
timer.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 886140787852c660978a9bb3abc7cc2702cbaed1
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Mon Dec 7 05:54:57 2009 +0100

Fix possible NULL dereference in XkbFlushLedEvents()
Through some code paths it is possible that NULL is being passed in the
'ed' parameter to XkbFlushLedEvents(). Make sure we don't pass it along
to bzero().

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 92d9cb7e1340b259294ba317ea3a7d18487498b5
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Sun Dec 6 23:52:54 2009 +0100

XkbWriteCountedString(): return early if str is NULL
This avoids NULL from being passed to memcpy() later in the code. While
that wasn't an issue before - that value being NULL implied 'size == 0'
so memcpy() wouldn't try to dereference it - it made the code harder
to read and also confused clang.

Signed-off-by: Tomas Carnecky <tom@dservice.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit df2635d4644d1fa2772ff58d8d34cfd788ece412
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Thu Dec 10 00:04:53 2009 +0100

EXA/mixed: Don't consider devKind for detecting dimension change.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=25536.

There should be no reason for the pitch to actually change when none of the
other dimensions do, and this could lead to incorrectly freeing the system
memory copy when allocating a GPU copy, resulting in loss of valid pixmap
contents.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 97a6454ea57587db490873fee8ff0f899882972d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 9 18:27:31 2009 -0800

XQuartz: pbproxy: Fix building of standalone xpbproxy executable

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 1b8f90aa8b1017c74b254dbc2f398131b857323d4
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Dec 8 15:50:28 2009 -0800

Miscellaneous compilation warning fixes

main.c:134: warning: no previous prototype for 'dix_main'
rootlessScreen.c: In function 'RootlessMarkOverlappedWindows':
rootlessScreen.c:434: warning: function declaration isn't a prototype
backtrace.c:51: warning: format '%lx' expects type 'long unsigned int', but argument 5 has type 'int'
backtrace.c:54: warning: format '%lx' expects type 'long unsigned int', but argument 5 has type 'int'
set.c: In function 'RecordSetMemoryRequirements':
set.c:413: warning: old-style function definition
set.c: In function 'RecordCreateSet':
set.c:425: warning: old-style function definition
stub.c: In function ‘main’:
stub.c:236: warning: ISO C90 forbids mixed declarations and code

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 955b9f23a34cc79a5cd9676b45b3df4fecz7302b
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Dec 8 20:25:02 2009 +0100

EXA: ModifyPixmapHeader_mixed fixes.

* Better detection of dimension changes.
* Make sure to re-create the system memory copy when the pixmap dimensions
  change (e.g. the screen pixmap on screen resize).
* Clear the valid regions.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c1503861cf765d4f77822e6f76487c47a0a395
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Dec 8 20:25:01 2009 +0100

EXA: ExaDoPrepareAccess return value fixes.

Only return TRUE if the GPU copy is being accessed, and preserve the return
value on repeated / nested calls for the same pixmap.

exaPrepareAccessReg_mixed could get inconsistent return values e.g. when the
same pixmap is both the destination and source of an operation, potentially
resulting in a crash.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Acked-by: Maarten Maathuis <madman2003@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fd867387335b6175d76b93118bbe5e1e45ce88
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Dec 5 03:18:31 2009 +0100

exa/mixed: pixmaps that succeed prepare access have no need for a cpu copy

- When they have a gpu copy of course.
- Use the presence of a cpu copy as a hint to fall back instead of UTS’ing in
  exaHWCopyNtoN.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
commit bb7ac9cfebc37869e2215c26791c6175a5a6e526
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Dec 4 08:37:14 2009 +0100

EXA: Use correct coordinate system for calculating Composite fallback region.

Fixes incorrectly skipped rendering of some Composite operations to windows.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0f4e7123d3e6e09e04dc55e8ed5447aef007648
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Dec 3 19:28:13 2009 +0100

exa/mixed: setting devKind before exaCopyDirty* is not needed

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8ea415d417b3ef6b8a288d10da76eff4be334e08b
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Dec 2 20:24:02 2009 +0100

Revert "exa: a few small pitch related changes"

This reverts commit 99d88ef69d5f7dbf99ca605eaceb92f42230a89f4.

- Some pixmaps under classic have a sys_pitch which is 0, no idea why. This is
  causing rendering corruption.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 98c8b752254a27ab1aa0f881b36b6f4a0f74929d0a
Merge: 0e08d8c71 91c1bd78f7
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Dec 2 15:28:07 2009 -0800

Merge remote branch 'whot/master'

commit 91c1bd78f7240c92702828f8e5a66b6ce944b9e36
configure.ac: error while checking for XDMXCONFIG_DEP

Introduced in commit 9998105a387e0294054502331a56e1e0cd93e4
The replacement third parameters to PKG_CHECK_MODULES([DMXMODULES]
was not quoted.

Signed-off-by: Gaetan Nadon <memsize@videotron.ca>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 761ae22f880bd79550ccf93d321b8a28b3755956
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 1 14:38:19 2009 +1000

xfree86: tell users to disable AutoAddDevices, not AllowEmptyInput.

Technically, disabling AEI is the right suggestion. AEI off forces the server to init the built-in defaults for input devices (or pick the first one from the config file). At the same time, hotplugging is still available with AEI off.

Unfortunately, in the vast majority of cases users want to simply disable hotplugging or have a working server while the local HAL configuration is broken or missing. Disabling AEI will lead to duplicate events, triple keystrokes, etc. once the configuration works again.
It's not actually required to remove AEI once hotplugging works again, though it will in many cases lead to a setup that appears broken.

Asking users to disable AutoAddDevices instead means those users disable hotplugging, can then fix the HAL setup and they _must_ remove the config line again to test if hotplugging works again. Which doesn't leave them with a broken config once everything is working nice and dandy. Less bugreports, everybody wins.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Rémi Cardona <remi@gentoo.org>
Acked-by: James Cloos <cloos@jhcloos.com>

commit b584c224a888e9e7f92d7e49021f74232a727c7f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 30 12:11:41 2009 +1000
Set the source and deviceid for key repeat events (#24785)

X.Org Bug 24785 <http://bugs.freedesktop.org/show_bug.cgi?id=24785>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Adam Jackson <ajax@redhat.com>

commit 66bb8c6fbdb00f0c0d971aac4e6f949bb9288c1b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 27 16:20:13 2009 +1000

dix: remove core devices when shutting down. (#25028)

NewInputDeviceRequest (and RemoveDevice) have checks in place to not allow
removal of the VCP/VCK. When shutting down, they need to be cleaned up
nonetheless to free the memory associated.

X.Org Bug 25028 <http://bugs.freedesktop.org/show_bug.cgi?id=25028>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 83d90b90bcb71c89750f92a177361e53dd261414
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 27 16:08:44 2009 +1000

dix: remove some obsolete comment.

The "counterpart to biggest hack" included checking for the motion history
function - which is unified in 1.7. Hence the check (which is already
removed) would evaluate to true anyway, and this comment isn't needed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit c20e8897272427cb3f755a3e28e80a9ad46f08a1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Nov 27 16:01:53 2009 +1000

dix: fix memory leak, free event list on shutdown. (#25028)

X.Org Bug 25028 <http://bugs.freedesktop.org/show_bug.cgi?id=25028>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 0e084d8c71e697a5cf5d5d7c749455ae14bd6eb7
Author: Luc Verhaegen <libv@skynet.be>
Xv: Fix AdjustFrame when driver implements ReputImage.

Should probably also be applied to stabler xserver branches too.

Luc Verhaegen.

Finally fixes fd.o #4653, filed more than 4 years ago.

Patch can be happily applied to all modular Xorg versions.

Signed-off-by: Luc Verhaegen <libv@skynet.be>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

XQuartz: Drop calls to alloca

This makes us more consistent with the rest of the codebase, using xalloc/xfree

Signed-off-by: Jeremy Huddleston <jeremyh@freedesktop.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

fb: Don't crash if copy_drawable() returns NULL.


Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

EXA: Don't defragment offscreen memory at allocation time.
Fixes http://bugs.freedesktop.org/show_bug.cgi?id=24300.

Offscreen memory allocation can occur from various places, and apparently doing defragmentation from at least some of them can confuse some driver acceleration code.

There's still the regular background defragmentation in the WakeupHandler, which should manage to keep fragmentation at a reasonable level.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0e555a1033e5deed1db8582ca075455a6a2d4228
Author: Michel Dänzer <daenzer@vmware.com>
Date: Mon Nov 30 13:17:51 2009 +0100

Revert "EXA: Accumulate arbitrary number of glyphs without flushing."

This reverts commit c11678cc189551f2a01eaa7a63969c16950739b4.

Not sure what I was thinking, turns out alloca() of a size derived from client input is a bad idea.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 99d88ef69d5f7dfb99ca605ecb92f42230a89fa4
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Nov 28 10:34:45 2009 +0100

exa: a few small pitch related changes

- Setting pitch before exaCopyDirty* is not needed.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a54c23fe647cb4d610d871094193ae5959606008
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Nov 28 10:34:44 2009 +0100

exa: s/PixmapIsOffscreen/PixmapHasGpuCopy and s/pExaPixmap->offscreen/pExaPixmap->use_gpu_copy

- Fixup some variable names as well.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
exa: handle pixmap create/destroy in lower layers

- Pixmaps that are created during a fallback are automatically prepared access.
- During the fallback accelerated ops are blocked to prevent new/scratch gc's from triggering accelerated ops on mapped pixmaps.
- A few cases of incorrect wrapping (on the top level pointer instead of between damage and (w)fb) have been removed.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
The property handlers are stored in the device's devPrivates and cleaned up. Ideally, the property handler ID's could be stored somewhere more obvious, but that seems to require breaking the ABI.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Simon Thum <simon.thum@gmx.de>

commit 1b127ab8429616adf9ec31ba4d8bdd9af6e104a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 24 15:31:48 2009 +1000

Xi: when deleting all properties, reset property handler to NULL.

Trying to unregister property handlers during the device closure process leads to invalid memory accesses.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 8806375ed72a3cd465fe0a49ead079a334accd6b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 17 09:25:47 2009 +1000

Move xdmxconfig modules into DMX conditionals (#25102)

xdmxconfig requires additional modules not checked for if Xdmx build is set to auto (the default). This may lead to build errors if the Xdmx modules are installed, but not the extra ones required for xdmxconfig.

X.Org Bug 25102 <http://bugs.freedesktop.org/show_bug.cgi?id=25102>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Remi Cardona <remi@gentoo.org>
Acked-by: Julien Cristau <jcristau@debian.org>

commit a2adda7ab3defd953cf0f48f5372efb037786a9e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Nov 19 16:35:55 2009 +1000

Revert "Move xdmxconfig modules into DMX conditionals (#25102)"

New package dependency unnecessarily links in a few libraries that Xdmx doesn't need. This can be fixed more elegantly.

This reverts commit 0ef15ca9d2d9c78e79a2771c550563bc6931b365.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit eb967ca36cfe0409972ac987a74d498cd6f6baf6
Author: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Date: Tue Nov 17 17:13:43 2009 +0200

Xext: Fix a memory leak on GE client disconnect.

Add a call to dixRequestPrivate to inform dixFreePrivates that memory allocated in GEClientCallback should be released when client disconnects. Otherwise there is a leak of sizeof(GEClientInfoRec) for every client connect/disconnect.

Also remove the explicit allocation and let GEGetClient / dixLookupPrivate do it. This makes GEClientCallback similar to the other extension callbacks.

Signed-off-by: Rami Ylimaki <ext-rami ylimaki@nokia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 55f60e192318132157d3dfdd6732f141bd9dc352
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Mon Nov 23 22:17:43 2009 +0100

Revert "exa/mixed: be more thorough about setting fb_pitch when needed"

This reverts commit d4fc245115eb2cb323e06a82f9dd52518d9b6a16.

- This is causing crashes/problems for some.

Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4677b5a80025b50ba2a3e953fd487a549586ae9f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Nov 23 16:33:00 2009 -0800

XQuartz: Allow better compatibility with older versions of xinit

If we are id="org.x" and the launchd socket is ":0", we will claim the socket to match the old behavior before we prefixed the socket name with our id.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit ec16357edaba23694b12fd234ffa12fd58a73dfa
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Mon Nov 23 17:00:06 2009 +0200
configure: remove unused kdrive Xvesa config variable

Xvesa was gone in commit 6d21fbf0 and this should be there as well.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a30e739a144912a68adcaa9f426d600c6ecbd529
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Nov 23 13:07:56 2009 +1000

Xi: don't crash when deleting invalid device properties.

Deleting a property that was not set on a device leads to a null-pointer reference. The protocol allows deleting those properties - it has to be a noop.

Reproducible:
  xinput --set-prop "My device" --type=int --format=8 "my property" 1
  xinput --delete-prop "My other device" "my property"

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 19f7c15e2008dab3c46ba3e14dafa353d01c74f72
Author: Zhao Yakui <yakui.zhao@intel.com>
Date: Fri Nov 20 14:43:35 2009 +0800

xfree86: Edid quirk for Philips LCD LP154W01

v1->v2: Make one condition case for one quirk instead of merging them together. This is based on the Keithp's suggestion.

Move the EDID quirk for Philips LCD LP154W01 as the panel reports the vertical size in cm.

https://bugs.freedesktop.org/show_bug.cgi?id=24482

Signed-off-by: Zhao Yakui <yakui.zhao@intel.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b8b8db98353760738eed612fe846e2ce1c174fa
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu Nov 19 10:46:30 2009 +0100

EXA: Don't use UploadToScreen for CopyNtoN with mixed pixmaps.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
commit d4fc245115eb2cb323e06a82f9dd52518d9b6a16
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Wed Nov 18 21:23:09 2009 +0100

exa/mixed: be more thorough about setting fb_pitch when needed

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>

commit 647b79f87a9891225678dc6fc2fbd3bdef8fa9d
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Wed Nov 18 21:23:08 2009 +0100

exa/mixed: avoid copying back pixmap data when no migration took place

- When the driver handles the prepare access no copying is needed.
- Delayed pixmap creation should be fine, because it's handled by the
first prepare access, but the exaPixmapIsOffscreen check in finish access
will return FALSE without a driver pixmap.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>

commit 30be7ceaf228497ac1ff0a1123c1b35e3aa1fc73
Author: Julien Cristau <jcristau@debian.org>
Date: Sat Nov 14 18:39:00 2009 +0100

xfree86: set a sane umask before opening the log

Xorg creates its log file following the umask of the user running
startx, which may result in a world-writable log. Set umask to 022 to
prevent this.

Debian bug#555308 <http://bugs.debian.org/555308>
See also http://thread.gmane.org/gmane.comp.security.oss.general/2299

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit fb95090730360b6b7f5429c40937e8fe9dfe5c14
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Nov 9 03:33:45 2009 +0000

Use glibc's in/out routines

Let's let glibc do the right thing for dense/sparse selection.
The _alpha_iobase code has been unused since the switch to libpciaccess. It really should have been killed by fba700f1f6a8976.

Signed-off-by: Matt Turner <mattst88@gmail.com>
Tested-by: Michael Cree <mcree@orcon.net.nz>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 0ef15ca9d2d9c78e79a2771c550563bc6931b365
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 17 11:48:35 2009 +1000

Move xdmxconfig modules into DMX conditionals (#25102)

xdmxconfig requires additional modules not checked for if Xdmx build is set to auto (the default). This may lead to build errors if the Xdmx modules are installed, but not the extra ones required for xdmxconfig.

X.Org Bug 25102 <http://bugs.freedesktop.org/show_bug.cgi?id=25102>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Adrian Bunk <bunk@stusta.de>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit df95be4d3d9a744720c37a16fd89d9569bf6e188
Author: Paulo Ricardo Zanoni <pzanoni@mandriva.com>
Date:   Thu Nov 12 11:27:34 2009 -0200

configure: change 'sigio-default' to 'use-sigio-by-default'

This was discussed in this thread:
The patch sent fixed the help string but not the configure option.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 801f0e59800ea4a3f6e85b22dea6f2c400bda703
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Wed Oct 28 14:09:11 2009 -0400

INSTALL, NEWS, README or AUTHORS files are missing/incorrect #24206

Add missing INSTALL file. Use standard GNU file on building tarball
README may have been updated
Remove AUTHORS file as it is empty and no content available yet.
Remove NEWS file as it is empty and no content available yet.

Reviewed-By: Jeremy Huddleston <jeremyhu@apple.com>
Deploy the new XORG_DEFAULT_OPTIONS #24242

This macro aggregate a number of existing macros that sets common
X.Org components configuration options. It shields the configuration file from
future changes.

Reviewed-By: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Makefile.am: ChangeLog not required: EXTRA_DIST or *CLEANFILES #24432

ChangeLog filename is known to Automake and requires no further
coding in the makefile.

Reviewed-By: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

.gitignore: use common defaults with custom section #24239

Using common defaults will reduce errors and maintenance.
Only the very small or inexistent custom section need periodic maintenance
when the structure of the component changes. Do not edit defaults.

Reviewed-By: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

XQuartz: Explicitly pass a bellProc to make XBell() work again.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
XQuartz: pbproxy: Wait for the server to finish starting up, so display is valid.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 15fc56addcc906592af7c0f4c0a5ac906fa5c389
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Nov 8 20:25:42 2009 -0800

XQuartz: Buildfix for Leopard and older

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit b5aa2e0a5fe233dc883084a5026013472e85bca4
Author: Chase Douglas <chasedouglas@gmail.com>
Date:   Mon Nov 9 22:54:39 2009 -0500

Move FD_CLR above pInfo->read_input

The event fd may be invalidated by the pInfo->read_input call. If it is
invalidated, the subsequent FD_CLR call will segfault. Thus, the FD_CLR
call must precede the pInfo->read_input call.

Signed-off-by: Chase Douglas <chasedouglas@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 982f6648fd29d085265bf6035c1bf4d1b2499316
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Nov 10 09:50:50 2009 +1000

dix: increase default number of buttons to 10.

Currently the XTEST device is limited to the same number of buttons the core
device has. This breaks if a user has a mouse with more than 3 buttons
connected and is using a core client to fake button 8+ presses.

Rather than expecting all clients to fix themselves, just increase the
default number of buttons to 10, which is somewhat a compromise. Ideally,
the XTEST devices should adjust themselves to the highest number of buttons
available on the slave devices (like the master pointers already do), but
that's a taks for another day.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit ec5417b965616e60b51466fe9fd2b44cb5abb349
Author: Jon TURNHEY <jon.turney@dronecode.org.uk>
Date: Sun Jul 12 23:58:32 2009 +0100

Cygwin/X: Ensure WM_STATE atom exists in multiwindow mode

Workaround a bug in iiimxcf (assuming the WM_STATE atom exists),
which can cause many Solaris clients to simply fail with a BadAtom
error

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit aa860552fd7e2888258a7b48b8e3bd4af527dc6c
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sun Nov 1 18:19:08 2009 +0000

Cygwin/X: Enable clipboard integration by default

Enable clipboard integration by default, can be turned off with -noclipboard.
We still accept -clipboard for backwards compatibility. If both are passed,
the last one is accepted (just as other arguments are handled).

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>

commit 87b00ced3d308a9168828c0e38ecca0640621a0
Author: Jon TURNHEY <jon.turney@dronecode.org.uk>
Date: Sun Nov 1 18:18:48 2009 +0000

Cygwin/X: Setup screen layout in Xinerama mode

Setup screen layout according to the screen window native window
positions in Xinerama mode

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0fe2e8e64e7a5a9140c77b88b266d7ae58b0bca2
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Sun Nov 1 18:18:31 2009 +0000

Cygwin/X: Allow composite to be enabled for Xwin

Signed-off-by: Jon TURNHEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 26a69bbd9b6f415c443d66f8f450329f348edc3
Cygwin/X: Mount options have changed in cygwin-1.7

Mount options have changed in cygwin-1.7

Also fix a typo in the warning issued if /tmp is a textmode mount

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 35901ece6a49e5f8e245364e27723da2f9009a1d
Author: Paul Loewenstein <paul.loewenstein@gmail.com>
Date:   Sun Nov 1 18:18:45 2009 +0000

Cygwin/X: Handle fake keypresses generated by speech recognizers

Apparently, fake keypresses generated by speech recognizers may not bother
with a scan code, so look up what scan code corresponds to the virtual key
code if this occurs.

Patch by Paul Loewenstein <paul.loewenstein@gmail.com>

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 0866322b574b1f3695467535ed5fa8f9e629ad1d
Author: Jon TURNLEY <jon.turney@droncode.org.uk>
Date:   Mon Jul 13 13:46:45 2009 +0100

Cygwin/X: Always use an authorization cookie for internal clients

Don't conditionalize use of an authorization cookie for internal client
threads on XCSECURITY, always use one (this avoids certain problems
with XDMCP setups where the XDMCP host removes localhost from the access
list etc.)

Conditionalize the use of a XCSECURITY authorization descriptor on XCSECURITY

Consolidate the various places where the authorization cookie is set
for internal threads into a new function, winSetAuthorization()

Use authorization cookie for multiwindow WM X message thread as well

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit 72f81f4e449defb0654e9bdb2c9ec014475a3977
Xming: Make -auth option work in with -multiwindow

Use an internally generated cookie for authentication of the internal window manager client when using the -auth option in -multiwindow mode.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 6dbf8f27c885ea3a761548183f0b0ba3df2df553
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Tue Jul 21 01:15:25 2009 +0100

Xming: Tidy up code for initial native window positioning

Tidy up code for initial native window positioning and avoid a duplicate call to winMultiWindowGetTransientFor()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 28eb61fc04811bb9bb523e0a252933313bb16ce
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sun Nov 1 18:19:14 2009 +0000

Avoid a null dereference if IFF_BROADCAST is set but there is no broadcast address

It seems that the getifaddrs() function can return interfaces with IFF_BROADCAST & IFF_UP set, but no broadcast address (at least under Cygwin 1.7, this seems to happen for v6 mapped v4 addresses)

Avoid a null dereference if this ever happens

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 091cbbaed7aafab6f9839a40fe977ab067d1ace1
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Mon Oct 12 13:40:11 2009 +0100

Xming: Fix UT8String and CompoundText clipboard text sharing with windows clipboard

XConvertSelection() in libX11 always returns 1, so there is no point in testing it incorrectly against Success. This is possibly a bug in
XConvertSelection()

This should fix UTF8String and CompoundText selection via the clipboard.

Signed-off-by: Jon TURNELY <jon.turney@dronecode.org.uk>

commit 9657eae5d65eff289089afc46dfb629758ebbd7
Author: Jon TURNELY <jon.turney@dronecode.org.uk>
Date:   Sun Nov 1 18:18:51 2009 +0000

Cygwin/X: Clearly diagnose a timeout while waiting for SelectionNotify event

Clearly diagnose a timeout while waiting for SelectionNotify event
in the clipboard integration internal client.
(which seems to be behind some of the reported failures)

Turn useless #if 0/ErrorF()/#endif into useful winDebug()

Signed-off-by: Jon TURNELY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 062f49a8e0d1afb4dd32e9451a47ab2792639e7f
Author: Jon TURNELY <jon.turney@dronecode.org.uk>
Date:   Wed Nov 4 17:36:54 2009 +0000

Cygwin/X: Add a workaround for a SWT/Motif bug to internal window manager

SWT/Motif expects all top-level windows to get reparented, and waits until they
do. So workaround that in our internal WM by forcing a reparent event to
occur, even though we don't actually need to reparent the window to
frame it (as the frame is a native window, not an X window)

http://sourceware.org/bugzilla/show_bug.cgi?id=9848
https://bugs.eclipse.org/bugs/show_bug.cgi?id=36806

Signed-off-by: Jon TURNELY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 71519a572fe15b85c0eb2b02636c9e871f2c858f
Author: Jon TURNELY <jon.turney@dronecode.org.uk>
Date:   Wed Nov 4 17:34:40 2009 +0000

Cygwin/X: Fix typo in g_fAnotherWMRunning and tidy up WM detection code

Tidy up code for detecting another WM is already running
Fix typo g_fAnotherWMRunning -> g_fAnotherWMRunning
Remove some unused event mask macros
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit f3fad371ccee0f3836514ad5b29e59fa1ca0627a7
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Nov 4 15:33:53 2009 +0000

Xming: Add FORCEEXIT option to configuration file

Add a new option to configuration file: FORCEEXIT, like SILENTEEXIT but ignores the client count. Unsaved client work may be lost with this option but it is useful if you want no dialogs.

Add description of this new keyword to XWinrc man page

Also fix grammar of the exit confirmation dialog warning to be correct when there is only one(1) client connected.

Also rearrange yacc tokens to one per line to make future merges easier

Also amend default system.XWinrc so that SILENTEEXIT is on by default

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 019a601de6a8ae083852c2d384c814dce7ae7e72
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Nov 4 15:16:03 2009 +0000

Xming: Add mouse motion events with flag POINTER_SCREEN in winEnqueueMotion()

Add mouse motion events with flag POINTER_SCREEN in winEnqueueMotion(), as they are in screen coordinates and may need to be scaled to the axis range appropriately

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 7af1240b57daa4ec55512276a9fda499d923eaa0
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Nov 4 14:20:17 2009 +0000

Xming: Replace all the uses of deprecated functions in hw/xwin with current ones

Replace uses of LookupIDByType() and SecurityLookupIDByType() with dixLookupResourceByType()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
commit 2a38f7c0d1bce890e6408ee143d77719f265d583d
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Jun 19 21:12:55 2009 +0100

Cygwin/X: Remove a couple of extraneous 'n' in logged version info

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 56658fc06cb773ed20ef1b23a3f9e918c0d3b36bb
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Oct 15 22:40:02 2009 -0500

Set default font path with fontutil 1.1 and fontpath.d

Look for $sysconfdir/X11/fontpath.d and, if it exists, set it to the
default font path as a catalogue: entry. Based on app/xfs commit
c66a46e35ae40a23ad9ace838ab42300eddbd67.

Otherwise, use the font-util 1.1 macros to determine the system
fontrootdir and standard subdirectories, or let the user configure it
and the subdirectories themselves.

This adds a build-time (or at least an autoconf/autogen time) dependency
on font-util, and changes the --with-fontdir argument to --with-fontrootdir.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Reviewed-by: Alan Coopersmith <alan.coopersmith-xsfyfwfIY+M@public.gmane.org>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit c7d1319872e0ae0b7d945e9af8c4027ee5aa2055
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 9 11:12:22 2009 -0500

randr: Fill in errorValue when verifying outputs/crtcs/modes

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d85ab6b6483d6ca7d9d22298d05ed1fa3076b042
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Oct 13 10:15:00 2009 +1000

loader: actually stat something that has some chance of existing. (v2)

FindModuleInSubdir seems to expect a / at the end of the subdir its
finding for, so we add the / early, the stat will fail if its
not a subdir, I'm leaving the S_ISDIR in just in case there is another
reason it could return 0. This does look a bit silly in strace
but it seems to work fine.

I have a very intermittent issue where drivers loses its / that
I've been seeing on/off for a while, this may or may not fix it.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a5e59230de3abafda9cd9d571cea192897155a14
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 5 13:44:30 2009 -0800

randr: Turn on ModeDebug during server setup

Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c61e77c77ca309f3676370992f41867807ed0c67
Author: Matt Turner <mattst88@gmail.com>
Date:   Thu Nov 5 22:40:03 2009 -0800

Remove lnx_font.c and lnx.h

I couldn't find any version of the X xserver that ever used lnx_font.c
so let's delete it. I tried contacting its author, Egbert, multiple
times on IRC and email [*] but never got any response. It also hasn't
been seriously touched since January 2005.


Signed-off-by: Matt Turner <mattst88@gmail.com>
Reviewed-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 15ffe9f51b122494a2b292b3ab1f199d3e81600c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Nov 5 18:28:28 2009 -0800

configure.ac: Notify user about which SHA1 implementation is being used

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 6b109919f6e1593b27b0760bb56a65b43fb86ea4
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Nov 5 18:13:07 2009 -0800

SHA1: Add support for Common Crypto
libSystem on darwin can handle SHA1 computation without needing to pull in OpenSSL. See CC_crypto(3)

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 840a68dc5e3b4d285894f86df2a8c41fca5a4bec
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 4 18:39:16 2009 -0800

XQuartz: Cleanup X11Controller.m compilation warnings.
Declare X11Controller as implementing NSTableViewDataSource.
Use selectRowIndexes:byExtendingSelection instead of selectRow:byExtendingSelection

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 0e3ad44c3b05cbe7b1d8f5ce7949fec3c7ae2c7c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 4 18:15:08 2009 -0800

XQuartz: Use dixLookupResourceByType instead of LookupIDByType

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 069fc6ce0a0e7f2e418e11941568ffcc52b6b331
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 4 16:18:06 2009 -0800

XQuartz: Don't weed out duplicates in generated keymap
There seems to be an issue in the 1.5+ server where shift-space does not produce a space when 'keycode 57 = space' but it does when 'keycode 57 = space space'

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 6d6e8fb27f00f0c3128ce6f624b39a60aa754fde8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 4 13:34:20 2009 -0800

XQuartz: Controller thread launches clients
This avoids a memory leak due to no active auto-release pool on the server thread.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit f7b375bd141d0cf1e3add5443a5838dd8f554ef6
Enable XF86PM on all Solaris platforms, not just x86/x64

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit f77262513ea17401092479e17ad20fc0eb91ffbe5
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Nov 5 11:42:33 2009 -0800

Use $(MAKE) instead of "make" to build Solaris inline assembly

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 964040764387d89ef64324cfbee31872ee6ce41c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Wed Nov 4 15:35:37 2009 +0200

EXA: Preserve pPixmap->devPrivate.ptr in exaPixmapIsOffscreen_driver

It crash the server when the drawable is 32 bit and the framebuffer is 16.

This is pretty much a copy-past from commit 8e873185.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7442f3355ab8f0bb2b1a270da18c65d8d315d4dd
Merge: 0573042cdd7897b6c2d4
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 4 08:55:20 2009 -0800

Merge remote branch 'jeremyhu/master'

commit 0573042cddb6f9942e408687a16c6842e62a8bfa
Author: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Date: Wed Nov 4 15:59:30 2009 +0200

dix: Fixes a memory leak when a cursor resource is released.

Just open and close a client that creates cursors in order to reproduce. In the problem case bits->refcnt is -1 and therefore bits->devPrives is never released.

Signed-off-by: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7897b6c2d41bcb72c19418674c3526eec29515
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 27 18:00:48 2009 -0700

dix: Properly detect if the other device is frozen

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>

commit 5e79976c13c5b94b12392b493846ca26be11750b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 3 16:35:27 2009 -0800

XQuartz: Run xmodmap after programatically updating the keymap.

Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
Signed-off-by: Martin Otte <otte@duke.edu>

commit 412c56ef3332d09efbd861e41c3e985f44729729
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Nov 1 22:08:40 2009 +0100

exa: remove some outdated comment

- This comment is still in exa_driver.c and there it makes sense.

Signed-off-by: Maarten Maathuis <madman2003@gmail.com>
Acked-by: Michel Dänzer <michel@daenzer.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 48b8c076a7b7dbbdfc472e8e65251a0b174cbe
Author: Matthieu Herrb <matthieu@laas.fr>
Date:   Mon Nov 2 11:11:24 2009 +0100

add libc as a choice for SHA1 implementation

On Sun, Nov 01, 2009 at 02:54:13PM -0800, Keith Packard wrote:
> Excerpts from Matthieu Herrb's message of Sun Nov 01 09:34:35 -0800 2009:
> 
> > +AC_CHECK_FUNCS([SHA1Init], [HAVE_LIBC_SHA1=yes])
> >
> > I'd suggest AC_CHECK_FUNC instead; as far as I can tell, AC_CHECK_FUNCS
> > will also define HAVE_SHA1INIT. Also, can you use HAVE_LIBC_SHA1
> > consistently rather than having two separate names (HAVE_LIBC_SHA1 and
> > HAVE_SHA1_IN_LIBC)? Yes, I know one is a preprocessor symbol and the
> > other is a cpp shell variable, but I think that will work anyway.
> >
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35344

New version taking you comments into account.

From: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun, 1 Nov 2009 18:19:27 +0100
Subject: [PATCH] Add a probe for SHA1 functions in libc in *BSD.

The interface is the same as the one in libmd.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit da923d0bc15e99a8ed1986bd6f5f37f7af7284b
Author: Matt Turner <mattst88@gmail.com>
Date:   Sun Nov 1 14:30:48 2009 -0500

Make sys.c use unaligned access functions provided in compiler.

Favorite deleted line was definitely
        /* to cope with broken egcs-1.1.2 :-(((( */

Signed-off-by: Matt Turner <mattst88@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d30637339963950910e5f5fb755b8465ac7dddb4
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu Oct 29 11:46:22 2009 -0700

Supply all code using dl*() with DLOPEN_LIBS

Previously DLOPEN_LIBS was managed in top-level configure.ac.
Instead bundle it with the code using dl*() functions to
avoid breakages in uncommon configurations.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ec98d7fc78efefcf9fc61492529157c0d289c3f2
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 21 10:23:16 2009 -0400

EDID: Extend the HDTV hack to handle "1368x769"

Hate televisions so much.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7e0803f555782dbf451b7c79112d7deae02e5c9f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 28 15:44:37 2009 -0400

modes: Fix duplicate detection, and do it more consistently

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit ba2d39dd5428cb5922b797a1d4ea45b859412b40
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 26 15:10:30 2009 -0400

modes: De-duplicate a clock range check.

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 25236d19e6ef07fch2c71569f1b7b0c12810834a
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 26 14:49:57 2009 -0400

EDID: Fix interlaced detailed timings to be frame size, not field size

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fb86433d897c116315cc7994390d11ac2f577511
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Oct 26 14:04:23 2009 -0400

modes: Decorate interlaced mode names with a trailing 'i'

Signed-off-by: Adam Jackson <ajax@redhat.com>

commit fc2ec95664d55f45f77f1ebb039a7c17a1fcdaa3
Author: Ma Ling <ling.ma@intel.com>
Date:   Wed Feb 18 17:41:26 2009 +0800

EDID: CEA extension support

Reviewed-by: Adam Jackson <ajax@redhat.com>

commit fab74d1081270fb8f1d231e6e10d10aa33e164da
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Oct 28 17:48:19 2009 -0700

Suppress certain GCC warnings in auto-generated code.

- Don't warn for references to deprecated functions in xorg_symbols.
- Ignore functions generated by gl_apitemp.py that are never used.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 239435875d6a92ed31731b500a992a3af0943594
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Oct 28 17:48:18 2009 -0700

Don't cast double to int: use default conversions or explicitly round.

GCC warns about casting a double return value to int.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit e8c48fd8f7aab54327b0091cd17c60235ae27168
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Oct 28 17:48:17 2009 -0700

Suppress GCC warnings like "the address of `ul' will always evaluate as `true'".

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 662594aeff9d1767316f08600949c73ac5060d18
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Thu Oct 29 00:40:48 2009 +0600

kdrive: Grab evdev mouse/keyboard devices when X server is active

Input events are directed to both vt and input devices by default.
Unless input devices are grabbed, keyboard events fill vt buffers
and cause spontaneous wakeups in kernel tty layer when buffers are full.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 83d520d86c888f2c8a4abb18b7a8858d568aa18f
Author: Jamey Sharp <jamey@minilop.net>
Date:   Wed Oct 28 16:45:44 2009 -0700

Add video driver flag to indicate that console access is not needed.

Existing video drivers will get the console enabled by default.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 25979c46b467847ccb54f5c86a1be6b9c303e99a
Alloc/free drawables array for each ProcPanoramiXShmGetImage call.

Updates my previous patch, b422b532f3dcaab54c536f61a66f2ad76059d1874a. keithp recommended against allocating the drawables array globally, but my updated patch with that fixed isn't the patch that landed.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

xfree86: Fix description of DDC_QUIRK_DETAILED_USE_MAXIMUM_SIZE

The message ending up in the log is misleading as to what the quirk actually does: It ignores the sizes in the detailed timings and replaces them with the display "Max Image Size".

Signed-off-by: Tormod Volden <debian.tormod@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

os: Add libsha1 as a choice of SHA1 implementation

There are small systems which don't need OpenSSL or gcrypt. Add libsha1 (http://github.com/dottedmag/libsha1) as an alternative small SHA1 implementation.

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

Add missing DLOPEN_LIBS to kdrive compilation flags

Xfbdev failed to build due to dladdr being used by xorg_backtrace. Explicitly add DLOPEN_LIBS to KDRIVE_LIBS as there does not seem to be a better place for it.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Signed-off-by: Mikhail Gusarov <dottedmag@dottedmag.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit deb72fc61464250af8185dab2da8ee09f13c55d8
Merge: 55f4c80a4c a60e676f1f
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 28 10:54:13 2009 -0700

    Merge remote branch 'jcristau/sha1'

commit 55f4c80a4c891b355a99e6a05978ca945397c5cc
Author: Hans Nieser <hnsr@xs4all.nl>
Date:   Wed Oct 28 06:59:40 2009 +0100

    Xinput: allow non-integer values again for Constant- and AdaptiveDeceleration

    This was initially fixed by commit 3932a848572f4eaf8b7f1d91d9b74aeafab069a2
    but then (presumably not intentionally) undone by commit
    1d54479cb3c8b4f75b756f48b5e1c5da940b20f4.

    Signed-off-by: Hans Nieser <hnsr@xs4all.nl>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 50a5c32430a5267f2a05656d2417f9a8a44d8b97
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Fri Oct 23 19:32:42 2009 +0100

    dmx: Correctly compute DMXGetScreenAttributes reply length

    Correctly allow for excess length of DMXGetScreenAttributes reply
    over standard 32 byte reply in addition to the displayName string
    when computing the length of reply

    http://bugs.freedesktop.org/show_bug.cgi?id=24685

    Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9a2f6135bf8b0f12ec28f304e97917d2f7c64db05
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 23 10:04:57 2009 +0900

    DRI2: Report the correct extension minor version

    Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>
commit d886008c96cd16f735f54dace070cb00b23c6f44
Author: Marcin Baczyski <marbacz@gmail.com>
Date:   Thu Oct 22 14:43:25 2009 +0200

    Kill compilation warnings.

    Signed-off-by: Marcin Baczyski <marbacz@gmail.com>
    Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 15b30fde179c93877182cd51b0f8070ef29ffae
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 22 17:29:01 2009 -0400

    dix: Fix up colormap fixup.

    FindClientResourcesByType() will walk all colormaps on all screens; we
    only want to fix up the current screen. Otherwise, screens > 0 will
    have the visual pointers for their colormaps pointing off into space.

    Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 3785475a78636eb6547ef9e46be9e009c7cf7800
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 23 09:03:39 2009 +0900

    Bump to 1.7.99.2 (unreleased)

commit 909df9beb3ddd02632f36ae682537280a6a8e5b4
Author: Jon TURNER <jon.turner@dronecode.org.uk>
Date:   Tue Oct 20 12:57:05 2009 +0100

    Resolve an inconsistency between libX11 and Xserver over GetModifierMapping

    libX11 ModMap.c believes that GetModifierMapping can never return an error

    Xserver devices.c believes that GetModifierMapping can return an error if
    the ModMap couldn't be generated

    According to the protocol document I have, libX11 is right, so adjust the
server to send back an empty modmap if one couldn't be made...

    http://bugs.freedesktop.org/show_bug.cgi?id=24621

    Reviewed-by: Peter Hutterer <peter.hutterer@who-t.net>
    Signed-off-by: Keith Packard <keithp@keithp.com>
commit 9c48862ac11c119b6efb7e376533f53af6a857f4
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 22 01:12:03 2009 +0900

Bump version to 1.7.99.1

This is a development snapshot for 1.8.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 26f4d8a2c126f06c4be0b06842cd89c9d9dd4aa
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 22 01:04:42 2009 +0900

Make sure dmx docs are built for distribution.

Ok, dmx docs are driving me slightly nuts. We probably shouldn't include the built versions in the tarball, but we do, so this is an attempt to make that work by having both the 'all' and 'dist' targets depends on the doxygen output.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4114854893ff57a1be525ec099a4b33e5f9963b1
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 22 00:17:37 2009 +0900

Don't attempt to build hw/kdrive/sdl/Makefile anymore

With sdl removed, there's no way to build the sdl Makefile.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4d333c5121818754356853724333eadec2dcd18c
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 22 00:16:12 2009 +0900

Always check for doxygen so that distcheck gets dmx docs

make distcheck wants the built dmx documentation so that users don't have to install doxygen. This means that even if dmx isn't built, the docs need to be so that the tarball can include them.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7e92bac5f769aca99bd20e21fe2811f0480b0647b
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 22 00:00:35 2009 +0900
Make sure HAVE_DOXYGEN is defined when not building dmx

The DMX docs are build using doxygen if present, so configure.ac checks to see if that is available. However, when not building dmx (the default), this conditional must still be defined to make automake happy.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1228e2d052f0bb98175c55c194340773b5f6db40
Merge: 08e7f62faf 52bc6d9449
Author: Keith Packard <keithp@keithp.com>

Merge remote branch 'whot/master'

commit 08e7f62fafa772540cb3a6f1023024c145f7fa1a23
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 21 16:46:55 2009 +0900

Fix 'distcheck' to use host xkb files but install to build dir

'make distcheck' needs to read xkb files and write out compiled versions as a part of the 'make check' phase. This patch passes suitable options to the configure stage of the distcheck process to read xkb files from the system location and write them to the distcheck _inst directory.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 52bc6d944946e66ea2cc685f8ae640bb496e83
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 16 11:03:09 2009 +1000

kdrive: Purge Xsdl

From the original Xsdl commit:
"sdl x server so that we can x-on-x the fb stuff for ease of debugging. if anyone uses this in production, a big scary monster will eat them.
hrm, perhaps i should make it have a --i-know-what-i'm-doing param that it doesn't start without, heh"

That should be reason enough to not spend time maintaining it. Also, no more elephants.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
dmxDestroyWindow() - must call the X's native DestroyWindow()

Don't really know why this section was disabled, but without it, certain picture resources do not get free'd until later in the FreeClientResources() process after the screen has been free'd - resulting in seg fault.

With this patch, all resources normally free'd using vanilla X are now also being freed correctly by Xdmx.

https://bugs.freedesktop.org/show_bug.cgi?id=24576

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 664a8e37fd83141974b772980f680b94e48b4f87
Author: Lee Leahu <freedesktop-bugs@dyweni.com>
Date:   Sat Oct 17 00:45:44 2009 -0500

dmx: when setting up device axis, use the correct counter number

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 010d5e28655d619693632938e9e4325ee938295
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 16 10:01:13 2009 +1000

dmx: remove doxygen-generated files.

These can be recreated by simply running 'doxygen doxygen.conf' in hw/dmx/doc. Some of the files do not exist anymore, these have been removed. Some other files have a different naming scheme.
Doxygen warnings about missing links fixed, two warnings remain:

/home/whot/xorg/xserver/hw/dmx/dmxwindow.c:142: Warning: explicit link request to 'dmxConfigureRootWindow' could not be resolved
/home/whot/xorg/xserver/hw/dmx/dmxwindow.c:119: Warning: explicit link request to 'dmxConfigureScreenWindow()' could not be resolved

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ff3e171568e8b604fc5eacd5f7e9b7ee9417f172
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 16 10:26:21 2009 +1000
xkb: don't conditionally include xkb-config.h.

If HAVE_XKB_CONFIG_H is ever undefined, we fail to build anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0b9dbd4bf2d1061514bebd28648538a5fc0b60e6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Oct 16 08:24:37 2009 +1000

Use the default XKB settings for dmx and kdrive.

Drop the dmx-specific defines, there's no reason to have separate ones considering they're about as hardcoded as the default rules anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e08d8a2b043e5be821c5e8b2dbf37b09102b5d01
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 24 11:25:28 2009 +1000

kdrive: silence tslib compiler warnings

tslib.c: In function 'TslibInit':
tslib.c:157: warning: unused variable 'tsDev'
tslib.c:156: warning: unused variable 'inputent'
tslib.c:155: warning: unused variable 'inputdir'
tslib.c:154: warning: unused variable 'i'
tslib.c:154: warning: unused variable 'fd'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 522ca8179ad2b2935993f08c9382cd5ad1d8b2f
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date:   Tue Oct 20 04:18:01 2009 +0700

Remove unused LinuxFindPci and LinuxGetPciCfg

These two functions are not referenced from inside xserver. Remove now-empty klinux.h too.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 63f4bf39170eb2262617ef2dc95fd6d337b9dad5
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Mon Oct 19 13:07:26 2009 +1000

Fix make dist after 78c87bdad1feab91c2a39e01513b4b0826665f06
Fix segfault when -extension XKEYBOARD is passed on the command line

Users should be told they can't disable XKB or XInput via error messages, not core dumps.

Reported by T'2 on #xorg irc

kdrive: fix Xfake build by removing the old keysym stuff

Remove CopyISOLatin1Lowered

This function was moved verbatim into libXfont-1.4, and it is not used by the server or any drivers. Exporting it in both places leads to multiple definition linking errors on Cygwin, where we need to use a static libXfont due to poor weak-symbol handling.

Define ddxBeforeReset stubs in platform-neutral DDXs
XWin uses ddxBeforeReset, which is called in DIX. Other DDXs need to define these in order to avoid an undefined symbol error at link time when building alongside XWin. Xnest and Xvfb already provide empty stubs; this does the same for Xdmx and the platform-neutral KDrive servers.

Also add a prototype to avoid a warning in all DDXs.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit a2f27b97900f335cd5f6a3e5bf8fa1d00ec9eb9ac
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Oct 15 01:53:42 2009 -0500

Remove duplicates from Xfake_LDADD

KDRIVE_LIBS already contains the libs in XSERVER_LIBS, so linking against both leads to multiple-definition errors when linking on Cygwin.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit ed4c6bc79a797830895ad6c3601318b2d1c4bdcb
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Oct 15 01:53:41 2009 -0500

Fix XWIN_LIBS definition

Move XWIN_LIBS from XWIN=auto conditional to XWIN=yes conditional, otherwise the build breaks if an explicit --enable-xwin is passed to configure.

Also remove obsolete library values from the definition.

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit bcd0c024cf0707b5f81ca91dfbe4412df2e643e
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Thu Oct 15 01:53:40 2009 -0500

Install SDK pkg-config and aclocal files only if XORG

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 264ce9e8360374b3a43442ce8bde0a8abde705446
xselinux: Use the now-exported IsPointerDevice() instead of a copy.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 0ae1632be045bfbb288bb57190c830f94247460f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 14 20:32:28 2009 -0400

dix: Export IsPointerDevice() and IsKeyboardDevice().

Makes the functions available to extmod for extensions to call.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 6c2ae5fe552366e11ad64a27626eb5dec4becf0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Sep 22 13:31:49 2009 -0700

xselinux: switch from x_device to separate x_pointer and x_keyboard classes.

This will allow separate controls over pointer and keyboard without having
to relabel the devices to separate types.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 4be354c4c2da5168b302601b91bd80cfaca7e193
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Sep 22 13:18:44 2009 -0700

Remove some debug messages that trigger on XACE event delivery failure.

It is normal for XACE to deny an event delivery, so these log messages
shouldn't trigger when that happens. Just drop them for now.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit c4ffce4dc84a0a9d134a59b7e7765c99ed767e53
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Sep 22 13:13:03 2009 -0700

xace: Relax permissions on XkbGetState from Read to Getattr.

This request is used to get the current keyboard group and is called from
GTK. It does not return an actual keymap (aside from modifiers) so it
should be safe to relax the permission on it. However it does return
button state information which should be controlled through a separate pointer Read check.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 0ff28319906eeb3f236acd72201c416ce01f2c6e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Sep 15 19:41:04 2009 -0400

xselinux: Stop special-casing QueryPointer access checks.

XACE has been changed to not return BadAccess on device read failures. Thus, no need for this workaround code.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 8502c06e19a4c00bf1311f54f9a365ee9e026e97
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Sep 15 19:29:34 2009 -0400

xselinux: Fake return values on denials in input polling requests.

Instead of returning BadAccess when "read" permission is denied on a device, falsify the device state (buttons down, keys pressed). This is nicer to applications, but may still have undesired side effects. The long-term solution is not to use these requests in event-driven code!

Requests affected: QueryPointer, QueryKeymap, XiQueryDevice.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 0493935691e925ae137af7636fa15befa76c8b45
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 31 21:20:53 2009 -0400

xselinux: Factor out some dynamic array code into common helpers.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit ae8891baf0b63bfe6941a324e201d9ab7c645c0f3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 31 18:46:23 2009 -0400

xselinux: refactor extension code into smaller files.

New files:
xselinux_ext.c: Extension init and request handlers.
xselinux_hooks.c: XACE hook functions and other callbacks.
xselinux_label.c: Object security-labeling code.
xselinuxint.h: Shared internal functions.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit a60e676f1fd243c78859440b87652f523d3f2ec1
Author: Julien Cristau <jcristau@debian.org>
Date: Wed Oct 14 23:51:22 2009 +0200

Add libgcrypt as an option for SHA1

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Rémi Cardona <remi@gentoo.org>

commit d2a6a395435919aff89432859f9cbe6569a9728f
Author: Julien Cristau <jcristau@debian.org>
Date: Wed Oct 14 23:30:55 2009 +0200

configure: add --with-sha1={libmd,libcrypto} option

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Rémi Cardona <remi@gentoo.org>

commit 55516094947dd78ad2734bb784a2fb109b64e990
Author: Julien Cristau <jcristau@debian.org>
Date: Wed Oct 14 23:20:44 2009 +0200

Move SHA1 computation from render/glyph.c to os/

Signed-off-by: Julien Cristau <jcristau@debian.org>
Reviewed-by: Rémi Cardona <remi@gentoo.org>

commit 22b38f513c93c2f2aea5909878c3c9acae7d35c1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Sat Oct 3 12:44:50 2009 +0100

Cygwin/X: Avoid a potential null pointer dereference before input initialization

Avoid a null pointer dereference if WM_MOUSEMOVE occurred before
the input device had been initialized (a timing sensitive bug
occasionally seen during initialization)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 1b0df8dee639870725d3bd9b70c3bd589d09e5a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Cygwin/X: Make -logverbose affect the verbosity of logging to the log file

Make -logverbose affect the verbosity of logging to the log file, not just the verbosity of logging to the console

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>
Reviewed-by: Colin Harrison <colin.harrison@virgin.net>

commit 83d120b90482d356be730f63aead0f8e44a4e846
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Thu Oct 1 14:47:22 2009 +0100

Xming: Fix various 'ISO C90 forbids mixed declarations and code' warnings

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 78c87bdad1feab91c2a39e01513b4b082666f06
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Sep 25 17:49:59 2009 +0100

Xming: Remove unused X-boxed icon resource

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit fdf7f7e95c852734c620f58df408a324902172cf
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Fri Sep 25 17:46:40 2009 +0100

Xming: update .rc file

Remove the obsolete DISCARDABLE flag in the .rc file
Replace the obsolete DIALOG resource with DIALOGEX in the .rc file

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 5ddf9d0898629627e8ab10e65ea2e082be3af37
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date: Sat Oct 3 13:07:23 2009 +0100

Cygwin/X: Don't build rootless extension code unless we need it

Only try to build rootless extension code if we really need it (i.e. mwextwm mode is enabled)

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 25344ba7f7845654364d62bf15322b3b79465bd9
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Tue Oct 13 20:14:58 2009 -0500

dolt: add Cygwin to supported platforms

Signed-off-by: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6e158003e80534ce007290f75c89d698ae1d00b
Merge: 2b14e14203 5e762f0e2f
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 13 18:40:42 2009 -0700

Merge remote branch 'mattst88/master'

* mattst88/master:
  [alpha] assume we have __NR_pciconfig_iobase
  [alpha] don't return from void functions
  Fix undefined symbols on alpha
  Fix breakage on alpha caused by c7680be5e5ae
  Revert "alpha: kill xf86SlowBCopyToBus and xf86SlowBCopyFromBus"

commit 5e762f0e2f2035121a3de3b9af3ec891b31a77f
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Oct 13 20:42:14 2009 -0400

  [alpha] assume we have __NR_pciconfig_iobase

The code path if we didn't have support has been broken since before we
switched to git.

The pciconfig_iobase syscall has been supported since 2000.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 46785e04bca16f495af3ed86d85ae939a1a8f39
Author: Matt Turner <mattst88@gmail.com>
Date:   Tue Oct 13 20:40:59 2009 -0400

  [alpha] don't return from void functions

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 2b14e142039193ea854a02706662204f4f5f6db8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 13 12:54:56 2009 -0700

  Rootless: src drawable window can now be NULL
Fix a possible crash when pSrc->pDrawable is NULL.

Signed-off-by: Colin Harrison <colin.harrison@virgin.net>
Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 5b91dfac6fbdfe35288a4558638d4923e230ab8d3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 13 12:54:11 2009 -0700

Rootless: Abstract some of the Xplugin specific stuff which has crept into rootlessWindow.c

The rootless extension now directly calls some Xplugin functions, and relies
on types defined in Xplugin.h, which isn't very abstracted :-)

This patch is a start at abstracting some of the Xplugin specific stuff which
has crept into rootlessWindow.c. This has been done in a pretty mindless fashion,
without much thought as to if the additions to the generic rootless interface are
the correct ones

There is some confusion as to if RootlesscolormapCallback() returns a Bool or
xp_error_enum value (not so abstact), but I have no way of checking, of finding
out if Xplugin actually checks the result :-) 

Based on patches from Colin Harrison, Jon Turney and Yaakov Selkowitz

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>
Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 72f5874434c0c015b671c492c1318f35f1793668
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Oct 13 13:15:05 2009 +1000

dix: extend IsPointerDevice check to valuator-only devices.

A device with valuators but no keys is definitely a pointer device and needs
to be attached to the VCP. Otherwise, the class copying happens on the VCK
and the VCP isn't updated with the events that are to be sent through it.
This addresses the trigger for #24441, not the actual issue.
Jury is still out on valuator+key devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1088073b11ed488c0d45af3867b900ef93c6fe1
Author: Michel Dänzer <daenzer@vmware.com>
EXA: Fix exaTryDriverSolidFill() for solid source pictures.

Solid pictures have a NULL pFormat field, but their format is always PICT_a8r8g8b8.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 55305cf8db7787883bc80b7348eb626e609626f8
Author: Ben Skeggs <bskeggs@redhat.com>
Date:   Fri Oct 9 16:08:15 2009 -0700

EXA: fix exaGetRGBAFromPixel to not loop forever on PICT_a8 picture

Easily reproducible by running "rendercheck -t fill".

It should be safe to just test against rbits for all colour components as we should always have values for r/g/bbits for PICT_FORMAT_COLOR formats.

Signed-off-by: Ben Skeggs <bskeggs@redhat.com>
Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b375be9285c40467578fac2f1360c29a75306ab4
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Oct 9 11:31:46 2009 +0200

composite: Revert changes from adding support for BGRA picture formats.

They were aimed towards a since abandoned approach for making radeon KMS work on big endian machines, and Aaron Plattner pointed out that they break the Composite extension when the X server runs in 16bpp.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Tested-by: Aaron Plattner <aplattner@nvidia.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit c0a1bb511a4629bf5683d8a710dc4a1c577a5d44
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Oct 7 22:10:55 2009 -0700

Fix make warning: overriding commands for target `dix.O'

Not only does automake generate unnecessary rules for dix.O on platforms for which SPECIAL_DTRACE_OBJECTS is false, it generates duplicate sets
when "if SPECIAL_DTRACE_OBJECTS" is nested inside "if XSERVER_DTRACE"

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit b0dd6be2c8703f7062d45ac9fd646550c7d54e3b
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Oct 8 13:38:44 2009 +1100

Cast small-int values through intptr_t when passed as pointers

On 64-bit systems, int and pointers don't have the same size, so GCC gives
warnings about casts between int and pointer types. However, in the cases
covered by this patch, it's always a value that fits in int being stored
temporarily as a pointer and then converted back later, which is safe.
Casting through the pointer-sized integer type intptr_t convinces the
compiler that this is OK.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit b680a89262efcfe4644adb4a61ae42ea0db0c93
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Oct 8 13:38:01 2009 +1100

Fix GCC warnings in xorg_backtrace

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 9bf2ff4fa730913de3073f346646a8727be41d4
Author: Jamey Sharp <jamey@minilop.net>
Date:   Thu Oct 8 13:36:44 2009 +1100

Fix "possibly uninitialized" warnings in glx

In both functions, "answer" was uninitialized if "compsize" was 0, but in
that case __GLX_SEND_VOID_ARRAY(compsize) results in a call to
WriteToClient for 0 bytes, which returns immediately without examining the
"answer" argument. So initializing to a null pointer is as good as
anything else.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit b422b532f3dcbab54c53f61a66f2ad76059d1874a
Author: Jamey Sharp <jamey@minilop.net>
Date: Thu Oct 8 13:29:27 2009 +1100

Remove static MAXSCREENS limit from Xext/shm.c

Dynamically allocate per-screen data in the SHM extension, instead of having a single static-sized array.

Signed-off-by: Jamey Sharp <jamey@minilop.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 4df3e8c8053d9d4b3043f339a73d0de97020d884
Author: Martin Ettl <ettl.martin@gmx.de>
Date: Thu Oct 8 13:27:30 2009 +1100

Resource leakage: 0 is a valid file descriptor

When testing if an fd is valid, the required construct is >= 0, not > 0.

[Daniel: Fixed up the Linux MTRR case as well.]

Signed-off-by: Martin Ettl <ettl.martin@gmx.de>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 4151a13c80f3afa43f88afcf19a7aeb16dace93a
Author: Francisco Jerez <currojerez@riseup.net>
Date: Mon Oct 5 02:39:03 2009 +0200

dix: Fix a double free in dixFreePrivates.

It can be reproduced when the server is regenerated and for some reason the private keys are reassigned in a different order: a manually allocated private may get an index formerly used by a preallocated private. In that case it will first be manually freed and then again by dixFreePrivates, as items[i].size was never zeroed out. Do it in dixResetPrivates.

Signed-off-by: Francisco Jerez <currojerez@riseup.net>
Acked-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 34eddbbb73bb16395db0818247909c1b4bee4c2
Author: Michael Cree <mcree@orcon.net.nz>
Date: Wed Oct 7 18:33:29 2009 -0400

Fix undefined symbols on alpha

Signed-off-by: Matt Turner <mattst88@gmail.com>
commit 44efcdde501d54ca9c3e33ab5b1f699956fc3f9f  
Author: Jamey Sharp <jamey@minilop.net>  
Date: Wed Oct 7 09:07:03 2009 -0700  
  
Fix overlay detection when matching Xv adaptors across screens.  
  
Signed-off-by: Jamey Sharp <jamey@minilop.net>  
Acked-by: Adam Jackson <ajax@redhat.com>  
Signed-off-by: Keith Packard <keithp@keithp.com>  
  
commit 68304215e25876ee639015969b4f07e1c9e515e0  
Merge: 6676f49e34 315aaef557  
Author: Keith Packard <keithp@keithp.com>  
Date: Tue Oct 6 22:41:42 2009 -0700  
  
Merge remote branch 'alanc/master'  
  
Conflicts:  
configure.ac  
  
Signed-off-by: Keith Packard <keithp@keithp.com>  
  
commit 315aaef55750a863c08a16ad9120ffbb769b48e0  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Fri Oct 2 21:54:53 2009 -0700  
  
Use $(AM_V_GEN) to silence more commands when AM_SILENT_RULES is active  
  
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>  
Reviewed-by: Eric Anholt <eric@anholt.net>  
Acked-by: Dan Nicholson <dbn.lists@gmail.com>  
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>  
  
commit 2e294380b64b6362173d0590c4292f290e50af50  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Fri Oct 2 16:51:24 2009 -0700  
  
Migrate to xorg macros 1.3 & XORG_DEFAULT_OPTIONS  
  
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>  
Reviewed-by: Eric Anholt <eric@anholt.net>  
Acked-by: Dan Nicholson <dbn.lists@gmail.com>  
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>  
  
commit 4b0911565d18b1ae5c566315d0f1b9b4a17aa65  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Mon Oct 5 16:52:19 2009 -0700
Add platform tests for Dtrace linker magic

Replaces special handling for Xquartz DDX and scales better to handling the multiple platforms that now have some level of Dtrace support available.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

commit 8c51b886400e5962b31ff565771be1b01a3ca8fb
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Oct 6 16:08:42 2009 +0200

configure: quote argument to m4_pattern_forbid

Without this, configure spits out

`./configure: line 15460: ac_fn_c_check_member: command not found`

Also anchor the pattern to make it stricter.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 6ee61578ddb9f880ef12bbe9c3671d7dd53f2809
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Oct 5 17:27:27 2009 -0700

Remove shave now that automake-1.11 has AM_SILENT_RULES

Revert "Add shave so that we can see the steaming piles of warnings generated."
This reverts commit 181cc08c8908a119fc403f970dea8cc98d3e0b9b.

shave was left in the xserver 1.7 release/branch to allow developers & distros time to transition to automake-1.11. xserver 1.8 series will require automake-1.11 for silencing build noise.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit d5d960f57834f16164457dab2e80290717dbf2cd
Author: Kim Woelders <kim@woelders.dk>
Date:   Fri Oct 2 19:31:15 2009 +0200

render: Fix clip region translation in miClipPictureSrc().

Signed-off-by: Kim Woelders <kim@woelders.dk>
Reviewed-by: Soren Sandmann Pedersen <sandmann@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: remove log-spamming DebugF

All input drivers use xf86PostKeyEventP indirectly now and have been since it exists. I guess that qualifies it as tested - no need to spam the logs.

Reported-by: Felix Wenk
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit bf116057c7efd43e247c93f2f5d733a5db857cc9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Oct 5 10:44:43 2009 +1000

Require libXtst >= 1.0.99.2 and libdmx >= 1.0.99.1

libXtst requirement is already implicit since we require xextproto 7.1 and that doesn't go well with pre 1.0.99.2 versions of libXtst. Nonetheless, list it explicitly.

Since d0440275108920f5cb5d630f55fc9a3320c496d3 we require dmxproto 2.2.99.1. Complementing that is libdmx 1.0.99.1 with the dmxext.h header file.

Reported-by: Mark Rosenstand
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9625f6d328d6f516520930227b218979309938bc
Author: Matt Turner <mattst88@gmail.com>
Date: Tue Oct 6 20:58:30 2009 -0400

Fix breakage on alpha caused by c7680befe5ae

Pinpointed by by Michael Cree.

Commit c7680befe5ae removed Jensen support, but at the same time broke support for dense memory systems.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit aa07957373fd7cbe67458a001e4afdd6a7f1ea37f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Sep 28 12:20:03 2009 +1000

Revert "alpha: kill xf86SlowBCopyToBus and xf86SlowBCopyFromBus"
The vesa driver still uses slowbcopy_frombus and slowbcopy_tobus.

This reverts commit 5ef53a94ce4e48e11de26290cd677266308640e8.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6676f49e34f8d87ef5767a6dbf6e2a4d2087f79c
Author: Julien Cristau <jcristau@debian.org>
Date: Tue Oct 6 16:08:42 2009 +0200

configure: quote argument to m4_pattern_forbid

Without this, configure spits out
../configure: line 15460: ac_fn_c_check_member: command not found

Also anchor the pattern to make it stricter.

Signed-off-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

Remove shave now that automake-1.11 has AM_SILENT_RULES

Revert "Add shave so that we can see the steaming piles of warnings generated."
This reverts commit 181cc08c8908a119fc403f970dea8ce98d3e0b9b.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

render: Fix clip region translation in miClipPictureSrc().

Signed-off-by: Kim Woelders <kim@woelders.dk>
Reviewed-by: Soren Sandmann Pedersen <sandmann@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: remove log-spamming DebuggerF

All input drivers use xf86PostKeyEventP indirectly now and have been since it exists. I guess that qualifies it as tested - no need to spam the logs.

Reported-by: Felix Wenk
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

Set XQUARTZ to no on non-Darwin OS'es

Fixes build with dtrace probes on Solaris after efacd7bdf08ffec0725de6f639c6afbf3b2f6c9fe

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Reviewed-by: Jeremy Huddleston <jeremyhu@apple.com>

Require libXtst >= 1.0.99.2 and libdmx >= 1.0.99.1

libXtst requirement is already implicit since we require xextproto 7.1 and that doesn't go well with pre 1.0.99.2 versions of libXtst. Nonetheless, list it explicitly.

Since d0440275108920f5cb5d630f55fe9a3320c496d3 we require dmxproto 2.2.99.1. Complementing that is libdmx 1.0.99.1 with the dmxext.h header file.

Reported-by: Mark Rosenstand
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

XQuartz: Fix a possible minor memory leak

XQuartz: Fix a possible minor memory leak

Commit: c886fbabc1d8b4054654b227fcad83f58e8e798
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 2 18:58:35 2009 -0700

XQuartz: Send mouse location with scroll events.

This fixes the problem where (0, 0) was sent as the mouse location with scroll
button events causing the event to not reach the client.

commit 4c6bfa2c09ae2b0cffdf9211a6dffcaefe0366b5
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Thu Oct 1 10:39:19 2009 -0700

GLX: More clearly document the GLX protocol version handling

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 45f447dafded5adfe11b7df3325c2d8f6ae0639b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Oct 1 21:19:11 2009 +1000

dix: force a minimum of 0 for screen coordinates.

Currently the root coordinates may fall into [-1..0] if the subpixel
remainder is less than 0. Screen coordinates mustn't go below 0, so use
miPointerSetPosition to cap off the remainder if the coordinates are below
0.

This is cheating a bit, a more comprehensive solution to deal with subpixels
correctly when crossing screens is needed. For now, this'll do.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Simon Thum <simon.thum@gmx.de>

commit 64fe5784b49347e1fd27b0c463be5c16557594c9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Oct 2 09:34:24 2009 +1000

configure: if xnest was requested but modules weren't found, fail.

Tested-by: Xavier Chantry <shiningxc@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Julien Cristau <jcristau@debian.org>

commit 3ebb82d61c2b56e8f7145443a552a4e913bbfc80
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Oct 1 15:25:55 2009 +1000

rotate: drop unwrapping inside block handler.
Keith has shown half the block handlers wrappers are wrong, also dynamic wrapping/unwrapping from what I can see will happen after the drivers, so its really accidental ABI, that we can't change now without modifying drivers. So be safe for 1.7.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Declared-as-sane-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cb54cf1b3e8c4109541cfb698542c00f2473e731
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Sep 30 11:33:16 2009 +1000

glx: fixup deref of null pointer when glx screen init fails.

I think this is what the original author wanted.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Acked-by: Ian Romanick <ian.d.romanick@intel.com>

commit 3d7cf4d68d96c0130a862f0d93fec990b9110c2f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 1 11:58:18 2009 -0700

XQuartz: Update version strings to be X11R7.5 and the bundle 2.5.0

Is fink really _still_ relying on this X11R7.x version string?

commit 85b831f701d085e514afcf8a5ce9b11f8a57984e
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Oct 1 17:27:11 2009 +0200

xfree86: fix xorg.conf manpage formatting error

commit 9bc7cfb9c02656982c2525836b5498993f708e02
Author: Nirbheek Chauhan <nirbheek@gentoo.org>
Date:   Tue Sep 29 22:35:06 2009 +0530

xkb: check permissions on XKM_OUTPUT_DIR

Checking just for root is insufficient since that does not guarantee write/read permissions in XKM_OUTPUT_DIR (for example with sandbox).

Check if we can write a file, as well as read it later. Otherwise, invoke the fallback to /tmp

Signed-off-by: Nirbheek Chauhan <nirbheek@gentoo.org>
Signed-off-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 622fc98fd08aba98369e6933e3ab8c9ff85385d5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 1 10:03:42 2009 +1000

render: Fix crash in RenderAddGlyphs (#23645)

This patch fixes two bugs:
size is calculated as glyph height * padded_width. If the client submits
garbage, this may get above INT_MAX, resulting in a negative size if size is
unsigned. The sanity checks don't trigger for negative sizes and the server
goes and writes into random memory locations.

If the client submits glyphs with a width or height 0, the destination
 pixmap is NULL, causing a null-pointer dereference. Since there's nothing to
 composite if the width/height is 0, we might as well skip the whole thing
 anyway.

Tested with Xvfb, Xephyr and Xorg.

X.Org Bug 23645 <http://bugs.freedesktop.org/show_bug.cgi?id=23645>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit 758ab55d2defc78d0169fd61a7036eb9f889e9e7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Oct 1 15:22:19 2009 +1000

render: set the glyph picture to NULL by default.

In a follow-up patch we may have glyphs with a NULL picture. To cope with
 that, always set the pictures for glyphs to NULL at creation time and cope
 with cleaning up such glyphs. Also, since compositing a NULL source doesn't
do a lot anyway, skip trying to do so.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit b5fcc553eb784c9f4826936e839079c0cdee55a
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Thu Oct 1 15:17:11 2009 +1000

exa: avoid infinite loops if UTS sw fallbacks.

The upload in finish access can cause an infinite loop if
UTS returns FALSE in here.

Fixes fd.o bug #24246.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit db98b26ee145f70e732e2cf4a6ac3de77fd4adc
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 30 11:40:19 2009 -0700

Re-fix DGA removal.

Removing DGA ended up breaking any drivers calling into the old xf86DiDGAInit function as it tried to see if DGA was already enabled and ended up crashing if the VT wasn't completely initialized. Oops.

Also, if the driver initializes DGA itself, have the DiDGA initialization overwrite that information as the DiDGA code will call ReInit on mode detect.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 873467adad479be02cd9cc6b43685919f5612d91
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 30 00:22:02 2009 -0700

XQuartz: Set the proper bitmap for key repeats...

XkbSetRepeatKeys lies and doesn't do what it says it will...

commit 7bef78e199a4e4f7916be506807513efcd8fd4eb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Sep 29 23:40:47 2009 -0700

xb: Use XkbPerKeyBitArraySize instead of hardcoded value of 32

commit 4970666827e65424ee17ccf6341ff84aac974383
Author: Kim Woelders <kim@woelders.dk>
Date:   Tue Sep 29 20:31:45 2009 +0200

dix: Fix potential memory corruption in doListFontsWithInfo.

Signed-off-by: Kim Woelders <kim@woelders.dk>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35374

commit 6ffda5aae75272fabdc27d6f693ae827be119e95
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Sep 29 11:49:09 2009 +1000

dix/glx/composite: consolidate visual resize in one place.

The previous code was copied and in both cases incorrectly fixed up the colormaps after resizing the visuals, this patch consolidates the visual resize + colormaps fixups in one place. This version also consolidates the vid allocation for the DepthPtr inside the function.

I'm not 100% sure colormap.[ch] is the correct place for this but visuals are mostly created in fb and I know thats not the place to be resizing them.

Fixes fd.o bug #19470.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Reviewed-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ad5c0d9efa47476ed5cf75c82265c73919e468b4
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Tue Sep 29 16:43:43 2009 -0700

GLX: Enable GLX 1.4 on DRI2

Return the minimum GLX version supported by all screens. Assume that DRI2 screens have all the required features for GLX 1.4. Assume that everyone else can only support GLX 1.2.

Reviewed-by: Kristian Høgsberg <krh@redhat.com>
Reviewed-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit f11a356bce61bc0a6440325019d5967b745a42dd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Sep 28 17:05:29 2009 -0700

XQuartz: Cleaned up keymap setting for easier maintenance
(cherry picked from commit b9dfed9e88389cbd29406a20d38ee4297638649b)

commit f3223c71cfc638e695981e527517d48ea00d124d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Sep 28 23:01:59 2009 -0700

XQuartz: Remove the redundant xquartz_resetenv_display
unsetenv(DISPLAY) takes care of this for us anyway
commit 9b98b883227ed23d5470e8de689afeec4a0fd742
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Sep 28 17:47:31 2009 -0700

XQuartz: Query the BundleIdentifier from the bundle in X11.bin rather than using the configure option.
This lets X11.bin drop into any .app ... the Info.plist and Xquartz binary need to have it hardcoded still.

commit 11817a881eb93a89788105d1e575a468f2a8d27c
Author: Michel Dänzer <daenzer@vmware.com>
Date: Tue Sep 29 08:56:59 2009 +0200

Fix ShmPutImage non-ZPixmap case.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=23298 .

commit 19be992d9d542b61fa3f4fd32a09071c9e64880
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Sep 28 14:18:45 2009 +1000

ephyr: if -parent is given, check for a trailing -screen. (#24144)
If -parent is given, don't open up a new window if -screen is given as well.
The commandline option -screen allows to set the depth of the embedded
Xephyr instance, even though width and height are autoscaled on -parent.

This patch checks for a -screen parameter after -parent and - if one is
found - delays initializing the screen. The parent window id is stored
temporarily but re-set after a -screen argument.
The following command is thus valid:

Xephyr -parent 1234 -screen 640x480@8 -screen 1024x768
It embeds the first 8-bit screen into window 1234 and opens up a new window
for the second screen. Multiple parent arguments are possible, the screens
are embedded in-order.

X.Org Bug 24144 <http://bugs.freedesktop.org/show_bug.cgi?id=24144>

Tested-by: Vic Lee
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit efacd7b08fffc0725de6f639c6afbf3b2f6c9fe
Author: Ben Byer <bbyer@freedesktop.org>
Date: Sun Sep 27 10:35:53 2009 -0700
Add (ok, fix) support for DTrace under OS X
(cherry picked from commit 8428a57184f542941d2e8c90e97d18e111a69dd2)

commit b3415187e92960cbff784108b5a3a8d130dc34c5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 23:09:51 2009 -0700

Rootless: Correct border rendering on parent-relative windows

Resurected code from the punted RootlessPaintBackground/Border and added it conditionally to miPaintWindow
(cherry picked from commit cf2e3312cf3f341e9edba8c321a4ca7ffd8748e)

commit 6df00917cab5c1096070625385fd76ee6c52e0f1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 23:00:59 2009 -0700

XQuartz: Fix QuartzSetCursor to match the expected prototype.
(cherry picked from commit dadab5a2279a19dcr709402d7f22f0cd48670db0)

commit 67a51cd9ef60b4cf25fddd84f9eb352936c8e67
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 22:57:25 2009 -0700

XQuartz: Fix a bunch of compilation warnings about style
(cherry picked from commit 54000bdebc5a2de31f7c1a1147de6d8e9dibbb)

commit 96780eaf32636e94a0cf3f22e89f01d984f754
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 22:29:49 2009 -0700

XQuartz: Nuke TSM

It's deprecated in SnowLeopard. Ben and I both have no idea what it is for. It says something about unicode input, but urxvt seems fine taking in unicode, so /shrug... bye.
(cherry picked from commit 29cb904e4de2411a9b6d6eb8e94954788f0525f7)

commit 15e15816a2f011d0aeeaff9e394d30a147c973ce
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 22:26:22 2009 -0700

XQuartz: Fix inverse map from mode_switch to alt
(cherry picked from commit de6cee11e1c335a0e5f708e7641e81d3cfe52529)

commit 558d803b2966c2e44345a80e635e091dc3e49f02
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 18:25:57 2009 -0700
XQuartz: Force a keymap resync on the first keypress to workaround XKB mucking with our keymap.

We need to find a better way to work with XKB on this.
(cherry picked from commit ceaa5c77cceed3de5ea53727649613be3133b24e)

commit 226b1033b48807fd6871ba626e20ef1411904939
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Sun Sep 27 17:08:12 2009 -0700

XQuartz: Transition from xEvent based mieq to InternalEvent
(cherry picked from commit a3dbde2de87ee4f577748a8c447501a3ea462559)

commit 0e2731596f27f2cdf5000ba41de37e7eb86ad6f9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Sep 28 15:07:48 2009 +1000

Put tests for zero-sized strings in quotes (#24060)

X.Org Bug 24060 <http://bugs.freedesktop.org/show_bug.cgi?id=24060>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83023ffd09a84ff48e6b99f57ebad101a00478db
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Sep 28 13:59:25 2009 +1000

xfree86: use the DDC size if either width or height of DisplaySize is bogus.

If either width or height of DisplaySize is invalid, assume that the
configuration is invalid and use the DDC-reported values instead.

See Comment 9, Bug 9758.
http://bugs.freedesktop.org/show_bug.cgi?id=9758#c9

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dave Airlie <airlied@redhat.com>

commit f772014c435f56db56520ca13ffa39431684f122
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Wed Sep 23 10:53:51 2009 +1000

render: Plug a memory leak in AddGlyph. (#23286)

AddGlyph was missing the FreePicture() call that DeleteGlyph used, resulting
in a memory leak when more than one Glyph was added in a RenderAddGlyphs
request.

Since the code in AddGlyph and DeleteGlyph is identical, move into a static
function to avoid such mistakes in the future.

X.Org Bug 23286 <http://bugs.freedesktop.org/show_bug.cgi?id=23286>

commit 3db28f92b0c810b452506abbed299a204c90ba0b
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Thu Sep 24 12:57:02 2009 +0200

courage: make XNEST default to auto.

When we're checking whether to build Xnest, we're comparing the
variable to auto but before it never was assigned that.

Signed-off-by: Tilman Sauerbeck <tilman@code-monkey.de>

[Xnest was enabled to yes to increase build exposure and catch compiler
errors early. The requirements to Xnest are quite low and I expect most
developers have them, so Xnext will be enabled on most boxes. Anyone
missing those requires probably doesn't want to build Xnest anyway.]
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 78ad6ca9a97440b74019c00a28144ea7d1e03431
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date:   Sun Sep 27 17:30:23 2009 +0200

xfree86: Hurd fix

I hadn't paid attention that the parameters order had changed, here is a
trivial patch, please apply.

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit fb7938315bed9d4eb5641ee9acebf78a13bc109e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 27 09:48:43 2009 -0700

Xi: Make CopyKeyClass X_HIDDEN to avoid ugly ifdef-fu
(cherry picked from commit 6d436e17a9ae7f4ce8537f3fabc052d4f07ca75f)

commit a2cd21177859eb45320a94c96dde7d9058ab7650
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Sep 26 23:41:45 2009 -0700

XQuartz: Stop checking version numbers of the bundle because CFBundleGetVersionNumber is gimpish
(cherry picked from commit 9f5bdd89608ec12012592ff395b82e954fbb4da8)

commit fbfb93405222322571e15e78dea57c8f2755eae
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 26 22:52:39 2009 -0700

XQuartz: Add pressure/tilt property labels
(cherry picked from commit 84ea67130ef6b4086042aad6036ce66f93ea3e56)

commit 65f14840898dd7e9d61d8c966f3f11ae3e82d4f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 26 22:48:49 2009 -0700

XQuartz: Fix a brain-o array indexing problem

/bop Peter
(cherry picked from commit 494a6b046a258ad83de98eb92b7c3d8f1d2626bb)

commit 7159381881e5da33a49e8735811b93cbe4f681e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 26 22:17:09 2009 -0700

XQuartz: Nuke duplicate locks that make painful headaches
(cherry picked from commit 1dd56322bd1722f2427fb2d833c5608248b60cf0)

commit fba8c702ba6aa8fac27682e0838fd744e197d54f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 26 22:13:49 2009 -0700

Xi: CopyKeyClass is not static for XQuartz
(cherry picked from commit 85d6402354cdf143c6490f2725744c2f08b5605b)

commit dc1e1bebff8b9d1eb6196dfd4b2f52f1e4200efa
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Aug 7 00:02:21 2009 -0700

XQuartz: Use internal xshm header for new xextproto
(cherry picked from commit 1755239330c0bdac820d88a3e06ff391d65f29be)
(cherry picked from commit 697be460d0e555e2c75eed6889293650e02d423c)

commit 73ae547d5e687ef10dea45801fc627e10ac4b659
Author: Michel Dänzer <daenzer@vmware.com>
Date: Sun Sep 27 02:08:10 2009 +0200

EXA: Fix mixed pixmaps crash with missing / failing UploadToScreen hook.

For the recent mixed pixmaps changes, I failed to realize (or hit in my
testing) a problem which can occur if the driver doesn't provide an
UploadToScreen hook or provides one which can fail: There can be a crash
in exaMemcpyBox() because exaCopyDirtyToFb() passes pExaPixmap->fb_ptr to
exaCopyDirty(), but that's normally NULL with driver allocated pixmaps.
The solution is to make exaCopyDirty*() no longer rely on pExaPixmap->fb_ptr but use pPixmap->devPrivate.ptr after PrepareAccess instead.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=24167.

commit c9ec2bab2f25879f8fd6e6676698c732f09571a60
Author: Kevin E Martin <kem@redhat.com>
Date:   Sat Sep 26 13:10:54 2009 +1000

dmx: undefine MITSHM, move undefs to miinitext.c.

This patch undefines MITSHM for dmx - we don't support the required screen->ModifyPixmapHeaders. All undefines are moved from dmx-config to miinitext.c, where they belong.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fc9d733bab3ff0e4e51b19c73b66196dca563a70
Author: Kevin E Martin <kem@redhat.com>
Date:   Sat Sep 26 13:09:52 2009 +1000

dmx: reshuffle linker order to avoid errors when MITSHM is undefined.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e7c2598f565e8252dd66ee3e6212b3108564f76cb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 25 14:53:33 2009 +1000

dmx: core events are always in screen coordinates when passed to GPE.

This fixes input in dmx, the pointer appears at the right positions to the clients now.

Also mark the spot where we pass in the button state as valuator to GPE with a FIXME. (??)

Tested-by: Kevin Martin
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 43a2eb794f19a2ba56d653f465fc5f6b2ff0d3d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 23 21:49:11 2009 +1000

configure: Unify all library defines that require a specific version.

This patch moves all libraries that require a specific version into a single location instead or duplicating them across the configure.ac file.
Libraries that do not require specific versions are left where they are.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9bd08c690fc687e4d69bb70536f3079a9184476d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 24 14:07:26 2009 +1000

Xi: update axisVals with the right subpixel data.

Subpixel data in data_frac is stored as FP32.32, hence we need to get that
down again before adding it to the current value.

Reported-by: Thomas Jaeger
Tested-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit abb8108fb44cc9b08fe4ae7d805a0a22564ca6bb
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sat Sep 26 02:05:24 2009 +0200

EXA: Only calculate cache position once for each glyph.

commit c11678cc189551f2a01eaa7a63969c16950739b4
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sat Sep 26 02:05:06 2009 +0200

EXA: Accumulate arbitrary number of glyphs without flushing.

commit 0369eeeb6bf8a808fa2df503fc8b8df81e6e07b8
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sat Sep 26 02:04:48 2009 +0200

EXA: Try to minimize UploadToScreen calls for mixed pixmaps.

If there are several software fallbacks affecting the system memory copy of the
same pixmap, only copy the results back to the driver pixmap when it's used for
acceleration again, or in the BlockHandler, whichever happens first.

commit 1818cbd70fc1f2e1487b4c678e67e28f1265c0ef
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sat Sep 26 01:59:39 2009 +0200

EXA: Extend mixed pixmaps scheme to allow driver PrepareAccess hook to fail.

If the PrepareAccess hook fails, use the DownloadFromScreen hook to retrieve
driver pixmap contents to a system RAM copy, perform software rendering on that
and copy the results back using the UploadToScreen hook. Use the classic
migration logic to minimize transfers (which as a bonus allows slightly cleaning up some of the existing mixed pixmap code).

This enables things that weren't possible before with driver-allocated pixmap storage: If some (or all) GPU pixmap storage can't be mapped directly by the CPU, this can be handled between the PrepareAccess and DownloadFrom/UploadToScreen hooks, e.g.:

* Radeon KMS on big endian machines can fail PrepareAccess if the pixmap requires byte-swapping and swap bytes in DownloadFrom/UploadToScreen.
* Environments where GPU and CPU don't have a shared address space at all. Here the driver PrepareAccess hook will always fail and leave all transfers between GPU / CPU storage to the DownloadFrom/UploadToScreen hooks.

Drivers which can handle all pixmaps in the PrepareAccess hook should notice little if any difference.

commit e23bfffc41b007f1b2b8f5cd4ac54213062c95cc
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Sep 15 19:17:48 2009 -0700

Fix build of unit tests when dtrace probes are enabled

ar loses the dtrace probe magic when building static libraries, so we have to link with the .O files in order to resolve the dtrace probe symbols.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 9fa73be9fa543a686ea35c861084f5af37d44caa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 22 20:34:54 2009 +1000

Require libXext >= 1.0.99.4

Reported-by: Tilman Sauerbeck
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a9c274df5c37cb4eccc6449e934342d8ff861705
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 23 11:43:27 2009 +1000

kdrive: plug two memory leaks when freeing the KdKeyboard/Pointer.

xkbRules, xkbModel and xkbLayout are strdup'd in KdNewKeyboard, need to be freed.

The ephyr driver strdups the name on top of the already allocated kdrive-assigned name. Memory must be freed beforehand.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fd913136732ff14a0484ca28f60ac1fbf49be81d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 23 11:44:12 2009 +1000
dix: plug memory leak in DeviceEnterLeaveEvents.

'event' must be freed before exiting.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6ee796e9bb4e46782b50a69c7b4fa5b49576f139
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 24 14:05:52 2009 +1000

Xi: fix length calculation for ValuatorState in QueryDeviceState reply.

The length field needs to include the bytes required for the valuators
(INT32) as well.

The reply length has the right value and since the valuator state is always
last, clients didn't notice the wrong offset.

Tested-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3b5bbb149d4c932d9624336f5cbe9fe71c87bea3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 23 12:32:44 2009 +1000

configure: fix up tslib check once again.

This patch addresses two issues:
The check for HAVE_TSLIB = xauto can never be true, the check has been
corrected to TSLIB = xauto.

Pre-pkgconfig versions of tslib fail to be found, this patch restores the
additional AC_CHECK_LIB. However, the pgk-config check must happen before
AC_CHECK_LIB, as AC_CHECK_LIB does not seem to honour the LD_LIBRARY_PATH.
Thus, if tslib is installed outside of the default paths, AC_CHECK_LIB
fails.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked--by: Daniel Stone <daniel@fooishbar.org>

commit 5402f18d9c3f7ba19cc05b3a814e3a9e94c8d551
Author: Thomas Jaeger <thjaeger@gmail.com>
Date:   Tue Sep 22 20:16:21 2009 -0400

dix: report XI1 axis values correctly if first_valuator != 0

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33bf9cb69dcccbb6889b2f83e6db61f40dc644e17
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 23 17:41:28 2009 -0700

XQuartz: GLX capabilities: Allow 16bit accumulation buffers

http://xquartz.macosforge.org/trac/ticket/308
(cherry picked from commit e9e63a2118b76b6c31c4081f8ec08a99e4d796e22)

commit ce1fe8db4a4d5eb6d909e5b1b73b459d742bec
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Wed Sep 23 13:10:05 2009 +0200

render: Don't add b8g8r8x8 format for depth 24.

The components are required to be packed in the bottom of the pixel, so this
format can't fit in depth 24.

Also fix up a comment for the addition of BGRA formats.

commit 096f21bb7a1217443d8a03529b1a2938518eb24f
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Wed Sep 23 08:24:06 2009 +0200

EXA: Fix some issues pointed out by clang.

Remove dead variables, fix use of uninitialized values, that kind of thing.

commit 824a09d856a5f750694e11d2fd2faaa3de705eaa
Author: Simon Thum <simon.thum@gmx.de>
Date:   Mon Sep 21 15:23:27 2009 +0200

dix: move bounds check before access

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9ed89e9b4dde6f73dc5241d078425a7a0699ec9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 22 12:56:17 2009 +1000
Bump to 1.7.99.1

X Server 1.7 has branched off.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 66ece3bfbb19642bf0f1ef73c3caaa8a99e3dfb5a9
Author: Kevin E Martin <kem@redhat.com>
Date:   Tue Sep 22 11:42:24 2009 +1000

dmx: only free the default pixmaps that we actually allocated.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 20fb8e2e2fcdb28c1b89e6e2a5c685e1287baed6
Author: Kevin E Martin <kem@redhat.com>
Date:   Tue Sep 22 11:41:33 2009 +1000

dmx: disable Get/SetWindowPixmap, we don't support composite/redirected windows

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fcded1d78c3e8b6b77bd53eda7e21d649d6943
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Sep 21 19:16:59 2009 +0200

Fix sporadic segfault on resume due to accidentally freeing cursor.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 91e1fe5863a180b2d70a6943e83b98b8bd4e9ebce
Author: Matthias Hopf <mhopf@suse.de>
Date:   Mon Sep 21 19:13:31 2009 +0200

Revert fe31f9e + 977953b to fix issue for good.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 90aa0e4a49cdd37178a771365e1e8dab88bce87
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 18 10:03:02 2009 +1000

input: don't use typecasts to access members of InternalEvent.

To avoid confusion, the member names are now postfixed with _event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 693d4fadb1c7b7c789a812790122454e718602449
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 22 11:13:58 2009 +1000

    Xext: switch mbuf.c to dixLookupResourceByType

    Resolves a linker error caused by LookupIDByType.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 493d2fd9e2e56dd3b4c03451c07cd25e3012142e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 22 11:05:07 2009 +1000

    Xext: remove DisplayImageBuffers from mbuf.c

    Not referenced by anything.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fff40b335c7025c1d1e3dd14b5c78f7e9f5de7c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 22 10:53:47 2009 +1000

    Xext: fix up multibuffer compiler errors.

    Triggered by the xextproto 7.1 change, fixed by moving the matching
declarations from the header file to here.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4c8f834da6c8c84849313453fe223a8165c6af0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 21 14:52:31 2009 +1000

    configure: fix up check for tslib.

    Reduce the tslib-check to the pkg-config check only instead of the previous
library symbol check followd by a pkg-config check.

    This patch also reduces the required version of tslib back down to
tslib-0.0. Unfortunately, the 1.0 tarball available through
http://tslib.berlios.de/ still announces itself as 0.0.2.

    Reported-by: Werner Landgraf
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 977953bf14858d17c22208c848854ddeb7e86527
Less intrusive workaround for sporadic segfault on resume.

Hopefully fixes fdo #24010 (memleak).

commit 55747d256d75985014e4a9c4dec965616a31dc8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 18 16:27:54 2009 +1000

input: define server-supported protocol versions in one single file.

include/protocol-versions.h specifies each extension version as supported by
the server and sent back on the wire to the client.

This fixes up several issues with the server potentially reporting a higher
version of the protocol if recompiled against a newer version of the
protocol.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Rémi Cardona <remi@gentoo.org>
Acked-by: Julien Cristau <jcristau@debian.org>

commit 0b7c6c728c2e2d8433a188315cc591308a89cd85
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 18 21:12:17 2009 -0700

xfree86/modes: Remove all framebuffer support from DGA

This removes all rendering and mapping code from xf86DiDGA, leaving
just mode setting and raw input device access. The mapping code didn't
have the offset within /dev/mem for the frame buffer and the pixmap
support assumed that the framebuffer was never reallocated.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d3a3c904e5e3b5e8bb3c51ca6a563880ff589bf3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 21 09:41:46 2009 +1000

configure: resourceproto is optional.

Although a --disable-xres flag is provided, resourceproto was listed in
REQUIRED_MODULES since 2005 (5b218617fa8ba52bf65aeef35da39e06c662495e6).
Remove, make conditional on the xres flag only.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dmx: silence 'implicit declaration of function 'XFixesSetPictureClipRegion'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xext: silence 'warning: no previous prototype' for sync, bigreq and xcmisc.

gxmisc and bigreq don't have their own header so just declare it here to
shut up the compiler.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

randr: reply with the server or client version, whichever is lower.

Protocol requires that the lower of [server version, client version] is
returned to the client.

The other part of the issue discussed in reply to [1] remains.

Reported-by: Julien Cristau

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

 render: reply with the server or client version, whichever is lower.
xfree86: silence warning: ‘ramplen’ may be used uninitialized

‘ramplen’ is only set and used if stuff->size > 0 but the compiler doesn’t pick that up.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2df10a49867635c341b1d1a9faad4dbae043a0f
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 17 18:14:38 2009 -0700

RRDestroyOutputProperty: Free randr property valid values

These were leaked when the property was destroyed.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d3a84906c00b8fe4a4e33fa8bff3ed66ceaafdec
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 17 18:14:37 2009 -0700

Free randr crtc and output pointer arrays

All of the crts and outputs were freed, but not the arrays full of pointers to them.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6086a6065666fb9ded5d99919ddfa51c66b76246
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 17 18:14:36 2009 -0700

xf8CrtcSetModeTransform: free adjusted_mode name too

The adjusted mode was freed, but any name allocated for that was leaked.

Signed-off-by: Keith Packard <keithp@keithp.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 088107827347cee05a6e5317bcebdbe282b9a3bc
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 17 18:14:35 2009 -0700

LoaderSortExtensions: free graph nodes
Free libpciaccess iterator in xf86PciProbe

xf86Xinput.c: get DIX event queue pointer once at InitInput time

The DIX event queue is allocated before InitInput is called, so fetch
the pointer there and not randomly at other times. This avoids failing
to fetch the pointer sometimes during server regen and then smashing
memory through the stale pointer from the previous server generation.

probe_devices_from_device_sections: don't leak list of devices

xf86MatchDevice returned malloc'd storage containing the list of
devices to look at; make sure that gets freed.

Eliminate bogus event resizing.

Now that all event queues hold internal events only, they never need
to be resized. Resizing them led to memory corruption as they would
get sized for an appropriate xEvent, not an internal event.
xfree86: fix up wrong use of OptionRec for AutoAddDevices andAutoEnableDevices

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 971d4eac1274db78efa546ea50ca5e01a80bbd81
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Sat Sep 19 15:48:30 2009 -0400

Xext: include security protocol header instead of client header

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a62664bc07b35aedb6b11b984c94341deb4486ca
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Sat Sep 19 16:01:52 2009 -0400

Bump fixesproto requirement to 4.1

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2a890d85e923e1da0331b02e58e95f98b1ff5de0
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Sun Sep 20 01:31:59 2009 -0400

fixes: Make sure invisible cursor is initialized with zero src/mask

This fixes a regression introduced in 9040dab76182d1a019ca7fe7b29733d2c199e61.

Signed-off-by: Thomas Jaeger <ThJaeger@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2bb3f0c87119e73157141431d7c00ab104d4b34b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 18 10:27:14 2009 +1000

xfree86: remove now unused variable

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
configure: Fix broken quoting for initialization of REQUIRED_MODULES

A recent change switched to C-style automatic string concatenation, (presumably for better readability and maintainability), but this doesn't actually work for the shell. So we revert to the previously working initialization.

This commit reverts one hunk of c947605eda082fbc0821efc0cc14fecd8f958fd0

commit 4982bbc3b49b1b61e63a8461ea803e41318c8187
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Sep 18 12:36:11 2009 +0300

xfree86: vgaarb: missing wrapping macro

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit af1af50de621bc451e6413fa5602ae5db2dc9809
Author: Martin-Éric Racine <q-funk@iki.fi>
Date:   Fri Sep 18 09:33:37 2009 +0300

xserver: added more Geode oddities to xf86AutoConfig.c

commit ec0ad408ef8d5a2cf7a2bd65d13de3ef3147308c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 17 16:01:29 2009 +1000

xfree86: use SendDevicePresenceEvents instead of manual event handling.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d0440275108920f5cb5d630f55fc9a320e496d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 16 10:58:52 2009 +1000

Require dmxproto 2.2.99.1

This requirement was introduced in code with commit e85775aa64d1e9322ce82090a26256af5e1fede0a.

Reported-by: Marvin Schmidt
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c947605eda082fbc0821efc0cc14fecd8f958fd0
configure.ac: move all protocol requirements to a single location.

Protocol requirements were spread throughout configure.ac, leaving us with a few locations where one DDX asked for a different version of the package than another.
For each protocol, define \texttt{\textless NAME\textgreater PROTO=\textquoteright [\textless name\textgreater proto \textgreater= version]} and assemble \texttt{REQUIRED\_MODULES} based on these.

Future changes to protocol versions need to only be done in a single place.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4d6b20c25af5f590f19530b6c007e3648a8037e3
Author: Shunichi Fuji <palglowr@gmail.com>
Date: Wed Sep 16 12:02:00 2009 +1000

dri: use noPanoramiXExtension directly.

\texttt{xf86LoaderCheckSymbol()} is never useful if using externed variable directly.
\texttt{noPanoramiXExtension} will be just used through \texttt{dlopen()} like other extension modules.

Signed-off-by: Shunichi Fuji <palglowr@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3853314d13b503684c9922715323f8033f5eb5de
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Sep 17 08:11:27 2009 -0700

Fix typo in Xephyr man page

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 2edf967b00963559552d061bb98b15243d978279
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Sep 17 15:24:01 2009 +1000

xserver: SIGIO option handling was incorrect.

reported by a user on \#radeon when DRI1 broke.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 715953bf5c00b4605dd6ab45c92140c0e81174ee
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Sep 15 21:13:00 2009 -0700
Check for -wrap support in the linker

Allows unit tests to be built with non-gnu-linkers that also have -wrap support

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e2c64551808988657069006f74c6780973ec0557
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Sep 15 21:13:48 2009 -0700

Add configuration option for use of SIGIO handlers for input events

Boolean option to enable/disable SIGIO handlers is set by the first of these found:

- UseSIGIO option is set in xorg.conf ServerFlags
- Default set at build time by ./configure --enable-use-sigio-by-default
- Platform default value: Solaris = no, all others = yes

This matches the current settings on all platforms except Solaris.
This reverts Solaris (for now) to the settings used in Xorg 1.6, before SIGIO support for Solaris was added, due to some system level bugs that won't be resolved in time for Xorg 1.7 release, but allows us to enable when those are resolved (or when we need to test if they're resolved).
See http://bugs.opensolaris.org/bugdatabase/view_bug.do?bug_id=6879897

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3bdf36476179257561b9409e3f49a77640fbb9f9
Author: Matthias Hopf <mhopf@suse.de>
Date:   Wed Sep 16 16:03:46 2009 +0200

Work around sporadic segfault on resume with intel/KMS due to cursor->bits == NULL.

Apparently SavedCursor is sometime tried to be set while already being set.

commit fe31f9c646bc26163497f29c3b833c090df0b3f9
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Sep 14 19:51:23 2009 -0700

Change xf86driestr.h includes to use xf86driproto.h instead

Clears warnings about obsolete headers, but raises minimum required version of xf86driproto to 2.1.0
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 159e03204093991ccd4133133c50c0cae88c828f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 15 11:39:09 2009 +1000

dmx: don’t include panoramiXsrv.h if building w/o Xinerama

Reported-by: Marvin Schmidt
Tested-by: Marvin Schmidt
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f56cbe1ef24415d0142b9a7d0ab0a031069ccb52
Author: Rémi Cardona <remi@gentoo.org>
Date:   Mon Sep 14 17:09:59 2009 +0200

dix: append "built-ins" to the font path in SetDefaultFontPath

49b93d8a3002db7196aa3fc1fd8dca1c12a55d6 made the hard dependency on a "fixed" font go away but only Xorg could use the built-ins fonts by default.

With this commit, all DDXs get "built-ins" appended to their FontPath, not just Xorg.

Tested with Xorg, Xvfb and Xnest.

Signed-off-by: Rémi Cardona <remi@gentoo.org>
Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Tested-by: Jon TURNLEY <jon.turney@dronecode.org.uk>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 139368f7f7ae192b592e24d013e8ca5ce4175e4fe1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Sep 15 17:53:50 2009 -0700

Fix num_masks/length overflow test for XiSelectEvents

Have to set windowid to a valid value first, since that check appears earlier in the code than the masks/length check.

Also have to have data[] set large enough so that reading mask data for 0xFFFF masks doesn't overflow past the end of the array into uninitialized data.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
test_convert_XIRawEvent: Don't write more data than the struct holds
sizeof(in.valuators.mask) * 8 == 40, but the valuators arrays only holds 36 entries, so the test was smashing the stack when 36 < i < 40 (leading to core dumps on Solaris x86, since the return address was overwritten with an invalid pointer).

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove stray semi-colon in protocol-common.c
Caused Sun compilers to issue warning: "protocol-common.c", line 141: warning: syntax error: empty declaration

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Fix module path in xorg.conf man page

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: vgaarb: rework wrapping function
No semantical changes.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Sep 14 13:52:53 2009 -0700

XQuartz: pbproxy: Remove debugging XBell()
(cherry picked from commit 1fd7c1fd4740393a32e261af33e64c19be48ca9a)

commits 663807ce0e65b51537540bb95ff3c18988e04c7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Sep 14 16:44:52 2009 +1000
	xserver 1.6.99.901 (xserver 1.7 RC1)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits f450be999268d118b384c04ea070c87ad48c4e59
Author: Soeren Sandmann <sandmann@daimi.au.dk>
Date: Fri Sep 11 04:03:06 2009 +0200

Add xoff and yoff to drawable->x and drawable->y in create_bits_picture().

These are 0, except when the drawable is a redirected window.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 2b00afec4b5b51851ae4cb0fba7baff3e10ef3f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Sep 14 15:59:41 2009 +1000

Update xorg.conf man page & sample for changes in Xorg 1.7

AllowMouseOpenFail description changed to reflect actual behaviour and point to AllowEmptyInput for previously described behaviour.

Update default DPMS mode timeouts to match new defaults set in April 2009 by commit d52fddefaeb43f15b677eeb6e4a288a9948373b

Update autoloaded module list to match ModuleDefaults in xf86Config.c
Update module subdir list to match stdSubdirs in loadmod.c

Add xorg.conf options that were added to the code:
- XkbDir option added in February 2009
  by commit 76f18b94bd2719a8199334742d021c4d0806187d
- DR12 option added in April 2008
  by 35982bc109d424c464551ab22ec90af69908c884

Remove xorg.conf options that were removed from the code:
- XkbDisable option was removed in January 2009
  by commit 40877c6680863bd6a8475f2bb0c54df55bcf0b0e
- PciProbe/Config options were removed in August 2008 by commit fdf7c747a8e1bc59dfb31b7f90dd5eab2687315b
- EstimateSizesAggressively was removed in August 2008 by commit cd1e8f26147919227e7624ac4c6b313d972a4d35
- loadable font modules were removed in July 2008 by commit affec10635343668839994ea2bac16c1d4524200
- ModInDev options were removed in December 2008 by commit 6de6fff35ac03d49fa61de195d4a0605e0ef8bf

(Also strips some trailing whitespaces to make git happier.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b6f5c54fc61588c638b987bde914b0e5ff9b655e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Sep 14 15:49:01 2009 +1000

xfree86: Change default font path to match configure.ac's --default-font-path.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 23dc4678e9333ba0ee1a5374521905fa3f4309c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 14 14:14:27 2009 +1000

dmx: use top_builddir, not top_srcdir to get libxfixes.la

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Tested-by: Byeong-ryeol Kim <brofkims@gmail.com>

commit 4650e6ebe6e3ea48a026ace60b25daa165580467
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 14 12:00:18 2009 +1000

xb: drop key presses for already repeating keys. (#23889)

The event sequence for continuously pressed keys with the keyboard driver is PRESS - PRESS - PRESS - ... - RELEASE. The first press sets the repeatKey to the keycode and the matching timer. The second press (on the same keycode) can be silently dropped instead of overwriting the timer again.

X.Org Bug 23889 <http://bugs.freedesktop.org/show_bug.cgi?id=23889>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>
commit c626a5578aa16c17eff68c1b15ed53828080d9d90
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Sun Sep 13 17:35:51 2009 +1000

xfree86: fix VT_WAITACTIVE control flow (#11477)

Move misplaced } to get the flow of

if (!ShareVTs) {
    VT_ACTIVATE
    VT_WAITACTIVE
}

X.Org Bug 11477 <http://bugs.freedesktop.org/show_bug.cgi?id=11477>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit d3c66d6b69c04466b8388586090dc48a0aad7684
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Mon Sep 14 08:03:17 2009 +1000

dix: FindChildForEvent needs init child to None.

silences compiler warning:
events.c: In function 'FixUpEventFromWindow':
events.c:2262: warning: 'child' may be used uninitialized in this function

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e85775aa64d1e9322c82090a26256af5e1fede0a
Author: Kevin E Martin <kem@redhat.com>
Date:  Mon Sep 14 08:01:56 2009 +1000

Include <X11/extensions/dmx.h> and remove _DMX_SERVER_ define.

Fixes build with newer dmx header files that have been split between dmx.h
and dmxext.h. _DMX_SERVER_ is no longer needed with the split headers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 232d43510e0f9f780a9f8eb857366e03acf2fcd
Author: Kevin E Martin <kem@redhat.com>
Date:  Mon Sep 14 08:00:42 2009 +1000

dmx: Make description match default option.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6389a190faa7c06bceddf1cc3acb280ebb5cc04a
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Sat Sep 12 21:47:51 2009 +0300

shave: use CC tag variable on libtool

This fix scratchbox compilation.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dfb106c846c880a06fa5caada92f45576eab7b00
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Sep 8 18:09:12 2009 +1000

configure: re-enable dmux build (default=auto)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 72607960c136894c4533a54cef7a9be64246f1a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Sep 9 11:02:22 2009 +1000

dmx: Remove some dead code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 88187ad889ab707fcae3f64890cdb291b567ec23
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Sep 9 11:02:18 2009 +1000

dmx: purge DMX EQ leftovers

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f3aaa46f27f802233e54b3c70ba827e0fcca2605
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Sep 9 09:51:45 2009 +1000

dmx: formatting fix to improve readability

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7a588e833e87dd07f167b9885d5ec43dde271ebe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Sep 8 18:14:43 2009 +1000
dmx: Default rules are now base, not xf86

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33243ae971db90477a29dfb0e51cc00e95e561bc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 17:04:08 2009 +1000

DMX: include xfixes lib, reshuffle include order to resolve linker errors.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2d46678762b12c9746fc8f89821c15705680ba35
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 17:46:06 2009 +1000

DMX: remove dmx-internal event queue.

The EQ is in the DIX now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 545f11139d600febf1c5fd46b11bea4352b82c32
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 17:14:53 2009 +1000

DMX: compiler warning fix (mixed declarations + code)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d703af74ced36968f4480507a7eb54d249b5edc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 17:13:38 2009 +1000

DMX: get the state from XKB for dmxCheckSpecialKeys

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6e52f9233176986508356f6ee4fcee86ba740e71
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 17:10:22 2009 +1000

DMX: fix dmxKeySymToKeyCode to work with mandatory XKB.

Approach taken is inefficient, it converts the xkb symbol table to a core
symbol table first and then extracts the keycode from there.
Consider this a todo for a rainy afternoon when the beer fridge demands
emptying.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 61ae0a5ca5de24590f444c405445124404ba9753
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 17:05:12 2009 +1000

dmx: fix up dmxKeyCodeToKeySym for XKB-only.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9caba3e2abcd0a1ff4ad4bf05708f0166c2218
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:12:25 2009 +1000

dmx: fix two calls to InitKeyboardDeviceStruct.

Takes RMLVO now instead of the keysyms directly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 29b9a10dad1ca780de90f4f1f63fd11fd7d1221b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:04:45 2009 +1000

dmx: XkbComponentNamesRec doesn't have a keymap field anymore.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a6f3f6a3ac76afbe01eb9049a63609476d2ed4d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 16:43:04 2009 +1000

dmx: switch lnx-input and usb-input over to xkb-only.

kbd*Convert are nearly identical, it just asks for merging. Not today though.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5d81acef75e80ae9d3ac7cb32d293ade62d6c5c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:24:02 2009 +1000

dmx: include xkbsrv.h to silence compiler.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 4da59f478686fa7e80a3837bf9fa61672c13c50b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 16:30:36 2009 +1000

xkb: split effectiveGroup calculation into separate utility function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8fb3fa28a5a1b36cedaad38055a607400828b9e1c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Sep 11 11:21:26 2009 -0700

compiler.h: include <string.h> before using memmove()

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit d908ee6e549fd8ff653e2c58e9637df347540ef9
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Thu Sep 10 20:56:18 2009 +0300

Revert "Make sys.c use compiler.h unaligned access functions"

This reverts commit 1b30545c04a51bfa3ff95a26d64962907a62ff15.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 281ebb453d2f5254e057a24e580dafa9abf82305
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Thu Sep 10 17:52:32 2009 +0300

xfree86: vgaarb: close and cleanup vga arbiter

So far there are no apparently issues on not closing the fd. But let's do the
right job here.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e62549b8d61cd739adbbd04487d96fe706da1370
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep  9 16:03:38 2009 +1000

Xext: don't try to initialize XTEST device properties if they failed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
dix: Remove two _X_EXPORT defines from the function definition.

These two are defined _X_EXPORT in their declaration anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9871f9be4e5b184b151ce93458b2578cc8c7b962
Author: Martin-Éric Racine <q-funk@iki.fi>
Date: Wed Sep 9 13:43:45 2009 +0300

Use lowercase PCI vendor ID for NSC.

dcommit f4350c66b493d63fa06be87caa958d7033232ea4
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Sep 9 15:48:33 2009 +1000

fbdevhw: Test for graphics:fb%d as well as graphics/fb%d

Apparently the kernel can't decide on an API to expose to userspace, so
let's just try both in the hope that one will work.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Michel Dänzer <michel@daenzer.net>

dcommit 72f6be540840b46aa4b158b98fac11a6f90dec9d1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Sep 4 11:13:55 2009 +1000

xfree86: remove now unused xf86CrtcShadowClear

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1f24638985ce053b696ca3359cc50b5be26cc0b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Sep 9 09:28:46 2009 +1000

kdrive: output meaningful error message for HAL devices.

kdrive ignores all devices from hal as they don't have the 'type' option
set. Instead of "Unrecognised device identifier!" print out "Ignoring
device from HAL." to indicate that the errors surrounding the device don't
really matter.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit ae812bb79668e59cda1f851fb1fabe9db9ea705f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 13:53:26 2009 +1000

Xnest: set the default pointer accel to the host's values (#10013)

The defaultPointerControl holds compile-time defaults for pointer acceleration. If an Xnest instance is started, it resets the hosts pointer accel values to these built-in defaults instead of using the host values.

This patch queries the host for the values before initializing the device, thus leaving the host values untouched.

X.Org Bug 10013 <http://bugs.freedesktop.org/show_bug.cgi?id=10013>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 97e3f4316b1c917f93d324f05d3a4551c1d051a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 8 09:55:22 2009 +1000

dix: auto-float SD's with SendCoreEvents "false"

AlwaysCore and SendCoreEvents specify whether a device is to send core events. A device that has either disabled is not supposed to send core events.

With MPX/XI2, a device that is attached automatically sends core events when the event is routed through the master device. Floating a slave device disables core events by breaking the route.

This patch automatically floats devices that have coreEvents disabled in the xorg.conf/HAL. This replicates the behaviour of a SendCoreEvents "false" device in server 1.6 and earlier.

The devices may still be reattached to a master at runtime.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 447bd4ce90113037a489ce55d9878523fe5294c7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 7 16:02:50 2009 +1000

kdrive: fix sdl build by removing old keySymsRec references.
These are set in kinput now through InitKeyboardDeviceStruct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d8aadfa5af85ce6613289efe119e592aa687ab03
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 7 15:04:33 2009 +1000

dix: remove unused and half-broken code to restore original classes.

In theory, the MD should change back to its old, original classes when the
last SD is detached. Thanks to the XTEST devices, we'll always have an SD
attached until the MD is removed. So let's not worry about that and do
nothing instead of having some code that's essentially untested.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e9a507acca01234de189f0f64da63bac32dc13fd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Sep 7 15:59:37 2009 +1000

kdrive: remove xkb member from KdKeyboardInfo

Wasn't being used by anyone.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cafa7c5f9017efdc33c348b6a55d80d44df0fe17
Author: Martin-Éric Racine <q-funk@iki.fi>
Date:   Tue Sep 8 23:52:52 2009 +0300

    Added comment with the PCI device ID of Geode SCx200 series.

commit d3ad1804a5216487b5837a80f3e53b81212dcf84
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Sep 8 15:25:19 2009 +0200

    EXA: Only take special code path for 1x1 fill for pixmaps.

    It doesn't make sense for windows.

    Also double-check that the data pointer is valid.

    Fixes http://bugs.freedesktop.org/show_bug.cgi?id=23461 (not sure that could
    happen on master even without this, but just in case)

commit a9d30f6a038166052a4684308db205bd4e60799e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Sep 8 17:43:24 2009 +1000

dix: GetKeyboardValuatorEvents doesn't recurse anymore - fix comment.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1bdc9ec617d357b076e9e69296018bc212d91c7d
Author: Eamon Walsh <efw@eamonwalsh.com>
Date: Fri Sep 4 21:49:29 2009 -0400

Fix "warning: left-hand operand of comma expression has no effect"

Signed-off-by: Eamon Walsh <efw@eamonwalsh.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9005ec4ce49d704d5055232d2a36acee3247be67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Sep 4 11:38:03 2009 +1000

dix: remove dixLookupResource - we don't have any users left.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Acked-by: Aaron Plattner <aplattner@nvidia.com>

commit 1e0caf9a2ca983f171976822d9c04bacc14e9af7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Sep 6 14:02:53 2009 -0700

XQuartz: launchd: Fallback on :0 if prefix:0 gives an error for the socket name
(cherry picked from commit 647c871dc9f2d0adc172b401cde89ffbdfcc4d7a)

commit 081f72390a25e2244561e238f77f98289a6a581
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 5 14:04:53 2009 -0700

XQuartz: Fix "warning: function declaration isn’t a prototype" noise
(cherry picked from commit 9a77905a975e562daa4230739937bb0b4caf087)

commit 7ece2cb220e4fe2c9a8c4c62361522a45adf22c1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Sep 5 14:03:19 2009 -0700

XQuartz: pbproxy: 64bit fixes: Properly process an array of Atoms
(cherry picked from commit 1b659cda1af02762a31cc7875e457b08c8dec68b5)

commit 1747120043cc5b5d201b7efd06b75ef08b032922
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
XQuartz: Fix a strcpy/strcmp typo  
(cherry picked from commit 701c24da3ef76a05ccbf2d7e84ccfa1b7c5d38e15)

commit be37f339a9ed90b9b5e44ae9b396ca73347078027  
Author: Michel Dänzer <daenzer@vmware.com>  
Date:   Fri Sep 4 23:11:13 2009 +0200

EXA: Stop hiding solid or gradient pictures from the driver.

Add support for solid pictures in exaTryDriverSolidFill(), but otherwise just pass solid and gradient pictures to the driver Composite hook.

While we're at it, clean up the logic to detect Composite operations which are effectively solid fills or copies. This should also fix some false negatives and positives.

commit 1f61bbeffdf2ad5a2c54121c75f3b049baf01708  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date:   Fri Sep 4 00:38:58 2009 -0700

XQuartz: Check the DISPLAY environment variable to see if the socket at startup is ours. If not, ignore it and fork/exec startx.

(cherry picked from commit 3d5e10cc360a04bf917227615fb9b825675124f)

commit 0a361d0e5f896351b98dc9765b4a33c79efa6f02  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date:   Thu Sep 3 19:40:11 2009 -0700

XQuartz: Use --with-launchd-id-prefix for consistency with xinit

Also actually honor LAUNCHD_ID_PREFIX and APPLE_APPLICATION_NAME
(cherry picked from commit 990038ab006b2f5e03dcecf385514ba4e4584bd25)

commit e6e83d81ee7366779d600cbb128034e248815339  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Fri Sep 4 14:51:08 2009 +1000

xserver 1.6.99.900

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc0841b6e87cdd752b44bb17cccb021c831a3e02a5  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Fri Sep 4 15:58:36 2009 +1000

shave: hack around the configure ld check for make distcheck.
configure calls $(CC) -print-prog-name=ld to get the binary for the linker. The shave script prints " CC \nld" which can't be parsed by configure, resulting in a fatal error.

This patch special-cases -print-prog-name and passes it though directly without any additional output.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 58d9a4c6356c98c32be2826410df027ece70d44d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 4 15:06:45 2009 +1000

xfree86: fix make distcheck after removal of Domain.note and RAC.Notes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8af2793a90e8e644a6a598adce3f752c15b3e37a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 3 11:30:48 2009 +1000

xkb: xkbGetKbdByName on the lastSlave needs to change the master (#21859)

If the layout is changed on a master's lastSlave, the master needs to change layout immediately. Otherwise, the master stays on the same layout until the lastSlave changes - which may not happen if only a single keyboard is available.

X.Org Bug 21859 <http://bugs.freedesktop.org/show_bug.cgi?id=21859>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 219ae5b628f9f6e2be0876d5911cc04e52bef58
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 16:38:53 2009 +1000

dix: hide the sequenceNumber key repeat hack behind two functions.

Just in case we figure out a better way to do it in the future.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bfb219ff532f3c78ba905424365ee7c5f7b5f21a2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 21 16:03:36 2009 +1000

input: allow for detectable autorepeat.
For core and XI1 events, store the key_repeat flag in the sequence number until TryClientEvents. The sequenceNumber is unset until TryClientEvents.

[Also thrown in, some random indentation changes. Thanks]

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3d988e01e41e98fc5160f825a250522ba274d09f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 21 15:15:41 2009 +1000

dix: improve code flow in TryClientEvents, better debugging messages.

Instead of a massive if (blah && blah), return early where possible.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6fb01c8286c16968fd07e4a5b78da89cd8768d79
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 4 10:57:33 2009 +1000

    require xf86vidmodeproto  2.2.99.1 or newer.

commit 2122fedb2c058dc27f9df0e856d2193fabe725e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 4 11:37:58 2009 +1000

    os: silence bigreqsproto compiler warning

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 59e731ef66095723e74a16b2e5548aed627089ff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 4 11:06:37 2009 +1000

    xfree86: silence some xf86dgaproto compiler warnings

    We already require xf86dgaproto > 2.0.99 since 6fffcd582

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ead57a13531aa14033839112fa66e33e142f67da
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Sep 4 11:03:55 2009 +1000

    xfree86: silence 'unused variable' compiler warning
os: don't redefine GNU_SOURCE

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 21f04f008e6b1ab66a63de3de668b1f261a6928a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Sep 4 11:01:09 2009 +1000

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09f0ee1324b046f2830bddd260f6e2a67ee8f2973
Author: Martin-Éric Racine <q-funk@iki.fi>
Date: Fri Sep 4 04:17:09 2009 +0300

Formatted recent Geode PCI ID changes to fit a 80-column coding style.

commit a17b50b130fe01c058a74f2696a8b97c756acb49
Author: Martin-Éric Racine <q-funk@iki.fi>
Date: Fri Sep 4 03:51:01 2009 +0300

Further explained what the Geode PCI ID is all about as comments.

commit afd800dae4f7491baee08509094a30160bb9c849
Author: Martin-Éric Racine <q-funk@iki.fi>
Date: Fri Sep 4 03:41:08 2009 +0300

Removed unnecessary curly braces for Geode LX PCI ID.

commit 842b7a47d583a77290999de3031ae209777dddf774
Author: Martin-Éric Racine <q-funk@iki.fi>
Date: Fri Sep 4 03:25:32 2009 +0300

Updated the PCI Vendor and Device IDs for all Geode variants.

In practice, some of the native drivers for older Geode products have become deprecated due to lack of e.g. libpciaccess upgrade, but that's OK, since most distributions don't ship them anymore. In that case, we'll let X server fall back to good old VESA.

commit 8e873185f4cbfb2a36e1f43fe7da47fd9fd5aeaa
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu Sep 3 19:11:02 2009 +0200


Otherwise we may incorrectly clobber it to NULL on repeated PrepareAccess calls.
commit 120286ae59dabdb7c9fa762e08457e5cc8ec3a6
Author: Michel Dänzer <daenzer@vmware.com>
Date:    Thu Sep 3 08:05:59 2009 +0200

glx: Add screen DestroyWindow wrapper to destroy the GLX drawable.

    Fixes crashes exiting MacSlow's rgba-glx demo.

commit f04fe06ae244b851b38be824b1a80f2f8a030591
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 3 14:17:14 2009 +1000

dix: don't return BadMatch from GetProperty (#23562)

dixLookupWindow may return BadMatch if the window in question isn't actually
a window. In this case, GetProperty needs to return BadWindow - not
BadMatch.

    X.Org Bug 23562 <http://bugs.freedesktop.org/show_bug.cgi?id=23562>

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 84eb4c66a4a09c360cef260fb2f35dfb6d8a93c6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 3 10:00:42 2009 +1000

test: add protocol testing for XIWarpPointer.

    TODO: some way to check src_x/y coordinates would be good.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1b7858e8469ae6d2031039ba41d7191a4b80f28
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 3 10:58:00 2009 +1000

test: expose the default screen to tests, some cleanup work.

    Provide common #define for invalid window IDs.
    Init the sprite's hotPhys, provide a common #define for the initial sprite
    position.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 61a6e1f074d9ff75d61446b946aab6c04019c287
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Thu Sep 3 10:00:00 2009 +1000
Xi: return BadDevice for master kbds and attached slaves in XIWarpPointer

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8939ad2b2aa0385f072d3e1169eaf99289ed737a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Sep 3 09:44:11 2009 +1000

Xi: return error values to client from XIWarpPointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d481720c57f558c47273bf89854fc69254319772
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 2 15:28:28 2009 +1000

Xi: standardise XI2 headers.

Adding missing dix-config.h include, adding one missing header guard.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 377a5f655ca88cd836da24ab42361df9f3ff51a2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 2 11:16:15 2009 +1000

Xi: if XISetEventMask fails, return this to the client.

The only failure point can be a BadAlloc.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 993ca5acbcdeceef9e43cd6580e7cc22cfa1a2578
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 2 10:53:40 2009 +1000

dix: when unsetting a cursor, update the sprite immediately (#23608)

Removing the device cursor while the cursor was within the window did not
update the visible sprite until the next enter/leave event.

X.Org Bug 23608 <http://bugs.freedesktop.org/show_bug.cgi?id=23608>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b41db8fe460fc0956922b79261752d1bb104684f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Sep 2 08:57:40 2009 +1000
Xi: fix broken swap code in XISelectEvents request processing.

The pointer advanced 12 bytes too short. Rather unfortunate if both the code and the test have the same bug.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 727de7c90de4198222e0dc58d7503b4a1672f642
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 16:33:56 2009 +1000

Xi: Unify checking for invalid bits in grab masks.

Bits above XI2LASTEVENT are invalid and cause in BadValues. These checks must be performed anywhere where a mask_len parameter is given.

This patch also adds the missing checks to grab masks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 59a6d7d478903a8bc9c5d4cc8b2e62e2ad102dba
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 16:30:52 2009 +1000

Xi: don't overrun memory for grab masks.

A grab mask provided in the request may be larger than the one used in the server. Cut down to size before memcopying.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83db2b126e8623824e1303e74070375994984599
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 15:58:02 2009 +1000

Xi: don't try to set oversized or non-existing masks.

Fixes crash if the first XISelectEvents has a zero sized event mask.
Fixes crash if the mask provided is larger than others->xi2mask[].

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6fe235d3635aaaf995dfa198c60ded1a43fe9dd45
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 15:46:34 2009 +1000

test: fix request length calculation, add length tests for XISelectEvents
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 7ab1b50c545ae1a62384bedee60168e227bb2a94
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 15:27:29 2009 +1000

test: fix build after changing libxf86config.la

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 58c298acc1045927e0d90be73b8d8cb8837252589
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Sep 1 15:16:17 2009 +1000

Xi: extra length checking for requests providing masks.

masks can be of arbitrary length. If the client did not initialize mask_len,
some sort of boundary check is needed to avoid running over memory.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e4dd3b2d28d3dbbfc152d6f5030901ec063a7ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 31 09:50:36 2009 +1000

Un-export ApplyPointerMapping. This is an in-server function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a470e8426ee290046a927a17fc969235c4b1e2e7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Sep 2 17:56:52 2009 -0400

Correct outdated e-mail address in "Author" statements.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 17545ed80ee3bb6a058a2748fc7bb0fc5139fc1
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 2 14:40:07 2009 -0400

randr: Fix crtc using set_mode_major()

We'd never mark the crtc as active, meaning (among other things) gamma
upload wouldn't work.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Author: Dave Airlie <airlied@linux.ie>
Date: Wed Sep 2 20:14:30 2009 +1000

vgaarb: protect fini as well just in case

commit 8eadbf0840efc0e9a073e60d6f0c0dab313060
Author: Dave Airlie <airlied@linux.ie>
Date: Wed Sep 2 19:07:40 2009 +1000

vgaarb: if arb init fails, make sure locking doesn't occur.

pointed out by Martin Jansa on irc.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 0e46066e6ea4e385b2874d4a62a786957e572fe5
Author: Jerome Glisse <jglisse@redhat.com>
Date: Tue Sep 1 13:59:47 2009 +0200

Xext: fix a typo for bigreqsproto.h header file

Signed-off-by: Jerome Glisse <jglisse@redhat.com>

commit c61d8ce1507318476b75b81bf871da19cb1bf747
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Aug 31 17:57:50 2009 -0700

Xext: Require newer versions of xcmiscproto, bigreqsproto, and xf86bigfontproto for new *proto.h header file names

  bigreqsproto >= 1.1.0
  xcmiscproto >= 1.2.0
  xf86bigfontproto >= 1.2.0

commit 1c37be80982151a5acd74fe4b960695604f22ca
Author: Michael Witrant <mike@lepton.fr>
Date: Tue Sep 1 10:46:50 2009 +1000

XFree86: Linux: Fix 100% CPU usage with ShareVTs and kbd

Leave consoleFd open over the course of the server, even though any use of it in this context is likely to be disastrous.

Signed-off-by: Michael Witrant <mike@lepton.fr>
Reviewed-by: Daniel Stone <daniel@fooishbar.org>

commit 65183dc3153232943dff3cfbaacab141e7ed0e9c
Author: Daniel Stone <daniel@fooishbar.org>
Input: Mark Xi input events as critical

Note that the Xi events are critical and should thus cause a flush to the client when an input event is pending.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit a4e614d301cfa2577de1ee6a15abf023590586d1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Apr 25 16:46:10 2009 +1000

Xi: Fix harmless ButtonPress/ButtonRelease confusion

A missing break meant that ButtonPress would fall through into ButtonRelease, but luckily it appears to have been completely harmless.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 5ef53a94ce4e48e11de26290cd677266308640c8
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 20:23:26 2009 -0400

alpha: kill xf86SlowBCopyToBus and xf86SlowBCopyFromBus

xf86SlowBCopyToBus and xf86SlowBCopyFromBus cause segfaults on my system.

Also remove associated slowbcopy_tobus/slowbcopy_frombus macros.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit a8e634b86d47353ef354717904fa66ebe35e1303
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Aug 31 15:53:58 2009 -0700

XQuartz: GLX: Drawable does not contain resize anymore.
(cherry picked from commit 1e642f22fb0299b3917091cb5fa2f78b4a92f62)

commit 1b30545c04a51bfa3ff95a26d64962907a62ff15
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 16:16:02 2009 -0400

Make sys.c use compiler.h unaligned access functions

Signed-off-by: Matt Turner <mattst88@gmail.com>
Remove unused Delay.c

Signed-off-by: Matt Turner <mattst88@gmail.com>

Remove unused BUSmemcpy.c

BUSmemcpy.c provides xf86BusToMem and xf86MemToBus, which are memcpy wrappers written to avoid glibc's memcpy on Alpha. glibc's memcpy on Alpha has improved much since this was written, so it's no longer needed. Neither function is used inside the xserver, and no module on my machine uses either as well.

Signed-off-by: Matt Turner <mattst88@gmail.com>

Remove unused ia64_flush_cache function

Signed-off-by: Matt Turner <mattst88@gmail.com>

Simplify unaligned access code

All architectures should be able to use the same unaligned access code, regardless of whether they need special unaligned access instructions. Let's let gcc do the heavy lifting.

In the case that we're not using a gcc-compatible compiler, use memmove.

The xserver already requires pixman, so include pixman.h for its uint*_t types.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 9522ab9a98e98be394703038e34b1c12aa39a179
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 16:12:29 2009 -0400

Remove unused Delay.c

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 4fac13ff8848be38654b5567170fbc0d7b2c96d6
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 16:11:59 2009 -0400

Remove unused BUSmemcpy.c

BUSmemcpy.c provides xf86BusToMem and xf86MemToBus, which are memcpy wrappers written to avoid glibc's memcpy on Alpha. glibc's memcpy on Alpha has improved much since this was written, so it's no longer needed. Neither function is used inside the xserver, and no module on my machine uses either as well.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit b65146fc8418b53b7e43dd34cc20000369475671
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 16:11:10 2009 -0400

Remove unused ia64_flush_cache function

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit f201705e29bdc3309dd611b461ec67740cb706ef
Author: Matt Turner <mattst88@gmail.com>
Date: Mon Aug 31 16:09:33 2009 -0400

Simplify unaligned access code

All architectures should be able to use the same unaligned access code, regardless of whether they need special unaligned access instructions. Let's let gcc do the heavy lifting.

In the case that we're not using a gcc-compatible compiler, use memmove.

The xserver already requires pixman, so include pixman.h for its uint*_t types.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 3718beb69cc5b4cdb79dd97242f3ce9231a26a39a
Clean up unaligned access functions on alpha

Checks for __GNUC__ are superfluous since the only other compiler for the platform is Compaq C, and it doesn't support GCC style inline assembly.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit e1fdd7671346ce374a2b77fe94b8c1a25c0520da
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 16:08:20 2009 -0400

Move unaligned access functions to common section

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 628b863bce6a2a14fd3c0e6c2be4394833cc314c
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:53:41 2009 -0400

Remove unused arm_flush_cache function

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit a544139196ac7f5bc89bc642c6c5c0ea1b0bb60e
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:53:19 2009 -0400

Remove unused ppc_flush_icache function

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 52aa0495218dc7821a23b045b2c74b2a66e34616
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:52:39 2009 -0400

Replace 8 nops with proper sync instruction on mips

Cc: Ralf Baechle <ralf@linux-mips.org>
Acked-by: David Daney <ddaney@caviumnetworks.com>
Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 563fa1c5d762173cd6fb78f9e33cb960ef3153bb
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:52:10 2009 -0400
Use sfence and mfence instructions on amd64

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 430e4af0d6e2cad03ca5f49ec6e87f3717d0d9e2
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:51:41 2009 -0400

Add x86 barrier macros

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 0d87f77a3ff4b22729220b7edcb98c6f06d0787c
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:51:05 2009 -0400

define barrier macros as nops if not otherwise defined

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 1b43ee13b30d9e3f828e94cdf686d103ce1cac07
Author: Matt Turner <mattst88@gmail.com>
Date:   Mon Aug 31 15:53:58 2009 -0400

Move memory barrier macros into common section

alphabetize by architecture also.

Signed-off-by: Matt Turner <mattst88@gmail.com>

commit 295e598d9a83ff7162a093810ca9f546d00c0968
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Aug 31 20:04:51 2009 +0300

xfree86: remove _more_ RAC junk

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 38627b2eaf64a8fe694fc3e1f5e4fee0c9c11c3
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Aug 31 19:36:02 2009 +0300

xfree86: shut up vgaarb warnings when server doesn't support it

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 79182538b43ecd35bf2b47eccfb2dd3bbedc12eb
xfree86: removal of some dead code due VGA arbiter's inclusion

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 6f3cc08ec01609c7e5e4241c3e30fe4f9391007
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Aug 27 16:21:11 2009 -0700

XQuartz: GL: Unset GL_EXT_gpu_program_parameters for Tiger/ppc

See http://trac.macports.org/ticket/20638
(cherry picked from commit 0f3a89d306838b3c75a73cd1e9e2928737222b70)

commit fdb29ebed143fa05630966b847b05399a446ddc
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Aug 27 11:04:00 2009 -0700

XQuartz: GL: Explicitly set GL_EXT symbols to 0 if they are not in OpenGL.framework to prevent X11's glext.h from setting them to 1.
(cherry picked from commit 7fe37137d826d1b698e87a5b35050dd02f0a4d4b)

commit 3be80bd98357cf362a9a004d1292e5167d83a17
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 28 16:20:59 2009 +1000

Xi: silence compiler warning "type may be used uninitialized"

GrabKey and GrabButton are only called from XI/XI2 code. Set type to -1, just in case.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 24716b9254fa7d609792596723a192bb044a7d3f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Aug 28 22:52:48 2009 -0400

xace: fix up access modes in dixLookupDrawable calls from dri2.

Referencing a screen through a drawable only requires GetAttr access.
Treat dri2 drawables as child windows (Add/Remove access).
Treat getting buffers as intent to read/write the drawable.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 0f3a64c3a5bce6cf3f00fe42cc7d1d3e69822945
Add DRI2 requests to protocol.txt

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 3d17c4f6e1538986fe7b1f17614d76e28f2d1e11
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Aug 28 12:12:52 2009 -0400

EDID: Vendor detailed blocks aren't worth X_WARNING about

commit 2c1a845521a31f08938b0f8d6e38835ce127c94a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Aug 28 12:09:57 2009 -0400

EDID: Print 1152x864 in established timings, not x870

The spec says x870, but we actually use x864 because that's a real DMT mode and x870 isn't. This might or might not be wrong, but we should at least tell the truth.

commit 2a806d7fa372e28d039761c9b4087cf812e8e46b
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Aug 28 16:05:04 2009 +0300

os: remove unused -cursor option

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 9040dab76182d1a019ca7fe7b29733d2c199e61
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Aug 28 15:50:50 2009 +0300

xfixes: minor clean ups on createInvisibleCursor()

- unused return value
- no reason to declare static variable given the function is just called once
- no reason to declare different type and cast it after.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 80ed8096f9b8e974b556a6c9f3b600fb71b994c3
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Aug 28 15:33:19 2009 +0300
render: delete unused headers declaration

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit f959b1e5485b93700c7da449a98182f5ce067ca2
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Aug 28 15:30:21 2009 +0300

render: AnimCurInit and AnimCursorCreate shouldn't be _X_EXPORT

Pointed by Peter Hutterer on xorg-devel ml.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit e454f106dc65ecfacc154a1fa0810935022a8fee
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Aug 28 11:39:42 2009 +1000

xf86 dx: add vga arbiter support.

This adds support for using the libpciaccess interface for
vga arbitration support on top of a kernel which supports it.

Currently patches are queued for kernel 2.6.32 in jbarnes
pci tree, and shipping in Fedora kernel.

Co-authors:
Tiago Vignatti <tiago.vignatti@nokia.com>

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 6fffcd5825454a7fe58ffbcfb219f007cf38e731
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 27 13:43:15 2009 +1000

xfree86: require xf86dgaproto 2.0.99.1.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2fba2eac0b4c8d07bdf7bea20ef75ff579621728
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 24 11:23:23 2009 +1000

test: add a few tests for xtest device initialization.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 903c3db1d1685bd855dceed9e7b92890743663e1
Xext: rename Xtst* to XTest*

This patch corrects a misnaming of XTest-related functions.

The extension itself announces itself as XTEST. Xtst is the library name itself, but all library functions are prefixed by XTest. Same with the naming in the server.

- Rename all *Xtst* functions to *XTest* for consistency with the library and in-server API.
- Rename the "Xtst device" property to "XTEST device" for consistency with the extension naming.
- Rename the device naming to "<master device name> XTEST device". The default xtest devices become "Virtual core XTEST pointer" and "Virtual core XTEST keyboard".

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8bfd23e144e51401e3756de9260a4811fcc59e91
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 24 09:38:15 2009 +1000

input: move XTest device initialization into Xext/xtest.c

XTest devices are non-optional but nonetheless specific to the XTEST extension.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a95f80fa914678d360f6dfe2b58926193d6ea4a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 24 09:26:56 2009 +1000

dix: use IsXtstDevice instead of the direct key lookup.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 16b7ebd7d876034edfe8f74562bd06e747879d79
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 24 14:34:23 2009 +1000

xfree86: Remove xf86GetMotionEvents from public API.

This function was used as the default motion event queue API until including XINPUT_ABI 2 (server 1.5).
This API was broken with 1883485 in May 2008 (wrong casting of parameters) and isn't in use by input drivers past ABI 3.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit af76bddd7a47092e2f0f85b2547c1cc74eb5cebc
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Aug 9 16:13:32 2009 -0700

XQuartz: Check NSINTEGER_DEFINED to make sure the NSInteger and NSUInteger types are defined.
(cherry picked from commit 36e02a8649e0a545084cde5f2c5717277b9273c)

commit 07c935b72fb14cb12f1cb5afbf8cc81f97086bac
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 25 20:11:38 2009 -0700

XQuartz: Use applewmproto 1.4 updated headers.
(cherry picked from commit 203df06c0eb2dcd5adfa788a1ba9569650c15f9c)

commit 0f613007cd43545eda40825bd74ada3e6e5f36f6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Aug 5 17:43:29 2009 -0700

CheckWindowOptionalNeed: Ensure w->optional is set to avoid SEGFAULT

If CheckWindowOptionalNeed is called consecutively (and the first removes optional), then we will SEGFAULT. This can happen in XQuartz because ReparentWindow will call pScreen->ReparentWindow which can DeleteProperty which will CheckWindowOptionalNeed... then ReparentWindow will call it again later indiscriminantly.
(cherry picked from commit b608c864c59628bd33c033393121b61580460e)

commit e7dd1e3ef408e4e52d0bd3d3aa0b5d4ee10ed90
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 25 18:07:00 2009 -0700

Ensure that rotation updates happen frequently

The smart scheduler is designed to minimize scheduler overhead by increasing the interval between WaitForSomething calls when a single client is running. However, the software rotation code depends on its BlockHandler being invoked for screen updates; the long delays caused by the smart scheduler optimizations means that screen updates can be delayed a long time as well.

The change is simple -- prevent the smart scheduler from increasing the scheduling interval while any screen is using software rotation.
Perform rotation redisplay before calling driver block handler (which may flush rendering)

The rotation block handler uses regular driver rendering functions to repaint the screen, if those functions queue commands in the driver, it's important that the driver block handler be invoked after the rotated image is drawn.

xf86_reload.Cursors: fix cursor position to eliminate jumping after mode set

xf86_reload.Cursors restores the cursor to the correct position, but that must adjust for cursor hot spot and frame before calling down to the hardware function, otherwise the cursor jumps to the wrong position until it is repositioned by the user.

Xi: fix XIWarpPointer up for FP3232 as input coordinates.

requires inputproto 1.99.902

Xi: fix swapping for XIWarpPointer and XIChangeCursor requests.
Xext: remove un-used extern of DeviceMotionNotify.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 80f18a73267bd3090e459de609a7006a21e6c649
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 24 09:21:03 2009 +1000

input: move CorePointer/KeyboardProc declarations into header.

The extern declaration in xichangehierarchy.c was broken anyway. This fixes a crash on creating a new master device.

Reported-by: Maxim Levitsky
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b96823713129f641ee99306e3cadba8dfe21afa2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 24 09:06:29 2009 +1000

mi: include shmint.h if needed, silence compiler warning.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1b3859a49a3861517c9b34f6e8750f7ae0ff2b5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 21 12:29:39 2009 +1000

Xi: add swapping hook for XIGetFocus reply.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fe430d7d3b0a85fbea9e93171423688f76dc9e1e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 21 12:09:32 2009 +1000

test: add XIQueryPointer protocol tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 285c88018ba4b3819500027c9b6a05b8c27ff2ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 21 11:38:42 2009 +1000

Xi: correct length field for XIQueryPointer reply.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e4ea91a02d6fac9dad844150c5d2fbe7dc9629b1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 12:12:05 2009 +1000

Xi: allow XIQueryPointer requests for master pointers and floating slaves.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8e396f2b806496edcac233cc731b0322735020c3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 12:11:19 2009 +1000

Xi: fix swapping for XIQueryPointer request/reply handling.

buttons_size is necessary as WriteToClient swaps the buttons_len field, resulting in the wrong number of bytes being written later.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f1c856ef9073d9d02bc84ce1472883c8441a9758
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 10:42:15 2009 +1000

test: fake initialization of a sprite trace and window locations

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 58fd28f6b6bebab7f31c54e696f96d64ebb50f5a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 09:44:37 2009 +1000

Xi: return deviceid as error value in XIQueryPointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b41dd4328bf8a0981d299bb60f986a2bc55fd24
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 21 09:43:46 2009 +1000

record: include recordproto.h, require recordproto 1.13.99.1

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 65354e5a698a5b527db09af431110afba0e14b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Xi: return BadDevice for changing device cursors on non-master pointers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ef75301854d41c6b11dd2742fa9d17a5de8a4cfa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 20 10:52:24 2009 +1000

dix: FixUpEventFromWindow mustn't scramble non-device events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c73cd3b265c301b8a54ffe484d6c696f2abe6b46
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Sun Aug 16 18:07:49 2009 -0700

xfree86: Link libselinux with Xorg system libraries

Put the reference to -lselinux in XORG_SYS_LIBS so it isn't added as a make dependency for libxorg.la. Otherwise, make goes looking for a file -lselinux in the current directory, which it obviously won't find.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Tested-by: Justin P. Mattock <justinmattock@gmail.com>

commit 9d8fc33cae2fee777edd20658dbf6a3ff3db3d557
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Aug 20 16:56:04 2009 -0400

composite: Move screen init before extension registration.

Otherwise, you'd still advertise the extension even if no screens actually supported it, and the first Composite protocol request would probably crash.

commit ae68708ebe24e4cdf8c5265e206f6913d9298f37
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Aug 20 15:45:57 2009 -0400

xfree86: dump /proc/cmdline in the log on Linux

commit 0b131a5cd91cea54240777c66a9cd385029e8cb2
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Aug 20 15:28:57 2009 -0400

linux: Yet more malloc() avoidance for backtrace()
Turns out, there's an initializer at the top of backtrace() that (on some arches) calls dlopen(). dlopen(), unsurprisingly, calls malloc(). So, call backtrace() early in signal handler setup so we can later safely call it from the signal handler itself.

commit 792dec3854cbede64e17fd4736831edad295706
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 19 18:20:54 2009 +0300

xfree86: remove bus state change notification callback

No one is using bus notifications now. We hope that the kernel take care of this properly.

For other not-so-urgent-notifications (ACPI wakeups, etc) we can just register a handler on server's scheduler (using xf86AddGeneralHandler). And for external applications, the "trend" is to use HAL to kick notifications. So we're already provided of enough notification schemes.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit eb031d4013d36f6aef4aba45840762ae8635cc13
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 19 15:42:34 2009 -0400

linux: hand-roll a backtrace printer instead of using backtrace_symbols

Why? Because backtrace_symbols calls malloc, which you can't do from a signal handler. Face? Palm.

commit 75b9383d8a4c113ab3c6e6c1d5efeb5d9982a1bf
Author: Jesse Adkins <jesse_adkins7@yahoo.com>
Date:   Tue Aug 18 21:13:40 2009 -0700

xserver doesn't stop all connections to localhost

X.Org Bugzilla #23329: http://bugs.freedesktop.org/show_bug.cgi?id=23329
Patch #28648: http://bugs.freedesktop.org/attachment.cgi?id=28648

I noticed in xserver at os/access.c that xorg tries to stop connections to localhost by checking against the address 127.0.0.1. However, RFC 3330 defines the localhost network as 127.0.0.0/8. This means that any IPv4 address that starts with 127 is just another name for localhost.

commit 2d34eace13c2016048c627c4e96c3b2399901078
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Aug 18 20:11:23 2009 -0700

Sun bug 6872917: Xorg not querying /dev/fb when no xorg.conf exists

commit 48ee5558333bd324463b6994735cab23de262cc (OpenSolaris VT support)
broke the autoconfiguration code in xf86AutoConfig.c that uses the
Solaris-specific VIS_GETIDENTIFIER ioctl on a frame buffer device like
/dev/fb by changing xf86Info.consoleFd from /dev/fb to a /dev/vt/*
device.

This fixes it by reworking the code to split the console device
(/dev/vt/*, the vtXX CLI option) from the frame buffer device
(/dev/fb, -dev option) to allow both VT and autoconfig to work.

It also fixes the console device to use /dev/fb when VT's are not
supported instead of throwing a Fatal Error because it can't open
/dev/vt/0.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit d225230148b3cdab3b32fcee3abee26b818d4bab0
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Tue Aug 18 12:15:32 2009 -0700

xfree86/linux: don't change VT perms unless we're running as root

In non-setuid root installations, we shouldn't try to adjust VT/tty
ownership. It will fail, and shouldn't be necessary anyway (since
startup scripts or PAM should be handling perms for us in that case).

Signed-off-by: Jesse Barnes <jbarnes@virtuousgeek.org>

commit 41884b8f4dfe4d931c64a6046adefcc2b7646c2
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Tue Aug 18 15:47:56 2009 +0300

xfree86: remove unused code (xf86Configure.c)

The xorg.conf generator was not assigning correctly the primary device
("bootable") as screen zero. So just skip this kind of routines for now.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 09737626f256e3ae37a16b343ed1e3441a8f003
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Tue Aug 18 13:13:57 2009 +0300

xfree86: remove unaffected code (xf86Configure.c)
Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit dd8960a9f37f3be65c8b99e058c3772edfda7b6db
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Aug 18 12:53:47 2009 +0300

xfree86: remove stupid macro (xf86Configure.c)

It was confusing more instead helping.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 4ec7667bb17839bd4ec11091c75ecff317fc96c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Aug 18 12:33:35 2009 +0300

xfree86: remove wrong commentary

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 2e8c2b8ae6a092871838b7cceaa4a7590bce1d3
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Aug 18 12:28:15 2009 +0300

xfree86: header clean up (xf86Configure.c)

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 2df414a33321ae772af1e7e52c36aeec222bb3c8f
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Aug 18 12:14:27 2009 +0300

xfree86: reorganize xf86Configure.c

No semantical changes. Only code moved around.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 113e66a1ffe2a43e4d1c92a7d78ca43b4db58822
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sun Aug 16 21:02:11 2009 +0300

xfree86: remove unused PCI header

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 6b5978dcef7ac3ecc2f22df06f7000f360e2066
Do not reset lastDeviceEventTime when we do dixSaveScreens

When we turn off DPMS with DPMSModeOff and do dixSaveScreens, don't reset the event time else session clients using IDLETIME will be reset.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4098ad72d00e65d142fb9fe8a1194be35338508b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Sun Aug 16 00:06:10 2009 -0400

  xace: fix access mode in dixLookupWindow within several RandR calls.

  Referencing a screen using a window only requires GetAttr access.

  Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit d4b8f7602b5e266a0ebd3b1ba23724362cc7de3a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 10 18:39:04 2009 -0400

  xace: fix access mode in dixLookupWindow call within ProcUngrabKey.

  Referencing a window (as grab-window) only requires GetAttr access.

  Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 6d2f4e487869f10de4a62365b4d6de036c752ab8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 10 18:36:53 2009 -0400

  Add XI2 requests to protocol.txt

  Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 73975ef3a39ce522c6206ca800ed175fbf851dcf
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 10 18:34:07 2009 -0400

  xselinux: Allow per-client device create contexts.

  The previous behavior was to set the serverClient's value which was used globally. This is in support of XI2, where clients can create device pairs directly.

  Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
xselinux: Add more new device permissions for XI2.

Reflects the ability of clients to create/destroy device objects.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

configure: fix help string after Xnest default build was changed

Signed-off-by: Rémi Cardona <remi@gentoo.org>

dix: rework DeviceChangedEvents a bit.

DCEs are now processed when sent through the master device, not when sent through the slave device. This includes a removal of some un-used (or partly used) fields in the DCE itself to something more self-explanatory.

TODO: if a device has events queued and its attachment is changed, the DCE is silently dropped now. Instead, it should be generated as soon as the first event after the attachment is sent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Don't reset the lastDeviceEventTime when doing DPMS actions
When we change the DPMS mode, don't play games with the last event time as
this breaks applications using IDLETIME to turn the backlight off after a
preset time.

This patch fixes gnome-power-manager and xfce-power-manager

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dca4de72d375c4b9bcedd25b151e291a77a5b06cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Aug 15 20:17:20 2009 +1000
dix: fix potential use of unused variable 'mask'.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 978b65bce14598f2d42ca0177ea58fe71f1c12c5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 14 15:05:42 2009 +1000
include: XInputExtensionInit doesn't need to be exported.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3989dc1d34f116f30915632cc5286937392e180a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 11 16:20:20 2009 +1000
dix: use the XI2 defines for class types.
Doesn't matter really, they have the same values anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fe045820f1fb33991e8bff5c6e192097ca85727
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 10 15:34:00 2009 +1000
input: move DeviceChangedEvent conversion into eventconvert.c
The version in eventconvert.c was half broken and for some reason we ended
up with a second version in exevents.c (which works). Move it over to where
it belongs and call EventToXI2 instad of having a custom function for it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33eb6f70816921abc5da62e434f40e78d672274e
include: Unexport most symbols from exevents.h.
And shuffle them around so that the part used by drivers is up the top and commented.
Also, woo, the sdksyms script doesn't like declarations with return type and function name on the same line...

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1373c2ea877b562076a4a3e97e8e4f999c977217
Author: Dave Airlie <airlied@redhat.com>
Date:   Sat Aug 15 12:14:26 2009 +1000

exa: clarify createpixmap2 new pitch return

commit 48ee5558333bd324463b6994735cabb23de262ec
Author: Aaron Zang <Aaron.Zang@Sun.COM>
Date: Mon Aug 3 23:21:39 2009 -0700

Add new VT support for OpenSolaris & future Solaris releases

Signed-off-by: Aaron Zang <Aaron.Zang@Sun.COM>
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 613e76f19055d8ac2b1af1130668180646a9e14c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Aug 3 21:38:51 2009 -0700

Remove support for Solaris x86 releases older than Solaris 8
If you want to run a pre-1999 kernel, you'll need a pre-2009 X server
[Some pre-Solaris 8 VT support is left by this patch to allow reuse by the new Solaris VT support that follows in the next patch.]

Signed-off-by: Aaron Zang <Aaron.Zang@Sun.COM>
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 6c292d17053eb2a7e7054e51210f423dbc0cb7e8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 14 11:48:54 2009 +1000
dix: update the sprite trace for all masters && floating slaves (#23257)
When the windows are restructured, CheckMotion needs to be called for all masters and floating slaves to update the spriteTrace.

X.Org Bug 23257 <http://bugs.freedesktop.org/show_bug.cgi?id=23257>

Tested-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 49046088f10cceedae7da97401d742d3f5b59371f5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 14 09:48:45 2009 +1000

config: don't shutdown the libhal ctx if it failed to initialize (#23213)

Regression introduced by b1c3dc6ae226db178420e3b5f297b94afc87e94c.
Shutting down the libhal_ctx if the init failed may cause an abort.
This can happen if hald is not yet running at server startup.

X.Org Bug 23213 <http://bugs.freedesktop.org/show_bug.cgi?id=23213>

Tested-by: Stefan Dirsch
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1545a120df6dfbf5b84fe96c5a992357520b7c8d
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Aug 11 15:00:36 2009 +1000

exa: fix CreatePixmap2 to be useful for tiling.

This adds a pitch return so that the driver can align the pitch to any value it wishes and not just the one it gave to EXA at startup.

commit db568f9eabf3450d8a023597ff007df355b13ea8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 13 16:37:00 2009 +1000

Xext: fix up wrong conditions for negative sync transitions.

If the counter had a value higher than the trigger value for a negative transition, the trigger value did not get set.

The correct sequence of checks is:
if (positive transition)
    if (counter value < trigger value)
        set up trigger
if (negative transition)
    if (counter value > trigger value)
        set up trigger
Red Hat Bug 501601 <https://bugzilla.redhat.com/show_bug.cgi?id=501601>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a3e50b05747cab92090ae7d7f4475cd61d3fcdaf
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date: Mon Jul 27 20:58:44 2009 +0200

Add 4 missing 10bpc picture formats to the server format list.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit 36e24a6d93bd5aced4e566b80bf2d03555fab9ca
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 13 10:50:26 2009 +1000

Xext: add missing return code check to ProcSyncDestroyAlarm

Introduced with 57aff88c7d0761e590806d07bee1e9410680c89f.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ce69a06aff934b2dceded8606cab079ac6465007c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 11 16:16:54 2009 +1000

Xi: fix up broken DeviceChangedEvent swapping code

commit b44d34d5fd0d8aaacb89121e8b4afba04f1dce80
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 10 15:32:59 2009 +1000

include: correct a copy/paste error in a comment.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c477ae8a151a28ba23f5c87e8f7affd6e82cfaa9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 10 15:15:02 2009 +1000

dix: re-name internal eventToClassesChanged to eventToDeviceChanged

DeviceClassesChangedEvents (where this name comes from) have been replaced with DeviceChangedEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit af38f6790c4c8ba1e70f5c5ba3530ded85d6e372
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 10 14:08:59 2009 +1000

test: add event conversion tests for XIDeviceEvents

commit 3f2e4b9867b6877ec7be32b151fcaf221ef0812f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 10 14:07:54 2009 +1000

Xi: add event swapping for XIRawEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f3b2f99f734ecff6db9ae85b0d247856ede8112
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 10 13:12:40 2009 +1000

Xi: fix event swapping for XIDeviceEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e46f02fa2de79261221b42ab73f9daa2ce8ac650
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 10 09:50:16 2009 +1000

Xext: allocate a separate event list for XTest events (#23100)

XTest event processing may be interrupted by a SIGIO. If Xtest uses the same
event list as the rest of the server, this list may be overwritten
in-flight.

X.Org Bug 23100 <http://bugs.freedesktop.org/show_bug.cgi?id=23100>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8483b08152104dc619d9e44f8777d2687d866355e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 7 16:11:37 2009 +1000

test: add focus and enter conversion testing.

Doesn't actually convert anything, but verify the expected behaviour.

commit 59dc59a72fbd4cbe4df207bc688e92bb4863e8a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 7 11:23:33 2009 +1000
test: add XI2 event conversion test for raw events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 10d7948e0360860e1e9633dca39f646d492e73bf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 7 10:17:14 2009 +1000

test: fix build error introduced by new AllocDevicePair API

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3f161a0aac39fbd6ef393a17269486b8dace4672
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 10 14:14:35 2009 +1000

Xi: un-statify XI2EventSwap, it is needed for tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 55e1ea08d03d89ecc0f2db7652a4d15567204696
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 3 16:46:11 2009 +1000

Xi: get device changed data from DeviceChangedEvents, not the device (#23100)

If a new device posts an event while the DCE is in the queue, getting the
data from the device may result in invalid memory access.

X.Org Bug 23100 <http://bugs.freedesktop.org/show_bug.cgi?id=23100>

commit 8ce4fde767fd747fd3e00836c9c542e516ae9a
Author: Matt Turner <mattst88@gmail.com>
Date: Wed Aug 12 14:45:13 2009 -0400

Fix build on Alpha

commit a400dbb38f93030d51afe806b4b20d5ef501c855
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Wed Aug 12 17:48:36 2009 +0100

Xming: Add NET_WM_ICON to native icon conversion

fd.o bugzilla #4491
originally from a patch by Joe Krahn <jkrahn@nc.rr.com>

Convert a NET_WM_ICON to a native icon by converting to a native bitmap and then using CreateIconIndirect()
Don't use icon alpha on Windows 2000 or if display isn't 32-bit, convert alpha channel to a 1-bit transparency mask using a threshold value

Fix warning in winScaleXBitmapToWindows() about signedness of *iconData

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit 211511f150ce189681aff176c311fa8f312517e9
Author: Soren Sandmann Pedersen <ssp@redhat.com>
Date:   Tue Aug 11 14:40:42 2009 -0400

Disable the out-of-bounds workaround in pixman.

This workaround was necessary for older X servers, but now fb should be using correct coordinates.

Also bump pixman requirement to 0.15.20.

commit 93d9646c7133336e03c135204061f51d3654e23
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Sat Aug 8 20:18:10 2009 +0300

mi: fix indentation

mi eq.c looks indented-wise now. Let's see how long it will take to someone mess it again.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit f9a2fff2248d7254958857677cabea914ed4853
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 5 21:02:29 2009 +0300

mi: fix cursor warping screens

The server was processing ET_RawMotion type when the cursor was wrapping to another screen and getting wrong valuator values. This fix such issue considering only ET_Motion, ET_KeyPress, ET_KeyRelease, ET_ButtonPress and ET_ButtonRelease types when the cursor detects a new screen, keeping the "normal" processing of device events.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d573cc46d3106824902ab4f926617bd9959af57c
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Aug 8 11:32:05 2009 +0200
exa: more safety

commit 8b652435cd42929e2d187b353b3b20e798569356
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Aug 8 10:35:01 2009 +0200

exa: minor cleanup

commit a73f95aa93634cf7ba2c7c9274a046b2df2adca7
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Aug 8 02:31:23 2009 +0200

exa: Fix the broken upload fallback for "mixed"

- Replace it with something wfb friendly while i'm at it.

commit c029678bf7883b91f3c8095e764abbee246c9bb6
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Aug 7 20:42:30 2009 +0200

configure.ac: drop dependency on fontenc

Nothing in the server uses this anymore.

commit 3943df7f76c1b4930fb7370d9d145cee96dd562b
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Aug 7 20:36:03 2009 +0200

exa: one can never be too careful

commit 1548e8ae5d28ed0eb6057a1a19cfc84a78ef34dc
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Aug 7 20:04:53 2009 +0200

exa: fix a potential loophole in "mixed"

- Always free sys_ptr before setting the pixmap to pinned.

commit e94c7c42ce9d6a194b76ba7e8b3904b180f93a1b
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Aug 7 13:36:52 2009 +1000

parser: make libxf86config_internal.la not installed.

commit 5fb188b5470ef4e2f2c59b66a3183b004e4a1e9
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Aug 7 12:05:51 2009 +1000
ddx: fix xf86Config.a generation

We were generating a shared library, but this lib is foobar, the parser
requires some symbols from the X server or from the program its being linked
into. If the program its being linked into (say a python .so) has symbol
visibility enabled then it will fail to dynamic link, also if this .so has
symbol visiblity enabled it will fail to dynamic link.

Screw it go back to a .a file really unless someone cleans it up properly.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 3047bd067464efb9857960d3fa6324b947faa970
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Aug 5 18:39:47 2009 +0200

exa: delay malloc for "mixed"

commit e8ac2ed5dc4c2ac0a5e1e1f371f94c15b1c729dd
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Aug 5 16:12:16 2009 +0200

exa: implement exaMoveInPixmap for "mixed"

- This can be used to force creation of driver pixmap.
- Not for 1 or 4 bpp.
- Driver can still fail (driver) pixmap creation.

commit 9d2a7128d3e66b8c076a714d69f84bcad49391b9
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Aug 2 02:35:46 2009 +0200

exa: Use damage to optimise away useless copies.

commit 03ecb164f2592e954aa408bf121e0c67b604d854
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Aug 1 19:19:19 2009 +0200

exa: A simple 3rd backend implementation.

- Based on driver pixmaps with some changes (completely transparent to driver).
- It helps with the problem of known software fallbacks, such as trapezoids.
- exaDoMigration is now called for all cases that provide a do_migration hook.
- exa_migration.c is renamed to exa_migration_classic.c

commit ac7ac913fd98ea359c05c89968ab53a3223615b4
Author: Maarten Maathuis <madman2003@gmail.com>
exa: Split out some classic and driver allocated pixmap code into separate files

- Create a few separate functions and a few private function pointers.
- Replace a few if conditions with a check for pExaPix->pDamage instead.
- This is in preparation of a third scheme that lies somewhere in between.
- Code clarity would have suffered (I started working on it and didn't like the mess).

commit 3abbd327f4a7332408119de1f8e9ecba4812772a5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 15:47:46 2009 +1000

dix: detach SD during XI2 grabs only.

XI1 grabs on slave devices leave the device attached - just like in earlier versions of XI.

   Tested-by: Thomas Jaeger
   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c29aa7da220661532b05972cacd3dabff29408b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 15:33:07 2009 +1000

   Revert "dix: Remove temporary detachment of slave devices."

   This reverts commit 0ce0ef42292f4c910c73b308cd75d77637312da53.

   Tested-by: Thomas Jaeger
   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 931160fcf378120e58849d801d6c2b6f6e65a4b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 4 02:53:17 2009 -0700

   XQuartz: AIGLX: Provide empty __glXAquaDrawableResize to avoid crashing in DoMakeCurrent
           (cherry picked from commit 60a1d2c2764f2f02c0751940a264588717afce79)

commit 0fe639a314de397516cf00d8100da8086abdd97a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Aug 1 22:53:45 2009 -0700

   XQuartz: Only save lastpt on mouse/tablet events
           (cherry picked from commit 552be074e5be6492df3e290e8b7d9daff1a2cb34)

commit 491c2d74c12d7f9bc9f31b427e0e049ebff5a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
XQuartz: Use mouseLocation rather than locationInWindow when setting lastpt

I don't understand the *why* ... I just see that it works better this way for games like Quake2 through wine. It *should* be better the other way, but somehow it's not.

I guess this will go in my list of puzzles to unravel.
(cherry picked from commit 65ae2d00e1a53f97f2f9522406ab69d50bf3199)

commit df6c01352471c766e9f71ceac03cab8c3911faa1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Aug 1 02:32:52 2009 -0700

XQuartz: Don't use location delta for tablets since NSEvent does not give a precise delta.
(cherry picked from commit 6c5bf756a7f5389cdf2e43a339d7c31a3e522e9)

commit e360104880e6e2e666aa05df6d56e2ef3880f38ef
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 5 16:17:01 2009 -0700

XQuartz: Purge redundant QuartzBell
(cherry picked from commit de14a63d20095e1537fd74352850c734d900031d)

commit 8c0085c715effdc450d78eec14bc32e6214c78af
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 5 22:50:44 2009 +0300

xfree86: remove more RAC junky

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 444723273ae82fc3f6707ed1a461aaa8fdae39c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 5 22:48:02 2009 +0300

xfree86: reorganize pci code
- xf86PciVideoInfo doesn't need to be global
- remove unused macros

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 20169414e1af5d1d02cb1b57866b1c158b2fc6c
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Wed Aug 5 22:44:19 2009 +0300

xfree86: remove unused functions
RAC trash.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 95b678e6dc41f2524ada4eb11289687fafce7588
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Aug 3 23:49:56 2009 -0700

Correct modifier map built when ProcSetModifierMapping is called

Fixes xmodmap changes to modifiers to stop corrupting modifier maps

Previous code had two bugs:
- the code to increment mod was after the code to continue if no modifier was set, so mod wouldn't be incremented for modifiers with no keys mapped to them (such as if you called xmodmap -e 'clear Lock')
- the value it set in the modifier map was the raw modifier number, not the bitmask value for that modifier

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4ca305956e5ea6f06b22ef62aa462186a7b95f0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 09:40:56 2009 +1000

Re-enable Xnest by default.

Xnest was disabled in 82fc102568b3d6b0daeb6c5f5b3a1310a7f14fcd due to build errors. These errors have since been fixed.

Re-enable Xnest by default to increase coverage by default builds.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5904ef2ccd6056b187ca76f104c21e2d686bfc1d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 10:40:20 2009 +1000

xnest: restore xnestUpdateModifierState

The meat of xnestUpdateModifierState was ifdef'd out in 6ef46c4e62def4841a4cf4e0b443516a2ed782. This resulted in stuck modifiers when a modifier key release event wasn't sent to Xnest (e.g. Alt-Tab away).

See X.Org Bug 3664 <https://bugs.freedesktop.org/show_bug.cgi?id=3664> for
the original bug report.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 44afc7577ad3339f4555438388f6a4d8e220e991
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 09:51:05 2009 +1000

xnest: include exevents.h for XIGetKnownProperty.

Silences compiler warning.
Pointer.c: In function ‘xnestPointerProc’:
Pointer.c:64: warning: implicit declaration of function ‘XIGetKnownProperty’
Pointer.c:64: warning: nested extern declaration of ‘XIGetKnownProperty’

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 32ce5c83a504d2cafd2b19ed628b40032ef347b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 09:39:47 2009 +1000

xnest: use AllocDevicePair for Xnest device initialization

All Xnest needs is a single pointer+keyboard pair. AllocDevicePair sets them up nicely with the name assigned etc.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 26b83ad4a29dc180b336a19d9e97589814e93e37
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Aug 5 09:32:50 2009 +1000

dix: require PointerProc and KeyboardProc to be passed into AllocDevicePair.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a500fdd4d717947b86f6d844ebf9a8603eb8e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 4 15:29:55 2009 +1000

dmx: include exglobals.h for DeviceKeyPress and friends.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 591c2f8758ef36a9bbf1625f9c207a1804f58ef4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Aug 4 15:30:52 2009 +1000
dmx: typecast to InternalEvent* before mieqEnqueue.

Silences a few compiler warnings.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 15b425b5a6630d2ac95b490f4f4dbb9240ac9c5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:31:42 2009 +1000

dmx: move 'state' around to silence compiler warning.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e10f802c8260e034fd6c835d3f2622d9cd5085f8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:40:17 2009 +1000

dmx: include inputstr.h for inputInfo.pointer

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9ffe3f280b3907a672f99101548a5eb52027b37f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:40:31 2009 +1000

dmx: don't call InitKbdFeedbackClassDeviceStruct - doesn't exist anymore.
InitKeyboardDeviceStruct does the same task now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 63155cf985ee15bf6aad95066b076ab680cf5a31
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:28:30 2009 +1000

dmx: pass button/axis labels into the init functions (currently unset)
Currently only None labels are passed in, in the future these labels should
be whatever the respective buttions/axes are.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit af85973a0a80fb0ba82330ae3ec897f65d618003
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:25:06 2009 +1000

dmx: remove now-useless defines.
XI is mandatory so we can expect both to be defined.

commit 654d7a02600bbaf890f555a081aa0a2fcb5e253
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:23:01 2009 +1000

Revert "dmx: claim we support XI 2."

XQueryInputVersion doesn't exist anymore and for now XI 1 support is good enough.

This reverts commit 8da8a0fec4b1b9d9208635dedb2f449de99e0004.

commit e7c950c6273ff93f2500bbaf890f555a081aa0a2fcb5e253
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 15:15:24 2009 +1000

dmx: fix a call to XkbSetRulesDflts, takes XkbRMLVOSet now.

commit 2cde9208ff756e33d162e2324f4b99540230d743
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 14:58:25 2009 +1000

dmx: Enable/DisableDevice take a boolean variable now.

We want to send events here, so pass in TRUE.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1e210d6d10ec63d22247e5801890e024826fc861
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Aug 4 14:41:46 2009 +1000

xkb: remove now-unused XkbGetKeysym.

XkbGetKeysyms was only used by the now-removed Keysym grabs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a6ce6c70c70c880751b662b8e5e83d9a0b0722
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Aug 4 23:23:21 2009 +0200


commit 842373104d08d47efc863ecce30431d3faefb1
Author: Michel Dänzer <daenzer@vmware.com>
Add support for RENDER BGRA formats.

commit 0bf7eaf3052ce24066b0a7c14860b4762fb81364
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Aug 3 23:14:50 2009 -0700

Ansify function arguments in VTsw_noop.c

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

Bug 16832: XDMCP related build error when --disable-xdmcp is used

X.Org Bugzilla #16832: http://bugs.freedesktop.org/show_bug.cgi?id=16832
Patch #27279: http://bugs.freedesktop.org/attachment.cgi?id=27279

commit b159a98f7fbd3f8b337cd1bfd2ff27312856619
Author: Lee Leahu <freedesktop-bugs@dyweni.com>
Date: Thu Oct 23 21:03:57 2008 -0500

Fix blddir != srcdir builds of solaris-* .il files

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

xnest: fix up parameters to InitKeyboardDeviceStruct.

IKDS takes a DeviceIntPtr as first argument, and an RMVLO struct as second.
The keysyms stuff is long gone now.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 008658049ebeea35a9f76f98037aa2f4173f3573
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Aug 3 12:00:45 2009 +1000

xnest: silence compiler warnings by type casing properly.

Events.c: In function ’xnestQueueKeyEvent’:
Events.c:112: warning: passing argument 2 of ’mieqEnqueue’ from incompatible pointer type
../../mi/mi.h:203: note: expected ’union InternalEvent *’ but argument is of type ’struct xEvent *’
Events.c: In function ’xnestCollectEvents’:
Events.c:141: warning: passing argument 2 of ’mieqEnqueue’ from incompatible pointer type
../../mi/mi.h:203: note: expected ’union InternalEvent *’ but argument is of type ’struct xEvent *’
Events.c:150: warning: passing argument 2 of ’mieqEnqueue’ from incompatible pointer type
../../mi/mi.h:203: note: expected ’union InternalEvent *’ but argument is of type ’struct xEvent *’
Events.c:160: warning: passing argument 2 of ’mieqEnqueue’ from incompatible pointer type
../../mi/mi.h:203: note: expected ’union InternalEvent *’ but argument is of type ’struct xEvent *’
Events.c:193: warning: passing argument 2 of ’mieqEnqueue’ from incompatible pointer type
../../mi/mi.h:203: note: expected ’union InternalEvent *’ but argument is of type ’struct xEvent *’

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 664ac92d8bbe956dd6fd80fac5dc3161028803b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 31 14:38:35 2009 +1000

xfixes: backup the DisplayCursor/CloseScreen proc before restoring it (#23034)

The screen's DisplayCursor func is wrapped as
AnimCurDisplayCursor -> CursorDisplayCursor -> miPointerDisplayCursor.

Calling CursorDisplayCursor while an animated cursor was currently displayed would remove AnimCurDisplayCursor from the wrap stack. Thus, the next call to ChangeToCursor wouldn't update the animated cursor state. The block handler for animated cursors would then continuously overwrite the actual cursor, leaving an animated cursor everywhere on the screen.
X.Org Bug 23034 <http://bugs.freedesktop.org/show_bug.cgi?id=23034>

commit f48dfcc1b772a09428e328c72124ea0d46a73416
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 31 10:44:28 2009 +1000

xfixes: allocate CurrentCursor for all devices.

XFixes requires cursor notifies to clients when the cursor changes. This
should work on the ClientPointer and then on all master pointers. Hence
change CurrentCursor to a MAXDEVICES array.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d3e5629fac224d53a972df5e2a87db025349b17
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 30 16:36:56 2009 +1000

dix: call SetFocusOut and LeaveWindow when disabling a device.

PointerWindows[x] would be set after removing a master pointer. Destroying
this window then crashed the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 97ed946cfccce5979c47b5fabf1ad56cc7d33ef4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 30 16:36:30 2009 +1000

dix: SetFocusOut and LeaveWindow don't need parameters other than dev.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d040940ef0e041b57e6323921c380cebab2bb43f41e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 30 16:16:51 2009 +1000

xfixes: FixesHideCursor should work on all master pointers.

Presumably, a client calling HideCursor doesn't want any cursor displayed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b83c682e7ea4e10757ecca6363de28281108591a8
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:   Mon Aug 3 02:46:57 2009 +0300
xf86Xinput: xf86PostButtonEventP must set POINTER_ACCELERATE for relative events.

Thanks to Peter Hutterer for spotting this bug.

commit ae65daab080c6269f0eadc6be1a48bf27866c542
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jul 31 15:32:07 2009 -0700

XQuartz: Unify how we set our bitmasks for visuals
(cherry picked from commit c230b52c27ce50ac6c27011ec8e88f1b263b25f9)

commit 4a53fed41d711f270c7d8a7fbeaaf4fb619e879
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jul 31 14:19:50 2009 -0700

XQuartz: Dead code removal for StaticColor visual
(cherry picked from commit e457a44e87950207f6c16bf82bf5af11c777ecf1)

commit da0a27478033dbecb1308181176a784e14cf02b809
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jul 31 14:14:21 2009 -0700

XQuartz: Cleanup the bitmask setting for GLX visuals.
(cherry picked from commit d32c3df258e748958ef997c675de4fae118c0d7b)

commit 70ac671af2f092471022590cb7a19ef9155c51b4
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 30 01:30:52 2009 -0700

XQuartz: no DirectColor
(cherry picked from commit df2fbc410f2c484612f65a6539a6cb069ef4a468)

commit c0c72a866a237d3c2d9e69e1c69181ef5446e3f8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 30 00:51:55 2009 -0700

XQuartz: Define DDXRingBell
(cherry picked from commit 113347381289497cb2a79994d0ef5f427ae63ac5)

commit 949811313989809f5b58424af04b9fd8e1d0bec4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 30 21:59:40 2009 +1000

test: fix build by including eventstr.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0565f4ed4519962bed40a0b9cf0b409471f4de40
Xi: set the sourceid for focus devices to the device id.

Unlike Enter/Leave events generated by a device pushing the pointer around, a device doesn't change focus all by itself. It's a result of a SetInputFocus call, a window becoming unviewable or a grab activating. As such, the sourceid for focus events is always the deviceid itself.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de4dd5848cab90b0f8b8243ca0b49985ef047124
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 29 16:45:34 2009 +1000

include: DeviceFocusEvent is not to be exported.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 46ac9f92416f3cb99b5d84a9d200237dc33a3bb7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 29 16:34:28 2009 +1000

dix: pass the sourceid around for enter/leave events.

The sourceid for enter/leave events as a result of pointer motion is the ID of the slave device. The sourceid for those as a result of a grab activating is the device itself.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c299b2228fb63c192b72851c90e14ceaceb67bbc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 29 16:00:19 2009 +1000

dix: remove obsolete comment, parameter described doesn't exist.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5085ac09a50721d87196bd9f2607dc76200ca399
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 29 13:45:32 2009 +1000

input: switch internal event types to enums.

Use enum EventType instead of ints. This requires a load of default cases in various switch statements to silence compiler warnings.
Reported-by: Aaron Plattner
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit lae8332d643299a3ee9a9f45a8e25b8c87c751e1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 29 13:39:38 2009 +1000

include: fix enum EventType declaration.

Having EventType after the enum declares a variable. silly me.

Reported-by: Aaron Plattner
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 994f7a1c814a89e90f710dac5bf6b2445fb64712
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 29 12:11:13 2009 +1000

record: silence some compiler warnings.

warning: passing argument 4 of 'RecordAProtocolElement' discards qualifiers
from pointer target type
note: expected 'pointer' but argument is of type 'const void *'

record.c:2745: warning: passing argument 1 of 'SwapConnSetupInfo' from
incompatible pointer type
./include/swaprep.h:243: note: expected 'char *' but argument is of type
'struct xConnSetup *'

record.c:2745: warning: passing argument 1 of 'SwapConnSetupInfo' from
incompatible pointer type
./include/swaprep.h:243: note: expected 'char *' but argument is of type
'struct xConnSetup *'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a863d636293cd7361639c1a8c9c4f7f15d1e1d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 29 12:09:34 2009 +1000

Xi: remove FIXME and obsolete include.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fac49df08f173f091cbb77fefa373d7d465358af
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 29 12:07:22 2009 +1000
Xi: remove obsolete comment.

X11 only uses 7 bits for deviceids, bit 8 is used for the MORE_EVENTS flag on the wire (when DeviceValuator events are required).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 845e65f08059e8f4b6d37356e99b48bba9416c0c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 29 11:54:14 2009 +1000
	xkb: move XkbFilterEvents to xkbsrv.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8da0ff2d510866666d10ca7330d428e8610a4a0e3
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:   Tue Jul 28 08:20:37 2009 +0300

xf86Xinput: Add the xf86Post(Proximity|Button|Key)EventP helper functions.

xf86PostKeyboardEvent also makes use of xf86PostKeyEventP to avoid code duplication, and the valuator verification has been split into the XI_VERIFY_VALUATORS macro.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a148d407429c7d13136b3fcfad2d279c5438d73
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 28 16:53:51 2009 +1000

xkb: restore XKB PtrBtn actions.

Ifdef’d out since the switch to internal events. PtrBtn actions now work again. Instead of generating the event directly, GPE generates the event and it is then posted through the usual event processing routines (mieqProcessDeviceEvent).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3d3b8babd1a5407082f1a40875ed69f62ba2153f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 28 16:51:14 2009 +1000

mi: update master event copying to InternalEvents.

This is long overdue. The device events are InternalEvents now (and only one
at a time), diminishing the need for an EventList for the master event. Furthermore, don't make masterEvent a static since this will interfere if miegProcessDeviceEvent is called from somewhere else (e.g. XKB actions).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f85619b14d130ec54d42cabfaee15e55ced0c665
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 28 16:48:56 2009 +1000

dix: update GetMaximumEventsNum() to real value (3).

GPE and friends now use internal events so they may generate up to 3 events. One (optional) DeviceChanged event and one raw event plus a device event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0217d0370c0b0bee66a9c09092eda8e820274e2e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 28 14:54:30 2009 +1000

record: ifdef out RecordExtensionInit and print a warning to the log.

The RECORD extension is currently broken. By ifdef'ing out the content of RecordExtensionInit the extension isn't added to the server's internal list and it does not get advertised to the client. Clients can thus fail gracefully with a "extension not supported" instead of waiting forever for events that never arrive.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4e9b2938cd8637a5d3b0a4c9f69d6ee75faab3a0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 27 16:54:33 2009 +1000

include: untangle events.h from the SDK headers.

InternalEvents shouldn't be used anywhere outside the X server itself. Split up into events.h for opaque typedefs for the events needed by various headers and eventstr.h for the actual struct definitions.

eventstr.h must only be included by code that requires internal events and is not part of the SDK.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fad5f96e01811af7490a071719e4017c019a8d9b
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Cygwin/X: Only try to build rootless extension if multiwindow extwm mode is being built

Rootless extension still needs a bit more work to build successfully for Cygwin/X

commit de2ae521abde445daaf025a07aa01563ca5ddd41
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jul 26 20:48:19 2009 +0100

Xming: Use RegisterClassExt() instead of superseded RegisterClass()

RegisterClass is superseded by RegisterClassEx, so change to using that everywhere

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit 764ce6ee683db342264bbca4df6379eb6093fb85
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Tue Jul 28 16:16:57 2009 +0100

Xming: Use GetClassLongPtr() instead of superseded GetClassLong()

GetClassLong() is superseded by GetClassLongPtr(), so change to using that

commit a85523dc50f392a33a1c00302a0946828bc9249d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Jul 28 22:52:33 2009 -0700

XQuartz: Avoid a possible spinlock in applicationWillTerminate
(cherry picked from commit f430cda0fdcc1a8fc5f4795743b40f09ff0bd869)

commit 1e49c8d340ee8d8b6f90abcce2e2e9c390cbcd622
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Jul 28 13:40:15 2009 -0700

XQuartz: Avoid namespace collision for BOOL in Sparkle
(cherry picked from commit 227c6e01a641b721582015327329283c8b5599)

commit 442967c90d9d8483a56bdc9237c49e33d619126
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Jul 28 15:02:37 2009 -0700

Remove hardcoded gcc -Wall option from configure.ac

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 52e9ef5664a697a31102e8761eaaf03cfff01d14d8
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jul 28 19:04:59 2009 +0300
	xfree86: remove some RAC junk

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit d57361bb9ac08bec470f76ca8ca602d60c339502
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jul 28 18:55:32 2009 +0300

doc: remove outdated PCI/RAC/Domain notes

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 7b3d05ebd5a55f88098f4a763d1fa7ca110bb780
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jul 28 18:45:16 2009 +0300

xfree86: remove pci debug macros

there's no effect when their are enabled.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 6089d9cfde533c6a7aee7d7c08a8c8f2f18e27
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Tue Jul 28 18:29:35 2009 +0300

xfree86: remove RAC/resource doc

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit c553161ec17ecb577ecb91ec6c81f0b70d0ae85e13
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 24 13:47:31 2009 +0300

xfree86: delete devices probe code (-probe and -probeonly options)

Inside a windowing system, it's not the place to probe for devices. Goodbye
-probe and - probeonly.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit c0977995a9772c0556760222d0f570dbaf8a28e
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 24 13:37:31 2009 +0300

xfree86: delete stupid video driver dump (-modalias option)
Such stupid and ugly way to dump PCI information! Oh boy... Anyway, this
doesn't belong to the X server at all. Go away!

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 0524420622df6cbdb3872917906f7b2a6ec02958
Author: Colin Harrison <colin.harrison@virgin.net>
Date:    Mon Jul 27 15:49:41 2009 +0100

Cygwin/X: use GWLP_WNDPROC, GWLP_USERDATA with Get/SetWindowLongPtr

Missed from commit b3751454cbe02ee952bab213e8c3684d429c41b3

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

config: add HAL error checks

This patch simplifies error handling in the HAL code and fixes a
segfault if libhal_find_device_by_capability() failed.

Fixes http://bugs.gentoo.org/278760

Based on a patch by Martin von Gagern <Martin.vGagern@gmx.net>

Signed-off-by: Rémi Cardona <remi@gentoo.org>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8898203b0d0e9fa03453b2bcd9b88843cccc3230
Author: Dave Airlie <airlied@redhat.com>
Date:    Tue Jul 28 19:35:37 2009 +1000

sbus: fixup for rac removal

commit 4b42448a2388d40f257774fbfdccae87bd0347
Author: Dave Airlie <airlied@redhat.com>
Date:    Tue Jul 28 14:47:42 2009 +1000

xserver: remove RAC/resource handling code.

This changes the ABI, but since the video ABI is at 6 already
it should be fine.

driver changes are in the pipeline after this.
Signed-off-by: Dave Airlie <airlied@redhat.com>

commits 0a168401c401727e49a12cae43a6a387b1f2928d
Author: Dave Airlie <airlied@redhat.com>
Date: Tue Jul 28 14:19:24 2009 +1000

pci: add support for pci is boot vga call.

This allows us to ask the kernel for the boot VGA device instead of nasty guessing.

commits b3751454cbe02ee952bab213e8c3684d429c41b3
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Tue Jul 21 16:07:56 2009 +0100

Cygwin/X: Update Get/SetWindowLong() to Get/SetWindowLongPtr() everywhere

Get/SetWindowLong() is superseded by Get/SetWindowLongPtr(), so change to using that everywhere it remains

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commits c81595e23b48368dafe054f023c1dd16bbad9494
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Jul 26 02:32:17 2009 -0700

XQuartz: Overhaul setting up visuals

The main change is cleanup of the visualConfigs and setting up alpha correctly there to match the visuals being added earlier (so the default visual has a corresponding GLX visual)
(cherry picked from commit 7351db5c8746be30a4047469ee9b50bc19e62a89)

commits 7f28c555b80dda2ed4f518efdb79733647dfe8a80
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Jul 25 20:19:05 2009 -0700

XQuartz: Use CopyKeyClass to copy the keymap to the virtual core keyboard.
(cherry picked from commit 9a801d1716f005c30be076fcc9ac8dbb3e74d989)

commits 1031ac3a7306e7a82169c79c64607696c826c47f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Jul 25 20:18:38 2009 -0700

Revert "XQuartz: Copy the keyboard map to the core keyboard"

This reverts commit 795de791cf18c658421d701af645718493eac51e.
XQuartz: Use pDev=NULL for DarwinSendDDXEvent

These events aren't really related to physical input devices anyways, so it doesn't make sense to use the pointer.
(cherry picked from commit bfe0b9cfa7af4a48dba849cab1eb152c409b4e08)

commit b8e0f740829d0c81324aeb59222fc8e3d22493cc
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 25 20:17:25 2009 -0700

mieq: Protect from pDev=NULL in mieqEnqueue and mieqProcessInputEvents
(cherry picked from commit bf60ffbb49700da3671788983b042a88fe7219b)

commit dab8de036808e363a8ee9be826cfc7f7bfc92b953
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 25 15:21:12 2009 -0700

XQuartz: Bump the reported version to X11R7.4
(cherry picked from commit c83f701aa75c75433b8745f5d79bca3a7516df91)

commit 9e74bb97ab6cb83dd99ec36bd3842197263b8a8c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 25 10:39:26 2009 -0700

XQuartz: xpr: Added missing include for RootlessHideAllWindows
(cherry picked from commit 75e104730810acabbb11bf8503bac24ea25243b2ac)

commit 09b024db636f5a306c9cecc3806fffd9acd3c408
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 25 15:22:01 2009 -0700

XQuartz: Use the master device in DarwinSendDDXEvent to avoid duplicate events.
(cherry picked from commit 6fa62192af937aa9656f64b516050bc099231c7a)

commit 795de791cf18c658421d701af645718493eac51e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 25 15:25:06 2009 -0700

XQuartz: Copy the keyboard map to the core keyboard

This still doesn't handle the modifier map... gotta figure out what to do now that SwitchCoreKeyboard is gone
(cherry picked from commit 427e1a4b41dabb54354bfd30f2bbae98ac8202c0)

commit af8047f7816b39be7015e8cbe085c57bb354592
Author: Aaron Plattner <aplattner@nvidia.com>
Damage: Add devPrivates to DamageRec

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit c80ed4945ef6dd50473fab871211b71b3d20dc3c
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Fri Jul 17 15:10:32 2009 -0700

Damage: Add wrappable hooks for damage create, destroy, register, & unregister.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit fb46474feb69d52d3dfdd61452ced5cfc38f6651
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jul 24 09:16:37 2009 -0700

XQuartz: Rever the "Set can_quit to true during a Sparkle-initiated relaunch." change

This was in place to work around the issue that was correctly solved with the previous commit (changing the Windows menu behavior). Reverting this change no longer causes crashing, so it's safe to show the dialog now.

(commit picked from commit 023cef31bb2ab80a241098d82fcefd35ada75fc0)

commit 0d73893a5795d5c1d28fd0287f2f1965f2ff1bda
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 23 20:03:29 2009 -0700

XQuartz: Change handling of Windows menu to workaround a bug triggered by mixing Sparkle and X11 windows

(<rdar://problem/7088335> NSApplication releases the separator in the Windows menu even though it's an IBOutlet)

(commit picked from commit 27ac5135267be9cb221329ae68461117dd43a4bf)

commit 171409cecbdbd848e5fcec6334fc61a20e882e80fa9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jul 21 00:22:12 2009 -0700

XQuartz: Set can_quit to true during a Sparkle-initiated relaunch.

(commit picked from commit b2e9a77111d4572402d8ca95e3368db97ba7d598)

commit 7ff84d350b44fa40669c1d0d48a715a0bf056ece
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Jul 20 22:38:25 2009 -0700

XQuartz: Added a "Check for X11 Updates..." menu item.

(commit picked from commit 3051444bfa4b59791123e44e869fab93a084792d6)
commit 1e1dbd1e462f571dad2f9684fc4cd8ae17eedd5
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Mon Jun 29 11:46:17 2009 +0300

xfree86: "Staticize" functions in xf86AutoConfig.c

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 7c6b5458de9bc7f6cd972a36b56888aaa3d201ee
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 23 15:16:44 2009 -0700

Fix dist.

* Makefile.am: Include the test/ subdirectory in the dist tarball.

* include/Makefile.am: Move events.h to sdk_HEADERS and eventconvert.h to EXTRA_DIST so they're included in the tarball. events.h shouldn't be included in the SDK either, but for now it's needed by input.h.

commit 20daa145c437c3ba67970146f6182849f87a1b43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 23 08:33:00 2009 +1000

mi: fix build error caused by missing xtest.h

xtest.h was renamed to xtestconst.h in xextproto.
Requires xextproto 7.0.99.3

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 587c3a2d1961834558193e8e14e8e381a077a253
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Jul 22 10:55:46 2009 -0700

Bug #22804: Reject out of bounds XGetImage requests

The XGetImage man page states:

If the drawable is a window, the window must be viewable, and it must be the case that if there were no inferiors or overlapping windows, the specified rectangle of the window would be fully visible on the screen and wholly contained within the outside edges of the window, or a BadMatch error results. Note that the borders of the window can be included and read with this request.

However, the server was only checking the requested region against the screen
bounds, allowing XGetImage requests to read pixels outside the bounds of a window's ancestors. Normally, this would just read other pixels from the screen, but if one of the ancestor windows is redirected, the window's backing pixmap may be smaller than the window itself.

This change checks the region against the window's bounding drawable, which is either the screen pixmap, a redirected window's backing pixmap, or the root window for servers that don't support GetWindowPixmap.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
Reviewed-by: Keith Packard <keithp@keithp.com>

commit ecd618957ebf01cb4137f98efec3faed35f8a9f5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 22 15:19:34 2009 +1000

dix: fix null-pointer dereference on activating enter/focus grabs.

EventToXI2 returns a NULL event for enter/focus events since these events aren't yet wrapped into internal events. This is a quickfix only, it works thanks to the alignment of internal and XI2 event types.

Eventually, enter/leave events should be wrapped into internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 48585bd1e3e98db0f3df1eccc68022510216e00cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 22 12:09:24 2009 +1000

dix: use the event mask of the grab for TryClientEvents.

A client that grabs for button/key events may not have the ButtonPress/KeyPress mask set and should not receive an event in that case.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4dc91b3e54503a1be555bae5b18f3e52f58be307
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date:   Tue Jul 21 17:21:28 2009 +0200

Check if new space was actually allocated before freeing.

There will be no new space allocated, if mode != PropModeReplace and len == 0, or if mode is not one of the handled modes. This fixes freeing data that is still in use, leading to double frees and other memory corruption.
input: remove XI2 keysym grabs, use keycode grabs instead.

Keysym grabs are tricky in the details, keycode grabs are known to work. So for now, provide keycode grabs only.

Requires inputproto 1.9.99.15.

Cygwin/X: winInitMultiWindowClass() should be static

randr12: Add compatibility for XF86VidMode gamma ramps.

Fixes screensaver fadeout effects.

Also make all RandR 1.2 compatibility code for XF86VidMode operate only on the CRTC associated with the compatibility output, not all CRTCs at once.

EXA: Make Prepare/FinishAccess tracking resilient to repeated / nested calls.

Use reference counting and do nothing unless the reference count transitions to/from 0.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=22822.

As a bonus, this avoids calling the driver Prepare/FinishAccess hooks more than once per pixmap and operation.
Also update the Doxygen documentation for the PrepareAccess driver hook to better match current reality.

commit de7a14ca92f99ff03c8ad204aab5be8203c86a72
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Jul 21 12:55:27 2009 +0200

EXA: Fix up some issues introduced by 00fe4a297744c81b40f0243fb56ad848a9be6a2b.

* Check all pixmaps involved for damage records, fixes visual corruption due to the screen pixmap never having one.
* Fix an array size and remove a now superfluous assignment.

commit be4dd35ffecbf49aff13aa9f604a44c9b665ae92
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jul 18 15:51:29 2009 -0700

XQuartz: Initial support for automatic updates through Sparkle
(cherry picked from commit c45f1be36426bceeeef9af67c26351114f14f5277)

commit 2415e2dce918efd49d5e6d71f705255a234a866b
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Jul 20 02:08:31 2009 +0200

EXA: Bail earlier from exaDoPutImage if the driver has no UploadToScreen hook.

Also remove dead code associated with access_prepared local variable.

commit 00fe4a297744c81b40f0243fb56ad848a9be6a2b
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Jul 20 02:04:40 2009 +0200

EXA: Completely eliminate exaDoMigration calls for drivers that manage pixmaps.

commit 7b9915b11ed9eedd0698b4563328504d686ac4ec
Author: Gaetan Nadon <memsize@videotron.ca>
Date:   Sat Jul 18 20:52:20 2009 -0400

dix: xserver "make dist" fails due to eventconvert.h (#27825)

This header file is not in the /dix dir, but in the /include dir.
The makefile aborted and the xserver distribution files were not created.
The fix is to remove this header file from the libdix_la_SOURCES in the dix/Makefile.am.

X.Org Bug 27825 <http://bugs.freedesktop.org/show_bug.cgi?id=27825>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit a98acb290737ac6b0776f2ea8128a4613c0f778b
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 15 13:56:19 2009 -0400

s/xf86EnableOutputs/xf86CollectEnabledOutputs/ for clarity

commit 8fab7f72f2ce4ac5ca415e95c6db05d3084f10c4
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 15 14:09:08 2009 -0400

randr: Add Option "Primary" to Monitor sections

commit 053bb92145045e06f8d72c3bd3d7806432faa1c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 16 14:29:05 2009 -0400

xfree86: Remove xf86SetPriority

GetClocks is pretty doomed to begin with, this really isn't going to
make it worse.

commit 3637945a45d55385335833197b18703379892884
Author: Adam Jackson <ajax@redhat.com>
Date:  Thu Jul 16 14:10:45 2009 -0400

loader: Remove a useless check.

commit ef2bb08c76f0d1eed0c8b3e4937648f0b6ae01e5
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 16 13:53:00 2009 -0400

loader: remove dead LoaderCheckUnresolved

commit 06a278a232b5d0e2440ed365d272abdf1f5d35f
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 16 13:40:48 2009 -0400

loader: Remove useless TestFree() macro

commit 087745b809b9a8347515c719b9d87967194369b
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 16 10:51:53 2009 -0400

fbdevhw: Remove pointless OS check, this never gets built on non-Linux

commit 892c93553aa0b03aeb3f4c27d952cc4bb7120aff
Author: Adam Jackson <ajax@redhat.com>
fbdevhw: Remove a #if 0

commit e5712f2926abf33b146a4ccfcf6e89e914dad37b
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 16 10:49:22 2009 -0400

fbdevhw: simplify some #if 1

commit 8868bb4131be25340bf65ee61b998d353965bab6
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 16 10:44:24 2009 -0400

randr: Un-duplicate the reduced blanking check.

commit 453ee39bc6a6b466e6cda11512cfcd431ba32a4b7
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 16 10:39:37 2009 -0400

xfree86: Fix some misleading comments

commit 2c57a7aa07fd52be315ecb498341776268c1a10
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 16 10:32:53 2009 -0400

xfree86: Remove some #if 0

This code all lives in xf86Modes.c now anyway

commit 1a8c89683ff40cdd1d33da89ab47e7bd240b9bb7
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 16 10:15:41 2009 -0400

xfree86: Remove TargetRefresh option

This was a vestige from the days before we'd make the mode list from the EDID data, and from CRT technology when you could reasonably assume that higher refresh rates were better. Also it did not function as advertised, acting as a high-pass filter instead of a band-pass.

commit b4ee3bf700e04ae1b3c4ec021373424ed6e5338f
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jul 17 14:57:50 2009 -0400

dbe: Fix indentation

commit 0bb9a7e1650180a24246d14493a8168487cf8914
displayid: Implement mode decoding.

commit 2f1a9e5baa367818bf017bd72f20a2f6fa7ac21
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 9 10:13:47 2009 -0400

ddc: s/xf86DDCMonitorSet/xf86EdidMonitorSet/

Since we need a second path for DisplayID.

commit d0cb4f5a91932e901d10cac5f2a4ba12bb8a0e6f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 9 10:10:18 2009 -0400

ddc: Refactor root window property code

commit 14103b781201bc36896cebe9112a20d991fb785d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 9 10:05:01 2009 -0400

ddc: Don't try to publish a root window property for DisplayID

commit c302a5ff49146bff24df196fc36ed38745d42911
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 8 17:42:10 2009 -0400

ddc: Skeleton for xf86DoDisplayID()

commit 0b36f68efb1171fdbe53e93064394f5609b7fb5
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 8 15:36:15 2009 -0400

ddc: mv xf86DDC.c ddc.c

commit 8eb82168fc5c7ea958a4f63676738510647dd203
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 8 15:34:42 2009 -0400

ddc: Give DisplayID a place to hang its hat

commit ace0fe09ae48d57cd0079260cd8d20d041e8eb6
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 8 14:45:47 2009 -0400

ddc: Yet more code motion
commit 3a350688bbe1257feaf1502b4009f5f701d2640e
Author: Adam Jackson <ajax@redhat.com>
Date:  Mon Jun 8 14:37:38 2009 -0400

ddc: Code motion to eliminate forward decls

commit 8797831f82637b0e65a08e1262d1ee57c075cc12
Author: Adam Jackson <ajax@redhat.com>
Date:  Mon Jun 8 14:30:53 2009 -0400

ddc: Update a comment.

commit bb6fa39eb3aa044fffc18632288fd59909ff06344
Author: Adam Jackson <ajax@redhat.com>
Date:  Thu Jul 16 17:43:31 2009 -0400

dbe: Adapt to new headers

commit 9965174f4f09a7de00a9569607e96226208bc2ce
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date:  Thu Jul 16 12:12:48 2009 +0200

Check dev->u.master if there is a custom event handler, too

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c806162c133603a99d9cd844bb04485bb663707d
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date:  Tue Jul 14 13:42:19 2009 +0200

Always update u.lastSlave

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4db8950b1d6c3150ee2e9f1f975e9ecb4eabb1f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Fri Jul 17 10:40:59 2009 +1000

Xext: include securproto.h instead of securstr.h

Reported-by: Byeong-ryeol Kim
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b5f6da1e9b37f52484948185dcf17950657cd65b
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date:  Fri Jul 17 06:34:00 2009 +0300
Revert "Coverity Prevent: RESOURCE_LEAK in AccelSetProfileProperty:"

This reverts commit 7333dc2969f60a0abcfb28e7182a5fff9918223.

False positive.

commits 517fca31d8c341ad36f3de4863adb0bc5206176
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 16 17:28:56 2009 -0700

XQuartz: Localization updates
(cherry picked from commit 4b797fc1edf2bd963410a3133e3d2182ccfda4c3)

commits c8a35165147a9b2f747b25da80d0fbb4279a8331
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 16 17:20:16 2009 -0700

XQuartz: Cleanup getGlCapabilities to avoid hardcoding the number of displays
(cherry picked from commit 12f7365f1f58d648217b16f09c2152fa47dcd7a1)

commits e7be9ff816c1848c700a376908a1411f1e20d29f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Jul 16 16:59:47 2009 -0700

XQuartz: Allow more than 3 OSX displays
(cherry picked from commit 45045eb3968069a8d74ce9188890a5537dc60fec)

commits 7333dc2969f60a0abcfb28e7182a5fff9918223
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Thu Jul 16 18:57:49 2009 +0300

Coverity Prevent: RESOURCE_LEAK in AccelSetProfileProperty:

Event alloc_arg: Called allocation function "XIPropToInt" on "ptr" [details]
167    rc = XIPropToInt(val, &nelem, &ptr);

Event leaked_storage: Variable "ptr" goes out of scope

commits 66eabbeba6b40fed7670b7c05337ed6226dd81e
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Thu Jul 16 18:50:22 2009 +0300

Coverity Prevent: RESOURCE_LEAK in xl86CrtcSetInitialGamma

commits 464e8ad733fa6afee028607d6e7d4663b4c273cc
Author: Oliver McFadden <oliver.mcfadden@nokia.com>
Date: Thu Jul 16 17:51:08 2009 +0300
Coverity Prevent: NEGATIVE_RETURNS in fbdev_open_pci:

Event var_tested_neg: Variable "fd" tested NEGATIVE
At conditional (1): "fd != -1" taking false path
335     if (fd != -1) {

Event negative_returns: Tracked variable "fd" was passed to a negative sink.
347       close(fd);

commit 53ae6b63387e04324b23b6f8311cc22a154c1fb8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Jul 15 23:18:35 2009 -0700

XQuartz: Cleanup keymap locking, fix a possible synchro bug
(cherry picked from commit 33e7437a4984ee7c1b04b87d23dee7d4739d5f12)

commit 6a90c7b93724a2d26eae70b5806ca06e91e7df4c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 16 09:28:42 2009 +1000

xb: cosmetic fix, use TRUE instead of True.

Rest of InitKeyboardDeviceStruct uses TRUE and FALSE.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 52088d3c2d53a91b2690f9cc402f839d77769e37
Author: Éric Piel <eric.piel@trempin-utc.net>
Date:   Sun Jun 21 18:11:28 2009 +0200

xserv: remove unused code in clipValuators

The axes variables was never used, remove it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d3f6b43a240eb763025b3cbf546cb7ae502e94fa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 15 16:51:05 2009 +1000

Update to xextproto 7.0.99.1.

exproto had Xlib client headers moved into libXext.
Protocol header files are named fooproto.h, header files with constants
foo.h or fooconst.h where foo.h was already in use for client-side headers.

commit 693babbf12cc7969c3e211c40373c7af0d41c13e9
Author: Peter Hutterer <peter.hutterer@who-t.net>
xkb: Remove XKMformat.h include from xkbsrv.h into the files that need it.

xkbsrv.h is used by drivers, they don't need the XKM format and shouldn't require it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 35ff5cd26eb7564feefbf238e30b8d43cbb4dc25
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 15 10:29:46 2009 +1000
dix: fix wrong raw valuator copy

internal events keep valuator data at the index for the valuator, not like the wire events that start with first_valuator.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 975bf60a82f863e3bdc36fc3f8201b48a4d1e6f7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 15 10:29:19 2009 +1000
dix: use sizeof(FP3232) instead of 2 * sizeof(int32_t).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d040af7fa3c7314917414a28d723bdda3c4289c3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 13 15:09:38 2009 +1000

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 81b64f668541217c1c9518ac4a7e3f0a6e4002
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Wed Jul 15 00:38:01 2009 +0200
Require renderproto >= 0.11 and pixman-1 >= 0.15.14 for the new blend modes.

commit 0ce42adb4f4e9f9e7f049d9fe79d588ece5936177
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Wed Jul 15 00:37:05 2009 +0200
Render: Add support for the PDF blend mode operators.
xfree86: remove a bunch of unused pci headers

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit cc575a3ba4a52265e410b325c2291fe900a54f33
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 11:38:46 2009 +1000

test: add tests for ProcXIGetClientPointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 92b0065a19dcde50494d2528e194ee76723b3da
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 11:38:00 2009 +1000

test: add ProcXISetClientPointer tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 019bc9d70c5b3beb69ca20b6bca3551e00415992
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 11:37:17 2009 +1000

test: add ProcXIGetSelectedEvents tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8579d39c12b065d8e82fe75af4b254c8ad4f4ab8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 11:36:22 2009 +1000

test: add ProcXISelectEvents tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 60b7a7990003a22be5cc26eb4d8d2d803b97de
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 11:33:22 2009 +1000

test: add ProcXIQueryDevice tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
test: Add ProcXIQueryVersion tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1d635ae65b217e124b3bd5a8844e73f447eb1b79
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jun 12 11:30:53 2009 +1000

test: add xi2 directory, prepare for protocol testing.

These two files provide a couple of common defines, functions and variables that will be used in a number of protocol tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4b93413b2a490a74de2e27b37268332b609ac872
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jul 14 11:20:01 2009 +1000

Add test subdir to base Makefile.am

If unitests are enabled, make will build those as well - spotting potential build errors in the tests faster. Furthermore, this allows for the tests to be run from the top-level directory. This patch removes the "run make check to build the test suite" message since that'd pop up after every build now.

If unitests are disabled, this change has no effect.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e2226f3cd7d1bef598f9657b756a171b02f1a299
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 6 14:57:04 2009 +1000

dbe: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3e1a054423c22f0e35f25127ddee1ea8263892480
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 6 14:24:45 2009 +1000

record: switch to byte counting functions
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 089c460058c4e6814d98d40179eb4c731f37fa80
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 14:22:40 2009 +1000

xkb: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0dc11da57562a7bbb6830ab657a2b818c596a537
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:41:29 2009 +1000

ephyr: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 34bfaa9d9ecd90cfe8413bc275179fdcc193eab3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:29:26 2009 +1000

xfixes: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e216527107fda470b92b7e526f3db22465962a43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:27:23 2009 +1000

render: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1d6b71b8d0dc24355e84391ba413170a03ccdbf4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:25:39 2009 +1000

os: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 86b239ff9c4d01685e357ca2b1ef761d167e3224
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:24:27 2009 +1000

randr: switch to byte counting functions
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7b9c84e320a6f6449fe7bc58a8d6a094ae37b86c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:20:21 2009 +1000

Xext: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit aa19d355125a10b1a385c8f134d68e79d3d609c7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 10 14:25:22 2009 +1000

xwin: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0b4e6a857bce5513e4c19912a54656d4696e56d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:12:57 2009 +1000

xquartz: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit ad508c93c239a5ba8381000c031e96caf2769265
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:12:20 2009 +1000

xfree86: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c20304226b3ca2f8d0a4f486480b0d71913941c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:07:00 2009 +1000

glx: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 87ce93e9973067255b4197d82772f83cd4ea5d27
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:06:47 2009 +1000
dmx: switch to byte counting functions

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dc82e11e509e5f586d77c3e7c1325d515509ce51
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 12:03:34 2009 +1000

exa: switch to byte counting functions.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Michel Dänzer <michel@daenzer.net>

commit 2d35ea8d957a955e1200ba2b14424bdddfe1f4148
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 3 16:50:03 2009 +1000

dix: switch to byte-counting functions.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7dd415aa6a3959f15276741db168ba264948ecfe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 3 13:57:14 2009 +1000

Xi: use byte-counting macros instead of manual calculation.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 912402fd71144bcee255141efe12a78ab439240
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 29 13:09:57 2009 +1000

include: introduce byte counting functions.

This patch adds the following three functions:
bits_to_bytes(bits) - the number of bytes needed to hold 'bits'
bytes_to_int32(bytes) - the number of 4-byte units to hold 'bytes'
pad_to_int32(bytes) - the closest multiple of 4 equal to or larger than 'bytes'.

All three operations are common in protocol processing and currently the server has (((foo + 7)/8 + 3)/4) operations all over the place. A common set of functions reduce the error rate of these (albeit simple) calculations and improve readability of the code.

The functions do not check for overflow.
dix: don't send presence events for attaching/detaching slave devices.

The code that didn't list attached slave devices for X11 clients doesn't exist anymore, so there's no need for these presence events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0c0ef42292f4c910c73b308cd75d77637312da53
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Jul 12 21:43:06 2009 +1000

dix: Remove temporary detachment of slave devices.

Previously, an active grab on an attached slave device would send the device floating for the duration of the grab. This breaks existing XI applications (e.g. the GIMP) since they grab all devices automatically - resulting in the loss of control over the VCP.

The behaviour of extended input devices during a grab in relation to the core pointer is not specified in the XI protocol specification. The removal of the temporary detachment restores the behaviour of extended input devices as present in currently released servers - even if a device is grabbed, an event from this device will result in an event from the core pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9f1570c8f4f549cdd2fbae1234011290fccc73e18
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 26 09:12:47 2009 +1000

input: include effective modifiers in device events.

Require inputproto 1.9.99.13

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 78aedbe609e309446e71835ed15e4557d3ccf723
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Jul 10 17:35:57 2009 -0700

Fix int10 module build after typo in commit 2638e9899
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 35758544813f156eaae28844e693b2a28f6de316
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Jul 10 20:06:02 2009 +0200

EXA: Only pass CT_YXBANDED to RECTS_TO_REGION() if that is really true.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=22642.

commit 2638e9899e57d9b25a2cade3247083a6e101dee2
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 10 16:09:08 2009 +0300

configure: introduce --{enable,disable}-int10-module

Not all chipsets need to rely on the int10 scheme to do its daily work.

Well, the ideal would be to remove all int10 module from the server. I'll try
to provide some patches "soon" for this. Something like:
   http://cgit.freedesktop.org/~vignatti/libx86/

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Oliver McFadden <oliver.mcfadden@nokia.com>

commit 42d95a38535f382bfb2ddfaef93839ab9bbf584f
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 10 15:54:07 2009 +0300

configure: introduce --{enable,disable}-vbe

Not all drivers need this kind of access as well.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Oliver McFadden <oliver.mcfadden@nokia.com>

commit 53d64930513feca417bb5a922966b45c9ff8679
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date:   Fri Jul 10 15:38:51 2009 +0300

configure: introduce --{enable,disable}-vgahw

Not all drivers need this kind of access.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Oliver McFadden <oliver.mcfadden@nokia.com>
commit aaafae79d17c1f802be880d2142af7171fed75d8
Author: Tiago Vignatti <tiago.vignatti@nokia.com>
Date: Fri Jul 10 14:56:31 2009 +0300

xfree86: remove unused vbe header file

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>
Acked-by: Oliver McFadden <oliver.mcfadden@nokia.com>

commit 3711d68f657c77b9477cc4670cc4eac4f62de3af8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 10 11:10:30 2009 +1000

Revert "XKB: Sanitise * actions" commits (#19602)

Reverts the following four patches:

feb757f384382c7782ceac55 "XKB: Sanitise vmods for redirected keys"
b5f49382fe48f0a762d9a15f "XKB: Sanitise ctrls action"
1bd7fd195d856f8ef722161f8 "XKB: Sanitise pointer actions"
61c508f78aa08ea2666fde9 "XKB: Sanitise vmods in actions"

 Strictly speaking, the structs used in the server are not part of the client ABI. Practically, they are as we copy from the wire straight into the structs. Changing the struct sizes breaks various wire/server conversions.

Even when the structs have the same size, some internal magic causes conversions to fail. Visible by diffing the output files of:
setxkbmap -layout de; xkbcomp -xkb :0 busted.xkb
setxkbmap -layout de -print | xkbcomp -xkb - correct.xkb

Interestingly enough, busted.xkb is the working one although the output is incorrect. Revert the four offending patches until the exact cause of this breakage can be determined.

This patch restores functionality to Level3 modifiers.

X.Org Bug 19602 <http://bugs.freedesktop.org/show_bug.cgi?id=19602>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08df24555eb432eb0d90a3f63275e9485e777c4c
Author: Soren Sandmann Pedersen <ssp@redhat.com>
Date: Thu Jul 9 17:23:04 2009 -0400

Reserve space for two GC values in copy_drawable().

Pointed out by Pierre Willenbrock.
Since font modules are dead, don't mention them in xorg-server.pc

The driver assuredly no longer builds against 1.7. Please don't feel compelled to fix it.

The way XaceHook() mixes struct initializers and va_arg() is not portable and gives bogus data on sparc and probably others leading to a crash.

Don't use initializers, instead set each member directly to enforce order.

Cygwin/X: Window positioning improvements for multiwindow mode

* Don't allow window decoration to disappear off to top or left edge of the
display as a result of adjustments to add decoration for the window style

* Honour the position requested by window geometry for the client area (so windows which save their position don't get moved by the decoration width every time they are created) (unless we need to bump it away from top or left edges)

* Fix an issue with initial window placement being offscreen on multimonitor systems when some monitors have negative coordinates (are to the left of or above the primary monitor)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 5aec72745232dd61e60cfbf3acc4628d4fcd0315
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 6 11:53:02 2009 -0700

Remove old DRI2 buffer alloc/free interfaces

These old interfaces are no longer supported by the server, removing them requires bumping the video driver ABI. Note that this is not guaranteed to be the last change in ABI version 6.

Signed-off-by: Keith Packard <keithp@keithp.com>
Reviewed-by: Eric Anholt <eric@anholt.net>

commit 2e2c5b216cc1c7a9bc26bd2c68226aaed5fc52ca
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 1 14:01:57 2009 -0700

dri2: Preserve compatibility with 1.6 DRI2 API/ABI

The old DRI2 buffer allocation API wasn't great, but there's no reason to make the server stop working with those drivers. This patch has the X server adapting to the API provided by the driver, using the new API where available and falling back to the old API as necessary. A warning will be placed in the log file when the old API is in use.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7c7f0c2c6a04f7044d5ce69e97a615735e5831f1
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri Jul 3 14:36:54 2009 -0400

Use IncludeInferiors when copying windows before compositing.

Part of bug 22484.

commit 43ee8d2ead862f84a4526a472519663ef27a8d6a
Unclaim PCI slot if driver probing fails.

Otherwise no subsequent driver will be able to claim this pci slot. Example for this: fbdev tries to claim, but framebuffer device is not available. Later on VESA cannot claim the device.

commit 73abdc94c3cceeda26a9b6bd3cdefc0df8db2
Author: RAŁOVICH, Kristóf <tade60@freemail.hu>
Date:   Sun Jul 5 16:42:54 2009 +0200

glx: damage is only used with DRI

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

ccommit 7208a0f032d487bd3bc980980f4557f1da1e2db
Author: RAŁOVICH, Kristóf <tade60@freemail.hu>
Date:   Mon Jun 29 15:18:56 2009 +0200

glx: remove Xgl leftover

GlxSetRenderTables was only used by the long gone Xgl.

Signed-off-by: Tiago Vignatti <tiago.vignatti@nokia.com>

commit 89cf81cd185919e3dbb5adff5e6c656c7990b60f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 3 10:29:40 2009 +1000

Xext: return BadValue for XTestFakeInput on unsupported capabilities.

Calling XTestFakeDevice*Event on a device that doesn't allow the matching event returns BadValue.

Reported-by: Florian Echtler
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

ccommit b773b4e84e0087993406d1d8c2d895db4d6301ff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 6 11:04:47 2009 +1000

s/MAX_DEVICES/MAXDEVICES/ updates.

The number of input devices is MAXDEVICES, not MAX_DEVICES (f781a752e6)
Two comments updated to refer to MAXDEVICES.
MAX_FUNCS in sigio.c was set to 16 if MAX_DEVICES was undefined. If more than 15 physical input devices were present, this could result in a failure to install the SIGIO handler for any device above 15.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 183c075d219d5f6effa1ce7ab135fb0c2e46085a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 3 13:26:48 2009 +1000

dix: always init the full button map to default values (#22594)

Master devices must have the standard button map applied for all buttons to ensure buttons larger than 7 (the default for MDs) are mapped appropriately.

We can't copy the button map from SDs to MDs since that breaks the chained button mapping. However, by ensuring all buttons (even non-existing ones) are mapped, devices that send such buttons continue to work.

X.Org Bug 22594 <http://bugs.freedesktop.org/show_bug.cgi?id=22594>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 744bb559826ede37a77e9000b6c620ea6a3c837
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 3 13:58:38 2009 +1000

X. Ext: remove unused variable 'it'.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fd4eed69e40cf090aa16e79a8596eb1442461829
Author: Eric Anholt <eric@anholt.net>
Date: Thu Jul 2 15:24:54 2009 -0700

dri2: Enable GLX_SGI_make_current_read when the DRI driver supports it.

This matches idr's 82f150d73cc9a7d8eaf7241a51b03af05bcec159 for DRI1.

commit d6b8205e699c0c62af76c4a9cbff1402337927b3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jul 3 19:25:33 2009 -0700

XQuartz: ProcAppleWMAttachTransient to play nice with the new Dock in SL (cherry picked from commit ddc0242d8f291d0f961ba9aa8c883e39861ce2ad)

commit a49ae50370ec94e08e7dec3c742d33e20e79ef36
Author: Colin Harrison <colin.harrison@virgin.net>
Xming: Apply window style hints in -multiwindow mode

Remove frames from 'dock' windows and make them topmost in -multiwindow mode.
Remove frames from windows with MOTIF_WM_HINTS of no decorations in -multiwindow mode.
Apply some _NET_WM_STATE hints in -multiwindow mode.
Apply window styles overrides from .rc file
Correctly update region of shaped windows when applying styles

Copyright (C) Colin Harrison 2005-2009
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

commit 17e67c407d130c325d3899c18d68b8ee6a88bea
Author: Joe Krahn <jkrahn@nc.rr.com>
Date:   Wed Jun 24 23:32:09 2009 +0100

Cygwin/X: Change to a single native window class for all X windows

from fd.o Bugzilla #4491:

There is no point in having one class for every window, aside from trying to
set custom icons via the class, which we no longer do, so converted to using
a single class for all client windows.

Signed-off-by: Jon TURNNEY <jon.turney@dronencode.org.uk>

commit 2c69deb92e11542f615df0f24fd03e3b4415475
Author: Rémi Cardona <remi@gentoo.org>
Date:   Fri Jul 3 10:51:50 2009 +0200

configure: libXinerama isn't needed anymore

since libXinerama commit 90d4d23bf2e94721149ddc0a80093b10a82e8845 and
xineramaprotoc commit 21477147613c28c968b5e1eb9d8aea7017dd399d, the
server no longer needs libXinerama.

Signed-off-by: Rémi Cardona <remi@gentoo.org>

commit 97e29ff6b5bf04a9d8280f1fa32ceced148503492
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 3 09:52:04 2009 +1000

xfree86: fix wrong IsMaster() check causing crashes.

Crashes caused by dereferencing NULL if the path was executed for a floating
slave device.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 50a2a8dc76645d8736f7d712f0ef05f23089407e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jul 3 09:18:57 2009 +1000

Fix IsXtstDevice - returns false positives since 0814f511d5.

Missing check for the value of `mid` returned false positives if master was NULL.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3525d140567e0ad5f0184e4b37893c47239e1628
Author: Felix Kuehling <felix.kuehling@amd.com>
Date: Tue Jun 30 20:07:30 2009 -0400

Export symbols needed by the RandR implementation in fglrx

GIT change
http://cgit.freedesktop.org/xorg/xserver/commit/?id=45c8bd0fe54273039fd3e14eaf81b5774f2c75
changed the default symbol visibility of the Xserver. As a result 2 symbols that are needed by the RandR 1.2/1.3 implementation in the fglrx driver are no longer visible:

xf86configptr
xf86CursorScreenKey

We would like to get these two symbols _X_EXPORT'ed before Xserver 1.7 is released. Otherwise it will be problematic for fglrx to support RandR 1.3 on Xserver 1.7.

In the future, we may want to sync our RandR implementation to later versions of the RandR implementation in hw/xfree86/modes. Therefore it would be nice if all symbols used by the Xserver RandR implementation were _X_EXPORT'ed in the future.

commit e13605ea40cfe671314a0086c75b917564298b55
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 23 14:09:22 2009 +1000

dix: introduce "Xtst Device" label property.

Xtst devices get this property assigned automatically so they can be detected easily by a client.
The property is read-only.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0814f511d56a89c7b1868b17e6a7a89f990b9ab1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 23 10:50:52 2009 +1000

input: store the master device's ID in the devPrivate for XTest devices.

Rather than storing a simple boolean in the devPrivate for XTest devices, store the actual master device's id (since it is constant for the life of the device anyway).

Callers should use GetXtstDevice now instead of digging around in the devPrivates themselves.

This patch allows for a cleanup in the creation of new master devices since GetMaster and GetXtstDevice spare the need for loops, IsPointer checks and similar.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Benjamin Close <Benjamin.Close@clearchain.com>

commit 1bcc0d3c244ce7d9f5cbab626aa5fd5784b41a1c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 22 16:55:12 2009 +1000

input: abstract Xtst device lookup

The callers should need to use the dev privates key to look up xtst devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Benjamin Close <Benjamin.Close@clearchain.com>

commit 34424fab9ab7a4ca11036be25414129980db0e0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 23 11:50:29 2009 +1000

dix: set the client's error value to the bad deviceid in check_butmap_change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit da04e8f1354fa9d253443489dc002b16f94d6fab
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Jun 30 17:52:42 2009 -0400

dix/property.c: use memcpy where appropriate.
Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 65d74d93145d22b68bad5728a7ebe38dc662cb21
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed May 20 21:32:54 2009 +0100

Cygwin/X: Fix multiwindow extwm mode to build again

Build and link with rootless extension
Update Xwin code for removal of RootlessAccelInit()
Fix Xwin code which now has a collision with the type name EventType

Based on patches from Colin Harrison, Jon Turney and Yaakov Selkowitz

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 638ca9a7a2363757dc5b5d456e10d34f6f158885
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon May 18 18:14:41 2009 +0100

Cygwin/X: Avoid a visual glitch on window move in rootless modes

Handle and ignore WM_ERASEBKGND since we repaint the entire invalidated region anyhow
(this avoids a white flickering on window resize)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b718b2e0880cf2b969675da98d5ef8a4d01ca5d6
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon May 18 18:14:09 2009 +0100

Cygwin/X: Allow pointer warping to work in rootless modes

Mouse pointer warping in multiwindow/rootless mode was never implemented,
due to concerns that moving the mouse pointer without asking might be rude

This patch allows X applications to move the mouse pointer in rootless modes,
Let's hope they don't abuse this privilege ;-) 

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 85614946ba3d5a233eece612aafc7f09572a347c2
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon May 18 18:13:08 2009 +0100

Cygwin/X: Improve mouse tracking for moving/resizing undecorated windows

In -multiwindow mode, tell Windows we wish to capture the mouse when a button
is down. This causes Windows to continue to send movement events for the mouse even if the mouse pointer moves outside the window frame.

This helps greatly with undecorated windows which have regions you can grab to move (e.g. gmplayer, xine control panels) or resize (e.g. Songbird) the window, as it means the window continues to receive the mouse motion even if the mouse pointer moves out of the window (which presumably happens if we don't manage to update the window fast enough to track the mouse pointer)

Consolidate the multiple instances of the code to start the mouse position polling timer into a new function winStartMousePolling(), and use that to restart the polling timer when we release the mouse.

Also, start the timer on WM_SHOW, so that xeyes will track the mouse position when it is first shown, even if the mouse doesn't enter it's window (You probably need focus-stealing turned off to see this problem)

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit f351c10a9774cc0ea2cbb58f00f07ece7f7c6e73
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date: Mon Jan 5 16:17:30 2009 +0000

Cygwin/X: Man page fixes

Correct path names in man pages, using cpprules.in
Install XWinrc man page into section 5

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 5c1afac5eea1d8327c74342d12d082b75f0cebde
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 29 11:16:16 2009 -0400

EDID: Fix timing class names to match the spec

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bf0f3b8f2bc830c8bd6f8f9410b89394b8d96257
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 29 13:31:02 2009 +1000

test: fix build error introduced by XINPUT_ABI 7

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cbeb6a73c44143674a700d36a7e9804d41003a4f
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Jun 20 20:17:41 2009 -0400
dix: report subpixel coordinates for high-resolution devices

Acked-by: Simon Thum <simon.thum@gmx.de>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 069b4c5f0a38649de73d1e0f70ee81bf862399dd
Author: Simon Thum <simon.thum@gmx.de>
Date:   Sat Jun 20 18:57:22 2009 +0200

   dix: make part of ptrveloc.h internal

   Though this is a SDK header, some functions are intended solely for the server.

   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2830e8493757e0da1253fe5ab280562b48730e77
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Jun 24 11:33:19 2009 +0200

   dix: rename pDev->dev, pVel->vel for consistency

   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 373e8c960d00e2b8c2250dd3f66859b081e14854
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Jun 24 11:16:24 2009 +0200

   dix: improve pointer acceleration API

   This makes the ptr accel api actually sensible from a driver perspective, since it avoids superfluous device lookups. Also, makes independent accel contexts possible.

   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b8050bb6deedbb1ee60731f63884ffca575c09ce
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jun 27 15:28:34 2009 -0700

   XQuartz: Don't leave zombied processes at startup
   (cherry picked from commit 40c1406830588fa85d880e9f4e9ca570db1db306)

commit aaff92c8c22a47804a21010d023ef76d82e7ec7e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Jun 27 14:40:03 2009 -0700

   XQuartz: 64bit fix for screen origin in AppleWM
XQuartz: More localization updates
(cherry picked from commit 5925c1f48ad05bf94195b986c1fdefc52a20ae42)
commit 31166c2ae0ce898c96995a8b16b58b127dc85a2f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Jun 26 16:51:22 2009 -0400

xace: add a new hook for checking property content after it has been set.

Allows security modules to enforce what property contents can be set by clients. Uses the new DixPostAccess bit to distinguish between the existing call made during the lookup (with the old property data) and this new call. Note that this only applies to writes, prepends, or appends to existing properties; for new properties the existing DixCreateAccess hook call may be used since it includes the new data.

Refer to the XACE-Spec document in xorg-docs, section "Property Access."

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

dxselinux: ignore property hook calls with the new Post access mode bit set.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

dix: add a new DixAccess bit, "DixPostAccess".

This will be used for follow-up checks after a client has written something, for security modules that enforce a set of valid values a client can set.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

xfree86: DIST_SUBDIRS should not contain variables

This patch reverts a change done in commit
800d4ceb946e9373f4d661ebfd2e68f0b658ca63b6b1 to add conditional XAA support

Signed-off-by: Rémi Cardona <remi@gentoo.org>

commit 84662e40c3d4141ebb298a1ad714f75056a4ab74
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 23:19:21 2009 -0400

Xi: check for GetAttr permission when listing or querying devices.

If the check fails, leave the device off the returned list of info
structures. Under XI2, this may cause inconsistent views of the device
topology after a change (for example, devices disappearing from view,
or showing as attached to a master that cannot be seen). More work is
needed to deal with topology changes and device relabeling.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 00bc8d34e68dab6c818cd1c7e03e9992d01c0fc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 21:41:17 2009 -0400

Xi: check for Use permission on the device in SetClientPointer().

Presumably, some intelligent, XI2-aware management app will be calling
XISetClientPointer on behalf of other clients; this check makes sure
the target client has permission on the device.

Requires changing the prototype to return status code instead of Bool.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 119b96667778391436998c76a68bf64e746e9e08
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 21:02:28 2009 -0400

Xi: fix up access modes for calls to dixLookupDevice().

New access modes are being passed to the device access hook for XI2:
DixCreateAccess for creating a new master device;
DixAdd/RemoveAccess for attaching/removing slave devices to a master; and
DixListProp/GetProp/SetPropAccess for device properties.
Refer to the XACE-Spec document in xorg-docs, section "Device Access."

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 07c36e4fdcd93df3d33bdab6cca4780ebc9c1f54
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 10 13:33:47 2009 +1000

dix/resource: fix use after free in resource code with DRI

LookupClientResourceComplex is used by DRII code to find and free a DRI drawable in a callback, however when the DRI code returns this->value is now pointing at freed memory. It seemed easiest to store the value to a temporary and return it afterwards.

Another option might be a new FreeClientResourceComplex or one that also returns the id, so we can free it using an alternative means.

found using valgrind.

amended along ajax's suggestions

commit 184deb9bc325eb7aa7eb7b7d4f98aa917f0269cb
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 24 10:40:05 2009 +1000

GLX: make function static.

This function isn't called from anywhere else and I don't think it should be.

commit 9d85b56078ec05da1369ca22930d8eb214c389db
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Jun 24 10:38:49 2009 +1000

GLX: note the implicit flushes with ReadPixels in indirect contexts.

This just notes the flush has occured when readpixels returns, and fixes the glean test.

commit e341512bfa40dd98853a20596dc65dcac4dcaa37
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Sat Jun 20 21:37:59 2009 -0400

dix: update a comment

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5cbd4d3d6e54d202eddbb527b57aaefeb8435600
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date: Sat Jun 20 20:17:04 2009 -0400

dix: do away with an instance of temporary in-place modification

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 94c0dc1ef0a72802573a11ba292e2f5cc8d474aa8e  
Author: Thomas Jaeger <ThJaeger@gmail.com>  
Date: Mon Jun 22 13:00:37 2009 -0400

dix: deal with first_valuator > 0 correctly if POINTER_SCREEN is set

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 21cbb4e9de44e2629dc0fa6b47ce2d139f2ceef0  
Author: Oliver McFadden <oliver.mcfadden@nokia.com>  
Date: Wed Jun 24 00:24:44 2009 +0300

xorg-server.h.in: Export the X Access Control Extension (XACE), too.

Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 800d4ceb946c93724661ebfd28af658ca63b6b1  
Author: Tiago Vignatti <tiago.vignatti@nokia.com>  
Date: Wed Jun 24 00:13:32 2009 +0300

configure: Provide the --enable/disable-xaa option.

Acked-by: Daniel Stone <daniel@fooishbar.org>

commit ce3d539ac6ecab3e343cefb7c4de112bc82ea3b02  
Author: Oliver McFadden <oliver.mcfadden@nokia.com>  
Date: Wed Jun 24 00:08:51 2009 +0300

xf86Config: Avoid attempting to load non-compiled modules.

Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 33e25143361d63ea776dafaeeb6d4fffb2f6d8d4  
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>  
Date: Fri May 15 22:42:30 2009 +0100

Cygwin/X: add hebrew to autodetected keyboard layouts

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit b079945c39e2a72220b46953352e24c3a74ef39a
Cygwin/X: more warnings fixes

More warning fixes, mainly removing casts on function return values

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commith79db6a97d02c8a256a4a7e145ea0b48b5a084ab
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Wed Feb 11 23:00:58 2009 +0000

Cygwin/X: Remove an obsolete mention of xf86Config

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commith79db6a97d02c8a256a4a7e145ea0b48b5a084ab
Author: Michel Dänzer <daenzer@vmware.com>
Date: Tue Jun 23 16:45:40 2009 +0200

glx: Clean up more thoroughly if the drawable of a current context goes away.

Fixes crash when restarting compiz, due to cl->currentContexts[x] being stale.

commith597709d71f47b8516e27c6fb1bfff59de5e48
Author: Michel Dänzer <daenzer@vmware.com>
Date: Tue Jun 23 16:45:39 2009 +0200

dri2: Don't crash if pPriv is NULL.

commith48697ccfa31cf7f7a29afa90a2f702d43efb7d4
Author: Ben Skeggs <bskeggs@redhat.com>
Date: Wed May 27 15:24:34 2009 +1000

quirk: use first detailed timing as preferred for PEA prod 9003 (rh#492359)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commith7154db4a8b96467785fd6be93d20379acacff8a
Author: Ben Gamari <bgamari.foss@gmail.com>
Date: Mon Jun 22 08:59:45 2009 -0400

Xi: Remove redundant and incorrect butmap range check

Maps are CARD8s, therefore checking for values above 255 is completely unnecessary. Moreover, 0 is a valid value for maps, so the check wasn't even correct to begin with. This fixes bug #22392, which was uncovered
Signed-off-by: Ben Gamari <bgamari.foss@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 96706c24bd57fd9b11e5bd5e38d05d81b90aebe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 18 15:40:08 2009 +1000

dix: fix wrong indices in set_valuator.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ae20e748cd3a656173e1f50109bdf4af0712bb87
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jun 19 21:16:10 2009 -0700

XQuartz: More localization updates
(cherry picked from commit 7fbe974246f54535c545861a57c043d80e127ee7)

commit 30df49f54945c75f033a0eb6445c26d37eb33c5e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 23:15:47 2009 -0400

Xi: fix 2 memory leaks.

In ProcXIQueryDevice() and XI SendDeviceHierarchyEvent().

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit eb35402d0a5290e8a73d7d1e92fd173294ec364cc2
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 19 12:42:07 2009 -0400

pci: Dump vendor/devices ids in the printed device list

commit c733660428c0a7c1d11f7bd21e23e1bb934d352e
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date: Fri Jun 19 08:37:18 2009 -0400

Use pixman_version_string() instead of PIXMAN_VERSION_STRING

Pointed out by Julien Cristau.

commit aef6b904ebf0d7de6259058606c7c04ea177bda3
Author: Dave Airlie <airlied@panoply-rh.(none)>
Date: Thu Mar 13 16:16:46 2008 +1000
fbdev: make entity fail if PCI claimed already.

bad kitty fbdev, been shipping this in Fedora for a while now

commit 3efb23a6c40dc3583d083d25ada3853ecc560000
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 19:35:22 2009 -0400

xselinux: Add new device permissions for XI2.

Reelects the ability of clients to add/remove devices and device properties.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 1e060c3d8b13d352a58fe65980cb9a3c6c5b718f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 18 18:48:24 2009 -0400

xselinux: Move the security class mapping to the header file.

Take the mapping of DixAccess bits to Flask permissions, move it into the header file, break up the extremely long lines, and annotate the permission names with the bit being referenced.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 75c51c67b340548286efd41a53882e2acaf74ah5
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Jun 18 09:49:12 2009 -0700

Clarify use of and need for mffs vs. ffs

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 128cd03eecc66d5c5903d59a11966dcf3697bf1
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date: Sat Jun 13 10:55:04 2009 -0400

Fix miComputeCompositeRegion() to follow new clip rules.

Ignore the hierarchy clip, and always apply any client clip after transformation and repeating.

commit e9aa61e9f0d663d5b34a397b943b4d1df4e873d
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date: Sat Jun 13 10:28:21 2009 -0400
Fix clipping when windows are used as sources

The new clipping rules:

- client clips happen after transformation
- pixels unavailable due to the hierarchy are undefined

The first one is implemented in pixman; the second one is realized by making a copy of window sources (to prevent out-of-bounds access).

commit d9b5e77a0e48a16e53653b56bc61a0fb8dc4122a1
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Tue Jun 9 14:36:21 2009 -0400

Print the current version of pixman.

commit 1e9907499e27321a2aa5de8a75a375b7a82c999a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 18 15:14:00 2009 +1000

record: use dixLookupResourceByClass instead of LookupIDByClass.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 66089e9129a821cfb1983d3d35f41b975a52de5e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 25 12:55:42 2009 +1000

xfree86: fix SWCursor check in xf86CursorSetCursor.

Wrong check for inputInfo.pointer resulted in a SW cursor being rendered when
the pointer left the screen (in a Xinerama setup).
We must call the sprite rendering function if
- SW cursors are enabled, or
- The current device is not the VCP and not attached to the VCP.

Reported-by: Gordon Yuan <GordonYuan@viatech.com.cn>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit afa680e4956221f521ca80563511c0d284f57551
Author: David Miller <davem@davemloft.net>
Date:   Thu Jun 11 05:15:05 2009 -0700

mi: ignore DGA events in ChangeDeviceID

DGA events don't have a deviceid, so they don't need changing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit cd8abd17abc8ae9da6704d03b97a9f134f36aab
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Wed Jun 17 14:17:07 2009 +0100

Cygwin/X: Fix permuted args to InitPointerDeviceStruct()

Fix a minor error in commit a30fe9956b296f59ca18a9ee38d0abafeb15a4e, new btn_labels argument to InitPointerDeviceStruct() wasn't added in the right place.

commit 14581afb474552716c02ca15220ca7050123c375
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date: Thu Feb 26 17:32:10 2009 +1030

xfree86: correctly define barriers for FreeBSD amd64

Previously when compiling on freebsd amd64 we'd end up at xi86 block (line 1315) which would define mem_barrier and write_mem_barrier to be NOP's. Instead they should be valid, as per the linux amd64 setup.

This stops the hangs experienced by many when using the nv driver which would hang due to out of order dma requests as noticed in http://bugs.freedesktop.org/show_bug.cgi?id=3168

Signed-off-by: Benjamin Close <Benjamin.Close@clearchain.com>

commit e92dcb6ce07aa3cfb53e8bad5701481e106c4094
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 18 14:40:20 2009 +1000

input: unify button numbers on master devices.

Master devices provide the union of all attached slave devices' buttons, i.e. the number of buttons on the master device is always the number of buttons of the slave device with the highest number of buttons. When slaves are attached or detached, the master device adjusts the button number to reflect the new buttons.

On a slave switch, this slave's button labels are copied into the master (up to slave->num_buttons). The remaining button labels (if any) stay as they are. Thus, if any of the higher buttons is still pressed, it reflects the label of the last pressed device that provided this button.

If two devices press the same button and it is differently labelled the last pressed one will be reflected in the master device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 280b7f92d729ec910ffa3d18dce7bbc215be7a3c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 17 22:38:24 2009 +1000

dix: reduce MDs and xtest pointers to 7 buttons by default.

MD's will soon be the union of all devices anyway. XTest pointers are only
for the core protocol XTest stuff, so 7 buttons (Imr + 4 wheel buttons)
should do.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6c7d992735eebbd7a20247926e7725896348b865
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 17 09:11:52 2009 +1000

Require inputproto 1.9.99.12

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09cef7573938e5c08007e578e1b638bc5e1796a8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 17 09:04:08 2009 +1000

Xi: valuator/button labels are called labels now, not 'names'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc2ff5365030ad8bc11efde430b1064080dd7098
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 19:36:57 2009 +1000

Xi: copy the valuator mode from SD to MD.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 87d1f44bad608507e3995e17eb84fa0a0119796c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 14:18:45 2009 +1000

Xi: copy the button and axes labels into the XIQueryDevice reply.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a30fe9956b296f59ea18a9ee38d0abafeb15a4e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 16:38:11 2009 +1000
input: Add labels to buttons and valuators - ABI_XINPUT_VERSION 7

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 17f9723f488d0470e3879e6b0dfda61544cdd7b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 17 08:37:44 2009 +1000

input: bump to ints for deviceids - XI2 requires 16-bit deviceids.

Note: ABI break, but ABI_XINPUT_VERSION has NOT been bumped. Recompile input drivers.

Revert "Xi: return BadImplementation for deviceids 256 and above"
This reverts commit 2b459f44f3eda137df9a28bc7adfeb1b9f1df7.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cbeb73e2055f6c013e8fe6325851f2631170137d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 10:51:52 2009 +1000

Xi: return current valuator values in XIQueryDevice.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 80837dbefd9d5e96ab5e1f4b42d5c66ce17ce67
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 10:51:17 2009 +1000

input: change axisVal from uint to double.

With subpixel support, uint just doesn't cut it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 25b6fc4a42f7698e6ae0b16becb316bfd7835d05
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 10:48:48 2009 +1000

Xi: last_valuator is used like an index, so range it accordingly.

The previous code would always skip the last valuator due to a wrong upper boundary in the loop. last_valuator is the index of the last set valuator - which also means it must be initialized to -1, not 0.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 3fc762ea9474cf92f6b7ef60dd0bb68f59385272
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 10:48:03 2009 +1000

Xi: Motion events update the device state too.

Without this line the device's axis values don't get updated properly for
pure motion events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ad6347afead500fefb34131841f4be55b03ad4ec
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 16:35:40 2009 +1000

Xi: don't use a constant number for class sizes - use sizeof instead

The protocol is still changing, and having to debug crap like this is
annoying.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d5a15e65b7d2fda14f7199e3ebf076cede896386
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Jun 14 09:15:42 2009 +1000

Xi: include button state in XIButtonInfo.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 01241b4247a7ad50974d48412cc0d8e1a09a3e49
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Jun 7 19:43:11 2009 +1000

Xi: Add support for sourceid in the device classes.

commit d230742ea823a21a3f1ed0c58b5e6d8680b2f2aa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 16 12:13:16 2009 +1000

Xi: namespace XI2 files.

Some files (notably those merged with MPX before XI2 came along) didn't use
a 'xi' prefix. This patch changes all of them to meaningful names.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 4ddb002b6847e8a88e6f13ae0453a35ee79946ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 15 15:14:47 2009 +1000

xfree86: fix two compiler warnings in xf86vmode.c

xf86vmode.c:1578: warning: pointer targets in passing argument 1 of ‘SwapShorts’ differ in signedness
../../../../include/misc.h:231: note: expected ‘short int *’ but argument is of type ‘CARD16 *’

xf86vmode.c:1543: warning: unused variable ‘i’

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9d039ef5047af2dedff0c583dda11032f71bed01
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 15 15:11:55 2009 +1000

xfree86: silence a few int10 compiler warnings.

't format ‘%#x’ expects type ‘unsigned int’, but argument 2 has type ‘CARD32’
and similar.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fb882b3da189847bc98b646faddac9e8b42aa435
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 16 14:58:10 2009 -0400

EDID: Carp about 1.4 monitors with no preferred refresh rate

You would think, having finally tightened down the spec, that monitor vendors would bother to implement what the spec actually mandates. You would be wrong.

commit b2d2af76b43d62c9be07fd736652f904632fd663
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 15 10:10:26 2009 -0400

randr: fix typo in swapped dispatch

commit 1d20b9021e8aecb942619f64017cc2fc31f02d29
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Jun 14 18:21:43 2009 +1000

Xi: fix wrong bit->byte conversion in ProcXIQueryPointer
Xi: remove un-used IsOn macro.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b67ff1d6e0d101170c6261593ca36d0f51d917393
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 12 16:45:36 2009 +1000

Xi: XISelectEvents/XIGetSelectedEvents use 'win' instead of 'window' now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b2bf67b61c564a4b92a429ca9ad455403161f33a
Author: Benjamin Defnet <benjamin.r.defnet@intel.com>
Date:   Wed Jun 10 21:35:48 2009 -0700

randr: fix operation order so that rotation+transform works

The matrix multiply to combine rotation and projective transforms was being
done in the wrong order.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 3627215e97734cc367ff273a3358c2a95a53481
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jun 5 16:38:46 2009 +1000

Add check for GNU ld in the test suite.

The GNU linker supports a -wrap option to wrap function calls at link-time.
This allows for easy overriding of functions in the X server with stubs in
the test suite. This functionality is only supported on the GNU linker and
will be used extensively in the tests. Disable the tests if GNU ld is not
available.

commit 5e0ca6fabd12401de6bd6039484be2079e28851e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 11 16:26:23 2009 +1000

input: remove un-used "setter" argument from SetClientPointer.

It's obsolete, not likely to come back, let's drop it.
Xi: fix XISetClientPointer return values.

If SetClientPointer fails, the only reason may be that the device is not a pointer or that the device is an SD. Return BadDevice instead of BadAccess. (BadAccess is a leftover from the early times of the ClientPointer implementation when only one client was allowed to set it).

If the window parameter doesn't name a valid window or client, return BadWindow.

Finally, allow both master keyboards and master pointers as deviceid.

Xi: Fix XISetClientPointer swapping.

Xi: sanitize ProcXIGetClientPointer.

This was quite old code and can be streamlined a bit. The new code is essentially the same as in ProcXISetClientPointer.

Xi: fix reply swapping in XIGetClientPointer.
commit 76f25086a9ab6f0c27d9e2cd745f8463c6b3df5f
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jun 11 16:34:06 2009 -0400

  vfb: Re-enable 30bpp support

commit 0de58c88aba7ddd69b04f24ab5b2967c359aa69e
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Jun 11 14:21:53 2009 +1000

  xfree86: move didLock assignment down to where the function pointer is valid.

crtc->funcs->lock is NULL, so it's no use calling it here. Move it down so
it's actually defined before we use it.

  Introduced with 6f59a8160042ea145514fdcb410f17f33fd437c2.

  Tested-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a85d210b34506cb39e7f08d81d4586fe4448b47f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 11 12:32:39 2009 +1000

  Xi: store mask_len before swapping in ProcXIGetSelectedEvents.

  Swapping the mask_len and then advancing the pointer by the swapped length
is just a bad idea.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5043f42f36b49e7702d0c496dd4fe157788d44ee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 11 12:31:40 2009 +1000

  Xi: correct return buffer size for XIGetSelectedEvents.

  The maximum number of bytes is calculated by the mask len, and the mask len
is always in 4-byte units. XI2MASKSIZE however is in bytes.

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fcf0c0b8f332cbde03c1a479376b7913197962eb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 11 13:23:40 2009 +1000

  Xi: XISetEventMask needs to clear the mask if len is 0

  zero-length masks are supposed to clear the device's mask.
ProcXISelectEvents passes these masks through directly, so we need to clear the bits here if such a mask is supplied.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 22b4ac44e4f0b50a9d77506f01413612e429f540a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 11 11:08:07 2009 +1000

Xi: XIGetSelectedEvents mustn't returned masks from non-existing devices.

Or devices the client doesn't have XACE permissions for.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7868956b0f50a9d77506f01413612e429f540a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 10 17:09:39 2009 +1000

Xi: ProcXIGetSelectedEvents must use WriteToClient for swapped data.

The data is already swapped before, so we just post it to the client as-is, without attempting to swap it again.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit aa2babf11c30be4d289b58212dc330b84efb4053
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 10 14:41:11 2009 +1000

input: remove dependency on XI2 protocol for XI_LASTEVENT.

inputstr includes XI2proto.h for the sole purpose of XI_LASTEVENT. However, using XI_LASTEVENT in the server is prone to errors, if the server is recompiled against a newer version of the protocol it would bump this variable and associates bits, including potential ABI.

This patch defines an XI2LASTEVENT for use in the server and removes the XI2proto.h require. XI2LASTEVENT is the current value of XI_LASTEVENT.

This patch is required by components that require access to inputInfo (currently xf86-video-geode and xf86-video-cirrus) but should not have a require for the XI2 protocol.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 77cc816da4a2777110182ed01c22c0f5e6ac3b65
Author: Peter Hutterer <peter.hutterer@who-t.net>
Xi: rename ProcXISelectEvent to ProcXISelectEvents.

The request name has the plural, so let's do it here too. Purely cosmetic change.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9563feeeb5309de1971c4e04419fed6fd31c9cea
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 9 16:57:09 2009 +1000

Xi: start checking for invalid mask bits _after_ LASTEVENT.

Two issues that combined to false positives and false negatives.
- The checking for invalid bits must be performed when there are enough bits
  that an event outside of LASTEVENT may be selected.
- The first invalid bit is LASTEVENT + 1, not LASTEVENT.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e2fbaebb87e18198143a4b8e6be7e650563cd819
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 9 14:38:25 2009 +1000

Xi: XISelectEvents returns BadValue for num_masks == 0.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cfeb65ac45b194dead5e8b9b26192df2619d6f9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 9 14:37:42 2009 +1000

Xi: XISelectEvents needs to be at least size 3, not exactly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f3c26034eca98924d93a004aaa1f61ffe5d344ca
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 9 13:04:56 2009 +1000

Xi: XIQueryDevice should use XI FooClass instead of the old FooClass defines.

This is merely a cosmetic change, the actual values are the same anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: get the class length before swapping.

Advancing by the already-swapped length lets our pointers point into nirvana.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: Swapping 32 bit keycodes requires swapl, not swaps.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

glx: fix open-coded linked list removal function

OMG stab stab stab, YALL.

removal function was made of crack, actually truncated the list from the one after the find point.

However fixing this makes glean makecurrent fail with a GLX error.

KDrive: Warning fixes

xEvent vs. InternalEvent confusion still reigns though.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

KDrive: Xephyr: DRI: Warning fixes
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit f534e6bea17746db952feb563ffe7320846b49d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Apr 25 15:38:54 2009 +1000

OS: Fix compile warnings

It's a marvel the sigaction() ever actually worked.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 305ab237f666936cd812c464bf43f86f6079838e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Apr 25 22:11:19 2009 +1000

KDrive: Warning fixes and cleanups

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 4c8812b544ce5f319a7ac59a131c626c8509ef99
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jun 10 12:46:19 2009 -0400

kdrive: undef PSEUDO8

Whatever that was, it no longer is.

commit 973ef5a7086aedb88a4888e73630c96ae68078e4
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jun 10 12:44:45 2009 -0400

kdrive: Remove a lie about PCMCIA support.

commit e3c65cf1d9bbfb126f07b4b8e1254a855fb70c7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jun 10 12:05:09 2009 -0400

xephyr: Add -title option.

commit 803522300344265f11ea9f869ee6747730413bae
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Jun 10 13:32:54 2009 +0100

Xming: Simplify logic for ownership release of native clipboard

Make the logic simpler for the ownership release of the Windows clipboard in winclipboardwrappers.c - We've already marked a selection
as unowned if it is owned by our clipboard window

Copyright (C) Colin Harrison 2005-2008
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit c7d3965bee0edeb72468a0135aaa8a081348c2b23
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date: Wed Jun 10 13:09:44 2009 +0100

Cygwin/X: Add a needed inputstr.h

Add a needed inputstr.h to fix build after commit 6d4ffcc9e066bc7e49dcb1a2ff0111801c7286d

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 6d4ffcc9e066bc7e49dcb1a2ff0111801c7286d
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Jun 10 11:15:24 2009 +1000

input: move inputstr.h to where its needed.

This stops inputstr.h being needed to be included by output drivers.

Signed-off-by: Dave Airlie <airlied@redhat.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f59a8160042ea145514fdcb410f17f33fd437c2
Author: Benjamin Defnet <benjamin.r.defnet@intel.com>
Date: Mon Jun 8 21:45:42 2009 -0700

hw/xf86/modes: Set crtc mode/rotation/transform before calling set_mode_major

This moves code out of each implementation of set_mode_major and back into the X server. The real feature here is that the transform is now available in the crtc for use by either xf86CrtcRotate or whatever the driver wants to do. Without this change, the transform was lost for drivers providing the set_mode_major interface.

Note that users of this API will want to stop smashing the transformPresent field, and could also stop setting mode/x/y/rotation for new enough X servers, but there's no reason to make that change as it will break things when running against older X servers.

Signed-off-by: Keith Packard <keithp@keithp.com>
Acked-by: Daniel Stone <daniel@fooishbar.org>
commit e244a5991e2cc55f5aa2f6e5255f1dabf56f0235
Author: Federico Mena Quintero <federico@novell.com>
Date:   Tue Jun 9 13:28:28 2009 -0700

dix/randr: Add missing fields to SRR*NotifyEvent()

Also, remove redundant field swaps and make others match the order in which
they are declared in the xRR*NotifyEvent structs.

Signed-off-by: Federico Mena Quintero <federico@novell.com>
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 746e7b22e1bdfbf2363040367209b4c46b1c2fec
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 9 16:20:11 2009 -0400

cvt: Allow multiple-of-60Hz refresh rates for reduced blanking.

Doing so generates the same timings as given in the DMT spec for
120Hz RB, so we should be set there. Other rates might be legal
too but why push our luck.

commit 2a035600e603117a4dbe668cad50bae2a5609094
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 9 10:14:18 2009 +1000

    require inputproto 1.9.99.11

commit c5bebca46f63bcd7279f3c7ed1d50e0c1b6051f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 8 17:54:05 2009 +1000

    Xi: hierarchy events have a num_info now instead of num_devices.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 810b74dbbccc1db3e68e0f95f5223dd2032e46d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 8 13:41:22 2009 +1000

    Xi: change from XICreateMaster to XIAddMaster for consistency.

    add/remove is used for slave devices and hierarchy flags.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e66a443a09176b8a875195d5473b953c07aa1d7

---
Xi: return BadValue for XI_HierarchyChangd mask on devices.

This mask may only be selected for XIAIIDevices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 69a9545d1f8110841538410818df19fd960412c5
Author: Keith Packard <keithp@keithp.com>
Date:   Thu May 28 14:43:27 2009 -0700

Make RANDR 'set' timestamps follow client specified time. Bug 21987.

The lastSetTime value which indicates when the configuration within the server was last changed was not getting set in the appropriate RandR requests.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit fa18e569ed26d2fd4d42af6b39723cb7e30d18df
Author: Ben Skeggs <bskeggs@redhat.com>
Date:   Tue Jun 9 09:14:50 2009 +1000

exa: driver pixmaps enabled if either CreatePixmap or CreatePixmap2 present

commit 9390b7a133b0e17be4d303e2b7a99ff7017b086
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Jun 7 19:26:45 2009 +1000

dix: protect against missing ButtonClasses in GetPointerMapping.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 21ee53060b4dcb5c12074ef6682f0067021ff60
Author: Simon Thum <simon.thum@gmx.de>
Date:   Fri Jun 5 19:14:48 2009 +0200

config: fix build after XI2 API changes to RemoveDevice.

This patch fixes the build with --enable-config-dbus is enabled (default disabled).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 07c59411817c10fbcbf1bc9eafa6a0818b6e0493a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Jun 6 22:17:44 2009 -0700

GLX: Make sure the types match for ALIAS in indirect_reqsiz.c
(cherry picked from commit 31a20a573b867f7f02da15425e3b92eccb82dec)

commit 077556ec39ca7e0d14486005cf71fcdc70a350cf
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Jun 6 21:55:51 2009 -0700

XQuartz: AIGLX dispatch table cleanup

This should fix some issues when building on different versions of OSX. We only use extensions that
OpenGL.framework's glext.h header tells us are supported.
(cherry picked from commit e10c53421f1e780573c8adcd8ea89d6ffa28a819)

commit fc24a97a8d022e986082b65b5133701e7273805c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jun 2 19:12:41 2009 -0700

Rootless: Use serverClient instead of NullClient

This seems to stop the crash when moving windows.
(cherry picked from commit fcd857c8e295ac7a2b0e58d49dc71251ed9d1266)

commit 2429daa7e6b35a4a8032e1c3736e417a5a9baa07
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jun 2 10:19:10 2009 -0700

XQuartz: Default to forcing the dialog box before quitting.

This will show the quit dialog for users of other WMs.
(cherry picked from commit 639ee0c913f892776flee40bcfb856e0d7c7d256)
(cherry picked from commit 09432fa5b1c8e9a30fb8aa4f8d2c8d4e91e30)

commit 6d75606a9e7f6ebc4d79a5261a48f5915c71cbedc
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Jun 1 22:58:40 2009 -0700

Rootless: Despite its name, we still want to allow rootless to mess with the root window

This fixes the bug whereby we weren't drawing the contents of the root window since
RootlessPaintWindowBackground got nuked.
(cherry picked from commit bb0e208787739fbed2a0e8d1af6b6f139fdef88)

commit 7348bf4935e8887bca33fe340ac2548f551bee3d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Jun 7 09:25:51 2009 +1000
dix: set the generic event type for implicit XI2 grabs.

event->type is always GenericEvent for XI2 events. Instead, XI_ButtonPress (the generic event's evtype must be stored.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bb1c131b785ca30cf40041db3513b7669beebd34
Author: Simon Thum <simon.thum@gmx.de>
Date: Thu May 28 16:43:42 2009 +0200

dix: suppress pointer acceleration on xtest devices

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 707b1241681c33401d5e0eb6edeace33f5970928
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Mar 21 18:19:19 2009 +0100

dix: prefer lroundf() over roundf() in axis scaling

it's unclear whether there actually is a problem, but in a very similar case there is (bug#21456). Also, integer addition is generally faster.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ef0e435052b2fda598cd8670c8e892aea685a102
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Fri Jun 5 19:29:02 2009 +0100

Cygwin/X: Remove obsolete ChangeLog files

Remove obsolete ChangeLog files, this information is preserved in the automatically generated top-level ChangeLog

commit 7525085777aa7f0a1d80c8b7fd3fe2b098e5e5fa
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Tue Jun 2 21:19:46 2009 +0100

Cygwin/X: Tidy up a bodge to avoid collision between X header and native Win32 API definitions of ATOM

Remove a bodge to avoid collision between X header and the native Win32 API definitions of ATOM, use X11/Xwindows.h which exists to address these issues

Consequently, include misc.h in winclipboardthread.c, to provide the max() macro, as previously we were using the the one from windows.h
Revert "test: check from INT_MIN to INT_MAX for core type conversion"

This patch requires extra special casing to check if the linker supports the -wrap option. Patches to do so will follow, in the meantime, revert this commit. It shouldn't have been pushed in the first place anyway.

This reverts commit d979f443946011158b6a183582728a6899c33b85.

Xi: fix XIQueryVersion major/minor swapping.

Xi: add XIQueryVersion reply swapping hook.

Xi: return BadImplementation for deviceids 256 and above

The protocol allows for 16 bit device ids, but the implementation doesn't yet. We need to break the input ABI once more to shift the DeviceIntRec's CARD8 to a CARD16, along with some changes in the privates.

Once that is done, revert this patch.
Xi: fix flawed logic in XIXQueryVersion return value.

The server returned the minimum of major/minor each instead of the lower of the combined major.minor version. As a result, a client reporting 3.0 and a server supporting 2.7, the return value would be 2.0 (the minimum of both).

Reported-by: Rémi Cardona
Reported-by: Simon Thum
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b6c16fc7dad5a4ffcaab647c0e3fabed372efd5
Author: Dave Airlie <airlied@redhat.com>
Date: Fri Jun 5 11:57:39 2009 +1000

crtc/gamma: check xf86_config is valid before using it.

If you have multiple cards, some that support randr 1.2 and some that don't you can get a null dereference in here.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit da682abce78c9a5b2fde09679061fe08a3a1c665b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 4 17:33:25 2009 -0400

xace: fix a bad send access hook call.

commit 993daf06497c85bb6a1e70592df380503d721dfb
Merge: 2bda50ee14 e1e8c7ddd7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 4 15:11:36 2009 +1000

Merge branch 'master' into xi2

commit 2bda50ee14b7873f28081bf0f1bf7b79a40de43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 4 14:51:32 2009 +1000

Xi: memset the device name padding to 0.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09266d6d6cd1bb6e09fe8bcb875c63fb4011c05b55
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jun 4 13:36:29 2009 +1000
Xi: XIQueryVersion requires major_version of 2 or higher.

Otherwise, a BadValue error is sent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6ea76c550486bd17eb31f43757030fb44bd51eab
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 4 12:55:59 2009 +1000

Xi: reply with the XI2 version that is supported by both client and server.

XIQueryVersion must return the client's version if the client's version is
lower than or equal to the server's version, or the server's version
otherwise.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d979f443946011158b6a183582728a6899c33b85
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 4 11:40:14 2009 +1000

test: check from INT_MIN to INT_MAX for core type conversion

ErrorF is link-wrapped to reduce the run-time of the test.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d8471bc7a19cd248fa3e0845496c86cd9251c013
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jun 4 11:32:15 2009 +1000

test: adjust event_to_core_conversion test for new ProximityIn/Out behaviour

Both types now return BadMatch.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e1e8c7ddd7fadb674361364295fb1cb65f28b45
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jun 3 13:37:32 2009 -0400

s/MIN/min/, s/MAX/max/ (#2968)

commit 6de67d3206f0a4e307070714564c19efc84da2ec
Merge: af4e658401 7f027d9de0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 3 16:11:33 2009 +1000

Merge branch 'master' into xi2

commit 7f027d9de0146e229802aeac342ea2dbab63264a
Author: Olivier Blin <blino@mandriva.com>
Date: Thu May 28 20:57:36 2009 +0200

kdrive: add protocol mouse option

kdrive probes a lot of PS/2 protocols for the mouse device, which makes the mouse unusable for some seconds after X startup. This new "protocol" option allows forcing the mouse protocol. It can be used this way:

Xfbdev -mouse mouse,,protocol=ps/2 -keybd keyboard

Signed-off-by: Olivier Blin <blino@mandriva.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit af4e658401ebd2f2cc515b4c5abe5ae361cd64
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 3 12:30:49 2009 +1000

mi: only process master if the SD is still attached.

SDs may be detached during event processing (e.g. if a passive grab activates). In this case, the event must not be processed through the master device.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eb3fe72ebed10c3953d713e07c321e695194a328
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 3 12:19:14 2009 +1000

dix: set the device state for XI valuator events.

Valuator events need to include the device's state, while other device events need to include the state of the core devices.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08fd2ae652883393ecff6f3d5177e63408d58472
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jun 3 12:18:17 2009 +1000
dix: use GetMaster in PickPointer and PickKeyboard.

GetMaster is more reliable than GetPairedDevice, it always returns the keyboard/pointer if desired, even if the wrong device was passed in.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a1d1dd06f8f91c1d1802f7581a4ba7568b85e69c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 3 12:15:32 2009 +1000

Xi: fix wrong grabtype from ProcXGrabDevice.

86077f0058ce88ee9b3df5d1ab854ee69c switched from a boolean to a grabtype enum. ProcXGrabDevice didn't switch with it. PickPointer during an XI grab on a slave device would thus return a wrong (or NULL) device and crash the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a371a47205fc58a587e1aeeca43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 3 11:47:16 2009 +1000

  dix: EventToCore must return BadMatch for proximity events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2bd5ea80652358565346071bed829070dd5de85
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jun 3 10:45:28 2009 +1000

  dix: rework event conversion before delivery.

Let EventToXI, EventToCore and EventToXI2 return BadMatch if there's no matching event for this protocol spec. Adjust the delivery paths to cope with BadMatch errors (and clean them up on the way).

As a side-effect, this fixes server crashes on proximity events for a grabbed device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 20d9f11abfd6ce3630d9640ff7383c7e27196956
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 2 13:49:09 2009 -0400
Typo fix

commit ab5d1ae82ebd467d0a5b39821b286097865ba0c7
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 2 13:39:55 2009 -0400

Remove some libXfont leftovers

commit 75795637c7160f1579db81c2d7600e85b1d141f
Author: Matthias Hopf <mhopf@suse.de>
Date: Tue Jun 2 18:41:36 2009 +0200

Revert "randr: Setting gamma: inverse logic looks more sane"

This reverts commit 79138ecec1b49cbaca6a16f2bddd8579b5828aeb28.

commit fc8cfc3a055d8af4ac809799c71f3db0d5246433
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 2 16:53:41 2009 +1000

dix: ensure EventIsDeliverable has inputMasks set at all times.

For proximity events, the XI2 type is 0 and inputMasks never got set in the preceding condition. As a result, proximity events got never delivered.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e9f851057a0ae214be02cb91f1e6634ceed20b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 2 16:38:32 2009 +1000

dix: protect against floating slaves in DeviceFocusEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b40289c8766c5e7543b7288009b4d965f57c04ce
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jun 2 16:22:58 2009 +1000

xbk: allow pointer events to pass through for floating SDs without a key class.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 38df8351b36195070232b42a6d3369a9a08df8df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jun 1 17:09:03 2009 +1000

test: add grab matching tests.
commit a66686a83edd6093ed540414dda2b8700e4696fe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 15:37:53 2009 +1000

input: add support for XIAllDevices and XIAllMasterDevices passive grabs.

These grabs are supported through two fake devices inputInfo.all_devices and inputInfo.all_master_devices. These devices are not part of the device list and are only initialised for their device id, nothing else.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f00cf7675164bb984ef310412f9e09582813adb1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 2 10:23:21 2009 +1000

dix: get the current MD keyboard for the grab modifier state.

A passive XI2 grab always uses the paired master device as a modifier device. After issuing a passive grab, the slave may be reattached to a different master and hence the modifier device may change.

commit 1cd7ed75d903b5b0ea4e1070d2c26f4f931bdec7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 17:14:06 2009 +1000

dix: float slave devices during passive grabs.

Exception - implicit passive grabs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f56ad22e8fabdca6d9f611e408a539696e30599fc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jun 2 15:07:53 2009 +1000

dix: rework temporary slave detachment.

Rework addresses two issues:
- storing the master device's pointer is a bad idea, we need to store the ID of the device in case it disappears during the grab.
- restoring the old master did not actually reattach the device. Fixed now.

commit b3e4810a283d369e1a2c6c3288177fe79fd1e9d6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 16:22:51 2009 +1000
dix: move grab device assignment into GRABTYPE_CORE block.

grab->type is the device type and XI2 types overlap with core events (being less than GenericEvent). Thus, for passive grabs the grab device would be overwritten with whatever device was activating it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 18ae48670859d05788776e164c65985e3b35a723
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 16:06:52 2009 +1000

dix: don't try to activate a passive grab on top of an active one.

If we already have an active grab on the device, don't attempt to activate another one.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ff1d6244eba8367a8d50601ca393e951e60c94b6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 12:14:52 2009 +1000

    input: add support for XIAnyModifier in passive XI2 grabs.

commit eb97d125fb6adeff0b23c2460108e0587ba253e2
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jun 1 15:50:50 2009 -0400

doc: Remove mention of Kerberos replay cache from Xserver.1

The krb5 auth code is gone, so this is no longer relevant.

commit 80ea32ad4f1440d068e18db65830f45498703b09
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 12:06:55 2009 +1000

dix: switch grab checking from unsigned shorts to unsigned ints

    XIAnyModifier is outside of the unsigned short range.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 080b0331b3d1de1bab5edc9df175b287616e358
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 13:33:29 2009 +1000

    input: Add grabtype to GrabParameters.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bee02a154145ce0e4ed97980f7857dc27a96b1be8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 10:49:22 2009 -1000

dix: ensure implicit passive grabs have the xi2mask zeroed.

This fixes XI2 enter/leave events being sent to non-xi2 clients.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cc71db4f5cf6113053951070dec9556e941aa24
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 13:19:30 2009 -1000

test: Add GetSelectedEvents request to struct size tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de5e5b1db083a9c1d23e1461b54ca6465a5c445
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jun 1 13:21:36 2009 -1000

test: fix compile error introduced with the removal of isMaster.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 45530d16097459a756696e255ab4e72d6e5f1bc4
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 29 18:07:48 2009 -0400

vfb: Fix depth setup.

Initialize the depth corresponding to the root window before the
pixmap-only depths. Otherwise you end up with the root window depth in
the depth list twice, which is mildly confusing for clients and
catastrophically confusing for PanoramiXConsolidate().

commit 5c8540d8cf9ebaafa7572cb2879d057cd3d15190
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 29 14:49:05 2009 -0700

GLX: Purge glxint.h usage

Change (__GLXvisualConfig *) to (void *) in ABI compat stubs.
(cherry picked from commit b4adec886c65e49cfd3d1e3a41b613f75ed3f5)
GLX: Purge some glxint.h usage in glxcmds.c

This is related to d0b249f1c5d81f3941d638f9625fe1e16c31807 in the 1.4 branch and was ok'd by krh
(cherry picked from commit e587435cf2e1237813c924699f0662aee304e1)

XQuartz: Fix alpha to be 1 (screenshots bug, etc)

This is related to: bc964ff1e3f3d8ab590eab40d6767c6241e9480d4
XQuartz: Stab at fixing the alpha 0/1 bug (screenshots, etc) by pulling in some old code that got gutted from rootless.

which was on the 1.4 branch and implemented in fbPaintWindow. Now that fbPaintWindow is gone, this is now in miPaintWindow().
(cherry picked from commit 032173f693f75385a40e144ffe2b7b5378bb6f2e)

Rootless: Use miPaintWindow since PaintWindowBackground is dead
(cherry picked from commit 4975c087257b52189a5c21d93d121f183e60e4c8)

XQuartz: English localization update for HIG compliance
(cherry picked from commit 86b319d7cbef39d75b54e9d321e5dbf097b552be)

Extension devices have ActivateKeyboardGrab as their grab activation function, hence we need to ensure the implicit passive grab flag is set accordingly in the grab for further event delivery.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 75c73ddbf9236bb80a3709d467674c4a1018fa3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 29 14:01:21 2009 +1000

dix: fix broken XI event delivery during grabs.

If an implicit passive grab is active, the XI event mask is in
grab->deviceMask. Otherwise, for explicit grabs, the XI event mask is in
grab->eventMask.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 29ec14625111a8ae600d245c69bf905f059074d7c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 29 13:26:22 2009 +1000

Xi: passively grabbing slave devices must be possible.

There's use-cases where this is useful, so take the check out preventing
that.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 235cf5713a8fe535c439628c9ea5b42432acb1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 29 12:09:06 2009 +1000

dix: init inputMasks to NULL to avoid random value dereference.

If the XI2 type is 0 (e.g. proximity events), inputMasks is never set and
may not be NULL.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 68d86adbe8d84099812c37a04098f2a5bccc45a4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 29 12:03:07 2009 +1000

dix: GetProximityEvents doesn't need extra events for valuators.

With internal events, we only have one event for all the data, no need to
calculate for extra events.

Reported-by: Thomas Jaeger
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 71a83d68ab07536c0778d13c7da974c40e77457
Author: Adam Jackson <ajax@redhat.com>
Date: Thu May 28 15:32:03 2009 -0400

xfree86: Remove loader symbol list ABI stubs

These have been nops since 2006 and functionally void since 7.0.

commit d7ae3f3f663f4b5d861799f8615dcd301d5ce2906
Merge: a25f248fc3 e08e6a0752
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 28 17:20:58 2009 +1000

Merge branch 'master' into xi2

Conflicts:
Xext/geext.c
Xi/chdevcur.c
Xi/extgrbdev.c
Xi/xiproperty.c
configure.ac
dix/ptrveloc.c
hw/xfree86/common/xf86Config.c
mi/mipointer.h
test/input.c
xkb/xkb.c

commit a25f248fc3bd0375d91ca8a44320200d445ecfb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 27 15:47:12 2009 +1000

Xi: Send Enter or Leave events with XIPassive(Un)grabNotify

If a passive enter or focus in grab activates, send additional enter or
focus events with mode XIPassiveGrabNotify to the grabbing client.
Likewise, if the grab deactivates, send additional leave or focus out
events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2107becb0ce2ffda001be65728c53563496d8d50
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 27 17:13:19 2009 -0400

xfree86: Remove unused (and useless) xf86[Add,Delete]ModuleInfo
randr: bug #21554 - re-probe outputs when coming back from laptop unsuspend

Make xf86 RANDR wrap the EnterVT call chain, so it can re-probe the
outputs when a laptop comes back from suspend/unsuspend (actually, any
time that we enter our VT again). The X server should then send RR*
events to clients, so they can cope with a monitor that was unplugged
while the laptop was suspended.

Signed-off-by: Federico Mena Quintero <federico@novell.com>

commit b12010e10f38951358b48ff1076e026f943b7cc3
Merge: 6e69272473 f1441b8353
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date: Wed May 27 15:56:30 2009 -0400

Merge branch 'master' of git+ssh://sandmann@git.freedesktop.org/git/xorg/xserver

commit 6e6927247359cc0db47501fb9d2dbb7856aa5985
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date: Wed May 27 15:51:19 2009 -0400

Fix alpha map computation in miComputeCompositeRegion()

According to the RENDER spec, the origin of the alpha map is
interpreted relative to the origin of the drawable of the image, not
the origin of the drawable of the alpha map.

This commit fixes that and adds an alpha-test.c test program.

The only use of alpha maps I have been able to find is in Qt and they
don't use a non-zero alpha origin.

commit f1441b83538e6ba8a1557c4f5ea50c53a1837087
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed May 27 10:06:10 2009 -0700

XQuartz: More localization updates
(cherry picked from commit b107390c9f30571902556b4d053e62d345a06254)

commit 996357e905c1082479bb238110b93bc170b8cb84
Author: Joe Krahn <jkrahn@nc.rr.com>
Date: Tue Jan 20 17:22:37 2009 +0000

Cygwin/X: Update icons directly, rather than modifying the window's class
Update icons directly to windows rather than modifying the window's class. Respect custom icons overridden via the configuration file.

fd.o bugzilla #4491

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 9955252564922e7e8702dfb6eab52c75605a4a22
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 5 17:55:58 2009 +0000

Cygwin/X: Remove unused TimeSinceLastInputEvent()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 966c8fccc16e77c8f459b4b175718323f2ec5d58
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Mon Jan 5 18:04:42 2009 +0000

Xming: Fix some log spam

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit d190a27a33ab8c198568ba8c184fad14df57e24ad
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Jan 29 11:00:49 2009 +0000

Xming: Various tidy ups in winClipboardFlushXEvents()

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit fbe9ed27b1c2f932a74aa6ced134ecee021a3fc1
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Jan 29 10:55:38 2009 +0000

Xming: Avoid log spam if a windows application won't provide CF_UNICODETEXT clipboard format

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 71ba9856a4f01aa7a42f1178e8da98a2e5ac23ae
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Tue Feb 3 15:52:11 2009 +0000

Xming: Cache atom lookups in clipboard integration code

Cache the CLIPBOARD atom lookups in winClipboardWindowProc()
Cache atom lookups in winClipboardFlushXEvents()
Recache on server regeneration

Copyright (C) Colin Harrison 2005-2008
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 4ec110327bdc4f2617cd6116539812d7ef96b24e
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jan 4 18:29:49 2009 +0000

Xming: Prevent the mouse wheel from stalling when another window is minimized.
Fix internal WM to prevent the mouse wheel from stalling when another window is minimized.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 888e6961a4ee76d05d212c8f946f089caaf63f69
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Wed Jan 7 18:29:16 2009 +0000

Cygwin/X: Correctly allow for the native window frame width in ValidateSizing()
Fix internal WM to correctly calculate the native window border when validating window sizing

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit a72865868f03b675f86990476fcee601822894b3
Author: Joe Krahn <jkrahn@nc.rr.com>
Date:   Tue Jan 20 17:09:43 2009 +0000

Cygwin/X: Consolidate dialog initialization in winInitDialog()
Changed windialogs.c to set icons via window properties rather than class properties, and use LoadImage() for small icons, because LoadIcon() can only open large icons. Since this code is redundant across the dialogs, I put it in the winCenterDialog function, along with a few other redundant instructions, and renamed in winInitDialog().

Also, don't bogusly put our dialogs at the center of the virtual desktop if we are on a multimonitor system (this causes the dialog to end up split across two monitors in a dual-monitor side-by-side setup)

Corrections to use HWND_TOPMOST instead of HWND_TOP and not to use SWP_NOZORDER from Colin Harrison
fd.o bugzilla #4491

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit d053c3b35f730fdadd22f841dbd8ed6e9a07ba0
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Nov 2 20:46:40 2008 +0000

Xming: Slightly adjust the formatting of the logged command line

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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@droncode.org.uk>

commit a7e23a79e1fc429aebdfb6c0e78b18d7e02238
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 26 14:42:25 2009 +1000

Xi: Add support for Enter and FocusIn grabs.

Enter grabs are checked for in CheckMotion(), each time the sprite window
changes the current grab is deactivated (if applicable) and the new grab is
activated (if applicable). Exception - if the grab is on a parent window of
the current window since we keep the grab across descendants.

Since CheckMotion() may change the grab status of a device, we mustn't get
"dev->deviceGrab.grab" in ProcessOtherEvents until after CheckMotion().
FocusIn grabs are checked in much the same manner.

The event delivery for grabs replaces the NotifyNormal on window change with
a NotifyGrab on window change. Note that this happens before the grab
activates, so the EnterNotify(NotifyGrab) is still delivered to the window,
not to the grabbing client. This is in line with the core protocol semantics
for NotifyGrab events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ec2fe9660dbc0c16edaca33b3b878011857e0fe2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 27 14:18:51 2009 +1000

Require inputproto 1.9.99.10

commit 0ef6ba9f3b9e68307bfe623e12dc36d44440e97f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 27 11:15:54 2009 +1000
Xi: set the passive grab's resource mask ungrabbing.

Not having the resource mask set means we never match an existing grab, hence we never actually ungrab.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1f61d6647f25add487c5cae9739643a6e33ef9f7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 27 11:15:23 2009 +1000

Xi: use GetMaster(MASTER_KEYBOARD) to get the modifier device for XI2 pgrabs

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bedfd561fa534b65baea45c4a05b1752ef172e45
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 26 15:28:33 2009 +1000

Xi: fix an inputInfo.keyboard usage.

In the case of a RevertToFollowKeyboard, the master device should be used (since this is the closest equivalent to the VCK as before). Only if the master keyboard is the same as the device, revert to the VCK itself.

commit b3463fd6a89d50a7562c357aeb5314ce0fd6493d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 26 13:58:04 2009 +1000

dix: fix wrong cast of eventMask into CreateGrab.

commit 023f959e6812e63f9d38b078158275bc13d238ae
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 26 14:56:40 2009 +1000

dix: convert window coordinates to FP1616 before calculating event_x/y

root_x/y are already in FP1616 at this point.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 10b5e981016132b4c07ad9ce68646d0a385e9c24
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 26 11:12:08 2009 +1000

dix: take grabs into account for XI_Enter/Leave events.
Xi: only deactivate passive grabs if the event type matches.

This didn't use to be a problem when devices could only be pointers or keyboards, not both. Nowadays, slave devices may have both buttons and keyboards, and in this case we don't want to deactivate a passive keyboard grab when a button release is detected.

Xi: advance by the right number of bytes when trawling XI2 event masks.

The wire layout is `[struct xXIEventMask][mask bytes]`. So the pointer needs to not only be advanced by the mask bytes, but also by the size of the struct.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 12e725d08b4cf7dbb7f09b9ec09fa1b621156ea9
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri May 22 09:54:38 2009 +0200

randr: fix server crash in RRGetScreenInfo

We don't return rates to randr < 1.1 clients, so don't allocate space
for them. This fixes a FatalError due to not all allocated space being
used.

X.Org bug#21861 <http://bugs.freedesktop.org/show_bug.cgi?id=21861>

Reported-by: Guillaume Quintin <coincoin169g@gmail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit c70511931ca1441878daed50e710fa514f6ab077
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun May 24 10:32:38 2009 +0200

fix typo in cabff9007 which led to an uninitialized memory read and a crash.

commit 99e22b86c5f1a3653f3caaf01368a777d2b208d0
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 22 12:01:55 2009 -0400

EDID: Add modes from Established Timings III descriptor to mode pool

EDID 1.4, section 3.10.3.9

commit b395da91c531d633ec47bb5a51e361d321663a3a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 22 15:24:46 2009 +1000

Xi: silence two compiler warnings

chdevcur.c:97: warning: ‘SecurityLookupIDByType’ is deprecated (declared at
../include/resource.h:269)

xiproperty.c:200: warning: passing argument 2 of ‘GetEventFilter’ from
incompatible pointer type

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4a36db60774640ea92a2133a3b08fbf1a48d2cb6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 22 15:16:43 2009 +1000

os: fix compiler warning "too few arguments to format"

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit da0d3ba71b34657cc235d6c6b37d548541f94499
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 21 14:11:27 2009 +1000

dix: protect event generation against single-valuator devices.

If we have a single-axis device and it sends events it should not access
non-existant memory.

commit b25e29e8014927815d4fde9c416bf2af0ecba6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 21 12:07:03 2009 +1000

mi: use GetMaster() from MIPOINTER and MISPRITE.

Both may in some cases be called for a SD attached to a master keyboard. In
this case, we need to get the right master device (i.e. the pointer).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e9df51b070377ca33e48644db842b6e3dfb2975
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 21 11:16:37 2009 +1000

input: allow for master pointers to not have a button class.

There's devices (e.g. some barcode readers) that have axes but no buttons.
When such a device sends a motion event, the valuator and button class is
copied into the master pointer (i.e. removing the button class).
So we need a couple of extra sanity checks for the button class to exist.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ebe45e1a72a81ad22413e5d0514869b3e45a69b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 10:55:03 2009 +1000

input: introduce partial class copying depending on the event.

Copying all classes into the master device has drawbacks for hybrid devices
(devices that are both mice and keyboards). If such a device posts an event,
it's key classes are moved into the VCP. The key event itself is unaffected
by keyboard grabs and the like.
Partial class copying copies depending on the event and copies the classes into the right master device (i.e. the VCK for key events, the VCP for pointer events).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc63c8a4570c989f19a036965854bceeb9800ce19
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 12:33:49 2009 +1000

dix: introduce GetMaster()

For hybrid devices (keys + buttons/axes) the attached master device is generally the wrong one. One shouldn't post a button event through a keyboard and vice versa.

GetMaster(dev) returns the right master device for the given type needed. This may be the MD paired with this device's MD.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d79318f269d959d566ec66239b4c985afdf61b259
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu May 21 08:29:14 2009 +1000

dix: Add a deviceid to the DeviceChangedEvent.

ChangeDeviceId would actually overwrite the flags field if deviceid wasn't present. Aside from the event of course not telling which device generated it in the first place.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit eefb83f8a2d87070beafdf0c692fb0ad54d8335b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 18 20:03:07 2009 +1000

ABI_XINPUT_VERSION 6

commit 438a4ea6a5d14ab676827f7a5d58782e02db4cdf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 17:02:50 2009 +1000

input: remove nested union from InternalEvent.

There's no need for internal events to be a struct with a single nested union, we might as well make the union itself the InternalEvent.
isMaster is not enough as long as we differ between master pointers and keyboard. With flexible device classes, the usual checks for whether a master device is a pointer (currently check for ->button, ->valuators or ->key) do not work as an SD may post an event through a master and mess this check up.

Example, a device with valuators but no buttons would remove the button class from the VCP and thus result in the
IsPointerDevice(inputInfo.pointer) == FALSE.

This will become worse in the future when new device classes are introduced that aren't provided in the current system (e.g. a switch class).

This patch replaces isMaster with "type", one of SLAVE, MASTER_POINTER and MASTER_KEYBOARD. All checks for dev->isMaster are replaced with an IsMaster(dev).

Split the signal-handler's lastSlave out into a separate variable.

dev->u.lastSlave was not signal safe since it was accessed by the DIX and during signal handling.
Replaced with:
'dev->last.slave' for the signal handler's lastSlave (used to generate DeviceChangedEvents),
'dev->u.lastSlave' for the DIX lastSlave (currently only used in change_modmap)
In ProcXkbGetKbdByName, mrep.firstVModMapKey, .nVModMapKeys and .totalVModMapKeys were not initialized, contained random values and caused accesses to unallocated and later modified memory, causing XkbSizeVirtualModMap and XkbWriteVirtualModMap to see different number of nonzero values, resulting in writes past the end of an array in XkbSendMap.

This patch initializes those values sensibly and reverts commits 5c0a2088 and 6dd4fc46, which have been plain non-sense.

Signed-off-by: Tomas Janousek <tomi@nomi.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7db55a0806c82bd4143c8bf1b8eb2b62e456ad9a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 14:38:25 2009 +1000

dix: remove superfluous loop in change_modmap.

A device can only be attached to a single master device. So instead of looping and searching for the master device, we can just use dev->u.master directly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c4bff9007a4abad026b450a4aab155c7bcd94326
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 15 08:33:07 2009 +1000

xfree86: treat other drivers as mouse drivers in the config.

Historically, if no input device was referenced in the ServerLayout, the server would pick the first "mouse" device found in the xorg.conf. This patch gives evdev, synaptics, vmmouse and void the same status. If there is a section in the config file using this driver - use it as the core pointer.

Device selection is in driver-order, not in config-order. If a "mouse" device is listed after a "synaptics" device, the "mouse" device gets preference. This replicates the original behaviour.

This code only takes effect if AllowEmptyInput is off and there is no core pointer in the server layout.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a8bd1e1f96d8e5380972a7dce8d9940cd912aa09
Author: Søren Sandmann Pedersen <ssp@13000.localdomain>
Date:   Thu May 21 18:21:28 2009 -0400
Fix alpha map computation in miComputeCompositeRegion()

According to the RENDER spec, the origin of the alpha map is interpreted relative to the origin of the drawable of the image, not the origin of drawable of the alpha map.

The only use of alpha maps I have been able to find is in Qt and they don't use a non-zero alpha origin.

commit a2c5ee36b21c2ee5c0468f1b251e74c1412dbecb
Author: Adam Jackson <ajax@redhat.com>
Date: Thu May 21 10:20:48 2009 -0400

EDID: Be more cautious about finding vendor blocks.

Many old monitors zero-fill the detailed descriptors, so check for that to avoid a useless warning like:

(WW) RADEON(0): Unknown vendor-specific block 0

commit 73c7398aafa050950ad614483fb0d5b2d2da97ca
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 20 10:40:50 2009 +1000

dix: 'namespace' HAS_OLD_SLAVE and HAS_NEW_SLAVE.

We need more flags for this in the near future, so let's namespace them now.

commit 5b5e3fa2771383a85afff679be34df19d3a4e290
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 15 08:33:07 2009 +1000

xfree86: treat other drivers as mouse drivers in the config.

Historically, if no input device was referenced in the ServerLayout, the server would pick the first "mouse" device found in the xorg.conf. This patch gives evdev, synaptics, vmmouse and void the same status. If there is a section in the config file using this driver - use it as the core pointer.

Device selection is in driver-order, not in config-order. If a "mouse" device is listed after a "synaptics" device, the "mouse" device gets preference. This replicates the original behaviour.

This code only takes effect if AllowEmptyInput is off and there is no core pointer in the server layout.
input: rename device->type to device->xinput_type.

This type is only used in XI to give a hint of what type this device may be.

Call it xinput_type for clarity.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 81b3b0c0ce088866dc3cda099d7c8d6655849fd43
Author: Tomas Janousek <tomi@nomi.cz>
Date:   Wed May 20 15:03:01 2009 +0200

Bug #6428, #16458, #21464: Fix crash due to uninitialized VModMap fields.

In ProcXkbGetKbdByName, mrep.firstVModMapKey, .nVModMapKeys and .totalVModMapKeys were not initialized, contained random values and caused accesses to unallocated and later modified memory, causing XkbSizeVirtualModMap and XkbWriteVirtualModMap to see different number of nonzero values, resulting in writes past the end of an array in XkbSendMap.

This patch initializes those values sensibly and reverts commits 5c0a2088 and 6dd4fc46, which have been plain non-sense.

Signed-off-by: Tomas Janousek <tomi@nomi.cz>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 79138eec1b49cbaca6a16f2bddd8579b5828aeb28
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Mar 10 16:03:26 2009 +0100

randr: Setting gamma: inverse logic looks more sane

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c2785ae7eb6197bbfc75e92e99fffb8ad8064da
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 14:29:13 2009 +1000

dix: refuse events from disabled devices.

If the device is disabled ("off"), it must not send events to a client.
The driver shouldn't send events in that case anyway, but just to make sure we simply drop events coming while the device is disabled.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: remove DeviceIsPointerType

This approach is broken anyway. DIPT only checked for the XInput type "MOUSE" and the only user of this is x86ActivateDevice when it sets the Activate/DeactivateGrab functions. Since synaptics and wacom set their own types, evdev only sets MOUSE for, well, mice half the devices didn't have this set correctly anyway.

Instead, ActivatePointerGrab should be merged together with ActivateKeyboardGrab.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7b891e450f005688e41e610166d3e394c67f6be
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 14:23:16 2009 +1000

dix: Remove obsolete comment

CorePointerProc doesn't back up the device classes anymore.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 42719ce5c715ac3a0c74c3c7df872d35e0449de9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 20 14:38:25 2009 +1000

dix: remove superfluous loop in change_modmap.

A device can only be attached to a single master device. So instead of looping and searching for the master device, we can just use dev->u.master directly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 22a33a7250f879b8f3eb84176a1dc57027d8cfe4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue May 19 22:45:26 2009 -0400

glx: Register names for the GLX resource types.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 77e90261d5f91e1170c6e02deb0e3739c24cf6d6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue May 19 19:36:03 2009 -0400

dix/events.c: Use wClient where appropriate.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 3cea176d5abcb0f14eeffbcbe17f0847524dd4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue May 19 19:30:33 2009 -0400

xace: Fix a bad device access hook call.

Add a proper access mode, and reverse the logic of the return value.
Zero ("Success") is returned on success from the hook calls.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 4addfcd633484b7f53b5df1b92bfa8bf1dc48d
Author: Michel Dänzer <daenzer@vmware.com>
Date: Mon May 18 17:53:35 2009 +0200

EXA: Allocate from the end of free offscreen memory rather than from the start.

This way we don't always need to scan over previously allocated areas when
looking for an available one, and there might be less fragmentation.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 510cbd43cd4e34bd459e8f74ab2855714b4ca95d
Author: Michel Dänzer <daenzer@vmware.com>
Date: Mon May 18 17:48:57 2009 +0200

EXA: Defragment offscreen memory.

At most once per second, under the following circumstances:

* We can't satisfy an offscreen memory allocation, but there seems to be enough
  offscreen memory available in total.

or

* The server has been idle for at least 100ms, and there is more than one
  available offscreen area.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 8331bde0adeccfb275c4d707e7b2cb1d95b1581
Author: Jon TURNERY <jon.turney@droncode.org.uk>
Date: Fri May 15 21:36:28 2009 +0100

Cygwin/X: link with libmain.a to provide main()

Commit 987579c930bda803427a28cb82773c389f5110d6 moves main.c into
into libmain.a to be linked with separately, and updates the various
DDXs to link with libmain.a, except Xwin, which also needs this change.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b89dfcfbd38f8d19fd4f24f81820b1048572c8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon May 18 16:07:08 2009 +1000

Xi: fix length field in XIQueryPointer.

Buttons append 4-byte units to the end of the reply, they need to be
included too.

Reported-by: Mark Dokter
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 33fcaaaa5ea30be39156ecfdcbca891b47ab465
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon May 18 16:05:35 2009 +1000

Fix missing parentheses in FP1616 macro.

Missing parens led to interesting results if an expression instead of a
constant was passed in (ProcXIQueryPointer for example).

commit 6258bb1d6bb78ea4ba1d33470bc74e9b711b25f2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 15 20:24:45 2009 +1000

require inputproto 1.9.99.9

commit e7e94ff5fd3205a9ee01fe9342d9f3a426b0a068
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 14 21:45:35 2009 +1000

Xi: set the right length for the XIQueryPointer reply.

commit 00ab04d73c612ac85e024105015bd7c79e8874b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 14 16:24:35 2009 +1000

Include full modifier + button state in XIQueryPointer.
Xi: take the paired device as modifier device only for MD pointers.

Xi: check cursor and grab_window before attempting the passive grab.

Both values need to fail the request, so we need to check them before looping through the modifier masks. Otherwise, a wrong grab_window will show up in each failed modifier return but not actually cause an error.

This fixes events that activated a grab not getting delivered to the client.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: set the correct length for XIPassiveGrab replies.

Update to new XI2 names

This function was deprecated in ef68273f5bdb27a492ec0b69548ec4fbede46c08 because it didn't take a device argument. The device argument was added in 1c7568b8a1417257fa67c7fca69aa253099b9461 though, so the deprecation is
obsolete.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 273890924b8ed6f8b7949c0322c8258b9e6f8630
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 12 16:09:35 2009 +1000

input: reduce the number of superfluous hierarchy events

There's only two reasons for hierarchy events:
- device is added, removed, etc. In this case we want to send the event as it happens.
- devices are added in a XIChangeDeviceHierarchy request. In this case we only want one event cumulating all changes.

commit 033a2b12fd02fa9a2c2f20a352bec0a43074512
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 12 14:50:57 2009 +1000

Xi: set per-device hierarchy changed flags.

Rather than have one field per hierarchy change, XI2 has two fields - one generic one and one per-device that include the device-specific flags. This requires some funky handling for removed devices, but oh well.

commit 8fb51f5ae222ff4f4aa1c440b6973ce7383bbe09
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 15:45:46 2009 +1000

xkb: if kbd init failed, NULL out the pointers after freeing them (#21278)

Reproducible:
Configure a server that uses the keyboard driver with an invalid ruleset, e.g. (Option "XkbRules" "foobar"). Ensure that Option "AllowEmptyInput" is "off" in the ServerFlags or ServerLayout section. Start the server.
After failing to init the keymap, the server will try to clean up after the device, double-freeing some xkb structs that have not been reset properly.

X.Org Bug 21278 <http://bugs.freedesktop.org/show_bug.cgi?id=21278>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0cea199eda772a5ddd5ce72e4823a00ec14405d4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 12:53:56 2009 +1000

kdrive: set Activate/Deactivate grab for input devices (#21591)
commit fdce58ca822f4e43e03e84076190f52d7104e01f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 12:51:40 2009 +1000
dix: ensure Activate/DeactivateGrab has a valid value.

Xephyr doesn't manually set Activate/DeactivateGrab for new devices, resulting in a NULL-pointer dereference later when a grab is activated. Avoid the segfault by ensuring that the pointer is always valid.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e3f296d91dfe6b827195e1d387e1a04aa73b85c3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat May 9 10:33:20 2009 +1000
xfree86: Remove superfluous ifdef DEBUG checks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 2f6253376df45e508284f7766b186cfc7fb56d6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat May 9 10:33:20 2009 +1000
xfree86: Remove superfluous ifdef DEBUG checks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b1b5ec45c1cb650cc8c659218f9481379c777d9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 12:53:56 2009 +1000
kdrive: set Activate/Deactivate grab for input devices (#21591)

X.Org Bug 21591 <http://bugs.freedesktop.org/show_bug.cgi?id=21591>

commit 6f9e22049862ee9ac7f604411d005d8bb1b2dd1c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 12:51:40 2009 +1000
dix: ensure Activate/DeactivateGrab has a valid value.

Xephyr doesn't manually set Activate/DeactivateGrab for new devices, resulting in a NULL-pointer dereference later when a grab is activated. Avoid the segfault by ensuring that the pointer is always valid.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c1d7deca9281ba1df0df1abcea1fe7f841b10ff9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue May 12 21:24:07 2009 +1000

mi: un-deprecate miPointerWarpCursor

This function was deprecated in ef68273f5bdb27a492ec0b69548ec4fbede46c08 because it didn't take a device argument. The device argument was added in 1c7568b8a1417257fa67c7fca69aa253099b9461 though, so the deprecation is obsolete.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8609a4e883e917d1652fbbe810108de99bc89713f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri May 15 11:22:32 2009 -0700

Correct some Sun license notices to Sun's standard X11 license format

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 94c5093c8bc803d0b14429b5a4d07ae46da865cc
Author: David Marx <David.Marx@Sun.COM>
Date: Wed May 13 17:53:30 2009 -0700

Solaris: Make sure non-inline versions of asm routines end with ret statements

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 2be5eeeb4b0f30b9c55d12521415edbb88c1f8fd
Author: Julien Cristau <jcristau@debian.org>
Date: Fri May 15 17:29:32 2009 +0200

xfree86: add edid quirk for Samsung Syncmaster 2333HD

It reports vertical size in cm in the detailed mode.
X.Org bug#21750 <http://bugs.freedesktop.org/show_bug.cgi?id=21750>

Reported-by: Peter Poklop <Peter.Poklop@gmx.at>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 7c8327f0a75087a85864256a9ce80dd4b86def5
Author: Michel Dänzer <daenzer@vmware.com>
Date: Fri May 15 15:48:37 2009 +0200
EXA: Always damage glyph cache pixmap manually after uploading a glyph.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 850675d4de4373e5df95507dbf2cd9affaaf54bc
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri May 15 15:48:37 2009 +0200

EXA: Take GC client clip type into account for migration.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=18950.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit c1bbac2708bbccbec01ecb39cfd2b8160c1dc3
Author: Matt Turner <mattst88@gmail.com>
Date:   Thu May 14 16:00:41 2009 -0400

Fix mem_barrier() on Alpha

Some clean up (da086901c6579e41b28b1418fa12eb882744fc87) went a bit too far and removed the needed mem_barrier macro on Alpha.

This re-adds it.

commit 4cc33190ef1a4207c0f8fc74201cdf2568a239c2
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu May 14 17:01:57 2009 +0200

xfree86: Add two __FreeBSD_kernel__ checks

Debian bug#525475 <http://bugs.debian.org/525475>

Reported-by: Petr Salinger <Petr.Salinger@seznam.cz>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit ed9aecf8517bf74e943e3e5dd3ee407524e8f122
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 14 06:55:21 2009 -0400

COPYING: SGI FreeB 1.1 -> SGI FreeB 2.0

commit c66cf7b64e7bcb31c81b9fde27c2c40c1440753b1
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 14 06:53:08 2009 -0400

Update several of my and/or Red Hat's licenses to standard form.
commit 2075d4b9e53b8baef0b919da6c44771220cd4a5
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu May 14 11:46:41 2009 +0200

glx: If a destroyed window is bound to the current context, make it not current.

Avoids subsequent crashes due to stale pointers to the DrawableRec, see
https://bugs.freedesktop.org/show_bug.cgi?id=21132#c15 and previous comments.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 2c1190f888515292de01e60fe74657c34b99fd9e
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu May 14 11:39:16 2009 +0200

randr12: Initialize and keep track of updates to VidMode extension gamma value.

This way clients querying the gamma value via the VidMode extension at least
get the last value set via the same, rather than always something bogus.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit fc3ce861cdab8606610726ce7c53f57d950c2407
Author: Michel Dänzer <daenzer@vmware.com>
Date: Thu May 14 11:35:25 2009 +0200

randr12: Fix calculation of gamma ramp values.

The reciprocal gamma value was missed in the first copy and this mistake was
propagated to the second one.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit f3c61377d0fb1f09a18833995556c9ffd11e097
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue May 12 18:27:09 2009 -0700

COPYING file updates for git master changes since 1.6 branch

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit b746a00cffe5c553b607a8e9c1074294a23b443
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue May 12 16:11:01 2009 -0700

Resync COPYING file with notices in code base as of xorg-server-1.6.1

Remove notices for code no longer in tree (Xprint, Xgl, kdrive, cfb, etc.)
Add/update notices for new/changed code in tree

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit f250eea2e90fc50bec5214c2f41132b95edc2c46
Author: Jerome Glisse <glisse@freedesktop.org>
Date:   Mon May 11 22:52:46 2009 +0200

DRI2: update DRI2 private drawable width & height according to X drawable

commit 0952d12717031e9dda9e48123bb922d0f4e81834
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon May 11 15:27:46 2009 -0400

xselinux: Relax ownership restriction on SetSelectionUseContext.

Instead, clients should keep track of the selection instances they use.

commit ac13145dbcb284293582435409d8a90f276785c5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 11 15:45:46 2009 +1000

xkb: if kbd init failed, NULL out the pointers after freeing them (#21278)

Reproducible:
Configure a server that uses the keyboard driver with an invalid ruleset, 
e.g. (Option "XkbRules" "foobar"). Ensure that Option "AllowEmptyInput" is 
"off" in the ServerFlags or ServerLayout section. Start the server.
After failing to init the keymap, the server will try to clean up after the 
device, double-freeing some xkb structs that have not been reset properly.

X.Org Bug 21278 <http://bugs.freedesktop.org/show_bug.cgi?id=21278>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ebf06686d1927288155221e7a78f8c99f293952
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Sun May 10 23:27:56 2009 -0400

Make compositing with transformed windows work again.

The coordinate translation was broken in pretty much every way 
imaginable.

commit c2b668e6fff11c52f2a3f0dc3f4d1fc2c5bcf3e6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 5 20:27:53 2009 -0700
XQuartz: pbproxy standalone: added missing variable declarations.
(cherry picked from commit 2d947d17a3ef5fb8cef959bff0eb08b8bb5b6548)

commit 9c5b761c8c86cca56f4b4af272f42ba89e9c3ba5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat May 9 16:19:13 2009 +1000

Revert "xkb: write the _XKB_RF_RULES_PROP to each device."

This commit shouldn't have been pushed, we're still sorting out the API we
want to use.

This reverts commit 876910a951053f0bd31e30098de3da15a1c1f5d6.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1e816065e5ec3b9394dc1fa5815457a664e15fd9
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri May 8 21:31:01 2009 -0700

Don't printf NULL pointers on HAL connection error

Fixes Solaris bug 6801386 Xorg core dumps on startup if hald not running

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit b680bda34da130ce408783f04214771471e41e8d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Apr 30 18:49:06 2009 -0700

Fix a couple off-by-one array boundary checks.

Error: Write outside array bounds at Xext/geext.c:406
    in function 'GEWindowSetMask' [Symbolic analysis]
    In array dereference of cli->nextSib[extension] with index 'extension'
    Array size is 128 elements (of 4 bytes each), index <= 128

Error: Buffer overflow at dix/events.c:592
    in function 'SetMaskForEvent' [Symbolic analysis]
    In array dereference of filters[deviceid] with index 'deviceid'
    Array size is 20 elements (of 512 bytes each), index >= 0 and index <= 20

Error: Read buffer overflow at hw/xfree86/loader/loader.c:226
    in function 'LoaderOpen' [Symbolic analysis]
    In array dereference of refCount[new_handle] with index 'new_handle'
    Array size is 256 elements (of 4 bytes each), index >= 1 and index <= 256
These bugs were found using the Parfait source code analysis tool. For more information see http://research.sun.com/projects/parfait

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00bc043fa0398a1d14d46b87da2f3031a9535dc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 8 10:10:25 2009 +1000

dix: export subpixel precision in XI2 events for root/event coordinates.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bae070914fc27db122e6131ae4838559c4a72f65
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 7 16:52:31 2009 +1000

input: update to inputproto 1.9.99.8 XI2 defines.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83f32d3972b8bfb0a87069db3fcd64b6b7c6424
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 7 10:05:29 2009 +1000

Xi: Add XI2 property requests.

commit 9935bec6e860cba9a3cc5baadd372dddb89d72ef0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu May 7 09:43:56 2009 +1000

Xi: split some code out of the XI 1.5 property request processing.

This is in preparation for the XI2 property requests that can re-use much of this code.

commit f6f1e417063d2d61d65731a7e3ebca3ec2bdaacc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed May 6 22:25:28 2009 +1000

Xi: fix copy/paste error causing sizeof against wrong struct.

This wrong check may cause BadLength to be returned to the client even if the length is correct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: don't double-swap the XListDeviceProperties reply.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: add missing break in XI event swapping function

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: fix a couple of wrong dixLookupDevice permission tags.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: fix xf86PostMotionEventP type checking

We only put internal events into the queue now, so let's check for ET_Motion rather than the MotionNotify.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: remove superfluous includes from ptrveloc.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xfree86: fix xf86PostMotionEventP type checking

We only put internal events into the queue now, so let's check for ET_Motion rather than the MotionNotify.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
dix: fix warning in pointer acceleration

newer gcc's warn against how this cast is done (though it eludes me why),
and lrintf() is also faster especially on insane processors like the P4

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5cf70183812541b33a6e83c7e1e3bc6198730cbe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 5 21:00:31 2009 +1000

xkb: remove _XkbAlloc, _XkbCalloc, _XkbRealloc and _XkbFree

We all agree that wrapping is fun, but seriously. One of these days someone
will get hurt.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e31d3906deaee5d9ada66e538b9e93574a4d610
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 5 21:07:07 2009 +1000

xkb: remove some now-useless XFUNCPROTOBEGIN

We bring them back if we start rewriting the server in C++, promise.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8b583ca2b21155359c6255f406e96599b277c762
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 6 22:25:28 2009 +1000

Xi: fix copy/paste error causing sizeof against wrong struct.

This wrong check may cause BadLength to be returned to the client even if the
length is correct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7ab5e9b97c300bba793a23fa13506b0c77c50ddf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed May 6 12:07:07 2009 +1000

xfree86: fix xf86PostMotionEventP type checking

We only put internal events into the queue now, so let's check for ET_Motion
rather than the MotionNotify.
Xi: don't double-swap the XListDeviceProperties reply.

dix: add 'none' pointer acceleration profile with number -1

This is a shorthand for disabling acceleration, while retaining the possibility to use constant deceleration. If constant deceleration is also unused, it will optimize motion processing.

Other possibilities to deactivate acceleration were quite hidden, and didn't always work as expected. E.g. xset m 1 1 would retain adaptive deceleration, while xset m 1 0 would not (in the default profile).

Also removes the 'reserved' profile; it was unused and it's trivial to add new ones anyway.

dix: remove superfluous includes from ptrveloc.c

dix: fix warning in pointer acceleration

newer gcc's warn against how this cast is done (though it eludes me why), and lrintf() is also faster especially on insane processors like the P4 (http://www.mega-nerd.com/FPcast).
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d220d6907d1d5138d1528c48b739e77f65616225
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 4 17:38:02 2009 +1000

Xi: add GrabButton and GrabKeysym code.

We don't do keycode grabs in XI2, they're pointless.

commit 1b593ced171d02f1d00034f0f733060706bb6d41
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 5 16:57:46 2009 +1000

Xi: access the prev_state to get group/modifier state for key events.

Key events may change the modifier state, so we need to get the prev_state for those (i.e. without the changes by the event already applied).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 35a4b8e7f4526a92d44cb16a783f21030cd1f6df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 5 16:51:59 2009 +1000

xkb: remove oldState from XkbHandleActions.

I really don't know what the purpose of this variable is or was, aside from potentially clobbering up our key state since there's a path where it may be used uninitialised.

Also, this means that xkbi->prev_state is now accessible from the DIX with meaningful data.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d523fbe428e4513d85402caa83e9349256b680cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 4 17:00:57 2009 +1000

test: add test for xi2 struct sizes.

commit 1b1b20d6e3e696e4437a9ef56128cde70a485f66
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue May 5 13:47:55 2009 +1000

Change glib require for tests to auto.
mi: don't crash if we're trying to update the pointer for a keyboard.

If a device doesn't have a pointer, just return.

include: up the number of max. input devices to 40.

With the XTest virtual slave devices we have 4 devices for each MD pointer/keyboard pair, plus the AllDevices and AllMasterDevices reserved deviceids. It's quite easy to hit the current limit.

Xext: shut up compiler warnings in xtest.c

Xext: return BadDevice from XTest if we don't have keys/buttons/valuators.

BadDevice is an XI error, but this cannot happen for core XTest fake input anyway since the device will be the matching virtual XTest slave device.
Xext: fix core Xtest button presses, don't call PickPointer.

We already did the device selection before, so dev should be the XTest virtual pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 94648bb797d94b025746c60679c584e5be2fae28
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Mon May 4 15:38:22 2009 -0700

Don't prepare outputs & ctcus if set_mode_major is present

A driver with this hook will take care of preparing the outputs & ctcus, so calling the prepare functions will just cause unnecessary flicker.

Fixes bug #21077

commit 7d85169c7ab1d05c21fddb2877fffd79f344db6b
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon May 4 10:14:43 2009 +0200

Fix typo in ProcRenderCreateAnimCursor.

commit 59358de4b68a01452b6f68593beb83605087ebc8f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 4 17:30:19 2009 +1000

input: ensure various ProcUngrabKey/Buttons have the right grabtype set.

commit 834ea071b619506e0bef5bdf0e3c59831cf6e99
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon May 4 15:58:15 2009 +1000

dix: if grab types differ, two grabs cannot be the same.

commit 63a3c727b35d1ff8a850a5177bd6623cd78b179
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 1 15:24:02 2009 +1000

Xext: shut up compiler warnings in xtest.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 226dd90597ef29998ac5db15c5457aad3fe9729e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri May 1 15:22:37 2009 +1000
Xext: return BadDevice from XTest if we don't have keys/buttons/valuators.

BadDevice is an XI error, but this cannot happen for core XTest fake input anyway since the device will be the matching virtual XTest slave device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0fdff0a47a57a0096974ee83e07fefbad03075dd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 1 15:15:04 2009 +1000

Xext: fix core Xtest button presses, don't call PickPointer.

We already did the device selection before, so dev should be the XTest virtual pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f0124ed93cdcee8d22a6690e639a3f60b9a63c54
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 1 14:35:12 2009 +1000

include: up the number of max. input devices to 40.

With the Xtest virtual slave devices we have 4 devices for each MD pointer/keyboard pair, plus the AllDevices and AllMasterDevices reserved deviceids. It's quite easy to hit the current limit.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08cd846000286eb5e07cc8d8cb313af2d6e7faf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri May 1 11:06:06 2009 +1000

dix: only free the old cursor if the grab was successful.

Testcase: start thunderbird and move a message around, crashes after two or three moves.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 557dbadfd3be273255e8fadb12d9321f4e88bf2b65
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Sat May 2 00:26:18 2009 -0700

XkbSetNamedIndicator should ignore SD's without LED's

When ProcXkbSetNamedIndicator is called on a core device, and we
walk the slaves to set the LED's on each of them, ignore any slaves that do not have either a KbdFeedbackCtrl or LedCtrl structure.

(This is much more critical in xserver-1.5-branch, where we walk *all* devices, not just the slaves of the specified master, and thus return failure when setting an LED on the Core Keyboard and hit a xf86-input-mouse device with no LED's to set.)

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0d9d3f3e361f769822caedccf4c2a58cc9930ecc
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:  Mon Apr 27 15:11:10 2009 -0700

DRI2: Force allocation of real-front buffer for non-windows as well

For redirected rendering we end up with pixmaps (which the app thinks are windows) that are double buffered.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Tested-by: Pierre Willenbrock <pierre@pirsoft.de>

commit 3d30789a05a730a03faa6058c73a5eda36ef3779
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Thu Apr 30 14:58:00 2009 +1000

mi: don't crash if we're trying to update the pointer for a keyboard.

If a device doesn't have a pointer, just return.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 876910a951053f0bd31e30098de3da15a1c1f5d6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Thu Apr 30 14:46:45 2009 +1000

xkb: write the _XKB_RF_RULES_PROP to each device.

We only have one root window and writing the rules used to the same property for each device is quite pointless if you don't have the same RMLVO on all devices. So let's be sensible and write the same property to the device too, so at least we know which device got loaded with which RMLVO.

commit 44044adc92e6bb6537f48c84727523d5cb23528c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Thu Apr 30 11:39:50 2009 +1000
xfree86: print a message if NIDR fails due to AutoAddDevices off.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 43dbbc30327f826068bc7cd2cda870ed61b4522
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 28 21:01:36 2009 +1000

Xi: fix typo in ProcXIGrabDevice

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6a618929a0e06ba0d6dac13d7e644cd9658d98ed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 28 16:49:45 2009 +1000

input: reshuffle CreateGrab and friends to take a GrabParameters param.

This is cleaning up work in preparation for XI2 passive grabs.

commit e8e26f700c9c70d3f1bb53bdb71d1100f5c43a69
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 26 21:43:25 2009 +1000

Xi: split some grab parameter checking out of GrabButton and GrabKey.

commit 57aff88c7d0761e590806d07bee1c9410680c89f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Apr 29 01:04:37 2009 -0400

Fix most remaining deprecated resource lookups.

Callsites updated to use dixLookupResourceBy{Type,Class}.
TODO: Audit access modes to make sure they reflect the usage.

commit 1abe0ee3da5e1268c7315f841d31337ea6524cf0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Apr 28 23:51:40 2009 -0400

kdrive: fix Xvfb build with separate libmain.

commit 737b49199a05299486064e6e762cf2a2f6f95be6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 15:40:24 2009 +1000

xfree86: restore default off for DoniZap

Zapping is triggered by xkb these days, so note in the man page that it's the
Terminate_Server action. Since it's XKB, personal preferences towards or against zapping should be achieved through xkb rulesets.

If Terminate_Server is not in the xkb actions, then we can't zap anyway and we don't need a default of DontZap "on".

This patch restores the old meaning of DontZap - disallow zapping altogether, regardless of XKB's current keymap.

Ideally, this patch should be accompanied by b0f64bdab00db652e in xkeyboard-config.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 98a1fa994158fe988590a10296a7675465c0e56
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 21 22:18:23 2009 +1000

test: add InternalEvent to core event conversion tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 990e8362a76fadc173e890d9052a2e5274b6eac5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 16 11:41:58 2009 +1000

test: add a simple test to verify device axis intialization.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4eac0df060b897470f01cf3b70f500da757c74
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 15 17:21:08 2009 +1000

Add a test-suite for in-server unit-testing.

This patch adds a test/ directory that contains the setup for a unit-testing suite designed for in-server unit-testing. All functions available to the X server are available to the test binaries through static linking.

This test suite uses the glib testing framework.
Do not use glib calls outside of the test/ directory.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c2c515ead38d9a6c9eae0b83aa7a82208f177b7e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 22 13:26:40 2009 +1000

dix: remove all but main() from main.c
All other functions are pushed into where they seemed to fit.
main.c is now linked separately into libmain.a and linked in by the various
DDXs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dc2767d1c5db60385867c76ba2de507fe0eb8a90
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Apr 21 22:21:18:23 2009 +1000
test: add InternalEvent to core event conversion tests.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1127ca097cb75450bcecf55f5d82e435de2fb5b7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 16 11:41:58 2009 +1000
test: add a simple test to verify device axis initialization.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4124c465a85713fe44843a16c5e2b13ece17e9d2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 15 17:21:08 2009 +1000
Add a test-suite for in-server unit-testing.

This patch adds a test/ directory that contains the setup for a unit-testing
suite designed for in-server unit-testing. All functions available to the X
server are available to the test binaries through static linking.

This test suite uses the glib testing framework.
Do not use glib calls outside of the test/ directory.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 987579c930bda803427a28cb82773c389f5110d6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 22 13:26:40 2009 +1000
dix: remove all but main() from main.c

All other functions are pushed into where they seemed to fit.
main.c is now linked separately into libmain.a and linked in by the various
DDXs.
Solaris: use <sys/agpgart.h> instead of stale copy in Xorg sources

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

Commit 707af5f8c5fae3b6c4c5125a91917667bb0ab908
Author: Simon Farnsworth <simon.farnsworth@onelan.co.uk>
Date: Thu Apr 23 16:15:01 2009 +0100

Make the cursor completely optional

For embedded use, it's convenient to be able to disable the cursor completely, without having to audit and fix up all your third-party code (e.g. Mozilla Firefox).

Add -nocursor and -cursor server options to enable and disable the cursor. The default is still -cursor, but embedded users can run the server with -nocursor to hide the cursor regardless of what application developers do.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Commit 40a8f2f4088aa353de733a11327b628ef13a52e6
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date: Sun Apr 19 21:15:22 2009 +0200

Fix obvious copypasta

Reviewed-by: Ian Romanick <idr@freedesktop.org>

Commit a8cf63fd18b0ddadbadf7b47d620159854920050
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Apr 23 14:57:04 2009 -0700

Export CompositeRegisterAlternateVisuals.

Drivers need this if they add visuals that require implicit redirection. Add a new SDK header, compositeext.h, to contain the prototype for this function.

Commit 48573e7ea13e279593249036e6d30f1d7507882f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Apr 26 21:32:37 2009 +1000
Xi: swap stuff->cursor in SProcXIGrabDevice

commit ff6c7764c2909e4126403b7211faa6c58556b341
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Fri Apr 24 12:49:19 2009 -0700

DRI2: Implement protocol for DRI2GetBuffersWithFormat

This change implements the protocol for DRI2GetBuffersWithFormat, but
the bulk of the differences are the changes to the extension / driver
interface to make this function work. The old CreateBuffers and
DeleteBuffers routines are replaced with CreateBuffer and DeleteBuffer
(both singular).

This allows drivers to allocate buffers for a drawable one at a time.
As a result, 3D drivers can now allocate the (fake) front-buffer for a
window only when it is needed. Since 3D drivers only ask for the
front-buffer on demand, the real front-buffer is always created. This
allows CopyRegion implementations of SwapBuffers to continue working.
As with previous version of this code, if the client asks for the
front-buffer for a window, we instead give it the fake front-buffer.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>
Reviewed-by: Kristian Høgsberg <krh@redhat.com>

commit 28ddfc88d8d547941c7f4713db527a3c2f9ec35a
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Fri Apr 24 12:09:21 2009 -0700

DRI2: Add interface for drivers to query DRI2 extension version

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit a1c9817fa9a00cd5075e2054c5d2be4d1e740f0
Author: Joel Bosveld <Joel.Bosveld@gmail.com>
Date: Fri Apr 24 10:12:26 2009 -0700

Correct fcntl(F_SETOWN) error check in non-Solaris sigio code

commit 64b7f96dca accidentally inverted the comparison, could
result in crashes on some systems later on.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 64b7f96dca23d2b33e0b8a8785d628d9a2f50e7b
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Apr 24 00:14:12 2009 -0700

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35567
Add SIGIO/SIGPOLL support for Solaris

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 0c467b1f990f156a34d5ef117bd825df6b633114
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Apr 24 00:05:28 2009 -0700

Add casts to generated entries in sdksyms.c to silence type mismatch warnings

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 7d0f7518c2235a9dc783029971259ddaada2db20
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Apr 23 08:42:38 2009 -0700

Fix byte swapping of XF86VidMode{Get,Set}GammaRamp

Fixes OpenSolaris Bug 8315:
Xorg segfaults when screensaver fades in cross-endian xdmcp session
<http://defect.opensolaris.org/bz/show_bug.cgi?id=8315>

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 057fe9a4f89282e440b5e11458f1dd8655879dd8
Merge: 95628b797e 932d6bcb66
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 24 16:15:47 2009 +1000

Merge branch 'master' into xi2

Conflicts:
    Xi/chdevhier.c
    include/input.h

commit 932d6bcb668194c5bdfeb336f700dc8b31529223
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Apr 24 15:28:45 2009 +1000

mi: remove superfluous check.

mieqProcessInputEvents doesn't process events from MDs anymore, so we don't
need to check for pDev->isMaster.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fab563bf8f6b63906ce9d5a568c467425843265b
Author: Benjamin Close <Benjamin.Close@clearchain.com>
input: propagate XTst events through virtual slave devices.

A XTest virtual slave device pair (kbd/ptr) exists for every master device pair. This is so XTest events are correctly propagated via slave devices up to Master devices and the classes are correctly changed along the way. We add the XTest slave device pair to the Virtual Core pointer and provide a simple way of creating the devices.

A XTest Slave Device is identified by the XTstDevicePrivateKey property being set in the devices devProperties

XI events are still propagated through the matching device, in the hope the client knows what it is doing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ccd28ca2ad40aeecf951ab058d89062882e35d8a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 22 19:23:17 2009 -0700

XQuartz: Localization update
(cherry picked from commit 9435fc5e20e25ce66ec85bde033daff51f39f69c)

commit a362d0f4fb79150f7b8e0eb3d1dc1cdee2f98d95
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 11 19:06:45 2009 -0700

XQuartz: Make sure the bgMouseLocationUpdated state is consistent
(cherry picked from commit 8fa8a8e1db60c8ac60d10ff1f15517471d2291f77)

commit 8dc8812c226222fc64f8e489f9f123687a95d3d1
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Apr 23 12:13:35 2009 +1000

exa: add missing exa.h header include

commit 3ec6a121e110ba3cae964ec201d4d5bf818b6dff
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Apr 23 12:13:05 2009 +1000

exa: missed exa.h change

commit 02ae85c4e93b0d0013c063ce0014b365a8ba061f
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Apr 23 12:04:17 2009 +1000
exa: add CreatePixmap2 hook for driver pixmaps.

This adds a revised pixmap hook for driver pixmaps, which is required to support tiling on various chips.

Signed-off-by: Dave Airlie <airlied@redhat.com>

commit 9d684ba0bcab53841a17ebd521507b6df8be4b45
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Apr 16 10:28:36 2009 +1000

exa: avoid offscreen pixmap swapped out flag for driver pixmaps

commit 0dfb97f15f591f85e079f5829c77d0c328d00464
Author: Julien Cristau <jcristau@debian.org>
Date: Wed Apr 22 20:01:49 2009 +0200

Bug#21324: Add quirk for Iiyama Vision Master 450

Reported-by: Jeremy Henty <onepoint@starurchin.org>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 44227ef1b77467c76147b9bf79bdd0e6305a522a
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Apr 20 18:20:52 2009 -0700

DRI2: Send the version the code actually supports

This prevents building an older server with a new dri2proto.h from resulting in a DRI2 extension module that lies about the version it supports.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit d1e916d29be8b470c8c8cadef6e83991fdbe5d9f
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Thu Apr 16 12:10:34 2009 -0700

DRI2: Add missing front-buffer flush callback.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit 826a5bff0136b2b4d55a9e6e6bc3a7a64ada9031e
Author: Benjamin Close <benjamin.close@clearchain.com>
Date: Thu Apr 16 15:33:30 2009 +1000

dix: Change AllocMaster into AllocDevicePair, allow creation of SDs too.
Allocating a slave device is essentially the same as allocating a master device. Hence we rename AllocMaster to AllocDevicePair and provided the ability to indicate if a master or slave device pair is required.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e2e5932bda3f473629d4be6f3ca4dcab18993eb6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 16 11:06:52 2009 +1000

dix: don't allow more than MAX_VALUATORS on one device.

Some keyboards (?) advertise more than MAX_VALUATORS axes. Parts of the internal event delivery relies on not having more than MAX_VALUATOR axes, so let's cap it down.
If there's real devices that require more than the current 36, I'm sure we can bump this up.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 063833f3a6d9f8f657e3d309c8d6d5c3d606513
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Dec 24 14:23:37 2008 +0100

Add XI 1.5 event and requests to protocol.txt

commit 4f86ee61a4abf7a29e565d095aa08abd0ca9de66
Author: Julien Cristau <jcristau@debian.org>
Date:   Wed Dec 24 14:17:27 2008 +0100

Add RandR 1.3 requests to protocol.txt

commit 6559f02ef89eb0ee365110d6a928ebd29632ad53
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Fri Apr 17 15:14:45 2009 +0100

xkb: set bell_func in InitKeyboardDeviceStruct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 95628b797e2b326ae15406df4f736e25f5d2f12f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Apr 20 14:04:54 2009 +1000

Xi: use the XI2 defines for AsyncPair, SyncDevice, etc, not the XI ones.

And don't allow some values on SDs either.
Add newline to some LogMessage strings.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Merge branch ‘master’ into xi2

Convert to using int32_t fixed point values on the wire.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: set root_x/y for device events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: don't allow more than MAX_VALUATORS on one device.

Some keyboards (?) advertise more than MAX_VALUATORS axes. Parts of the internal event delivery relies on not having more than MAX_VALUATOR axes, so let's cap it down.
If there's real devices that require more than the current 36, I'm sure we can bump this up.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit edb70caf21fa5da3c336c47c62218a3f05c635b8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Apr 15 22:16:49 2009 +1000

dix: remove un-used parameter "core" from AllowSome

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bb5418d4901017c657031181d3839f58b387a2a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 12 22:22:21 2009 +1000

Xi: Add support for XI2 active grabs and ungrabs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c11ef87931f920ba782ba4e9b47d9c31ad7c1cf7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 12 22:16:14 2009 +1000

Xi: take XI2 requests into account when checking opcodes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c94ea5bc055e4efc323e84b7a8266e8bb8a4af48e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 12 17:38:28 2009 +1000

input: use a GrabMask union in GrabDevice to allow for XI2 masks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6bb4b5b93701535402f65ea828348ed7747c7dbf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 12 16:20:10 2009 +1000

Xi: add XI2 grab protocol request handling.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 09f9a86077f0058ce88ee9b3df5d1ab854eeeca43
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Apr 12 16:19:45 2009 +1000
input: replace GrabRec's coreGrab field with grabtype.

Don't allow grabs of different types to override each other.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7f8e1b7d63e94b344e8ff9d09e0bb162ca104909
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sat Apr 11 13:10:31 2009 +1000

Xi: remove the GetExtensionVersion hack.

Squashing data into a request that's defined to be padding is probably not the best idea.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e0642ee9466d3268476d0084a83a9d93a4aa555
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 16 16:17:07 2009 +1000

os: don't malloc memory in LogVMessageVerb.

LogVWrite is limited to a buffer size of 1024, so we don't loose anything here by truncating. This way we can use LogVMessageVerb (and xf86Msg and friends) during signal handlers with the normal message types.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 62d2fb68638e9f2a3c1d72027619c4d38f5b812
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 16 17:06:33 2009 +1000

xkb: Add XkbFreeRMLVOSet helper function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>

commit 73e1055b1275470dccc2d53b15898c866d9721d3e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sat Apr 11 11:19:29 2009 +1000

Xi: fix a typo in a #ifdef

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit cbbc7fed994448852961a987a8b0eadf718b24bf
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Apr 1 10:53:10 2009 +0200

dix: correctly utilize tracker buffer and protect from timer overruns

two small related fixes hard to split up

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ca4918ac2f003142aefbd8ac7ec2bc398ccc6eb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 19:31:04 2009 +1000

Xi: remove fail from SProcXISelectEvent.

Leftover from rebasing once too often, I guess.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 463676f016a105a790cbb386d20eb5b188c04652
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 19:11:59 2009 +1000

Xi: remove un-used variable pXIclient

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 32b13ec4cd42842a133aa6428f49638b0448efc9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 19:11:27 2009 +1000

Xi: silence compiler warnings about "wrong" event types.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f2e957c5342aefc8329e9fe282b7072f767fcd28
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 19:07:36 2009 +1000

mi: add prototype for CopyGetMasterEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d80798ba2ae018086aaf230fcd8bc71d3bf06b11
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 20:27:00 2009 +1000
mi: fix wrong (*EnqueueEvent) declaration in miPointerScreenFuncRec.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4dedb900f4fbd3bdc9538b1e82cab2044438a770
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:42:06 2009 +1000

xfree86: shut up compiler warnings - typecast to InternalEvent

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fa7fcf610d2ab91c1158f8034b8b0531060a86f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:40:20 2009 +1000

mi: fix compiler warning - explicitly typecast to InternalEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8bf2f562678107c346e8664f18c10f315c2768f5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:14:39 2009 +1000

dix: fix dev/keybd variable mixup.

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 012cb1956a69f6cf2a878c5331e792fb12c73e9d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:06:32 2009 +1000

xfree86: fix use of uninitialized variable in DGAProcessPointerEvent.

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 73b01a9aac5fde46ccd90c08a070e9d2496092b9
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Apr 8 14:35:01 2009 +0200

dix: fix pointer accelerations remainder handling

This didn't really work as intended, but did amazingly well thanks
to roundf() hiding the defect. Cheers!
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4318075140cc287871d3c3b9f777289ea4ffa23a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 7 21:51:02 2009 +1000

dix: store subpixel precision and send it down the wire to the client.

For the valuator data, not yet for root x/y and event x/y.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9212948461c5e053abb61fff73ced4af0f138544
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Mar 21 18:19:19 2009 +0100

dix: allow relative motion buffer to accumulate in a natural way

Since with XI2 we pass sub-pixel motion, anything else is broken.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ad76656f8869e2065f0c4e66cfbee0b42c61769
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 17 17:46:58 2009 -0400

randr: Accept gamma set requests from XF86VidMode clients too

commit d9bf52b4abd29a3c206cd1e765b680659ddac1c6
Author: David Jander <david.jander@protonic.nl>
Date: Fri Apr 17 01:34:18 2009 -0400

[kdrive] Fix rotation of pointer

Rotation matrix for pointer coordinates was incomplete and pointers with absolute coordinates did not work correctly in xserver (kdrive) when the screen was rotated other than by 0 degrees.

Signed-off-by: David Jander <david.jander@protonic.nl>
Signed-off-by: James Cloos <cloos@jhcloos.com>

commit 4559d2ace6ac55fe361f572ded0769cdd1f3b545
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Apr 16 22:48:11 2009 -0400

security: Grant untrusted windows remove access on all windows.

This allows untrusted clients to destroy their own windows when they
have been reparented by a trusted window manager.

commit 3481b32ab971c41cb972f6819ae049f3e9f7033b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Apr 16 22:39:54 2009 -0400

security: Fix a crash caused by wrong ordering of format arguments.

commit 6045506b0cebca4ebbe943ae77f020aafa703d4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Apr 16 22:33:12 2009 -0400

security: Revert behavior of extension access for compatibility.

Previously, three extensions were defined as "trusted" by the extension: BIG-REQUESTS, XC-MISC, and XPrint. No other extensions were permitted to be used by untrusted clients.

In commit 8b5d21cc1d1f4e9d20e5d5eca44cb1e60a419763 this was changed for some reason. Return to the old, compatible behavior.

commit 56a5955c8cd87137248edb2cbc65d384376d72ad
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 14 17:05:04 2009 +1000

xkb: strdup the values returned by XkbGetRulesDflts

XkbGetRulesDflts may get a copy of what will later be freed when passed into XkbSetRulesDflts.

On the second run of XkbGet/SetRulesDflts:
XkbGetRulesDflts(rmlvo)
   rmlvo->rules = current-rules

XkbSetRulesDflts(rmlvo)
   free(current-rules)
   current-rules = strdup(rmlvo->rules)

Leaving us with garbage in current-rules.

This patch requires callers of XkbGetRulesDflts to free the associated memory.

See also

Reported-by: Benjamin Close <Benjamin.Close@clearchain.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Benjamin Close <Benjamin.Close@clearchain.com>
input: allow NULL as XkbRMVLOSet in InitKeyboardDeviceStruct.

Virtually all callers use

\[\text{XkbGetRulesDefault}(&\text{rmlvo});\]
\[\text{InitKeyboardDeviceStruct}(..., \text{rmlvo});\]

Let's save them the trouble and accept NULL as a hint to take the default RMLVO.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Benjamin Close <Benjamin.Close@clearchain.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 4e4e263bc073bf452f19c932b937c4881ae71f64
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Wed Apr 15 22:16:49 2009 +1000

dix: remove un-used parameter "core" from AllowSome

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dd6e8a14ec1c8f4ed9e51ca2764261e6e48d13b3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:  Sat Apr 11 11:19:29 2009 +1000

Xi: fix a typo in a #ifdef

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit de1e43181bd670877b994db221ad8a04b5d63324
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:  Wed Apr 15 11:13:48 2009 -0700

DRI2: Don't leave empty entries in private->buffers

This should fix bug #21130.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit b3e3154c5e47add97f5561088036ce3b9e7de937
Author: Robert Noland <rneland@2hip.net>
Date:  Wed Apr 15 12:06:19 2009 -0500
One = is more than adequate here. Make is sh safe.

commit 74d27c8b5bac7c8d2ed02ba86e09bf09924ce05c
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Wed Apr 15 15:44:17 2009 +0200

Fix build on hurd-i386

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=523970

commit faf7dfa099f5b42a703313fbdd1bf8afdad07a179
Author: Dave Airlie <airlied@linux.ie>
Date: Wed Apr 15 18:26:06 2009 +1000

randr12: looking up these bits if randr isn't initialised is bad.

When xinerama is enabled we don't get randr protocol, but the
driver might still want randr internals

commit efa31092d6703397121f0ada4f7205a8edac3d3d
Author: Ander Conselvan de Oliveira <ander@mandriva.com.br>
Date: Mon Apr 6 16:01:20 2009 -0300

xfree86: Remove device from inputInfo.devices if ActivateDevice failed.

After the call to xf86ActivateDevice, the new device will be added to
inputInfo.devices. However, if the subsequent call to ActivateDevice
fails, the corresponding InputInfoRec for the device is deleted but an
entry still remains in inputInfo.devices. This might lead to a server
crash later on (on InitAndStartDevices for instance) when the device
control proc would be called for an invalid device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d79bad0aa70403ead8ec87bac8463a6e2005802c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Apr 13 17:49:00 2009 +1000

xfree86: don't synthesise a mouse section if synaptics devices are found.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4a27618565f3151ab17f0ca9ecbde12fa7ba13c0
Author: Kristian Høgsberg <krh@redhat.com>
Date: Tue Apr 14 16:21:04 2009 -0400

composite: Fix resource lookups
commit c7785e8af3e34f9d1089d8499d16802984ab9823
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Apr 14 14:24:31 2009 -0400

    xfixes: Fix a couple of resource lookups

commit 0eb19f9437b7d8c19592e49eeb028771d300d80
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Apr 14 10:54:25 2009 -0400

    xdmcp: Don't crash on X-query with more than 255 IP addresses. (#20675)

        You could be more clever than this, but the wire protocol says this
        really is an array of not more than 255 ARRAY8, so it's not just a
        matter of changing the types.

commit f0543ae4ec0fcb5d696e7b2983653bd779f1eddc
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 8 14:17:41 2009 -0700

    Fix unused var warning from pci cleanups.

commit 181cc08c8908a119fc403f970dea8cc98d3e0b9b
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 8 14:17:40 2009 -0700

    Add shave so that we can see the steaming piles of warnings generated.

    The old style output can be reenabled for build system debugging using
    "make V=1", or --disable-shave at configure time.

commit 4474c200a102feda72f9572a96cb588009aa0147
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 8 14:17:39 2009 -0700

    Move VENDOR_* defines from AC_SUBST to a header to avoid angering shave.

    This is more sane anyway, as it ensures a rebuild when changing them.

commit e72c85547b405fbd0117dc1236e5ca5a2126063c
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 8 14:17:38 2009 -0700

    Move contributed m4 to a subdir so we can more easily update contributions.

commit bef1cfb2395df47458159a0b7ae27b9db15025ef
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Apr 14 16:54:42 2009 +1000

xnest: remove unused variable 'names'.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7b6400a1b8d2f228fcbefdf17c30a7e3924e4dd2a
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Apr 9 13:16:37 2009 -0400

glx: Fix drawable private leak on destroy

When a drawable goes away, we don't destroy the GLX drawable in full, since it may be current for a context. This means that when the drawable is destroyed in full later, the backend doesn't get a chance to destroy resources associated with the drawable (the DRI2Drawable).

With this patch, we destroy the GLX drawable in full when it goes away and then track down all contexts that reference it and NULL their pointers.

commit 140463a197fb93d0a4bfad924efc35b860e8cc54
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Apr 11 16:53:59 2009 -0700

XQuartz: Use correct values for ProximityIn and ProximityOut

This was the other underlying cause of teh 100% CPU tablet issue.
(cherry picked from commit a9ceef34e23fbc59b56b380c51d31a9fab3eb7)

commit 80a7bb2605f9b439d6221c0495a629a39177a018
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Apr 11 17:26:07 2009 -0700

XQuartz: Solve the tablet 100% CPU bug

This happened because we put a byte in the fd to wake up dispatch, but we never actually enqueued anything in mieq because the num_events was 0.
(cherry picked from commit c21ca7558d2fa93c61f5feafdf7c878e9e21942)

commit 6f8f7c78f1b722bc70a0eaf6340116a1e09e858
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Apr 11 16:13:42 2009 -0700

XQuartz: Re-enable background window checking

since that code was not the culprit for the wacom tablet, background 100% CPU bug
(cherry picked from commit fc1dc5d71b2a488a8a94d953dd8e67353161a590)
commit 8522a759c9e7e78478bb399b91d3a0af2d23ea6766
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 11 16:12:23 2009 -0700

XQuartz: Only set MotionNotify on activation if it is updated.
(cherry picked from commit ae8077a251ef27381a755d57ff974767bda16148)

commit 5e55becddccc376ab7338789562ad66d6cd750de9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 11 14:23:41 2009 -0700

XQuartz: Make sure the Fn doesn't trigger unnecessary calls to DarwinUpdateModKeys()
(cherry picked from commit 70a18558c6b0a02633f8d97f4002c0d3c713e)

commit bd1d9179094657865b6066ed0ac835a8b8df3be1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 11 13:53:38 2009 -0700

XQuartz: Re-enable Fn as an option for 3button mouse simulation.
Patch from Martin Otte <otte@duke.edu>
(cherry picked from commit b5ec3be6b5449b5d575b1472fdd1e9cb15cb8be)

commit 1b5758bef0840c6614244e321790231b3c9477c9
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Apr 9 15:45:57 2009 +0200

exa: implement UTS based upload through CopyArea
- Some image viewers (eog, gqview) trigger the CopyArea path of Xext/shm.c
- I'm not aware of any code path that wouldn't like UTS and trigger this code.
- miDoCopy should handle src coordinate clipping.
- Overlapping blits are obviously not an issue (both would have to be offscreen or not).

commit 567cf67959b30432ae30f4851ec17b3a375ab838
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Thu Apr 9 14:38:24 2009 -0700

DRI2: Synchronize the contents of the real and fake front-buffers

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit f1a995d1496d73741731e32f475097c44a8da972
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Thu Apr 9 14:31:01 2009 -0700

DRI2: Do not send the real front buffer of a window to the client
Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit aa2928325fe51d94a636dde9c090e8f54a3111a12
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Apr 8 15:44:34 2009 -0700

DRI2: Add fake front-buffer to request list for windows

If a front-buffer is requested for a window, add the fake front-buffer
to the list of requested buffers.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit 808fd2c67f303cb7217693735b11ce8b90ff6c1909
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 20:00:37 2009 -0700

XQuartz: xprSetWindowLevel updated to store the level requested by the WM
(cherry picked from commit c28c2ddc3a8f3c5b9beec396953bb3ac9ee4714b)

commit dfb0d7aefbbdfc0db966e3a84d52f638135d9138
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 18:51:22 2009 -0700

XQuartz: Update window levels when changing rootless state
(cherry picked from commit 1359ded5bfc14a80fb998b01a54ecacb96c4ff88)

commit d5ef88d7543ed787093099ab18db766c446b47d1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 18:27:22 2009 -0700

XQuartz: Fix window levels for rooted mode to allow showing the menu bar.
(cherry picked from commit 80759a4186bf0335edc85aece2fafa11fe09f491)

commit 15146b863759640e7a73fab2301fb28ef4dead84
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 17:47:41 2009 -0700

XQuartz: Properly set the window level for the root window
(cherry picked from commit bdf9286d1cbfeaa8eaf0d28091e91ee587ee25)

commit 8d5dcfe2154f217bd8fde5509d78f3383add8725
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 04:36:26 2009 -0700

XQuartz: Properly set the menu bar and hotkey state when changing rootless mode.
Currently no code path exhibits the broken behavior since we only toggle into rootless if we don't have the root.
(cherry picked from commit 970f100ca3c5fe0662ae7658d49d118fb9de943)

commit 82d7cf5cebc5e451a87f8cf64cd5d2e3627d54
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 9 03:55:13 2009 -0700

XQuartz: In rooted mode, make sure we start in the hidden state.
(cherry picked from commit 5ecc497f71c2133f773f6c56ad76cb778862ddd6)

commit e86f4e93020d56385418850a9eebae8076dcb9ac
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 6 21:34:14 2009 -0700

XQuartz: Send MotionNotify before button presses when X11 is in the background
(cherry picked from commit c80d0ec18ef5b842447d31360406d0b5b9424222)

commit 5ccfad8df099e8ebe4bf2dd53c3db1460903b135
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 6 19:21:46 2009 -0700

XQuartz: Revert most of the previous override redirect patch

The changes actually caused all windows to move to the current space. Instead, we're going with a fix entirely
within Xplugin that depends on quartz-wm being the window-manager for now.
(cherry picked from commit 997b6f3142c622541bb5bac98652abaee75d1101d)

commit ff7f019bbbc52618cc478db7baed57aa5b7c3d3
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Apr 1 10:53:10 2009 +0200
dix: correctly utilize tracker buffer and protect from timer overruns
two small related fixes hard to split up

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 06aebecb19dd9d90d73b742a09b6068b862f1d05
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Apr 8 14:35:01 2009 +0200
dix: fix pointer accelerations remainder handling

This didn't really work as intended, but did amazingly well thanks
to roundf() hiding the defect. Cheers!

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit 98f4179156391752e6688339487458ad7828abf4
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Mar 26 23:04:24 2009 -0700

Use RTLD_DI_SETSIGNAL to catch runtime dynamic loader errors and clean up

Based on fix for Sun bug 6813925: Xorg needs to catch ld.so.1 failure
so it can close down devices cleanly

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit a0b6a363dca8ce0de6f4eb79333e48496153cd67
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Mar 9 13:22:57 2009 -0700

Lift fatal signal handlers from DDX'es up to a common DIX implementation

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit fcc19e673e3ef33d64916dd9338531f8aa667c4d7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 20:27:00 2009 +1000

mi: fix wrong (*EnqueueEvent) declaration in miPointerScreenFuncRec.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fee979d0632751d3d54d2115e84e9654edf0622
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 19:11:27 2009 +1000

Xi: silence compiler warnings about "wrong" event types.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6b467bf879e6bb77d167e3f321e6dda97ca9d7010a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 08:42:06 2009 +1000

xfree86: shut up compiler warnings - typecast to InternalEvent

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8a2a184da78a3e9cbeae8290431f40d5ec7f3636
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Apr 9 08:06:32 2009 +1000
xfree86: fix use of uninitialized variable in DGAProcessPointerEvent.

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 011cee3103c146c8096b7098a27993f99e07a824
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:14:39 2009 +1000

dix: fix dev/keybd variable mixup.

Reported-by: Eric Anholt <eric@anholt.net>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 630a6e9d14ffbf036fa72f580c72c0172d7c20bd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 08:40:20 2009 +1000

mi: fix compiler warning - explicitly typecast to InternalEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e3bb7dea06b9ab0e30d801bf6c3a59f94290a6ed
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Apr 9 19:07:36 2009 +1000

mi: add prototype for CopyGetMasterEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 346e71525fc545c6ca4ad79425722282d1544459
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Thu Apr 9 09:36:41 2009 +0200

EXA: If the driver can't composite to an a8 mask, try an argb mask for glyphs.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 682d7b55699cacabb2d6cd84a5e816bf6e2d2f02a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Apr 9 02:48:04 2009 -0400

xselinux: Don't BadAlloc in List* requests if there are no items to list.

Signed-off-by: Eamon Walsh <ewalsh@tycho.nsa.gov>

commit 3a0ee199dce39596756a995996eac388ac6315
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Apr 9 02:26:24 2009 -0400
config: fix crash caused by strdup(NULL)

commit 7b3982eb6518da33ab01c2fbf7ceb45b89f841df
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Thu Apr 9 08:21:09 2009 +0200

glx: Test the error value, not its address...

commit 03aebed519986c4dd03e02b3b3d4af1f64595ca7
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Apr 8 14:54:30 2009 -0700

Use a #define instead of a magic number

The number of buffers is likely to change in the future, so having
this as a define is the right way to go.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit 0d9f3ca7eabd4c514808114d30627f682c8bd030
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Apr 8 14:53:46 2009 -0700

Allow GLX sources to build against Mesa 7.4 sources

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit e8b324102f6e21ae2b8292a6f50d016dd6254dd6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Apr 8 15:10:16 2009 -0400

xselinux: Don't require incoming context strings to be null-terminated.

commit df27b870a8d7b7a5153b18a556fe77efa590f9eee
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Apr 7 16:28:08 2009 -0400

Convert remaining GLX LookupIDByType() calls

commit 92562747a0fdbef1dbedf734cb55dd6a9e1d2994
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Apr 7 13:58:53 2009 -0400

Add validGlxDrawable() and use dixLookupResourceByType().

Fixes deprecation warnings, and fixes a couple of GLX error codes
for failing drawable lookups.
commit f70e8c8f90091ef0f5ed0a5b2e023e7fd6369b36
Author: Kristian Høgsberg <krh@redhat.com>
Date:    Thu Apr 2 17:30:19 2009 -0400

Don't stomp on dixLookupDrawable() return value in DoCreateGLXPixmap().

commit 30d81ad72e870cc37754bd8c8aadf605450ec16e
Author: Kristian Høgsberg <krh@redhat.com>
Date:    Thu Apr 2 17:24:12 2009 -0400

Make GLX context lookup use dixLookupResourceByType()

commit 66539cc05d0b017b9feb4a038499907810140623
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:    Thu Mar 26 22:22:32 2009 -0700

Don't leak default font path when appending built-ins

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit 6c3b633299f12051fcf37fb8439f358de876cf03
Merge: adf21dba76 0cfdf481308
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Tue Apr 7 19:36:27 2009 +1000

Merge branch 'master' into xi2

commit 0cfdf48130842685828e0662a27272a3a65facd23
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:    Mon Mar 23 11:41:16 2009 +1000

dix: Don't change the keyboard mapping on non-keyboard devices.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 69e73e5ce0e3971eceed71216d2d7e7d9cd57cc2
Author: Adam Jackson <ajax@redhat.com>
Date:    Mon Apr 6 17:56:49 2009 -0400

config: Remove useless xf86conf{[m,c,re}alloc,re}free} macros

commit 485946120a6522db9298111752de9be3d675e0b3
Author: Adam Jackson <ajax@redhat.com>
Date:    Mon Apr 6 17:51:35 2009 -0400

config: s/xf86configStrdup/strdup/
commit 5f769b73441cf29c05a05c728ab81bdde1fc00b6
Author: David Jander <david.jander@protonic.nl>
Date:   Mon Apr 6 13:01:08 2009 -0400

kdrive: Fix segfault in tslib support

commit 843166b033dc0544b9f3cf3e91fc3ae3650bda14
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 6 11:05:17 2009 -0400

    os: signal handlers return void.

commit aa6fbc2a3679896181610aee7ce2844d4322a5ce
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Apr 6 10:58:47 2009 -0400

    Remove some OS/2 leftovers.

commit 2c03a63ff6855272d587b4972a67f64115a1ce4c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Apr 5 03:20:40 2009 -0700

XQuartz: Use updated Xplugin API to send override-redirect windows to the current space when they're ordered in

This fixes the annoying "using a menu moves me to another space" bug
(cherry picked from commit 9e6dab89e08a26d764ba1aeab804c3d25c667da)

commit 67621f3b39c387b3f7bfc65781051ae51c0b83f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Apr 5 00:06:57 2009 -0700

XQuartz: Send a MotionNotify event for the mouse cursor when activating X11.app

Otherwise if X11.app was activated with a mouse click, the location of the even is the last location of the cursor
before X11 was deactivated
(cherry picked from commit c7457d7b313dd2ddfd04dd6294bed4532664e1ab)

commit e1338d27141125af61634597c5dea880692c4017
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Apr 4 23:43:28 2009 +0200

xfree86: Remove unused DEFAULT_UNRESOLVED and DEFAULT_BEST_REFRESH macros

commit e25d55ad546905c4921f0a26385bdb9f22038429
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 22:38:00 2009 -0400

    Revert accidental Makefile change from previous commit
DPMS: Re-export the various DPMS variables.

The drivers might not need them but extmod does. Should move it to builtin though.

os: Remove the useless -x option

DPMS: Remove the defaultDPMS* variables

DPMS: Simplify command line parsing

DPMS: Remove unused DPMSGet()

DPMS: Align the default timeouts with the default screensaver timeout.

On a typical LCD, a black screensaver is actually worse for power consumption than a normal screen, because it takes more energy to turn the crystals opaque. Also, the intermediate DPMS states are essentially useless and most monitors alias them to the 'off' state, so we may as well do the same.

As a pleasant side effect, this brings the default DPMS timeouts in line with the EnergyStar Program Requirements for Computers:
http://www.energystar.gov/index.cfm?c=revisions.computer_spec

which state that products must be "shipped with the display's Sleep mode set to activate within 15 minutes of user inactivity".

commit 38576dc3ae8dddec2baedd2f7e64abdfc56bedf93
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 11:55:41 2009 -0400

   DPMS: Simplify some macro silliness.

commit 1c01127a214731a21c4784249a429c74f17bd424
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 11:39:18 2009 -0400

   DPMS: Unexport all the various setup variables.

   The drivers don't need to know any of this.

commit a99b0ab918998c9a1b9f8692591b8cb59a12eb9e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 11:32:00 2009 -0400

   DPMS: Fix cast abuse

commit 4da347adb1fcc39e8f4f2cadd98e887d7ac877a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 11:18:21 2009 -0400

   DPMS: Code motion.

commit 1731882341c191b4fffd78e0c1fd9297c636e0401
Author: Havoc Pennington <hp@pobox.com>
Date:   Fri Mar 27 12:30:37 2009 -0400

   Set bg pixmap of composite overlay window to None (#20912)

   Otherwise it's impossible to get the COW without a white flash on the screen, because it's on top, mapped immediately, and unaffected by composite redirection. This makes initial login ugly when it doesn't need to be.

commit d2690375dfd994817f004cda133ca2a492c0b956
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 3 11:06:50 2009 -0400

   kdrive: s/KdSaveString/strdup/g
This isn't even funny anymore.

commit 91b697efdefba125348dbcaf584ec51a7f8e9bf6
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Apr 1 17:42:33 2009 -0400

Support setTexBuffer2 in AIGLX.

Fixes broken GLX_tfp, specifically, lets compositors ignore un-defined alpha channel for pixmaps.

commit 1c101d75d4855b2698e3fc8d2dd662f20585812f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Mar 26 22:25:08 2009 -0700

Don't leak canonical module name and patterns if module is built-in

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9180081ec32b6c655d193de4c89b59d222a72579
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Apr 1 13:45:02 2009 -0700

XQuartz: Still send mouse events while X11 is in the background if we have test extensions enabled (cherry picked from commit f393fb686cfbedb11a1539d4eaf5c491af8b3a64)

commit 029307e79a14cad5bde8f1f4a5d0a2f740271f06
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Apr 1 13:07:15 2009 -0700

XQuartz: Return BadRequest when SendPSN isn't implemented rather than success (cherry picked from commit 49871e99179d5176a1ec516c8f444e2dc219faea)

commit 0603fbc1d3b2db5c25faabbfb5e04914110b4d0e
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Apr 1 12:46:51 2009 -0700

XQuartz: Pad xAppleDRINotifyEvent to 32bytes to match sizeof(xEvent) (cherry picked from commit 276ee3bb087c772f57a987519aa4d94afeceadaa)

commit b1dab580bd8b4acfe3feddeda6e760098ec4922a
Author: Tormod Volden <debian.tormod@gmail.com>
Date:   Wed Apr 1 19:32:21 2009 +0200

xfree86: edid quirk for Philips LCD LP154W01-TLAJ
This panel reports its vertical size in cm.

X.Org bug#21000 <http://bugs.freedesktop.org/show_bug.cgi?id=21000>

Signed-off-by: Tormod Volden <debian.tormod@gmail.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 7d94414cf4b16501ce4c4291846498f393f150a4
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Apr 1 09:42:06 2009 -0400

    input: Remove xf86ReloadInputDevs hack

    We have input hotplug now, no need to fake it.

commit 3311ef6ee93df4325d198715e0fcee73af19f0781
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Mar 31 18:11:19 2009 -0700

    XQuartz: Don't report mouse events while X11 is not the foreground application
(cherry picked from commit 5d1dd35096334b59564d77caef7a97bd58845c5d)

commit 89887fadc97f6fd5059886396a6d7ef61de1982f
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 31 15:09:57 2009 -0400

    APM: Don't carp if not available.

commit 2e145989d10ef454581f8aa60358ed3782fd6442
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 30 17:22:28 2009 -0400

    dix: Simplify InitClient()

commit 252ec504817e05b185e4896a2d899e9c00b8aeef
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 30 15:18:30 2009 -0400

    Document which bits of ClientRec are currently unused

commit 0b6e14d46feaf8c46fd3768ee5353b844391b79b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Mar 30 20:37:25 2009 -0700

    XQuartz: Fix mouse tracking for quake, et. al. in wine

    Patch courtesy of Codeweavers
Fix mouse movement tracking. For a non-window-related mouse-move event, calculate the new position by adding the event's delta-x and delta-y values to the previous mouse position. Do not rely on the current mouse position because it may have been changed by a XWarpPointer call.

(cherry picked from commit 7a67935b05a475215b9dbb959e4f7e15f32416f)

commit c74220b853cd99d03e33cc62d32431ca3a879483
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 30 14:56:15 2009 -0400

APM: Use general handlers, not input handlers.

Otherwise APM events get treated as input events, which messes up idle time accounting and screensavers and such. Not, we hope, that anyone is using APM anymore.

commit 283a081572d8db787c77d09e5ba6bcadebf4f7fe
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 27 15:56:15 2009 -0400

selinux: Only activate if policy says to be an object manager

commit 8e7facfe3013abda12a0c39ad8b4d025618077a7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 27 15:48:17 2009 -0400

config: Fall back to vesa for Intel Poulsbo.

commit 17239c8e31633e8c70e159835d43c0d8e178192a1
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 27 12:44:20 2009 -0400

misprite: Remove private header, fold into misprite.c

commit bb89fc2771d2e54d7e0cd0371db68d6e54a63e5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 27 12:36:42 2009 -0400

misprite: Fix software cursor on multiple ScreenRecs

commit 2c00064980d30015e6da95de3c77c0fdd0090e4
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 27 11:54:52 2009 -0400

misprite: Do window check first for Get[Image,Spans] too

commit 8beecd6c02610444105f3d0b8ee3a49e1072096d
Author: Adam Jackson <ajax@redhat.com>
misprite: RECT_IN_REGION -> miRectIn

commit a232116b9ecd41ce55f8e0ee9dfe2b67d76479d6
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 27 11:41:40 2009 -0400

misprite: Fix a typo

commit 1f0eaf886d88f3935e43985d2e889b374f412e43
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 27 11:29:40 2009 -0400

misprite: Fix cast abuse

commit e3c1096273446bb7eb993b179ceb989617d149cc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 23 13:20:22 2009 +1000

dix: build_modmap_from_modkeymap needs to bounds-check its argument.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 45baef0b77f6f0e5e6230eca045dfcbb1e48c647
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 23 13:32:32 2009 +1000

dix: return BadValue as error in SetModifierMapping.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 603db34337a61754e0c5f71525011d10eab78411
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 25 15:51:43 2009 +1000

Xext: set POINTER_SCREEN flag in XTestFakeInput if necessary. (RH #490984)

The POINTER_SCREEN flag must be set explicitly for XTest core events to avoid
out-of-range events when the lastSlave was an SD with an explicit axis range.
Device events sent through XTest don't need this flag, they are expected to be
in the valuator range of the device anyway.

Red Hat Bug 490984 <https://bugzilla.redhat.com/show_bug.cgi?id=490984>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
misprite: In SourceValidate, check that it's a Window first

It almost never is. However, you have _lots_ of input devices now, and walking them all on every Composite operation is not the cheapest thing in the world.

X.Org Bug 20756 <http://bugs.freedesktop.org/show_bug.cgi?id=20756>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

xkb: put a few extra checks in against non-keyboards

dix: remove a truly useless a = (foo) ? bar : bar; statement.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove two unused defines in C files

These two defines were defined in C files but not used anywhere:

dix/window.c  #define DeviceEventMasks (KeyPressMask | [...]

os/connection.c  #define MAXFD 500

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
FID, whatever that was, isn't anymore

No traces of FID in the xserver nor in the modules listed in
util/modular/xorg.modules

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

include: un-export a bunch of server-only functions.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: move ProcGrabPointer guts into GrabDevice.

Yes, this means we have even more arguments to GrabDevice. But it beats having
a copy of most but not all of GrabDevice in ProcGrabPointer.
Also, reshuffle the order of parameters, the CARD* status is a return value
and should be last.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: remove now obsolete mskidx parameter from DeliverEventsToWindow.

mskidx would always be dev->id anyway, so if we're already passing in the
device, mskidx is superfluous.
commit f5409aa026b2cb501170867d046c6e220f3fe0a44
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:51:50 2009 +1000

    mi: remove deprecated miPointerAbsoluteCursor

    Functions that don't specify the device are so last year.

commit 46145a9312eaf5dcd0e8b6788ed8219e086f790e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:12:55 2009 +1000

dix: remove coreMods field from GrabRec.

    Nobody uses it anyway, and it's taking up a whole bit!

commit 40e2a61e37109cd9c2ab57954ee40dcf4a062e31
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 16:53:56 2009 +1000

    Add Get/SetDeviceFocus handling.

commit d9b7343eac1157490442cc0fb3b5b6d7d6e9a705
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 12:56:18 2009 +1000

dix: even if we don't get a XI1 event, continue processing.

commit e11dc10f01603b181e224c90d1dd4abe940f2ce7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 10:21:00 2009 +1000

dix: Send HierarchyEvents when devices are added/removed/enabled/disabled.

commit 8634e1bcbae9317fc22132f7c9bde1a4a881b9a7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 10:42:05 2009 +1000

dix: send presence events when floating and unfloating SDs

commit c9483a53bea1f721d2902ac11467f67317e7de14
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 11 16:20:22 2009 +1000

    include: add a few prototypes to silence compiler warnings.

commit a4b61efc78d81de02a71fa6ad8a44a06616f6794
dix: un-static FixUpEventFromWindow and deal with focus events too.

commit 4cc6a96d7171e567a9bd5a10f552bb953077aaf
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 10 16:08:14 2009 +1000

input: add support for RawDeviceEvents.

commit a668d91e28d5a3042a8ce0d087474883b046869a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Mar 9 16:36:07 2009 +1000

dix: store the xi2mask on grabs and pass it around as needed.

This enables passive and implicit passive grabs for XI2 events, except that we
don't have the protocol spec yet to request them.

commit 32f338263ff7de1a2e76d570c98f5be979c18d4e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Mar 8 21:32:31 2009 +1000

Xi: Deliver XI2 HierarchyEvents when the hierarchy changes.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 97e89a59572a4be6757510a317c142ec1d82e8f8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 6 23:22:00 2009 +1000

Allow XI2 event selection for AllDevices and AllMasterDevices.

commit 808a158182b0a3b985385899252c1909471b4dbbd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 6 14:45:26 2009 +1000

dix: Enable XI2 delivery for events and focused events.

No support for grabbed events yet.

commit 87ff1159b497c66554a4036ae619f92d5631f00f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 11 09:01:23 2009 +1000

dix: deliver device enter/leave events.
commit 04ed0bcb2530866f7248b412974ecd15f0fbff6ac
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 23 17:07:55 2009 +1000

  xkb: remove Device/Enter leave handling - XI2 enter/leave don't have compat state.

commit 3f37923a727d5fc4b1880a53dac1145884ba7140
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 23 16:12:25 2009 +1000

  Xi: send XI2 focus events.

commit daf7dd3bfecc9029bd10c7a4ea5d2c875a89c41
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Mar 11 09:01:12 2009 +1000

  dix: Add GetWindowXI2Mask helper

commit 8b6a370058ad5a20e0a0e49ec9443daf03775de8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 23 15:58:07 2009 +1000

  Add XI2 masks and XISelectEvent() request handling.

  XI2 event masks are simply stored in the OtherEventMasks as a separate field.
  This replaces the XiSelectEvent code.

commit 38bba0c1b75b84e8bbdafa7975cf701a9414a3af
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 20 16:07:33 2009 +1000

  Xi: Change ChangeMasterDeviceClasses to new XI2 events.

  Split ChangeMasterDeviceClasses into an extra XISendDeviceChangedEvent that
  assembles the XI2 wire event for the DeviceChanged event. Re-use this when
  detaching the last SD.

  Not quite perfect yet, we still copy the device classes from the slave now
  rather than from the data we had when the event occured. But it's a start.

  (We can now unexport SizeDeviceInfo and CopySwapDevices, not needed anymore)

  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 181e41511d5772962b8bc998a1940d2a9ba62d5e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 23 16:14:51 2009 +1000
dix: fix up device enter/leave for XI_Enter/XI_Leave.

commit 0befeb36c175b14eac8d5416851f1556af90dd86
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 24 15:27:07 2009 +1000

dix: Add device info to DeviceChangedEvent, and fill in CCCE.

We need to fill the info here, as the device may change until we get a chance
to process it.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b2ba77bac4fc3edab39372dfdc529e745ae74f77
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 5 14:23:47 2009 +1000

dix: add EventToXI2 and GetXI2Type.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dfa2e8e966b699f9d292628119d5a9ebd2dbdf5a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 23 15:12:32 2009 +1000

Xi: add XIQueryDevice request handling.

commit 560c58b53e4e60ebd26e0c66dd00399c438bd619
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 20 15:17:52 2009 +1000

Xi: name-space and fix XI2 requests

All XI2 requests have XI prefixes.
Requests affected:
  ChangeDeviceCursor
  QueryDevicePointer
  WarpDevicePointer
  SetClientPointer
  GetClientPointer
  XIChangeDeviceHierarchy.

commit 903449615b1a1188955c0287a552aecc8ac5b3fbb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 20 15:03:35 2009 +1000

Xi: add XIQueryVersion request handling.
commit 77d51b94bd264be5a8625a2bdd98f2bfb2aa33d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Mar 8 11:47:26 2009 +1000

dix: FixUpEventForWindow needs to handle XI2 events.

commit 95ed2ab715fa881d36d508ad4ae5dadd92ae7b2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 11:46:07 2009 +1000

Add XI2_EVENT check.

commit 92e0a324b5c738166ed4046cb00fe85ab8ae5a0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 12 14:15:02 2009 +1000

require inputproto 1.999.7

commit 906fe9547957917ac463d646935473ccca10a72b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 20 09:36:09 2009 +1000

Xi: don't allow OpenDevice on any MD.

This restores the original behaviour of XI 1. Any slave device may be opened, but none of the MDs.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c7eb27f3927ba9a36f9904938996f346cca33021
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Mar 4 18:45:09 2009 +1000

Xi: always only list VCP/VCK and the SD's in XListInputDevices.

If a client wants other MDs, it should use XI2's XQueryDevice() instead.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 801f14d4b742e506201b619d472087a7e82bd018
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Mar 3 17:04:08 2009 +1000

Xi: don't send attachment info down with ListInputDevices.

commit 66dd8879b3527f30309fb747cad4a161d0709d91
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 20 15:01:05 2009 +1000
Xi: purge ExtendedGrabDevice request handling.

commit 43e48900fccd245e98d6d697e4c6b6f8666a0dd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 6 22:27:54 2009 +1000

dix: Force deviced ids of 2 and higher for actual devices.

0 is now reserved for the "AllDevices" virtual device.
1 is now reserved for the "AllMasterDevices" virtual device.

This also means that wherever we passed in (mskidx = 0), we now need to pass in the devcideid.

commit 708966f127e2c12c13479a027f6e67853d1f8b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 13 16:42:02 2009 +1000

dix: abstract event filters through GetEventFilters.

Don't let everyone acces the filters[] array directly. This is necessary once we start dealing with GenericEvents, where the filters are a bit more complicated.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8a8763f1502c9ddd1961f96f2cc7c73fbc0b49b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 16:07:15 2009 +1000

dix: restructure DeliverEventsToWindow, a little bit anyway.

Desperate attempt of making the code easy to read and understand. A failed desperate attempt, possibly.

commit 891cfc802028c3e008ee6c2d3e2438a31f57f39f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 10:12:45 2009 +1000

dix: clean up DeliverDeviceEvents.

Move mask checking into external function and streamline the code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6b6b6660c3633af75a94302725137549df0dbe446
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 10 10:15:45 2009 +1000

Xext: remove ev_fill from GEExtensions.

commit 445daa62e720fe58fa2d6c3dc26663671b2bc48
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 15 17:16:22 2009 +1000

Xext: purge XGE event masks.

The masks were originally designed to generically handle event masks for extensions. Since all that is in-server anyway, it's much better writing custom event masks for those extensions that need it and not providing a unified mechanism.

XI2 needs more than the current implementation, which is already too complex for most other extensions. good riddance.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6fe4c28bf4f3a9f7c341b9e40313470e9ded5cb3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 16 16:34:05 2009 +1000

Add agressive event type checking.

Best to FatalError if a wrong event comes in. At least that forces me to fix it really quickly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 83684b65794de0954a01245e418e714cead8125
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 13 12:43:17 2009 +1000

xkb: don't overrun the map index when accessing symbols.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 497a12533905b98f388775b6ba49adf21017cc75
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 13 11:52:33 2009 +1000

dix: remove duplicate PickKeyboard() command.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7d4d00ee4414779ad5e519e7bd297c5defc409a3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Mar 19 20:24:06 2009 +1000

dix: fix device sync state when calling SyncBoth during AllowEvents.

This did access the wrong device's sync state, potentially freezing or not thawing the actual device that was supposed to be thawed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f1c7b95d83948160a0d5796ef6c16fc0d1b5c5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 20 13:55:00 2009 +1000

dix: do percentage check before device check in ProcBell

This is just for correctness. The server should return BadValue for anything not in [-100, 100].

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d60391d8ca9918d2089c23c0baef5e91177325f0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 20 14:01:30 2009 +1000

dix: fix uncredible fail in PostSyntheticMotion.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1a71862d333282e2d251ff0036866cec22bcce85
Author: Simon Thum <simon.thum@gmx.de>
Date: Sat Feb 28 22:17:47 2009 +0100

dix/xfree86: simplified velocity approximation algorithm

Replace multi-stage filtering with simple linear velocity, tracked several instances backwards. A heuristic ensures only approximately linear motion is considered, so velocity remains valid in any case. Numerical stability is much better, and nothing changes to people who didn't tune the advanced features of the previous algorithm.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5ae129baef85b47590c02e4cf61b23904d8f7aa9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 17 15:47:57 2009 +1000

Xi: check for existence of the button class before accessing it
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e8094d8f3f69f45850af031efd79a3928c584638
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Mar 19 10:09:04 2009 +1000

dix: ProcSendEvent shouldn't use inputInfo.keyboard directly.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 12aeddf5ad41902a180f8108623f356642b3e911
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Mar 19 19:07:59 2009 +0100

exa: Accept scratch pixmaps with offscreen memory as such.

commit a635bb5357648779815ec6729d55f6b478493213
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Mar 17 19:34:45 2009 +0100

exa: round of fb_pitch to the next byte

commit ec328783593339e3372301a8c5fe35fd63e0a2
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Mar 17 10:45:21 2009 +0100

exa: check if the pixmap is pinned for unsupported AUX indices.

commit 3992dd38caf33b343affd8d732e94880d1099dcf
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 16 13:24:48 2009 -0400

selinux: Add support for avc_acquire_netlink_fd()

Requires libselinux 2.0.79 or newer. Without this, libselinux will
check for policy updates on the netlink socket on basically every policy
lookup. Statistically speaking, they never happen, and the check
translates to at least one more syscall on basically every operation.

Instead, take control of the fd from the library, and check it in
WakeupHandler if it polls readable.

commit be6de9023b5f3b3995a9ce56d607627e247918aef
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:29:36 2009 +1000

xfree86: remove a superfluous assignment.
If dev is NULL, we don't have a VCP and that means we have other issues anyway.

commit bfab422dcdbb9c009b2a91fe0dba288fac9bc859
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:27:49 2009 +1000

    xfixes: useless (void) typecast removal

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4eeaee1e5a05e973cbeb653abf99f2a352edc70
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:25:12 2009 +1000

    xkb: xbki has a pointer to the device - use this instead of inputInfo.pointer.

commit 3f801ba62ac493d4ae6b664a5a638e3fb0c9a262
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:23:50 2009 +1000

    xkb: the VCP can post device events, don't stop xkb filtering on it.

commit 23686e5680d565c36e0b6320ce62c38c7830d06b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:20:56 2009 +1000

    xkb: Fix a mis-use of inputInfo.keyboard.

commit c97c6c3de337f247406eaffd5845a847630ee6c1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:17:20 2009 +1000

    xkb: fix a couple of device checks when looping through all devices.

    Generally, we want to apply stuff to the device and to all attached slave devices.

commit d21a546e9604ce2d3c914900f6e6ff2d9f5ca8b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 16:02:22 2009 +1000

    Xi: VCP and VCK may register for ext. events, so delete them if necessary.

commit 6ec49098f7ef259b43870139511006627b308bb6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:57:27 2009 +1000
render: replace a wrong inputInfo.pointer with pDev

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0b2b330f6fbf8633ae682a17fbd95f6b5db2c112
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:54:27 2009 +1000

mi: remove a bunch of useless inputInfo.pointer assignments.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 31301861c1dd87a2f55c5e4300ac7c8f54154bf8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:49:22 2009 +1000

dix: remove wrong InputInfo.pointer usage - should be pDev instead.

commit 639658b2eab480a5bfb943df51e4bd6e1e6e3b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:34:29 2009 +1000

dix: use GetPairedDevice in ProcQueryPointer rather than inputInfo.keyboard.

commit f01ee198ff0c84b7da418217a84248d1c6131a0c6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:22:23 2009 +1000

dix: don't use inputInfo.keyboard to get the focus window in ActivateKbdGrab

I'm not sure if that's the right solution, but the other one is wronger.

commit de415743f4c1878df2de79f84f5fe087a88d5241
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 15:19:23 2009 +1000

dix: fix XACE checks in ProcWarpPointer

commit 18430616cfd5d0bc5a3efe61fca2982b1726b0de
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Mar 13 14:59:18 2009 +1000

dix: use PickPointer() and PickKeyboard instead of inputInfo.pointer/keyboard.

Affected calls:
ProcChangeKeyboardControl
ProcBell

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35609
ProcUngrabKey
ProcUngrabButton

commits:

commit e31727158eda772928323cfde9bc5bcb59a52c1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 13 14:51:55 2009 +1000

dix: fix ProcChangePointerControl's wrong inputInfo.pointer usage.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fc5e8dc4a24c2b5bed4e6b5d00670c4401ec92d9
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 13 14:00:37 2009 -0400

Unexport xf86SetPriority

commit 89d7b88f32f9227fa72a043675367b94e4c9283c
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Mar 13 00:40:43 2009 +0100

exa: allow exaModifyPixmapHeader to set sys_ptr for EXA_HANDLES_PIXMAPS

- exaModifyPixmapHeader would save sys_ptr if needed, but it would be NULL'ed afterwards.
- This is needed to support pixmaps that are not offscreen.

commit 544cd9e7b50cd9905afc52404de1a5a2bcf91b5
Author: Ander Conselvan de Oliveira <ander@mandriva.com.br>
Date: Thu Mar 5 12:57:28 2009 -0500

Honour Option "DPMS" "off" on xorg.conf

Signed-off-by: James Cloos <cloos@jhcloos.com>

commit 7abb72c5c711a26a27a82604bd2398bcb6df0a99
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Feb 25 10:55:36 2009 +0100

xfree86: remove obsolete code

remove a few lines which redo part of the pointer acceleration
init. Properties is the way to go for them.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 97cb3cc28e4a5694d17f156276efdf84555a96d18
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Mar 12 10:17:16 2009 +1000
dix: Merge DevicePresence notify events generation into a single function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7f1ba804a1c1ae72e5e20a04e5f6ef74478ecf44
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Mar 10 11:55:04 2009 +1000

dix: `numEvents` in GetKeyboardValuatorEvents

GPE and GProxE use the same.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 067f26f7ba4c8cf37af7d7f0eb204b7e1d06096d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 6 19:42:27 2009 +1000

Xi: set the modifier + group state during POE.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit da724e8f1d1867c36c9550a153c58829939800fc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Mar 6 15:50:05 2009 +1000

Xi: Set the button state on the event during POE.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b368dd1720c708aaec492b4a67fb7e4f87569e11
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Mar 5 15:22:41 2009 +1000

dix: remove a few pointless (void) casts of return values.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cadf65a6e190a8952ad3cc216dc9ea55241de91a
Author: Matthias Hopf <mhopf@suse.de>
Date: Tue Mar 10 15:49:49 2009 +0100

randr: Nuke broken set_origin shortcut

Shortcut is impossible to implement this way, because we don't know for sure whether the crtc of an output has changed or not.
Correct access mode in call to dixLookupWindow() within RRSelectInput.

Reported by Alan Coopersmith.

Replace dixLookupResource by dixLookupResourceBy{Type,Class}.

dixLookupResource attempted to automatically detect whether the caller wanted a lookup by-type or by-class, unfortunately, it guessed wrong for RT_NONE. Instead of trying to make the guess better, this patch just reverts the unification and creates separate functions for each operation.

Xi: don't crash on a NULL property name, just return None.

strcp doesn't like NULL-pointers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Remove useless (void) typecasts.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Composite: Uninitialized borderClipX/borderClipY

Valgrind warned me about two other uninitialized variables, which are not padding. Valgrind output at the end. I'm a bit unsure of what these should be initialized to, is zero fine?
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35613

Author: Winfried Grünewald <winfried.grunewald.ext@eizo-dt.de>
Date:   Fri Mar 6 12:59:35 2009 -0500

Fix this bug report:

```
,----< from http://bugzilla.freedesktop.org/show_bug.cgi?id=20504 >
| Using the Visual StaticGray (8 bit depth) is missing one gray level.
| The gray level of index zero and index one are the same and all
| other levels are shifted by one. The max level (255) cannot be used.
`----

Signed-off-by: James Cloos <cloos@jhcloos.com>

commit eba3bab71ff26d58bb0e49e4a9726fc21ff07258
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Mar 5 15:09:28 2009 -0800

Remove #ifdef macII code left over from ancient A/UX 3.0 support

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit daa9727a02701cfa77b92f3e61d752be6fcc00e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Mar 4 11:33:00 2009 -0800

XQuartz: Implement SendPSN for AppleWM
   (cherry picked from commit 779e9f0dc2de9bf0c5f0a4e9d5f42e389fdd8593)

commit ce6e1771be5f2c21af6f72a970579f5df26210413
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Mon Mar 2 17:05:28 2009 +0100

   exa: fix a serious issue in exaChangeWindowAttributes (and some more related things)
   - fbChangeWindowAttributes can create pixmaps (and access them) without use preparing access.
   - Also handle the destroyed pixmaps by finishing them first.
   - Switch to DEST indices again in exaCreatePixmapWithPrepare, because they are obviously being rendered to.
   - Also avoid calling FinishAccess on pixmaps that are destroyed (and their memory potentially invalid).

commit 7fb68e8b31d259325ce311ad67bfc43a933f009
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Feb 28 22:29:42 2009 +0100

   exa: remove a few pExaPixmap checks.
   - And make some fatal for a debug build.
commit bd2f35ef0d4b8c56eb205b8694b4fe5d2fa2c049
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Feb 28 22:15:04 2009 +0100

exa: fix unwrapping of ModifyPixmapHeader upon CloseScreen.

- Cleanup wrapping too.

commit da8ea41a542787691ea1120e5c8c7dc3182cbea5
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Feb 28 21:59:09 2009 +0100

exa: increase/rework safety checks in Prepare/FinishAccess.

commit 3ea3d505e8128ab3e878edcef697fd5656b0c917
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Mar 1 01:15:28 2009 +0100

exa: avoid a potential Prepare/FinishAccess inbalance.

commit 10334cf7e64e2e633cd507f2aa216027e840c8e5
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Feb 28 21:46:00 2009 +0100

exa: simplify exaPixmapIsOffscreen

- This includes properly handling the framebuffer.

commit 57bed76e218471b60d340b18c346d492f37798c2
Author: Tomas Carnechy <tom@dbservice.com>
Date:   Wed Mar 4 10:29:34 2009 -0500

Remove dead EXTENSION_PROC_ARGS define

Signed-off-by: Tomas Carnechy <tom@dbservice.com>

commit a6fb9f4ccfc69de090b152e29142e3159f812166
Author: Tomas Carnechy <tom@dbservice.com>
Date:   Wed Mar 4 10:27:30 2009 -0500

Remove dead XTest code from extmod

Signed-off-by: Tomas Carnechy <tom@dbservice.com>

commit c4081fee0995dae691665a00ea9bfd88b8043b8c
Author: Topi Kanerva <topi.kanerva@nokia.com>
Date:   Wed Mar 4 10:23:10 2009 -0500
Make DGA optional.

commit c7eb4bef152b47880abb6ea4819416e89e6522c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Mar 3 14:02:36 2009 -0500

Fix 2 const warnings.

commit c7cf926d25523d5d0d8e5c83671c901660070d71
Author: Eric Paris <eparis@redhat.com>
Date:   Tue Mar 3 13:15:39 2009 -0500

This patch changes all places in the X code to use _raw functions. The X server should never see, translate, or deal with a munged context. Display managers which show contexts to the user should take care of translating these to human readable form.

commit d84a2f855da9fd293e984084168c1e27f5a5115c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Mar 1 16:59:14 2009 +1000

xfree86: Add linebreak to two debug statements.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e0ed9f16d0ab871f3209837f5405546503c4108
Author: Jason Vas Dias <jason.vas.dias@gmail.com>
Date:   Tue Mar 3 13:24:54 2009 +1000

Fix build with --enable-debug.

[amended by Peter Hutterer]
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6093d3eb1d7d1e9ebace2e2f4d376352f787dd53
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 26 15:38:45 2009 +1000

dix: fix two compiler warnings (old-style function definition).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b874a5c0aaaf766891c9e567af48b891ea14be4f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 26 14:40:22 2009 +1000

mi: only print the "EQ overflowing" error once.
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a706dd8771f87cf0a73578755552124d162baa5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 26 10:04:14 2009 +1000

include: add a range of button labels.

Mostly the same buttons as defined by linux/input.h, with five exceptions:
"Button Unknown" for a button that cannot be labelled.
"Button Wheel Up", "Button Wheel Down" for buttons 4/5, traditionally the
wheel buttons.
"Button Horiz Wheel Up", "Button Horiz Wheel Down" for buttons 6/7,
traditionally the horiz. wheel buttons.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 8a6ed44a8b2fe5f14729dc54fec17607ced03859
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 2 14:26:23 2009 -0500

randr: Fix thinko in xf86TargetPreferred

The only-one-output case would only work right if that also happened to
be the zeroth output.  Oops.

commit 7bfad37f7706da5a76174c0da78dce4d6c6a585b
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Feb 27 22:26:52 2009 +0100

exa: fixup aux indices and ensure that the indices are used as they should be.

- In a previous patch i forgot to add a FALSE somewhere it seems.
- Rename AUX indices so the driver (think of driver managed pixmaps) can do optimisations based upon them.
- Fix one abuse of DEST index now that we have the AUX indices (same reason as above).

commit 8c6b4a827624aa70aea94b449fee6d5d8504105
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 27 12:42:43 2009 -0500

DDC: Redo extended device probe slightly.

We'll now only mention the E-EDID segment register if the device is
actually E-EDID-capable.  While we're here, check for DDC/CI and
standard EEPROM support too.
selinux: Don't bother relabeling resources that are being destroyed

Makes window destroy about 40x faster in Xvfb.

commit f028b14876dc536b575d4b6e1df7f37ee525acce
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Feb 27 13:06:28 2009 +0100

exa: whitespace

commit ed00515ec54b294f304b8ae2857e3073f97860d2
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Feb 26 22:18:03 2009 +0100

exa: fixup exaAssertNotDirty.

- Do the right thing based on prepare access.

commit 2e88b6004f09dbeb888abf05d4d5554231bd1a
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Feb 26 21:14:23 2009 +0100

exa: minor glyphs cleanup.

- This should fix subtle coordinate bugs and make the code a bit cleaner to read.

commit 265d20068af5434489752b6da0bf0065b3cc3ec
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Feb 27 16:41:39 2009 +0100

EXA: Fix check for whether the glyph we're evicting from the cache is in use.

Since commit f07f18231a921d3ae9dd9b75881c9e58e9e2e235 ('EXA: Allow using exaCompositeRects also when we can't use a mask in exaGlyphs.') we were checking the wrong set of coordinates in the buffer where glyphs to be rendered are accumulated when no mask is used in exaGlyphs.

This fixes occasional glyph corruption which can be corrected with redraws, in particular with Qt4.

Thanks to Maarten Maathuis for asking the right question: 'where do we protect against evicting glyphs that are still needed?'

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
commit 9d5141f7bcfed36417873b47f850332506af83ac
Author: Michel Dänzer <daenzer@vmware.com>
Date: Fri Feb 27 16:37:28 2009 +0100

EXA: No longer use the driver UploadToScratch hook.

See http://bugs.freedesktop.org/show_bug.cgi?id=20213.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 4cfb36f6ad2df01215028fecd99239a0e4496b
Author: Michel Dänzer <daenzer@vmware.com>
Date: Fri Feb 27 16:37:28 2009 +0100

EXA: Handle separate alpha maps properly in Composite fallback, take two.

Preserve the EXA ABI by introducing a new driver flag EXA_SUPPORTS_PREPARE_AUX.
If the driver doesn't set this flag, we have to assume any Prepare/FinishAccess
driver hooks can't handle the EXA_PREPARE_AUX* indices, so we move out such
pixmaps at PrepareAccess time.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=18710.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 4bf707f01822abe99286909fd561da7e7a4211d6
Author: Michel Dänzer <daenzer@vmware.com>
Date: Fri Feb 27 16:37:27 2009 +0100

Revert "Fix up Xephyr build for recent EXA changes."

This reverts commit 4e8d98b61e1f763c187e79994c683b5433ca1a33c.

commit de022f8e634baf5a7acd186934b370647df58355
Author: Michel Dänzer <daenzer@vmware.com>
Date: Fri Feb 27 16:37:27 2009 +0100

Revert "EXA: Handle separate alpha maps properly in Composite fallback."

This reverts commit 170cf1270df38d3ccee7f5ba5b940d1c0d70eff5.

Conflicts:

    exa/exa_render.c

commit d0dd649035fc3698c5b436f9d9d248116aa106a3
Author: Jon TURNERY <jon.turnery@dronecode.org.uk>
Remove references to rgb.txt from files section of Xserver and Xorg man pages

The references to this file in the server code were removed in commit dda10c9066a660b647384179f82e1da8e063264f

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Remove long-gone ‘-co’ option from Xserver man page

The ‘-co’ option was removed in commit dda10c9066a660b647384179f82e1da8e063264f

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

XQuartz: Don’t erase the mode_switch+keysym if it's the same as shift+keysym
(cherry picked from commit 3e2427e6e9675dd655c8ad328b82e12191b064f2)

commit f07f18231a921d3ae9dd9b75881c9e58e9e2e235
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Thu Feb 26 10:35:44 2009 +0100

EXA: Allow using exaCompositeRects also when we can't use a mask in exaGlyphs.

This should give the full benefits of the glyph cache even when we can't use a mask.

This also means we no longer need to scan the glyphs to see if they overlap, we can just use a mask or not as the client asks.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

EXA: Stop tracking damage for pixmaps subject to ModifyPixmapHeader.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Oops. 62fc98c had crtc offsets applied backwards (fix from server-1.6-branch)

Crtc offsets are in screen space, not crtc space, and hence should be applied relative to the screen->crtc transform, not the crtc->transform.

This fix was found in the 'cherry pick' of 62fc98c on server-1.6-branch, clearly some new definition of 'cherry pick' that I am unaware of.

Signed-off-by: Keith Packard <keithp@keithp.com>

Pre-clip panning coordinates to keep crtc within panning region

There is a separate panning region check, but that doesn't work under transformation, so just pre-clip the mouse coordinates when computing the panning offsets. This leaves the case where panning constants are changing unresolved.

Signed-off-by: Keith Packard <keithp@keithp.com>

RandR rotations and reflections offset by one pixel

The matrix computation for rotation and reflection resulted in dropping a row or column of pixels as the offsets used in the matrix computations used width and height rather than width-1 and height-1.

Signed-off-by: Keith Packard <keithp@keithp.com>

Fix up Xephyr build for recent EXA changes.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Tue Feb 24 23:12:57 2009 -0800

XQuartz: Re-enable support for capslock
(cherry picked from commit 4901b8147e593d26d7a31a9b73a201254b948916)

commit 4b63f88b0ad5f6614fee5b7af4f97ce4581ab935
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Tue Feb 24 18:54:16 2009 -0800

XQuartz: Comment out the background pointer interaction that seems to be causing CPU spinning on some
configurations
(cherry picked from commit 1d479fa4f3bca9cbd81808a6c87582422fd2a257)

commit 5672e2d6644be74125c71b81373b82f8e1b7dd2
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 20 14:55:51 2009 +1000

Xi: remove AllExtensionVersions.

Keeping an AllExtensionVersions array to save all versions of
all extension is rather pointless if only one extension uses it.
Rename to XIVersion, reduce to a single struct.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 59bc615ed2e60c595887dce11fe04935b49baaff
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 24 15:26:20 2009 +1000

dix: set the valuator mode in set_valuators

We only have per-device mode for now anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cffa3c499a0495e132557bd6b08a8c0b858cdf3b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 24 15:25:49 2009 +1000

dix: remove unused variable 'tmp'

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8d6dd83a38020080808705a156d32ec2a135633c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 20 13:13:58 2009 +1000
include: fix indentation for lastSlave/master.

Yeah!

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b3412adca8b2ba3fff348becb4f01b9e968c0afc
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Feb 22 22:53:46 2009 +1000

Xi: don't need to set the XKB settings for new core devices.
This is done by the XKB code these days anyway, so we might as well ignore it and keep using the standard stuff.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a180c2367974abe2ccdc88bb5c6f138c7df4d2e9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 23 16:38:41 2009 +1000

dix: remove ConvertBackToXI.

This was a temporary solution for the internal-events rework and is not needed anymore.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 26cf709e712573548990d165e71137f28271a8bb
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 23 22:39:08 2009 +1000

Doxygenify events.h and eventconvert.c

Should have done that before pushing, but oh well.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 170cf1270ddf38d3cece7f5ba5b940d1c0d70eff5
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Feb 24 09:22:09 2009 +0100

EXA: Handle separate alpha maps properly in Composite fallback.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=18710.

As this can't work without new EXA_PREPARE_AUX* indices, this requires a major version bump, so we can also drop the UploadToScratch driver hook and
ExaOffscreenSwap*(). So this also fixes
http://bugs.freedesktop.org/show_bug.cgi?id=20213.

Moreover, introduce EXA_DRIVER_KNOWN_MAJOR to break compilation of drivers
which may not be able to handle EXA_PREPARE_AUX*, giving instructions how to
make them build again in the #error message.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
commit d3b355875ac46104a174966e1974e6af99e40fd6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 24 11:14:14 2009 +1000
dix: fix wrong condition for setting valuators on the event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit ef320bdd5ec3419abba77041d3a4d96a3ff87563
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Mon Feb 23 16:49:51 2009 +0100
DRI1: Make DRICreateDrawable return TRUE for pixmaps.

GLX_EXT_texture_from_pixmap was broken since commit
a26c77ff432d2e85a2665fc36fca25143460c476 ('glx: fix retval checks when failures
occur for drawable creation. ')

Signed-off-by: Michel Dänzer <daenzer@vmware.com>
commit 1df6716281579e29377743d840ab1079343c503ac
Author: Adam Tkac <vonsch@gmail.com>
Date:   Mon Feb 23 09:28:26 2009 +1000
xfree86: don't try to UnInit virtual devices in DIDR. (#20087)
DeleteInputDeviceRequest function doesn't handle "virtual" devices well.
TightVNC libvnc.so module to X (which makes bare Xorg VNC capable) uses such
kind of devices.

Bare Xvnc (it is something like Xvfb) simply uses AddInputDevice &
RegisterDevice functions. Xvnc uses DeleteInputDeviceRequest from Xi/stubs.c
so everything works fine (now I see that DeleteInputDeviceRequest in
Xi/stubs.c should call RemoveDevice function, shouldn't it? : )

Situation is quite different when you use libvnc.so module. It uses same
schema as Xvnc, so it simply calls AddInputDevice & RegisterDevice. Thus
device is created correctly. When server is terminated it calls
DeleteInputDeviceRequest (now from hw/xfree86/common/xf86Xinput.c) for each
device. Here is the difference - Xvnc calls DeleteInputDeviceRequest from Xi/stubs.c as I wrote above. Thus Xorg gets sigsegv because "VNC" devices don't have real input driver.

X.Org Bug 20087 <http://bugs.freedesktop.org/show_bug.cgi?id=20087>

[This isn't really a fix (libVNC should behave correctly) but not crashing the server sounds like an improvement.]
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a50c40be1f28467bcefl7dc71fab54ebdddacfd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Feb 21 08:09:40 2009 +1000

dix: don't apply button mappings to SDs, or the device's MD. (#20122)

Only ever change the button map on the device we actually care about, not the attached SDs, not the current MD of the device.

X.Org Bug 20122 <http://bugs.freedesktop.org/show_bug.cgi?id=20122>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 36583a49965c0bb40a84284939b1539b3cb9fc9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Feb 10 12:45:49 2009 +1000

mi: split EQ popping and event processing into two functions.

mieqProcessInputEvents() - pop an event off the EQ and pass it to mieqProcessDeviceEvent() - process the event according to the MD/SD hierarchy.

This way, we can use mieqPDE() from Xtest, xkb, and others to post an event.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 47f136ed6fd80310f715a2555501d1b271dd084c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Feb 6 12:08:43 2009 +1000

mi: change custom handlers to internal events

This should re-enable DGA, but XQuartz needs to be changed to internal events too now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit bdc262701a37a0c12ead810d63fa99a26cbb82ec  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Feb 2 22:39:37 2009 +1000  

dix: remove un-used getValuatorEvents and countValuatorEvents from getevents.c  
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit 763848d3ab84b4e33a0254120c44b5a1877c819d  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Feb 2 17:20:17 2009 +1000  

Input: change processing API to InternalEvents.  

Don't pass xEvent* and count through to processing, pass a single  
InternalEvent.  

Custom handlers are disabled for the time being. And for extra fun,  
XKB's pointer motion emulation is disabled. But stick an error in there so  
that we get reminded should we forget about it.  
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit 0b4066c116e07918a13dc6b4159df7ac9eb92b4b  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Feb 2 17:18:16 2009 +1000  

xb: _XkbFilterRedirectKey needs to pass InternalEvents down.  
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit 085d50360863ccc8280cd3eccea2bcb4f3dd9a14  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Feb 2 16:56:52 2009 +1000  

dix: Fix PostSyntheticMotion to use a DeviceEvent for posting.  
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit 155986a93dc7a4e78d6a060ca3038d5fa5d8753c2  
Author: Peter Hutterer <peter.hutterer@who-t.net>  
Date:   Mon Feb 2 16:06:15 2009 +1000  

   dix: CheckPassiveGrabsOnWindow moved to internal events.  
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>  

commit 1c38abd4b136301008ba77d4e68aea34508f4c22  


Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35625
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 2 14:54:34 2009 +1000

dix: switch DeliverGrabbedEvent to internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit fb858774b80eb75c2f8e81fe893b66d37065fbd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 2 14:44:13 2009 +1000

dix: switch DeliverDeviceEvents to internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3aa9404fcd161e94a80b057a77e47afe428a56d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Feb 2 14:00:41 2009 +1000

dix: switch DeliverFocusedEvent to internal events.

And because of xfree() macro hilarity, rename "pointer" to "ptr". Oh, how we laughed.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8c873e7f514844d1056f2b20e653f1d75f4c327
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Feb 1 20:41:16 2009 +1000

dix: Switch DeliverGrabbedEvents to use internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a3718536989fa7d3358e0b2d859c25fe0a2d93e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Feb 1 20:18:33 2009 +1000

dix: Deliver{Grabbed|Focused|Device}Events API changed to InternalEvents.

With the API change, we can now purge the XI conversion from POE.

Note: this commit breaks DGA even more.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8f94ec6f78856547931cc7d5e3d4672f0f31670
Author: Peter Hutterer <peter.hutterer@who-t.net>
dix: convert passive grabs to use internal events.

deviceGrab.sync.event is now an internal event, and CheckDeviceGrabs and friends is changed over.

Note that this currently breaks some frozen grabs. See towards the end of ComputeFreezes().

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit daa3245c479b19d445a070b5b76ee005915b5335
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sat Jan 31 08:46:43 2009 +1000

dix: fix EnqueueEvent to work with internal events.

Note that we're only partially switched to internal events. The event in the devices' event queue (dev->deviceGrab.sync.event) is still an XI event. The events in syncEvents are InternalEvents only now.
This also implies fixing CheckVirtualMotion to work with internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 75595ba4aa9c3823ffe3b3388ce088929824816f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 15:14:46 2009 +1000

Xi: make ProcessOtherEvents more InternalEvent aware.

Get rid of the deviceValuator processing and a few other things, but still drop back into XI before checking device grabs or doing anything else.

NoticeEventTime now needs to take InternalEvents, and while we're at it, change NoticeTime from a macro to a function.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3a02e538dbdb3cd482e01baeaf2aba2ddb7731df
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 14:59:22 2009 +1000

dix: update CheckMotion to deal with DeviceEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8829d966a6baeb05d322b60531c59366b58f4514
Xi: support InternalEvents in UpdateDeviceState, parts of POE and EnqueueEvent

Note that this breaks DGA. Life is tough.

EnqueueEvent is a somewhat half-baked solution, we immediately drop back into XI and store them. But it should in theory work.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Don't let the dce be random data.

commit 007e93c869325cafcc29d975b356dbb8e7cd2ac1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 14:35:22 2009 +1000

xkb: Switch the xkb event processing path over to InternalEvents.

Before dropping down into the DIX, convert back into XI events. This is a temporary solution only, until the DIX is capable of handling InternalEvents anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 64ea6078105f73d1b727619fc123920bc7e4a06c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Feb 2 14:15:52 2009 +1000

dix: change eventconvert to always return an array of xEvents

Just alloc the memory on demand rather than doing things with EventListPtrs etc.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4026c63e4eb16481baf1a41ad67cd2556728d40
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 14:34:02 2009 +1000

mi: switch the EQ to contain InternalEvents only.

This gets rid of the nevents parameter. InternalEvents are always a single item per event. Also remove the special DeviceValuator handling in both enqueueing and dequeueuing.

Custom callback handlers are now broken until fixed.
For bisectability, we copy the InternalEvent back into the XI required during POE and friends. Consider this a temporary solution.

Note: Because of misc linker bonghits, Xvfb won't link in this revision.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5a827593f9517fd5593751dd8bd90e611de06c5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 29 15:26:57 2009 +1000

dix: switch event generation to InternalEvents.

GPE, GKVE, GProxE generate InternalEvents now.
DeviceClassesChangedEvents generates an InternalEvent now, but incomplete! We need to tack on the information about the new SD in the ClassesChanged events.

Note: To make the progress bisectable, we drop back into XI events at the end of the Get*Events functions. So the rest of the server still uses XI events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 00b03683d0e5cda40fa23b9e6a83d7227f86f5d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 14:31:08 2009 +1000

dix: Add temporary conversion function ConvertBackToXI.

Until the InternalEvents are used throughout the server, we can use this one to drop us back into XI la-la land where every event is the wire format.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 269d4d9f2e86fde8c6a28ef0293fb0e44b577886
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Sun Feb 1 09:57:27 2009 +1000

dix: add GetCoreType and GetXIType.

Convert from an InternalEvent type to the matching core/XI type. Currently only for a few events, those we actually need in the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 656491921e17b2371057041f4551ad6165067551
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 28 15:27:38 2009 +1000
dix: add InternalEvent -> core/xi event conversion routines.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e7867d12541ef9683d5d7fc766e918c13a742981
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 23 15:37:23 2009 +1100

include: add XInternalEvent.

This is the event we want to feed into the EQ and process on the way through. Only applies for input events for now.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 10dcf3ed9c543a6811340567e586ee0e476fcf61
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date:   Fri Feb 20 15:22:35 2009 +0000

Cygwin/X: Fix keyboard layout mapping for Latin American keyboards

Fix keyboard layout mapping table entry for Windows keyboard layout 0x80a (Latin American), layout should (now) be 'latam', not 'la' which is Laos

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit 9531b96470a2f812eb3fa0d1e10419331842496
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sun Feb 22 00:41:52 2009 -0800

XQuartz: DefineInitialRootWindow is gone

commit c7c50157b5137a147e69abb70b43a28fac4a9f6a
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sun Feb 22 00:29:48 2009 -0800

XQuartz: quartzKeyboard compile fixes for recent XKB Changes

Seems we're less divorced from XKB than we'd like for now... hopefully not having any rules installed will still let us override things the way we want to...

commit 61abf3189f3f97ee5228d45c035dbd0c0249f844
Author: George Staplin <gstaplin@apple.com>
Date:   Sat Feb 21 22:33:10 2009 -0700

XQuartz: GL: Change from xalloc to xcalloc to potentially avoid uninitialized data in the __GLXAquaContext.
XQuartz: GL: Fix a bug with an uninitialized GLX data structure.
This was causing a crash randomly, due to random memory contents.
Use xcalloc to prevent this in the future, due to future changes or mistakes.

Set the drawableType to include GLX_PIXMAP_BIT and GLX_PBUFFER_BIT.
The new libGL supports these.

Set the max Pbuffer width/height, based on the results of a test program.
We may someday want to revisit this depending on what users need, so that
we create a CGLContextObj, make it current, and call glGetIntegerv to
gather the information at runtime.

Add Extensions section to xorg.conf man page
Extensions section was added in X11R6.8.0 and documented in the release notes:
http://www.x.org/archive/X11R6.8.0/doc/RELNOTES2.html#3
but never made it into the man page.

Also fix a bonus typo.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

XQuartz: Fix the new ProcAppleDRIDestroyPixmap code REQUEST_SIZE_MATCH.
It had a copy and paste mistake that I didn't notice. :/
It was using the CreatePixmapReq.

Also add a missing B16 to the end of the length for the DestroyPixmapReq struct.

Now the AppleDRIDestroyPixmap request seem to work.

(Cherry picked from commit c7e338330943e0d03a99328c740540d3f018d20)
commit 225853d5d1d1fb610261ab0c295b1b5a96ce177d5
Author: Dan Nicholson <dbn.lists@gmail.com>
Date:   Thu Feb 19 06:45:05 2009 -0800

    xkb: Use cached XKB keymap when rules haven't changed

    Rather than compiling a new keymap every time InitKeyboardDeviceStruct
    is called, cache the previous keymap and reuse it if the rules have not
    changed.

    Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
    Acked-by: Daniel Stone <daniel@fooishbar.org>
    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 64e595d12e05c4df56b0230cc57924b9beb274d3
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 19 09:18:53 2009 +1000

    dix: check if keybd->key is valid before getting the keyboard state.

    For floating SDs, GetPairedDevice() returns the SD itself, hence keybd->key
    may be NULL.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e0a451eb7cc812f11db3614b730ba0f07d6ae18c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Feb 17 19:37:22 2009 -0800

    Obsolete InputDevices keyword in xorg.conf Files section

    Was only used to provide a list of input devices that XF86-Misc could use,
    now that XF86-Misc is gone, was parsed and logged, then completely ignored.

    (Depends on previous patch that introduces OBSOLETE_TOKEN in parser to
    make obsolete keywords like InputDevices & RgbPath be non-fatal errors.)

    Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
    Acked-by: Adam Jackson <ajax@redhat.com>

commit d2cf562bbad553d7f09b70202134f5b6ada0114e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Feb 17 18:48:52 2009 -0800

    Make RgbPath keyword in xorg.conf a non-fatal error

    Xorg shouldn't refuse to run just because the user has an xorg.conf that
    had the previously-used RgbPath keyword in it.
Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 344b1f2b25d627bd7d802c5831b6a72d22ffe34
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Tue Feb 17 23:25:14 2009 -0800

configure.ac: Support version strings like W.X.Y.Z-XXXXXX
(cherry picked from commit 43967514cd57ad836d7f85c8e9e58ada07e0232)

commit 67faf41b3f3e0ed66e35e3c176a9adb37ff1a759
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Tue Feb 17 23:24:25 2009 -0800

XQuartz: Don't need GlxSetVisualConfig any more

    Fixes build failure resulting from 516f8e2cad1311a09764e2633644188d1e3c31bb
    (cherry picked from commit 066b17028a35956a089815716e38571f305469c5)

commit b349a764e98f0d8f221190157ffa0904b91beca5
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Feb 17 09:59:17 2009 -0800

xinerama: Put the proto version in the code instead using proto headers.

    Proto headers updating resulting in the server advertising new versions is
    broken. This should be applied to every extension.
    This fixes the build against slightly-older xineramaprotot.

commit 5394b7e66224d20888dd4020f5cb8ca930720fb4
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 6 06:34:35 2009 +0100

    Eliminate the shadow clear on transform change
    When the crtc transformation changes, the entire crtc must be repainted.
    This was being done by clearing the shadow and then painting the rectangle
    containing the screen image; the clear being required as the screen image
    may not fill the crtc. When changing the transform rapidly, this leads to
    flashing. Eliminate the clear by painting the entire crtc instead of just
    the screen rectangle.
    Signed-off-by: Keith Packard <keithp@keithp.com>

commit 76f18b94bd2719a8199334742d021c4d0806187d
Author: Keith Packard <keithp@keithp.com>
Add XkbDir to Files config file section

The XKB base directory was not configurable through the config file.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 123093996507c4d3b6dc457240ce00f8ac42f410
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Feb 17 12:59:16 2009 -0500

RANDR: Fail softly on GetPanning if the screen can't do it.

Just return a zeroed-out reply in that case. This is unambiguous, and
distinguishes "you didn't name a CRTC" from "you named a CRTC that can't
do panning".

commit b2ceea3635ec05dca9d4aa2f823b96ae9fce7fe8
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Feb 17 19:40:59 2009 +0100

Revert "exa: the extent of the valid region is probably much larger than that of the pending damage."

This reverts commit 97c1cbc70216366e92b9371de608ce94e60aa874.

- Sorry for the thinko, pending damage is often not fragmentated.
- Should the dst region become fragmentated, you actually want to copy more to unfragmentate it.

commit 3175646b10c602d17d5dd37bdace7c1c7ee92b3d
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Feb 17 19:06:35 2009 +0100

exa: exaPixmapDirty should use official damage functions.

- Otherwise other users will not be notified of damage.

commit 97c1cbc70216366e92b9371de608ce94e60aa874
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Feb 17 19:01:44 2009 +0100

exa: the extent of the valid region is probably much larger than that of the pending damage.

- Since the default has been changed from nothing to everything.

commit 4039603413f9f46d7f725463a70b4a51838e0049
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Tue Feb 17 08:27:32 2009 -0800
glx: Initalize best_score before calculating visual scores

This bug was pointed out by Peter Åstrand.

Signed-off-by: Ian Romanick <ian.d.romanick@intel.com>

commit bac1354b164ceef7b921a2d17c4a198b42aeccf
Author: George Staplin <gstaplin@apple.com>
Date:   Mon Feb 16 17:33:19 2009 -0700

XQuartz: Add driWrap.h that I missed in the last commit.

This should complete the GLXPixmap commits for now.
(cherry picked from commit 7e99b55651bf7f6275bb227d02f203fb885a67a2)

commit 95052caa2c8a79981cdc7936888a8a47e09415e0
Author: George Staplin <gstaplin@apple.com>
Date:   Mon Feb 16 17:22:18 2009 -0700

XQuartz: Add support for GLXPixmaps to the AppleDRI.

This involved wrapping some GCOps to get the proper behavior
when using X11 raster ops mixed with OpenGL (see driWrap.c).

This extends the AppleDRI protocol with create and destroy pixmap
functions.

The dri.c code has been extended quite a bit to enable this, and
to initialize the wrapping of CreateGC for GCOps.

This has been tested with tests/glxpixmap and proven to work with
the new libGL. Existing applications seem to work fine too. Redraws
all appear to be correct.

There may be some bugs lurking that I haven't found yet. I plan
to drive them out by extending the libGL test suite.
(cherry picked from commit 630518766b01022c49fe3a9e7d501808f71b06e2)

commit 970725d23e83285d41e3f7cab678a825d9cc25cf
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Feb 16 18:44:00 2009 -0500

kdrive: Nuke dead AGP and VGA code. (#19921)

commit a932744d983845f81791045cf0dfb6a359790158
Author: Chris Ball <cjb@laptop.org>
Date:   Mon Feb 16 18:27:26 2009 -0500
Build fix, remove export of pciBusAddrToHostAddr

a9d7d659.. (PCI: Remove pciBusAddrToHostAddr and associated nonsense) removes pciBusAddrToHostAddr(), but not its prototype, resulting in:

`./.libs/libxorg.a(sdksyms.o):(.data.rel+0xe64): undefined reference to `pciBusAddrToHostAddr`

Signed-off-by: Chris Ball <cjb@laptop.org>

commit ab331aa76f08c6a85a519b2deaafa4ce8a070e53
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Feb 16 21:56:03 2009 +0100

xfree86: ModeDebug is a boolean, not a string

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit f5bf1fda36163d5e2f1b9b51df96326ebb0e9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Feb 13 09:56:22 2009 +1000

xkb: Fix wrong colour reference in XKB geometry copying. #20081

base_color and label_color need to reference the color in the destination, not in the source.

X.Org Bug 20081 <http://bugs.freedesktop.org/show_bug.cgi?id=20081>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit a9d7d659a05e4b6b25e6acd2ce59926911aac0f7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 13 18:36:27 2009 -0500

PCI: Remove pciBusAddrToHostAddr and associated nonsense

This was all a glorified no-op. We rely on pciaccess to create device maps anyway, so we should have no reason to care about what the host address is.

Acked-by: Ian Romanick <ian.d.romanick at intel.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit be8c3d4022faa7d169778ea10d1f11e8f90e1c0c
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 13 17:54:33 2009 -0500

Linux: Remove dead USE_DEV_FB #ifdefs

commit 51ae4d6bbfd95cac8a9cdefcd6f2ffbe21a6cb9d
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Mon Feb 16 12:08:28 2009 -0800

glx: Add comments around some extension string weirdness

commit caa5310e163b040689383f6d25ccab5ef1b2e215
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Mon Feb 16 20:41:14 2009 +0100

exa: reintroduce src rect optimisation, with a slightly higher threshold.

- I got some feedback on gtkperf line test regression.
- The increased threshold should ensure the destination optimisation is dominant.

commit 46eeaf82e228df1e5971a24dc815566516e19be9
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Mon Feb 16 17:17:14 2009 +0100

exa: fix performance regression from 736b6fd2c941b6276066cd1503523edeb7bf3d

- The src optimisation is more aggressive and possibly harmful in light of the new initial state of pixmaps.
- There is now actually a performance improvement by almost always keeping the number of rects low.

commit 6198373ff2a8e36113bb1dcaeb975530ff0b86
Author: David Nusinow <dnusinow@debian.org>
Date: Sun Feb 15 18:36:01 2009 -0500

xorg.conf (5) refer to mousedrv (4). Debian #394058

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 2a8b8077d8f6001eb57deba60e1009fc99c28668
Author: Alan Hourihane <alanh@vmware.com>
Date: Mon Feb 16 11:39:34 2009 +0000

dri2: support glXWaitGL & glXWaitX by copying fake front to front and vice-versa.

commit ddb8d8945d1f44d16adc366b6612ee20ae813f7
Author: Peter Åstrand <astrand@cendio.se>
Date: Fri Feb 13 10:23:28 2009 +0100

xserver: Avoid sending uninitialized padding data over the network
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b735a4b4951b607e61468236f24d5fd86c1f7f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 14:29:23 2009 +1000

   dix: Remove lastEventMask variable, substitute with a #define.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 772e0f9159ca3ab8fb4e03ed6fee3cc93697724
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 13:38:34 2009 +1000

   dix: Don't set core events in SetMaskForEvent.
   Rather, modify the two callers to call separately for the two different events. Unexport SetMaskForEvent too.
   And while we're at it, get rid of the MotionFilter macro, because it's one half confusing and one half pointless.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 58f3127919ba5fch3bb467b6913c28ee1127c82b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 08:37:49 2009 +1000

   Xi: remove dynamic mask assignment for XI events.
   They end up being the same anyway on startup, so let's not have a dynamic mask assignment mechanism and instead just hardcode them already.
   Also unexport SelectForWindow and remove the valid_masks parameter. We can check that before calling, since there's only one caller anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7057a9a97b9316b1de954d05451e04223fdd9fd8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Feb 12 22:14:48 2009 +1000

   Remove two more define XKB leftovers.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 736b6fbd2e941b6276066cd1503523edebe7bf3d
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Sun Feb 15 17:44:51 2009 +0100
EXA: Try to prevent the valid regions from growing too many rects.

This helps contain region management overhead in some pathological cases, see e.g. http://bugs.freedesktop.org/show_bug.cgi?id=16647.

Signed-off-by: Michel Dänzer <daenzer@vmware.com>

commit 45e14f515337159e600a47ebf349692751552af8
Author: Chris Ball <cjb@laptop.org>
Date: Fri Feb 13 20:32:02 2009 -0500

Build fix for xf86EdidModes.c

Commit 20ac314.. forgets to declare hsize/vsize/refresh.

commit ae68be312619ad3bcb2d550a6267d38cce3284f5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 13 17:25:32 2009 -0500

Input: Don't re-block SIGIO in xf86SigioReadInput()

It's already blocked on the way in, because we asked for it to be blocked at sigaction() time.

commit c18f454e4a9cab03e5d55b6d761a4a735e943b6b
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Feb 12 18:27:48 2009 -0800

Query the DDX in ProcRRGetScreenInfo.

This is the RandR 1.1 version of GetScreenResources and needs to re-query the DDX to see if the mode pool changed.

Fixes Launchpad bug #325115.
Signed-off-by: Adam Jackson <ajax@redhat.com>
(cherry picked from commit 660c2a7d4c6cb52fd0992e9d2008a24805dc8c02)

commit 20ac3140ce16af460992b83aa8aef4afe28c2ee
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Feb 9 13:36:05 2009 -0500

EDID: Hack for 1366x768 in standard timing descriptors

All you get for standard timing descriptors is horizontal size in multiples of 8 pixels (which means you can't say 1366) and height in terms of aspect ratio (which means you can't say 768). You'd like to just fuzzy-match this by walking the DMT list for sufficiently close
modes, but you can't because DMT is useless and only defines a 1360x768 mode, because it's also specified in terms of character cells despite providing pixel exact timings. Neither can you use CVT or GTF to generate the timings, because they also believe that modes have to be a multiple of 8 pixels.

You'd also hope you could find a timing definition for this in CEA, but you can't because CEA only defines transmission formats that actually exist. So there's 480p, 720p, and 1080p, but no 768p. And why would there be, after all, the encoded signal is never 768p so obviously no one would ever make a display in that format.

So instead, make a CVT mode since that's likely to be handled well by just about everything, smash the horizontal active down by 2, and shift the sync pulse by 1. Underscanning the hard way.

Pass the suicide.

commit bcadfbbed6f1e1f901c2459f60f94a0da506bd90
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 13 14:06:07 2009 -0500

  RANDR: Validate entire mode list for interlace and doublescan

  Otherwise drivers have to refuse interlace twice: once in the output
  config, and once in ->valid_mode() to catch output and config modes.
  If you can't do interlaced modes, asking nicely for it in the config
  isn't going to suddenly make it work.

commit a26c77f432d2e85a2665fc36fca25143460c476
Author: Alan Hourihane <alanh@vmware.com>
Date:   Fri Feb 13 13:45:08 2009 +0000

glx: fix retval checks when failures occur for drawable creation.

commit a38ca0063c91ef221f20bf0c4ac0dc84ce07d557
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date:   Fri Feb 13 14:44:53 2009 +1030

  xext: Use proto header rather than the Xext include file, this prevents userspace being pulled in causing issues

  Signed-off-by: Benjamin Close <Benjamin.Close@clearchain.com>
  Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
  Acked-by: Daniel Stone <daniel@fooishbar.org>

commit d62c085f36892c327785e85571bd2c7c70513ac6
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date:   Fri Feb 13 14:44:09 2009 +1030
dix: Remove includes which are not actually used directly

Signed-off-by: Benjamin Close <Benjamin.Close@clearchain.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 340f1576afcdaf883d185da356e5d6282aa65e19
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 12 10:44:27 2009 +1000

dix: remove DefineInitialRootWindow()

Obsolete.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c178c3f814f7666f43cbf47d24c7543b289f9b1a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 12 15:29:38 2009 +1000

dix: doxygen-ify enterleave.c

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ce696a2b7928ee497b6a0df3602fc70dec83a629
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Feb 12 15:05:57 2009 +1000

Doxygen-ify bits of events.c

commit 8364bf7374aa5f6d991700f0c02921dc6c638c9f
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 11 16:06:36 2009 +1000

Document the event masks.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ed9d58c3c25ee1b3dedbc4c116823c263ccf164d
Author: Simon Thum <simon.thum@gmx.de>
Date: Sun Feb 8 17:21:09 2009 +0100

dix: refactor pointer acceleration

The algorithm is split in a 2D-specific and a general part.
This potentially allows to accelerate more than just screen motion.
A state machine is introduced to make code more explicit and readable.
It also improves handling of ‘phase 1’ mickeys when axial correction kicks in (corner case).

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ac470dfb4fadaa0b28b6f88b57f4f13a20842b897
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Feb 12 18:34:22 2009 -0800

Check for and report errors writing xorg.conf.new from Xorg -configure

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit bd713794ceaa1b289052255462103c0a2d50f04
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Feb 12 18:23:59 2009 -0800

Correct error message if specified config file is not found

By making the "Unable to open config file" header a warning, it was not appearing with the filename when a config file was specified and not found. Now we make it an error message again, but only issue the error if a filename was specified - if none was specified, then we don't even issue a warning, just the "Using autoconfig" info message.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

commit d229ba7068f0a0fd1bc8b30b7ccf2fceb2e7e8b97b
Author: George Staplin <gstaplin@apple.com>
Date: Fri Feb 6 12:55:09 2009 -0700

XQuartz: xpr: The dri.c code for pixmaps was wrong in several ways. They weren't being exported correctly by Xplugin.

This should fix a bug with the surface for a window, when an export fails.
Before the export could fail and leave behind an invalid (f Freed) pointer in the dix privates.

I have an idea of how to fix the GLXPixmaps now without using CGLSetOffScreen.

This work is a step towards that. The Xplugin will need a small patch to fix an issue that this change brought forth.
(cherry picked from commit 58c4116c47543b5e30c2232e7bee8efc0b9be176)

commit b17d6bed97edd0773d0845f93f842444b7de0ae
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Feb 12 15:33:47 2009 -0800

XQuartz: Fix copyright info in Info.plist to be prettier when viewed in Finder
Enable pbuffers

If a driver does not actually support pbuffer rendering, it can just not enable any pbuffer fbconfigs.

Xming: Update keyboard layouts mapping table

An update to the keyboard layout mapping table which updates some no longer valid keyboard layout names (e.g. de_CH -> ch -variant de) and adds a few more reported layouts

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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Xming: Check clipboard selection ownership after taking it

When you take ownership of a selection you should always check you got it (X11 ICCCM gospel).

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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Xming: Fix a memory leak in clipboard integration code

Free the memory allocated for ReturnData in FlushXEvents().
Xming: Fix prototype for winProcessXEventsTimeout() in clipboard integration code

Function 'winProcessXEventsTimeout()' is declared 'static Bool' and defined 'static int' (correct) in 'winclipboardwndproc.c'. This has been wrong since dot, but luckily was of no significance.

Xming: Improve clipboard integration startup in XDMCP mode

Improve clipboard integration startup in XDMCP mode
Stop the "Clipboard not yet started, aborting" message from spamming the log.

Xming: Select events correctly in clipboard integration code

The clipboard should only select PropertyChange events and do this on the correct window, the messaging window for the clipboard not the root window!
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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit b997b3849d902894dd5b38673b73a23a47edf502
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Tue Feb 3 15:48:04 2009 +0000

Xming: Add Colin Harrison to copyright and authors list for clipboard integration files
Add Colin Harrison to copyright and authors list
Adjust license text for multiple authors

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 5ff289834d7445cc6f60dbb1cf18423e7236311a
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 19 17:42:54 2009 +0000

Cygwin/X: Place prototype for winSelectIcons() in a header file
Fixes warning as prototype is now in scope for the definition

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit ab2c98b86f61c3968581dfdad8b67432082feec78
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 19 17:36:58 2009 +0000

Cygwin/X: Place prototypes for winCheckKeyPressed() and winFixShiftKeys() in a header file
Fixes warnings as they are now in scope at the definition

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit cc7a4c7c6e051fceacb32997740d83fc0655414e
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 19 17:29:28 2009 +0000

cygwin/X: Remove an unused variable to fix a warning

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 7c2fb098b206c0fb97c18ccee8f88387cd0e0e82a
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 19 17:22:59 2009 +0000
Cygwin/X: Fix several prototypes to return HICON

Fix prototypes of winOverrideIcon(), winTaskbarIcon() and winOverrideDefaultIcon() to return HICON
Also use HICON type in WINPREFS structure
Remove various casts these changes make unnecessary

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 19b3e44ce51cc2f74ba388cb2cd3a26467848e9a
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 19 17:03:23 2009 +0000

Cygwin/X: Fix -Wold-style-definition warnings

Fix old-style definition warnings caused by definitions with empty parameter lists "()", which should be "(void)" to indicate the function takes no parameters, rather than unspecified parameters

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 734b23e5982e171031077a2d5d6b5dc2a12e12
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Feb 11 14:31:17 2009 +0100

fb: add fbDoCopy and fbCopyRegion compatibility wrappers.

commit 619c4d60eb3a8a51a8300ccf8ab5b98a688e6e12
Author: Eric Anholt <eric@anholt.net>
Date:   Sun Feb 8 12:37:50 2009 +0100

glx: Replace broken GLX visual setup with a fixed "all" mode.

With trying to match depths so that you didn't end up with a depth 24 fbconfig for the 32-bit composite visual, I broke the alpha bits on the depth 24 X visual, which angered other applications. But in fixing that, the pickFBConfigs code for "minimal" also could end up breaking GLX visuals if the same FBconfig was chosen for more than one X visual.
We have no reason to not expose as many visuals as possible, but the old "all" mode didn't match any existing X visuals to GLX visuals, so normal GL apps didn't work at all.

Instead, replace it with a simple combination of the two modes: Create GLX visuals by picking unique FBconfigs with as many features as possible for each X visual in order. Then, for all remaining FBconfigs that are appropriate for display, add a corresponding X and GLX visual.

This gets all applications (even ones that aren't smart enough to do FBconfigs)
get all the options to get the visual configuration they want. The only
potential downside is that the composite ARGB visual is unique and gets a
nearly full-featured GLX visual (except that the root visual might have taken
the tastiest FBconfig), which means that a dumb compositing manager could
waste resources. Write compositing managers using FBconfigs instead, please.

commits 7bbf05d9a75b536a5321abf5f37852b8f109ed
Author: Shunichi Fuji <palglowr@gmail.com>
Date: Tue Feb 10 14:44:18 2009 +0900

dix: build fix if PANORAMIX is not defined.

Signed-off-by: Shunichi Fuji <palglowr@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 4844bf58f296b2851be4e6b955c3a68d02437a9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Feb 4 11:50:18 2009 +1000

cfg: if we can't connect to HAL, listen for a startup notification.

If HAL isn't available when we try to connect, the registered NameOwnerChanged
signal handler waits until HAL is available. Once we connected to HAL, we
unregister the signal handler again.
This allows HAL to be started in parallel or after the server has started.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 5b2bbfffc12cd7d29e4200943f8736bd6336ae4aa
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 30 16:46:27 2009 +1000

dix: deduplicate SyntheticMotion.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 34820f9c1304891bebb4bff6a492288aec4fc0d1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 30 16:37:19 2009 +1000

dix: remove XineramaChangeToCursor.

It's nearly identical to ChangeToCursor now anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commits 942eae6868b8b0f343b6aa921ddf77e8bb70798a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 16:25:22 2009 +1000

dix: Remove XineramaCheckPhysLimits.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bf044f6d10ad9f2baca91a2f04e82dc1af2657cd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 16:14:54 2009 +1000

dix: reduce redunancy in XineramaConfineCursorToWindow.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cdce5699f085e717ee1a2ed8390746dfcb9ddadfd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jan 30 16:09:23 2009 +1000

dix: Get rid of XineramaCheckVirtualMotion.

Yes, this is an ugly piece mess of #ifdefs, but it beats having two nearly
two nearly identical functions.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1cb5afdf1ef53e72e0eeef28f6197bf5e86ef758
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Feb 8 18:59:17 2009 +0100

dix: always NULL pGC->tile.pixmap in Create{Scratch}GC.

commit 6fd8fe9e9cb993f9b733cf7d878bc324acd09aa48d
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Feb 8 18:43:15 2009 +0100

exa: fix exaValidateGC.

   - use DEST in the createPixmap wrapper, because stipple already takes MASK (in case someone uses swappers).
   - Anticipate some of the less common situations when fbValidateDrawable will access tile related pixmaps.

commit 30daba6903378dd47f386c0012a0667fd2368f3e
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Feb 8 02:08:13 2009 +0100

exa: All fallbacks should have a GC, remove some code.

   - I did some testing with full fallbacks forced by the driver.
   - I ran rendercheck, expedite and the (full) x11perf test suite.
- Thanks to ajax for pointing out this should be unneeded.

commit d591c7d1b87c61ee8add2fcee689e35cf097eed4f
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Feb 7 20:47:54 2009 +0100

   mi: kill a few warnings

commit 00226d0b589595edd45c75e7e28237334a8883b1
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Feb 6 20:56:49 2009 +0100

   mi: clip exposures to pGC->clientClip.

commit ffa72793e25f19a388a1369708f472921f721284
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Feb 6 20:47:01 2009 +0100

   exa: Calling exaMarkSync after UTS is the drivers responsibility.

commit da086901c6579e41b28b1418fa12e88b2744fc87
Author: Matt Turner <mattst88@gmail.com>
Date: Fri Feb 6 18:31:12 2009 -0500

   Remove unused barrier macros on alpha.

commit 68665d78e72c4e564073d66a0f59ac8d3f5fd756
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Thu Feb 5 17:07:31 2009 +0100

   exa: don't use fbCopyNtoN

commit 2e76958d304a3c4080d62f32449724eeb9b95d93
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Wed Feb 4 19:48:03 2009 +0100

   fb: move some code to mi

commit f06bde3d4bf9a0f245dafa6c65cd98f8e0c7dfdfc
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Jan 31 19:57:07 2009 +0100

   exa: create ExaCheckGetImage

commit 258fc4b106df7b583999f97ca4d4a7a11569b6
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Jan 31 19:40:48 2009 +0100
exa: wrap the remainder of exa_unaccel.c

commit 6fabf24949bf38b69e3c9c6c9718ee8b12fc6e1
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Jan 31 19:25:20 2009 +0100

exa: use proper wrapping in exa.c

commit 015c99a4ad57f5a1b68054ef0b070e1f0e1fed0
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Jan 31 18:53:52 2009 +0100

exa: properly wrap GC functions

commit 5e6a06fe691db63ccf2dc7161a1f6c71c09741b7
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Jan 31 16:30:31 2009 +0100

exa: add GC private

commit 5cc67ae994c066dca78072ad8a819c3b602d8bab
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Jan 30 19:32:33 2009 +0100

exa: kill of exaImageGlyphBlt

- It serves no obvious purpose, yet it directly accesses many fb
  symbols.

commit 6483834200fab90164c27c72d4710014edeb4479
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Jan 30 18:40:46 2009 +0100

exa: Remove one of the many calls directly into the fb layer.

commit f112d6bf59964f317ab236221f7bce7fe2603ab8
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Feb 6 18:30:43 2009 +0100

EXA: Try harder to keep current pixmap copy up to date in exaMigrateToward*.

This is probably required, but apparently not sufficient, for making migration
heuristics other than "always" work correctly again. Not that I really care
about them...

commit 3948b523893d3d44b6a088340c4252e969613769
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Fri Feb 6 11:37:53 2009 +0100
EXA: Guard empty pending region warning by DEBUG_MIGRATE.

It isn't very useful yet while the damage layer calls us for empty operations, mostly confuses users.

commit 9a1d07ecb74b7c3267a6910af66ada917a525110
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 20:20:24 2009 +0100

Fix "warning: cast from pointer to integer of different size"

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0e15697b53c9448ce9911aa6499b2ea0bda92af6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Feb 4 10:11:13 2009 +1000

dix: die if we can't activate or init the VCP/VCK.

If we have a busted xkb setup, the XKB initialization on the core devices fails and leaves us with dev->key->xkbInfo == NULL. This in turn causes segfaults lateron.

Return BadValue when the XKB configuration for a master device failed, and if that happens for the VCP/VCK, die semi-gracefully.
The VCP init can only fail on OOM.

Reported by Aaron Plattner.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>
Acked-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit db836715198a445dc3b32c3df0610f700930483f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Feb 4 23:27:32 2009 -0500

Revert "Bus: Remove xf86SetAccessFuncs() and related machinery"

This reverts commit 2fe79990e31ac684637ca3c47198ee0ceed10abe.

Reminder: nvidia uses this, because other parts of RAC are broken in worse ways, and it needs to disable that.
Bus: Remove xf86SetAccessFuncs() and related machinery

Only mga was using this, and even then only behind an ifdef that no one ever built. Not a great idea in the first place.

commit 9ff6180161267e71ae750498da0ec4889cd5e260
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 06:23:09 2009 -0500

Bus: Delete some obfuscatory macros

commit 8eca37cb8934e79f02291460eb7b49a5d528f391
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Feb 4 22:48:52 2009 -0500

Bus: Remove unused xf86ExtractTypeFromList

commit b013111e98d50f5962e9b275eb28d969d5e9576e
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 03:14:18 2009 -0500

Bus: make the resource list static.

commit bde028dd8d856f8d47c39e3c6d3731c34c398c74
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 22:58:58 2009 -0500

loader: Remove icache flushes on alpha.

If libdl doesn't already get this right for you, you have two problems.

commit 910a1e88d23e0b7e4ca4679ab50a883a918f2590
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:54:07 2009 -0500

loader: Remove a vestige of archive support

commit 366f23c6eb504fc23112f121769bcb719948474f
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:53:05 2009 -0500

loader: Remove useless call to LoaderGetOS

We know what OS you're running on anyway, it's printed in the uname string at the top of the log.
commit 05e415a5a3f376e28955be3bf976390e8631e25f
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:52:07 2009 -0500

  loader: Simplify loader magic

commit bf1ca06a1693cb5415a152936939ce3b088a022
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:51:35 2009 -0500

  loader: Make a comment slightly less stupid

commit 499908aeca9a31692c787070e23bfa92d1b32a4
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:50:00 2009 -0500

  loader: code motion.

commit 28b6b1519c4c526662302fac4ed9b7f540baf4d4a
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jan 26 07:47:46 2009 -0500

  loader: Simplify handle allocation and refcounting.

commit 0bad0552b4d410529ab51d618af8d08c5aeaa71
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Feb 4 17:20:24 2009 -0500

  XKB: Remove -kb and +kb from -help text and man page.

commit 7968823c02615e1080c0d3f34dcebe14ea1771
Author: Keith Packard <keithp@keithp.com>
Date: Tue Feb 3 20:18:37 2009 -0800

  Handle the combination of panning and crtc transforms

  This patch gets the shadow scanout buffer repainted on panning area changes.
  It does not, however, track the mouse correctly.

  Signed-off-by: Keith Packard <keithp@keithp.com>

commit 763df9eecec79a867978efc5138d8635a46c1a0d17
Author: Keith Packard <keithp@keithp.com>
Date: Tue Feb 3 20:15:41 2009 -0800

  Damage re-used shadow scanout buffer using new transforms.
When the shadow scanout buffer can be re-used, the underlying framebuffer area must be damaged so that the scanout will be repainted. This patch delays the addition of that damaged area until after the transform in the crtc has been updated, otherwise the old transform would have been used and the wrong area repainted.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 62fc98cb88e4e8b636f343453fc1168a87c58972
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Feb 3 20:12:42 2009 -0800

Handle matrix computation overflow in RRTransformCompute

If the computation of the composite fixed-point transform for RandR overflows at any point, take the resulting floating point transform and scale that back to fit in a fixed point matrix. This ensures that a matrix will always be available, although perhaps at reduced precision. Someday we should add floating point matrices to Render.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 7a3ddef3bc27982f3558183c74fc8e365cf2e7fd
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 00:07:02 2009 +0100

fbdevHWGetRec() doesn't return the private data

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e04d9ab999978995b06f4b702293b96f69b0e8c3
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 00:08:21 2009 +0100

DBUS_API_SUBJECT_TO_CHANGE is already defined on the command line

dbus-core.c:30:1: warning: "DBUS_API_SUBJECT_TO_CHANGE" redefined
<command-line>: warning: this is the location of the previous definition

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9f60d127b537f2853dcc53903c6ff8c7670ad1b
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 00:07:40 2009 +0100

Fix "warning: braces around scalar initializer"
Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a88995dfb88719ae4a03483dc571dbbe83565285
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 00:03:58 2009 +0100

Make gcc happy: correct third argument of CopyGetMasterEvent()

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit dd3f4e829286e62f4c5c07ee93f9f576876acbf9
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Wed Feb 4 00:02:24 2009 +0100

Fix "warning: cast to pointer from integer of different size"

Add parenthesis around the whole expression.

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 731a907ac21a753f306b53706f689469cefeb953
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Tue Feb 3 23:58:25 2009 +0100

Fix "warning: XXX defined but not used"

generic.c:80: warning: ‘read_legacy_video_BIOS’ defined but not used

Signed-off-by: Tomas Carnecky <tom@dbservice.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc57efffe654c493e9eb62555ccc7926f4a646f1
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Tue Feb 3 23:54:53 2009 +0100

Fix "warning: unused variable XXX"

events.c:4614: warning: unused variable ‘kbd’
xkbUtils.c:361: warning: unused variable ‘maxKeysPerMod’
xf86Events.c:409: warning: unused variable ‘ke’
generic.c:131: warning: unused variable ‘cs’
generic.c:130: warning: unused variable ‘size’
xf86RandR12.c:591: warning: unused variable ‘crtc’
ISO C90: Move declaration to the beginning of the function

devices.c: In function ‘DoChangeKeyboardControl’: devices.c:1768: warning: ISO C90 forbids mixed declarations and code

mi: don’t call UpdateSpriteForScreen if we have Xinerama enabled. #18668

In Xinerama all windows hang off the first root window. Crossing the screens must not reset the spriteTrace, otherwise picking fails and events are sent to the root window.

X.Org Bug 18668 <http://bugs.freedesktop.org/show_bug.cgi?id=18668>

Don’t enable XAA offscreen pixmaps with Option ”XaaOffscreenPixmaps” ”no”.

xf86IsOptionSet is rarely the right function to use for boolean options because it returns TRUE whenever the option is present, even if its value is ”no”, ”off”, ”0”, etc.
Constify atom name strings

Changes MakeAtom to take a const char * and NameForAtom to return them, since many callers pass pointers to constant strings stored in read-only ELF sections. Updates in-tree callers as necessary to clear const mismatch warnings introduced by this change.

Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
Acked-by: Peter Hutterer <peter.hutterer@who-t.net>
Xi: create well-known atoms on demand, rather than preinit them

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: If the MD doesn't have a key/kbdfeed class, init the keyboard.

This fixes crashes on mouse/keyboard combos where the mouse is both a keyboard and a mouse. Upon copying the SD's key info into the VCP, the NULL xkbInfo of the VCP would crash the server.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xi: remove now obsolete oldXkbInfo.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

dix: add SetBit(arr, bit) and ClearBit(arr, bit) to include/inputstr.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xext: rename shape's EventType to ShapeEventType to avoid name clashing.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Xext: rename shape's EventType to ShapeEventType to avoid name clashing.
Xext: rename saver's EventType to SaverEventType.

Avoid namespace clashing with the internal events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8460425740c72e58bcb897557f033e2836251160
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 10 12:31:59 2008 +0000

render: rename SetBit to RenderSetBit.

Avoiding namespace collision with the SetBit macro soon to be used in the input code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 940a7aeebc9b042b0208ee475ef162c485ac2274
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jan 27 15:52:49 2009 +1000

include: remove now-unused sempahore macros.

Obsolete with the new enter/leave model.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f5c7f8a3ab5723b6c1c3cd21b90a87fd7f37cb7f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Feb 2 12:30:57 2009 -0800

XQuartz: GLX: Fix accidental exclusion of glBlitFramebufferEXT on Leopard
(cherry picked from commit 8620579483789ae9ac1b68dbef32b70011386de)

commit 5100d829a4d71ce4a9fbc2b81694a1fb90066ccf
Author: Eric Anholt <eric@anholt.net>
Date: Mon Feb 2 10:13:46 2009 -0800

glx: Don't match fbconfigs to visuals with mismatched channel masks.

This fixes at least one known bug, where the depth 32 visual would end up
with a depth 24 fbconfig attached, angering compiz.

commit 4475ae036c3d5a06a6ce88a359ce2a9a8ae9b4f1
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date: Mon Jan 26 13:15:07 2009 +0000

Cygwin/X: Fix compilation for mandatory XKB
Fix a stray '').
Update to use RMLVO interface
Remove g_winInfo.xkb.disable, can never be set since noXkbExtension has been removed
Change to retrieve modifier key state using XkbStateFieldFromRec() from Colin Harrison
Update to use XKB defaults from xkb-config.h

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit e2b4d3d4a1994347979508fb483cd55c2232502
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Feb 1 15:08:02 2009 -0800

XQuartz: GLX: OpenGL.framework on Tiger doesn't have glBlitFramebufferEXT
(cherry picked from commit e01662cadcaa4052e3a5aa82cbaed00a2d0220e0)

commit 66a6fbbfa3af1fd0d91fe61cf2ab299d0e3df46b9
Author: Jim Huang <jserv@kaffe.org>
Date:   Sun Feb 1 09:19:20 2009 -0800

kdrive: Move a close() to the right place so we don't close(-1) normally.

Bug #18343

commit 0055fe66d5f73742cafab868ccdb7a6f36ea1dd5
Author: Manuel Bouyer <bouyer@netbsd.org>
Date:   Sun Feb 1 09:14:19 2009 -0800

netbsd: Force the use of ev56 instructions for register access on ev56.

This avoids 32-bit access which might affect other registers. The linux code
uses gcc flags to get this to happen, but this seems like more of a sure thing.

commit 1375c1b07df114d864a0a06786bc75a3a4f65177
Author: Manuel Bouyer <bouyer@netbsd.org>
Date:   Sun Feb 1 09:12:21 2009 -0800

netbsd: Fix alpha ev6 support.

Bug #19721

commit ad8ffbe7cb50387e6a9cc4a24fca0d9e13b7bfc8
Author: John Hein <jhein@timing.com>
Date:   Fri Jan 30 21:30:35 2009 -0800

Actually require bigfontproto when it's enabled. Bug #13710.

commit 29b3b88dc744f4919c6709747dd7baac47486c5
Prevent double unref of glxdrawables

Found by valgrind. Bug #18917.

commit 60bced687040db76490851d4b459284ce37020e0
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Jan 30 21:44:08 2009 -0800

x11-input.fdi: Add options needed to handle adding USB devices on Solaris

commit 4de5705545792d77c9990bbec3e263a517757a2a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jan 30 20:17:10 2009 -0800

RandR crtc not fetched correctly when primary output is set.

Primary outputs may not have a CRTC.
Loops fetching CRTCs respecting primary output were broken.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f716e3f3445d443cbe6507d27f806e9ad387120a
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jan 30 20:10:21 2009 -0800

modes: Protect xf86_crtc_supports_gamma() from non-RandR 1.2 drivers.

commit 317f2b4a9fe4b606975711bc332166a82db5087d
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Jan 30 19:06:17 2009 -0800

randr: Avoid re-querying the configuration on everything but GetScreenResources.

The new path should only re-query on the other requests when we haven’t
gathered the information from the DDX yet (such as with a non-RandR 1.2 DDX).

Bug #19037.

commit c1f2be1f3fd0c80eb4e85b98140b98aa9311242b
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jan 30 19:14:36 2009 -0800

RandR SetOutputPrimary should work with or without a crtc connected

The test was inverted from the protocol spec, and besides, the test is bogus
anyways.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit dd098501d800571e71d06ffce936635a6c9d44e05
Author: Eric Anholt <eric@anholt.net>
Date: Fri Jan 30 16:17:58 2009 -0800

Move the apple fat binary hacks back to a header file, and make it apple-only.

Signed-off-by: Keith Packard <keithp@keithp.com>
commit 6e49fdd2c839b6244c23ce95c3ae76a1a265b986
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jan 30 15:43:04 2009 -0800

Make RandR CRTC info report panning area instead of just crtc area

This makes the RandR info consistent with the Xinerama info.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ea309e47457156b60aadbf113f04e5b6851029c8
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jan 30 14:19:41 2009 -0800

Make crtc_notify wrap/unwrap code do nothing unless mode code is inuse

Drivers not using the new hw/xfree86/modes code would crash in DRI due to that code trying to monitor CRTC changes.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit fff00df94d7ebd18a8e24537ec96073717375a3f
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jan 30 14:16:12 2009 -0800

Ignore EDID-supplied monitor physical sizes for core screen size

We report the EDID values in RandR, and we let people configure whatever they like for the screen in xorg.conf. Reporting the EDID values in the core means applications get inconsistent font sizes in the default configuration.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 4e7bc2d7a9879297aff0924febe9a9bd3b6c336d
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Fri Jan 30 03:56:39 2009 -0200

Work around inclusion of <X11/extensions/panoramiXext.h>
The X Server build only needs the macros PANORAMIX_MAJOR_VERSION and PANORAMIX_MINOR_VERSION from that header.

Addition of extra prototypes to <X11/extensions/panoramiXext.h> caused a X Server build failure.

commit 15ac25627e7239629be59addda5d8a9deb330ef
Author: Matt Turner <mattst88@gmail.com>
Date:   Thu Jan 29 14:40:27 2009 -0500

Remove extra / from Loading module line

In the X log, upon module load, it prints a line similar to the following.

> (II) Loading /usr/lib64/xorg/modules/extensions//libdbe.so

The attached patch removes the extra / before the module name.

Code already exists in hw/xfree86/loader/loadmod.c:InitPathList to add a trailing slash if needed, removing the one added by sprintf is harmless.

Signed-off-by: James Cloos <cloos@jhcloos.com>

commit 3903e23153a0d47704509944fa83a7b31bc2eebc
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Jan 29 12:42:57 2009 +0100

XKB: ifdef XKB is dead, yet it was still present in a few places.

commit 756a2c848305aa06bfe636314e28ad7797c1168a
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date:   Wed Jan 28 22:18:50 2009 +0100

Fix duplicate code, off-by one in space calculation, not initialized members

commit b55db937fee5ddf34518a54f352c0ee9b8cc2c2c
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Wed Jan 28 17:33:25 2009 -0500

[shadow] Store the closure in the buffer

commit 82fc102568b3d6b0daeb6c5f5b3a1310a7f1f4fc9
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Jan 28 07:51:32 2009 +1000

Disable Xnest by default.

Xnest doesn't build right now and is in the process of being removed. So
let's not build it by default.

commits:
- Convert kdrive libraries to libtool convenience libraries.
  Also correct a link failure due to unresolved symbols. This is arguably a
  libtool/ranlib/ld bug, that "may" be corrected by linking all convenience
  libraries in a single one. But in this case, it was preferred to just add a
  linker option to Xfake_LDFLAGS, to force linkage of all libraries.

  This corrects #19725.

  commit b43a4e2d38ad9f9ff116204218f24df93cf8d20d1b
  Author: Magnus Kessler <Magnus.Kessler@gmx.net>
  Date:   Tue Jan 27 09:30:37 2009 +1000

  Xvfb: add missing include for new xkbsrv.h

  Commit 08363c5830bdea34012dcd954b45ccfdec79a5a7e added call to
  XkbGetRulesDflts defined in xkbsrv.h

  Signed-off-by: Magnus Kessler <Magnus.Kessler@gmx.net>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

  commit a7e6424d992151c504a75bb807fa34c57ad52cad
  Author: Peter Hutterer <peter.hutterer@who-t.net>
  Date:   Fri Jan 23 17:11:57 2009 +1100

  dix: remove obsolete comment. Event lists should not be allocated by the DDX

  commit b137a0cdb1d517a807d081bde8e9dc053f9f3ca
  Author: George Staplin <gstaplin@apple.com>
  Date:   Mon Jan 26 03:02:38 2009 -0700

  XQuartz: GL: indirect.c changes to fix the build with newer OpenGL frameworks.
  (cherry picked from commit 14b3224405ba74929c702a95de52b56df140bd1b)

  commit 34b896e50fa154ad890a458c6093296442e739f
  Author: Jeremy Huddleston <jeremyh@freedesktop.org>
  Date:   Fri Jan 16 19:26:07 2009 -0800

  XQuartz: SnowLeopard: Help system book name changed in 10.6
  (cherry picked from commit b57cb05c69acbedb00a97234099ea104309aa2cb)
Explicitly add libxorg_la_LIBADD to libxorg_la_DEPENDENCIES

Otherwise, for example, when hacking config/*.c, it is required to run make clean on that directory, to ensure the proper libconfig.a will be linked in the generated Xorg binary.

.commit 0ee87348875035792097f606487a558422774e2c
Author: Magnus Kessler <Magnus.Kessler@gmx.net>
Date: Fri Jan 23 12:11:00 2009 -0200

.gitignore: ignore sdksyms.dep

Signed-off-by: Magnus Kessler <Magnus.Kessler@gmx.net>

.commit 88e69e76f85423d952ff38e0cf88b690439902a
Author: Magnus Kessler <Magnus.Kessler@gmx.net>
Date: Fri Jan 23 11:25:00 2009 -0200

Xvfb: Remove unused function GetLK201Mappings in InitInput.c

Silence a gcc warning. After commit 08363c5830bdea34012dcd954b45ccf8c79a3a7e
GetLK201Mappings is no longer needed.

Signed-off-by: Magnus Kessler <Magnus.Kessler@gmx.net>

.commit 6ef46c40e62def4841a4cff4e0b443516a2ed782
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Sun Jan 25 19:01:10 2009 -0200

Update xnest keyboard code to match xephyr/kdrive.

Xnest was not updated in the last batch of xkb changes. This patch is basically cut&paste from hw/kdrive/src/kinput.c and hw/kdrive/ephyr/ephyr.c, and appears to generate a Xnest as functional as before the xkb changes.

.commit 759348f13ff0a02fbi804238189ffce1c92d33e2a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 22 22:09:11 2009 -0500

Xephyr: Add some rudimentary Xnest command line compat

.commit 01ffaf6834fd6a3b1ddbd33d0f0b8d086be0737e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Xi: define a range of axis labels.

This is copied from linux/input.h, presumably that's the ones at least the Linux kernel can give us for any device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 132b464d734b077038e19b21e46d3a6258f4b998
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 22 02:11:16 2009 -0500

Remove a bunch of useless casts.

We've had void * for twenty years now people let's try to act like we know how it works.

commit 0fb4390526bb829ab17ff4635d41a3012f63c1b2
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jan 22 01:13:17 2009 -0500

Remove xorgcfg 'Options' list.

commit b5ece46b76c9182a077141505cc0e788c0fca3ea
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Jan 17 20:07:40 2009 +0200

Input: Clarify valuator FatalError messages

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ddb46c1421a98190313b79621c0f5ae43b97d3f6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Jan 17 20:03:10 2009 +0200

Input: Use previous state in valuator events

Make valuator event state match other events by using the device state from before processing the event, not after. Also, we already check the number of valuators in UpdateDeviceState, so no need to do it again.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 18e51911f5748f9a27a18cd6bb421c899f5b048f
Author: Daniel Stone <daniel@fooishbar.org>
Input: Add postdown to ButtonClassRec

This mirrors that in KeyClassRec: the state of the buttons as posted to GetPointerEvents, rather than the state of the buttons as processed by ProcessOtherEvent and friends.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Don't allow DDX to generate repeat events

We always use soft-repeat at the moment; XKB posts a release/press sequence, which admittedly needs cleaning up, but that's for another day.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

XKB: Fix logic error

Use logical or instead of bitwise or.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

XKB: Remove unused XkbProcessOtherEvent

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

Input: Remove unused CoreProcess{Keyboard,Pointer}Event
Everything goes through XKB's Process[Keyboard,Pointer]Event on its way through to ProcessOtherEvent now, so get rid of the old, useless functions.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7c4c00649cae855e1341e9a3667bfe399e3156d0
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jan 1 05:25:52 2009 +1100

XKB: Remove unused DDX functions

They were complete no-ops anyway.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4fa3872dc2bcef6d1fc88d0a94c7071683eea899
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 18 20:26:00 2008 +0100

Input: Remove core keysyms from KeyClassRec

Instead of always keeping two copies of the keymap, only generate the core keymap from the XKB keymap when we really need to, and use the XKB keymap as the canonical keymap.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bc909f71367a022897e725bb5769c2bcadab22395
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Aug 12 00:35:56 2008 +0300

Input: Centralise pointer map changing

Replace both core and Xi functions with one function that validates the proposed map, and sends out both kinds of notification.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f06a9d2e05e13466c115fc706966a90b1fe0518e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 18 20:59:30 2008 +0100

Input: Clean up keymap change notifications
Keyboard map notifications are always generated from within XKB code, which also takes care of copying the keysyms, etc. If you need to mangle the keymap yourself, generate a new core keymap/modmap, and pass it to XkbApplyMappingChange.

SendMappingNotify is renamed to SendPointerMappingNotify (and ditto its Device variants), which still only _sends_ the notifications, as opposed to also doing the copying a la XkbApplyMappingChange.

Also have the modmap change code traverse the device hierarchy, rather than just going off the core keyboard.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 1d1a0f67eee330a286fbdedef17e967ce8ea201548
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Oct 28 16:27:37 2008 +1100

Xi: Introduce XIShouldNotify

XIShouldNotify just lets you know if you should send an event for a keymap change (or similar) concerning a given device to a given client; at the moment, this is only for devices which are sending events to that client.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b5242789edeb726bb539e4d42fa35bf5daca0025c9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 9 17:02:02 2008 +0300

XKB: Simplify keymap writing a bit

We don't need no temporary variable.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit feb757f384382c7782ceac55f99d54c7aadbd9d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 25 19:54:29 2008 +0300

XKB: Sanitise vmods for redirected keys

Turn two unsigned chars into one unsigned int for both vmods and the vmod mask. As a bonus, remove broken unused accessor macro for setting the vmods.
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b5f49382fe48f0a762d9a15fb10a7d7e1183fc8d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 25 19:52:11 2008 +0300

XKB: Sanitise ctrls action

Turn four unsigned chars into one unsigned long.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1bd7fd195d85681e722161f8c636a28f11b40abb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 25 19:50:12 2008 +0300

XKB: Sanitise pointer actions

Turn two unsigned chars into one int.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 61c508fa78aa08ea26666fde950fba9d95d65056
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 25 19:47:16 2008 +0300

XKB: Sanitise vmods in actions

Turn vmods from two unsigned chars into one int.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4f3078df2ac07364a17f738bc5c32f9a5962723
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 9 16:50:22 2008 +0300

XKB: Add a hell of a lot more FIXMEs

For some reason, we insist on having daft internal representations that
make no sense, that always have to be converted to be used. We should
really sort this one out.

Also, comment the hojillion members of XkbStateRec.
XKB: Explicitly decode action data

Rather than requiring a one-to-one correspondence between XKM and struct formats in action data, explicitly fill the action data, so we can break API.

XKB: Remove descriptions from maprules

We don't use them, as they're not up to the task. We'll get a better solution someday, promise.

XKB: Remove support for setting combined keymaps

We don't do full keymaps anymore. Deal.

XKB: Remove 'extra' functionality from rules parsing

When we find something weird in the rules, don't stash it as an extra freeform component, just state that the rules file is likely broken and move on with our lives.
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cc5c6d628aa0dc87c2cc9d063972e09ad747a596
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Apr 25 18:45:37 2008 +0300

XKB: Remove unsupported Xi operation flags

We support every XKB operation on Xi devices, so always report that we
support everything, and that nothing is ever unsupported.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 32db27a7f867b503c2840ca7b815e96d10be9210
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Apr 17 12:42:01 2008 -0700

Input: Remove modifierMap from core

We already have modmap (in the exact same format!) in XKB, so just use
that all the time, instead of duplicating the information.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f062e90a95f9b7ae5458ef2100615e8ace9b66a7
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 16 19:15:30 2008 +0300

Input: Remove modifierKeyMap

Since modifierKeyMap is generated from modifierMap, just remove it, and
only generate it when we need to send the modifier map to the client.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cf6a2fc2bd94b392cfeael20444d5e032d26f1d37
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Mar 30 17:25:39 2008 +0300

Input: Ignore modifiers in core input processing

Modifiers get cleared by the XKB code when we drop down into core input
processing, so just delete the dead code path to simplify things a bit.
Input: Remove state from KeyClassRec

We already have state fully stored within XKB, so instead of duplicating it, just generate the values to send to clients when required.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6727ee94086d238f9f99379280d4e4827f388c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 9 16:45:45 2008 +0300

Input: Overhaul keyboard initialisation process

XkbInitKeyboardDeviceStruct is now the only valid keyboard initialisation: all the details are hidden behind here. This now makes it impossible to supply a core keymap at startup.

If dev->key is valid, dev->key->xkbInfo->desc is also valid.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 08363c5830bdea34012dcd954b45ccfdc79a3a7e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 26 18:38:25 2008 +1100

XKB: Make XKB mandatory

No more #ifdef XKB, because you can't disable the build, and no more noXkbExtension either.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit f9da417163b6b2d6234d2542c1f375e33db7159a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 28 19:26:42 2008 +0200

Xephyr: Disable state inheritance hack
Prepare for the impending removal of the state field by disabling this hack for a while: it's hell of nasty and I'm amazed it ever really worked.

Basically, on focus out, it should do as current DDXes do and fake releases for all keys (not just mangle the core state) that are currently down; buttons too. When focus comes back in, we already have a KeymapNotify that lets us know what's currently down, so we can use this to fake the appropriate keypresses, and send it through the event routing layer.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 5c281446d2a8e38511d45baee6f0d25a640f12e1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 28 11:56:34 2008 +0200

XKB: Remove lock actions disabling

For some reason, XKB allows clients to set a global (!) flag that simply turns lock keys into state no-ops. Ignore this flag.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 2f7cb7306709d5266688e05a066701d309323035
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 26 18:36:30 2008 +1100

XKB: Add XkbRMLVOSet

XkbRMLVOSet is just a set of strings for rules, model, layout, variant and options; use that in preference to XkbRF_VarDefsRec, which is a hideously complicated monster that somehow managed to not include the actual rules.

While we're at it, clean up xkbrules.h so it doesn't require xkbstr.h.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 3208eff2f2d7b856a4ac0d650498ccb36e7e62e034
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 21 14:45:06 2009 -0800

Update xorg-server.h.in & Xnest to use new XKB default #defines

commit cdf216aa17b776130a91fa6792c321620e810a18
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Jan 20 16:50:43 2009 -0800
Fix XKB default configure options to use the right variables

commits:

commit 0d3c3dad21857ef502fe0d0235620a1228248e13
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 20 23:46:48 2009 -0500

Don't include fontmod.h

commits:

commit 4f004ab9a83e209943760e1faa39f06c8eeb27af
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date:   Thu Jan 22 01:36:31 2009 +1030

XNest: Fix the build caused by __XKBDEFRULES__ -> XKB_DFLT_RULES in
23862ede59a9ce11a06ec5151bde460fb836c603

commit e45a8a498d1ee8e40fc334805c38c05cb04b49d0
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 20 22:07:07 2009 -0500

Remove CreateUnclippedWinSize from window.h

This is utterly wrong, but then, so is sdksyms.sh

commits:

commit 20d2117eb82fb7ce91afdf0f01fe1b9d4b1bf0459
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 20 00:17:42 2009 -0500

Move CreateUnclippedWinSize to mbuf

It's the only user, so.

commit e1611d8d55ade35bf8c2e1da7bc2dbf05b011301
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 27 13:34:05 2008 +1100

XKB: Be more verbose about XkbCopyKeymap failure in debug mode

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 5ee504cae5f17d16ee7599beaa4b1944a9a8ee6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 27 13:31:18 2008 +1100

XKB: Trying to copy to the same keymap is not fatal

Humour the user if they run XkbCopyKeymap(foo, foo).
XFree86: Input: Fail NIDR if we can't enable devices

If we can't enable a device, bail out of NewInputDeviceRequest rather than blithely continuing. Also, be more verbose when initialization failed. Also, be more verbose when initialization failed. Also, be more verbose when initialization failed. Also, be more verbose when initialization failed.

XKB: Remove unnecessary prototype

XKB: Only Xi events are processed

Core events aren't run through these functions, so don't bother testing for them.

XkbCopyKeymap: inputInfo.keyboard is not a special case

The device-walking code is still depressing, though.
commit 07c3bb922b8c1ae8fe28198f6c451430b836f21e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jan 4 14:12:19 2009 +1100

XKB: Move XkbCopyKeymap definition to xkbsrv.h

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4f35a34f3cd3df3c8af129936d1808dccc063d8a7
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Aug 14 17:26:02 2008 +0930

dix: Remove traces of CoreDevicePrivateKey

Obsolete with MPX.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 58a6b5b9eef2f5b1b9c6de239d6f5a952a31dfd15
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Aug 14 17:21:28 2008 +0930

Xi: don't care about CoreDevicePrivateKey when copying keys

If we get here, we must copy.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 23862ede59a9ce11a06ec5151bde460fb836c603
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Jan 10 14:36:16 2009 +0200

XKB: Allow build-time configuration of XKB defaults

Instead of hardcoding base/pc105/us, allow users to change the defaults at .configure time. Change the default model to be evdev on Linux.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 57a5eb2583bdf1069861fe2184de9739c0d0c7c1
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sun Jan 4 17:40:54 2009 +0000

Xming: Update .rc file to tidy About and Exit dialogs
Tidy up About and Exit dialogs, add keyboard accelerators

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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit df3f701ef2d41ff4be4839f473ae71d33777bea3
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Nov 2 20:17:23 2008 +0000

Xming: Ensure we dont try to print a null value when displaying xkb configuration

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit c612f0df45d388c98108e1e0c80afdfae05e338e
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Nov 2 20:46:41 2008 +0000

Xming: Add styles keyword and attributes.

Add handling for style keyword and attributes in .XWinrc
Update man page to document these additions

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http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 847a91ad2e8c9b0992c09f0ec38466885d6d25d4
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jan 4 19:57:56 2009 +0000

Xming: Notify X when the keyboard focus is lost to a pure Windows window in -multiwindow mode.

Fix internal WM to notify X when the keyboard focus is lost to a pure Windows window in -multiwindow mode.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 6c3e7e4d0568ecb7d10b814593b8b8d817b7d2aab
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jan 4 18:28:34 2009 +0000

Xming: Only allow WM_MOUSEWHEEL messages to act on the client area of a focused window.
Fix internal WM so it only allows WM_MOUSEWHEEL messages to act on the client area of a focused window.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit d84e0e387764236c7e97509baaf4606d96cfc19d4
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jan 4 18:20:44 2009 +0000

Xming: Correctly parent XA_WM_TRANSIENT_FOR windows in -multiwindow mode when a windows
window is created.

Fix internal WM to correctly parent XA_WM_TRANSIENT_FOR windows in -multiwindow mode when a
windows window is created,
and to de-iconize parent windows when a child window acquires focus.

XXX: Perhaps we should also shuffle parent(s) forward through Z-order when a child acquires focus?

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 8d82d806ee38d45ec7cddf8b1f671ec1e4437567
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Nov 2 20:46:38 2008 +0000

Xming: Correct the way display and screen number is reported in window titles and tooltips

Correct the tooltip text for the toolbar X icon to be strictly correct, 'display-number:screen' should be ':display-
number.screen'.
Also for the default window title.
Adjust the style of the Windows title in XDMCP mode from 'Xming - hostname' to 'hostname:display-
number.screen'.

Copyright (C) Colin Harrison 2005-2008
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 656f92e247f2f257105daf1e0e6998e1b3d10eba
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Sun Nov 2 20:17:02 2008 +0000

Cygwin/X: should also use GetTickCount(), just like Xming

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 717f81e780e2b261c5eb688a8e6c5dc1a53b0b6f
Author: Yaakov Selkowitz <yselkowitz@users.sourceforge.net>
Date:   Wed Dec 17 19:13:30 2008 +0000
Cygwin/X: Cygwin doesn't have RTLD_LOCAL

RTLD_LOCAL is not defined on Cygwin

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 5630ff809676ab6b4833757060e48e201e8768a5
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Mon Dec 22 13:53:43 2008 -0800

Ignore generated dmx manpages

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>

commit 64f9244bf513b5f91b3f2bcf5767f6fe927d3f7a
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Mon Dec 22 13:43:30 2008 -0800

Kill off --with-mesa-source completely

There were a few spots left in the source that were using the
--with-mesa-source defined headers or the now removed $(top_srcdir)/GL
directory. These aren't needed anymore as all the necessary source for
GLX is in $(top_srcdir)/glx.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>

commit e1c8ee215797fa8c6a3a5421bb6f99b58064248b
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Sun Dec 14 14:18:58 2008 -0800

Don't reuse PKG_CHECK_MODULES identifiers

Using GL for the PKG_CHECK_MODULES identifier multiple times means only
the first call will actually be used. Later calls will be skipped due to
GL_CFLAGS and GL_LIBS already being set. This changes DRI to using a
different identifier and DMX to just reusing GL_CFLAGS.

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>

commit ca46c01869768a8661a9d8a71493ed5f0760a8ab
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Jan 16 13:58:20 2009 -0800

XQuartz: mieq: Wait for the server to finish initializing before letting other threads mieqEnqueue

Avoid possible race condition whereby one thread might call mieqEnqueue before InitAndStartDevices finishes
xfree86: always force RAW mode under linux.

The previous check for AEI on left us with the possibility that AEI is forced off in the config, but devices are added through evdev nonetheless. A keyboard added this way can CTRL+C the server. Even when we use kbd, we can set the mode to RAW, so it's safer around to to so.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

dix: remove XineramaCheckMotion, merge into CheckMotion.

For 5 lines difference, we don't need to duplicate the whole function. really.

dix: remove "notyet" conditional compilation.

If it's "notyet" for 3 years, then "yet" won't arrive anytime soon.

XQuartz: xpr: Cleanup some of the code and possibly fix part of the GLX Pixmap problem.

Split DRICreateSurface into 3 functions.

Make CreateSurfaceForPixmap use xp_configure_surface. I suspect this is partly why GLXPixmaps never worked.

It will require some more work and thoughts for pbuffers, unless we fake those with pixmaps and surfaces.

XQuartz: xpr: Cleanup some of the code and possibly fix part of the GLX Pixmap problem.
XQuartz: GL: Make indirect.c build and work in the 1.6 branch.

Reorder some header files and provide some types earlier on.

Remove the static __GLXextensionInfo __gliDXExtensionInfo; that isn't used in 1.4 or 1.5, and seems to have been removed from 1.6. Remove the data structures associated with that too.

Remove __gliXAquaDrawableResize. The GLX structure doesn't use it anymore, and the Apple version did nothing useful before.

__gliXAquaDrawableSwapBuffers(): base no longer contains a drawGlxc member. Now provide the the Apple/Aqua context in the __GLXAquaDrawable struct. Add the context member to the __GLXAquaDrawable struct.

Remove the fallback configs. They aren't used in 1.4 or 1.5 either.

Remove init_visuals(). It's not used in 1.4 or 1.5 either.

In the drawable constructor initialize the state properly, including the new context member.

Remove glAquaResetExtension() -- it's not used anymore.

This has been tested remotely and proven to work with glxgears, fire, various texture programs I wrote, and various Mesa demos. (cherry picked from commit d514152195452ae11ec7769c76489651620ad380)

commit 1c504dff8a84804888f18ee9b184f0c4584185d7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Jan 15 21:03:27 2009 -0800

XQuartz: Fix builddir != srcdir issues and undef _XSERVER64 where appropriate on fat binary compilation

commit 717a961528ec69a6e630d536e15568670e0b398a
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Sat Dec 20 16:17:02 2008 +0100

Don't release grabs unless all buttons are up

Previously, only buttons <= 5 would count here, but the core protocol allows for 255 buttons.


Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Count the number of logically down buttons in buttonsDown

This fixes the following bug. Assuming your window manager grabs Alt+Button1 to move windows, map Button3 to 0 via XSetPointerMapping, then press the physical button 3 (this shouldn't have any effect), press Alt and then button 1. The press event is delivered to the application instead of firing the grab.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 6f065a26db62aaf1d7aab9f9a3d0e6cd09d1c1dd
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Jan 15 21:42:26 2009 +0000

Xming: Reduce MOUSE_POLLING_INTERVAL

Reduce MOUSE_POLLING_INTERVAL from 500ms to 50ms

In -multiwindow mode, this determines how quickly X windows can track the mouse when it is outside any X window... Move the cursor around an xeyes, and you will see what this timing effects.

commit c745db1674c3cb55249c9eb6e74939b74c42409c
Author: Jon TURNLEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 5 13:52:45 2009 +0000

GLX: Avoid a crash when we have an uninitialized GL context

If the GL dispatch table pointer points to glapi_noop_table, (due to some kind of GL initialization failure), DoGetString(GL_VERSION) (for example as invoked by glxinfo) will crash as it tries to do atof() on the null pointer returned by the noop dispatch function

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit e30032d0bbbf0bf71e1b53a4ac388f3bd6f8e53
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Dec 1 21:14:01 2008 +1000

Xext: clean up XGE macros.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
commit 1ae529bef50a8ccc4a8a264ed120aae544b21e7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jan 14 14:56:10 2009 +1000

dix: replace manual check for event types with IsPointerEvent()

commit 1d54479cb3c8b4f75b7564f8b5e1c5da940b20f4
Author: Simon Thum <simon.thum@gmx.de>
Date:   Tue Nov 25 14:12:02 2008 +1000

xfree86: init properties when ptracel configuration is found.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Simon Thum <simon.thum@gmx.de>

commit 19275ea8e9dd93d5e61906943706df49003dd9c
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Nov 19 16:01:21 2008 +1000

dix: add property support for pointer acceleration.

Note: properties don't need to be cleaned up, the DIX does it for us anyway.
Data that is stored in properties is cleaned up by the property system.
Handlers, etc. don't need to be unregistered while cleaning up, as they get
deleted when the device is removed anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Simon Thum <simon.thum@gmx.de>

commit d645721170b1196e5064b397cfbffd1da8c79bb1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jan 8 11:53:30 2009 +1000

mi: ensure chained button mappings from SD -> MD (#19282)

After copying the master event, flip the detail field to the mapped button of
the SD, not the physical button. This way if the SD has a mapping 1:3 and the
MD has a mapping of 3:4, a press on button 1 on the SD results in a core event
on button 4.

X.Org Bug 19282 <http://bugs.freedesktop.org/show_bug.cgi?id=19282>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 639f289dcdbe00a516820f573c01a8339e120ed4
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Jan 13 13:05:32 2009 +0100
EXA: Declare glyph cache picture as component-alpha when necessary.

Without this, rendering component-alpha glyphs may break without a mask.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=19233.

commit f4e00b783d3f824058a5f140e6462142688f5116
Author: Michel Dänzer <daenzer@vmware.com>
Date:   Tue Jan 13 11:03:27 2009 +0100

Fix build with --enable-visibility --disable-xdmcp.

commit d36adf52a2b2711d22b11105f7bd907d4493fb9b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 12 15:29:36 2009 +1000

dix: fix WarpPointer calls for devices with custom valuator ranges (#19297)

If the MD's lastSlave was a devices with custom axes ranges, then a
WarpPointer would position the cursor at the wrong location. A WarpPointer
request provides screen coordinates and these coordinates were scaled to the
device range before warping.

This patch consists of two parts:
1) in the WarpPointer handling, get the lastSlave and post the event through
this device.
2) assume that WarpPointer coordinates are always in screen coordinates and
scale them to device coordinates in GPE before continuing. Note that this
breaks device-coordinate based XWarpDevicePointer calls (for which the spec
isn't nailed down yet anyway) until a better solution is found.

X.Org Bug 19297 <http://bugs.freedesktop.org/show_bug.cgi?id=19297>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 488d45295105daf10ccd17ca93ae6a6f4d0104f1
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jan 12 16:16:24 2009 +1000

dix: EnqueueEvent and PlayReleasedEvent need to handle DeviceMotionNotifies

No MotionNotify events in the processing anymore, so let's have them treat DMN
instead.

Reported by Thomas Jaeger.

commit 1e470645983ad18fa38c0885d674bc9d1dc1e560
Author: Julien Cristau <jcristau@debian.org>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35685
Date: Tue Jan 13 00:12:56 2009 +0100

require randrproto 1.2.99.3

commit a48c81dcd569a3f634ac23e08d2491354de6a36
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 5 16:24:57 2008 +1000

Xi: add XATOM_FLOAT to server-defined properties.

This property is used to denote type float for input properties. Such properties can be accessed easily through the XIPropToFloat() function.

Code originally written by Simon Thum.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 669f6810af9a89187d6149841925fe765f3988ff
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Nov 19 15:50:57 2008 +1000

Xi: add XIPropToInt() auxiliary function.

Converts an XIPropertyValuePtr to an integer, provided that type and format is right.

Code originally written by Simon Thum.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 56efbc098e782da45addb05ece9f456d41d7a90
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 9 13:46:20 2009 +1000

dix: drop x/y back into last.valuators before updating the history (#19285)

positionSprite needs to scale to screen coordinates and in the process of doing so alters dev->last.valuators[0:1]. Drop the real coordinates back after finishing and before updating the motion history. This way, we don’t push the screen coordinates into the motion history.

X.Org Bug 19285 <http://bugs.freedesktop.org/show_bug.cgi?id=19285>

commit 67710ad1d172cc4d53e28e5cc7dab2efb57a9a85
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Jan 11 16:34:36 2009 -0800

XQuartz: Don’t need explicit Activate/EnableDevice in InitInput
mieq: Avoid possible race condition whereby one thread might call mieqEnqueue before InitAndStartDevices finishes
This is more of a hack around the problem. This is something that will need to be addressed in a more structured manner with the multi threaded input efforts.

XQuartz: Only call DarwinUpdateModKeys when needed
Previously, we were calling it on almost every iteration through sendX11Event

XQuartz: Comment explaining the 0x10 flag for [e data2]

XQuartz: Add locking to make mieq thread safe on OSX

XQuartz: misc 1.6 updates (still --disable-glx)
rlAccel is not longer compatible, and it's not worth fixing
Don't override DeviceCursorInitialize with a noop
Don't do a SwitchCoreKeyboard (which wasn't even needed in the first place)
Date: Sat Jan 10 01:39:08 2009 -0800

Apple: Don't use DRI2
(cherry picked from commit a1d35cee5907a76977ee43c49cb55c8f411e9794)

commit 7a8abb9c8554df7967d912dcd427804f65906dc5c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jan 6 15:32:44 2009 -0800

XQuartz: Bundle version 2.4.0
(cherry picked from commit 3a3ccf5354e4275abe9d01f41a92602df5d690dc)

commit 63ff7d236f67e159943312e1a551cf5bb3f463a
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:45:24 2009 +0100

os: don't mix declarations and code

commit f43a3c61ab1eab8aeedc0e4bdeee9f3bae2cab234
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:44:53 2009 +0100

os: backtrace() returns int, not size_t

commit 5321ae76cfc5f9c4bebcfb10e08eeca6f640503
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:44:29 2009 +0100

os: ANSI cleanups

commit 47438a2161a92fec08081d2de28966cf8d31654a
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:43:48 2009 +0100

randr: RRSetPrimaryOutput can be static

commit 7f82114b1dce738f98b9f2f6e61d6d5191383b67
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:43:35 2009 +0100

xkb: ANSI cleanup

commit 46f3c1b937002f9a860878b359df5756a82dcf2
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 11 08:42:57 2009 +0100

mi: don't mix declarations and code
commit 5aa9483d3ee306a79a9235610ce6b2754d697585
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:42:28 2009 +0100

    mi: ANSI cleanups

commit 359ed32c9b013ed88e14c99aa7fd7a617a85e2e5
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:40:58 2009 +0100

    xnest: only define ddxBeforeReset if needed

commit 9651cd8d7ac26635b6fb1826806ac9f4e2bd6b63
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:40:47 2009 +0100

    xnest: ANSI cleanups

commit 31439195ec51f183f5a8989a8d4f95b3e6326eda0
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:37:06 2009 +0100

    xfree86: linuxPci.c needs a prototype for xf86AccResFromOS

commit a00dbd0015845e08ef2af09480cc3833819cf86f5
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:36:16 2009 +0100

    xfree86: use %zu to format size_t arguments

commit 17c8cb509990a9ad20bbd3f8ce14c149d9a9d72a
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:34:56 2009 +0100

    xfree86: don't mix declarations and code

commit aec4c0caca41a06832536ba82ba5bedccf4a0aea
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:33:18 2009 +0100

    xfree86: ANSI cleanups

commit dba3b1944d04232f88bb310277639f2e1adcbe08
Author: Julien Cristau <jcristau@debian.org>
Date:  Sun Jan 11 08:28:23 2009 +0100

    Xvfb: ANSI cleanups
commit a2a760e33c17e211650b1f53c05a89c013916cf3
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:25:39 2009 +0100

dix: don't mix declarations and code

commit 466dddbb83aa37ae93fb32976d51ecaa947c3616
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:25:17 2009 +0100

dix: fix cast from pointer to integer

commit 54332e4732577de49e440d9e9f8dd7d791f03f8e
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:20:06 2009 +0100

dix: ANSI cleanups

commit ef9902652b8a1c716ea3851565d6e2a98bd30eb0
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:18:56 2009 +0100

config: ANSI cleanups

commit e64473b14e091e4b75e6ac2bf9a35e9aaa907258
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:17:41 2009 +0100

Xi: fix missing declaration of XkbSetRulesDflts

commit 6e20a4ae731b7bc72266e5809faa0ecfde2bdefe4
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:16:55 2009 +0100

xsync: make SyncAlarmCounterDestroyed static

commit 292311b421e53ead53c7df67d735a3d6d3e5b515
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jan 11 08:16:12 2009 +0100

Xext: ANSI cleanups

commit 7a05c8b1e70680ddd3b3e09ad448788f8d70a428
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Dec 23 13:08:49 2008 +0100

xfree86/linux: fix log flood on acpid open error
When we can't open the acpid socket, warn once, not once every second

commit 0d8184de591c75794083c8a8ca3fb8459e9394bc
Author: George Staplin <gstaplin@apple.com>
Date:   Fri Jan 9 16:08:26 2009 -0700

XQuartz: GL: Set the __GLXconfig renderType to GLX_RGBA_BIT.
(cherry picked from commit 3c14546f58f8a138fe67c9cacc3bd0b7fa90c29a)

commit 9c3975d63e129ad7230cae585f08a962d45fb861
Author: George Staplin <gstaplin@apple.com>
Date:   Fri Jan 9 15:53:39 2009 -0700

XQuartz: GL: Make many more fbconfigs and visuals available for the 1.5 branch.

Use a __GLXconfig linked list struct to store the configurations for the
fbconfigs and visuals in a pGlxScreen.

Also, remove the __GLXvisualConfig/GlxSetVisualConfigs code that isn't used
anymore. There is more code we can remove later, but I want to do that in
separate commits.
(cherry picked from commit 94162b0f8a25267aca280d25e216cc6bde47da6e)

commit a68373994f4957a73f4eab52c90ebe4b961285f8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Jan 7 18:27:21 2009 -0800

XQuartz: Update padding in appledristr. This shouldn't change how the struct ends up in memory, but should
make it more obvious for human eyes
(cherry picked from commit f7b6c1907c326a1befd8b5c8a1d311d551e8670f)

commit 5f3188228eb988bd8f08b62c84f98a8ff66ee283
Author: Xiang, Haihao <haihao.xiang@intel.com>
Date:   Tue Jan 6 10:03:19 2009 +0800

avoid a potential endless loop.

Previously it is possible that creating rotation data, then cleaning
up and creating again so that pScreen->BlockHandler and
xf86_config->BlockHandler all point to xf86RotateBlockHandler.
See bug #19343.

commit b2756a71a432f7c7c870a48676e98625512558d
Author: Thomas Jaeger <ThJaeger@gmail.com>
Date:   Fri Jan 9 02:02:38 2009 -0500

Xext: Send out correct events in ProcXTestFakeInput
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9bf77569cc8f9b0cc25c99487672d375d7c32f99
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jan 8 16:32:24 2009 +1000

Xi: call CheckMotion for floating SDs too.

CheckMotion updates the sprite position so we need to call it for all devices that have a sprite - including floating SDs (which have an invisible sprite).

commit 83eb863e3cfcd62549b836f3195107d8908b36d0
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 9 11:39:02 2009 +1000

Xext: don't accept DeviceValuator if the dev doesn't have valuators (in xtest)

Reported by Chris Ball.

commit a3f9e887d9ff5fdee6c35cc0f7b324723a83a46
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Jan 9 11:40:18 2009 +1000

dix: don't accept Button 0 presses in GPE.

commit 0ce6987df3b93a37d201d740d8248c326449835e
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 17 16:10:51 2008 -0400

XAA: Disable offscreen pixmaps by default.

Say Option "XaaOffscreenPixmaps" to turn them back on.

Apropos of bugs #13795 and #15098. But this still isn't correct.

commit eb2d7b3d700952ba88c77deacf687b251300e660
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Dec 19 21:05:47 2008 +1000

dix: move focus handling into enterleave.c.

This commit moves the focus handling from events.c into enterleave.c and implements a model similar to the core enter/leave model.
For a full description of the model, see:

This commit also gets rid of the focusinout array in the WindowRec, ditching it in favour of a local array that keeps the current focus window for each
device.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 673eb23aac578dcd04e2a99d1fa5c2987eb58b8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 19 21:05:09 2008 +1000

dix: add a few auxiliary functions for the updated focus model.

SetFocusIn and SetFocusOut, including the static array to keep all focus windows.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 38b28dcadd0990cb43f50db4300eebb8f044db96
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 18 15:55:11 2008 +1000

dix: reduce FirstPointerChild complexity

Instead of keeping a flag on each window for the devices that are in this window, keep a local array that holds the current pointer window for each device. Benefit: searching for the first descendant of a pointer is a simple run through the array.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 72ad4a85cc0ffe60a90011d65ef718d5852beae4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 18 15:43:18 2008 +1000

dix: remove now unused "exclude" parameter from FirstPointerChild

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 0aa4460c3b4f99bb17d5412d76fa8c4c501132429
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Dec 17 16:14:41 2008 +1000

dix: re-implement enter/leave model.

The old model was implemented based on a misunderstanding of NotifyVirtual and NotifyNonlinearVirtual events. It became complicated and was broken in some places [1]. This patch wipes this model completely.

A much simplified implementation is provided instead. Rather than a top-down approach ("we have a tree of windows, which ones need to get which event")
this one uses a step-by-step approach. For each window W between A and B determine the pointer window P as perceived by this window and determine the event type based on this information. This is in-line with the model described by Owen Taylor [2].


commit f8ecc2f08fc375b14d60a74e2fdd7830bfdec74f
Author: Christian Beier <beier@informatik.hu-berlin.de>
Date:   Tue Jan 6 11:31:03 2009 +1000

Xi: fix typo in WarpDevicePointer handling.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3d549438c29004d78032ecc50ab45ca0e3f49623
Author: Thomas Jaeger <thjaeger@gmail.com>
Date:   Mon Jan 5 01:26:42 2009 -0500

Don't alter device button maps in DoSetPointerMapping

Currently, if a device map differs from the core pointer map, then the request may return MappingBusy, even though all the affected core buttons are in the up state.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b72c6b083bbaedfd7b18b6025df054be502d6e28
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jan 6 09:01:48 2009 +1000

  dix: remove inputInfo.keyboard reference in QueryPointer handling.

  PickKeyboard() is to be used instead.

commit 30d2cfcd3851870178d62e5067211aa36f87fbd2
Author: Kim Woelders <kim@woelders.dk>
Date:   Mon Jan 5 19:35:18 2009 +0100

  dix: Fix handling of do_not_propagate_mask window attribute.

  This was broken in 32aa252e988be8cbfd4f7e373fb7b7736ef1f5f2.

  Signed-off-by: Kim Woelders <kim@woelders.dk>
  Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 515ce3e4ba42605a1ee9979e8bb5acd3cf6470a3
xkb: fix typo - missing negation when checking button state.

Introduced with a85f0d6b98237d8a196de624207acf1983a1859a.

Reported by Thomas Jaeger.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 9a313fb03153eb764aeb3e9cbb9988b6603541637
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Wed Jan 7 23:07:01 2009 -0200

Don't call free, use xfree macro.

There are several other direct calls to free, check
% egrep '\<free\>' `find . -name \*.c`
but they are free'ing memory from explicit malloc calls.
This one was not intended, and corrected, so that it would
both, follow the conventions everywhere (and work on some
libc that doesn't like free(0)), and make it easier to use
malloc wrappers.

commit 49b93df8a3002db7196aa3f1f9d8dca1c12a55d6
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Wed Jan 7 19:37:03 2009 -0200

Default to use standard bitmap fonts, with builtins as fallback

The builtin-fonts configure option was removed, as it at best should
have been a runtime option. Instead, now it always register all "font
path element" backends, and adds built-ins fonts at the end of the
default font path.
This should be a more reasonable solution, to "correct" the most
common Xorg FAQ (could not open default font 'fixed'), and also don't
break by default applications that use only the standard/historical
X Font rendering.

commit 4f004231871c830e16c4525cfaab183fad0aee86
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Jan 7 10:55:08 2009 -0800

XQuartz: Fat binary buildfixes

Let Xarch.h set X_BYTE_ORDER for us.
Determine _XSERVER64 at build time.
Cygwin/X: Tidy up an unused #define

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

Include Xmd.h from edid.h

XQuartz: Use AvailabilityMacros.h instead of availability.h for Tiger
(cherry picked from commit 91f3c3435716195e6d606c8e2f6b0de52eb5972d)

Make cvt complain about invalid arguments more often.

cvt doesn't correctly parse 'cvt -vr 1920 1080'. This patch doesn't fix
that, but it does at least generate an error message now.

Signed-off-by: Keith Packard <keithp@keithp.com>

Add sdksyms.sh to EXTRA_DIST to correct make distcheck

Thanks to <vehemens at verizon.net> for noticing the problem.

Update sdk headers to export new symbols.
All symbols in installed sdk headers should be explicitly tagged as exported symbols. Otherwise, to ensure it is not a mistake, one could write it as something like:
extern /* NOEXPORT */ type name ...;
but the proper procedure really should be to use a non sdk header (or a "noinst_" one).

This patch also removes prototypes to some functions that existed only temporarily.

commit af6152499654a7146250d4ad0df8f9f611345434e
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Dec 17 14:15:34 2008 +0000

Cygwin/X: Add *.exe pattern to .gitignore

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit 8428b92fcb478b041f778c0e8c66fdeb96c807f3
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Jan 4 20:12:16 2009 +0000

Xming: Fix a couple of warnings

Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>

commit f6f97419bd2db651384ecaec0b296840810463a4
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Mon Jan 5 18:35:52 2009 +0000

Cygwin/X: Add -static back to linker flags

Add -static back to linker flags to avoid screwing things up for people who don't know that they need to avoid dynamically linking with libXfont, as weak symbol handling requires static linking to work correctly on Cygwin...

commit 2ec0ac08addb938a3d5aa5b9888ce7c79a0daada
Author: Jon TURNEY <jon.turney@dronecode.org.uk>
Date:   Wed Dec 17 19:18:38 2008 +0000

Cygwin/X: Fix some remaining build issues

Fixes for a few remaining build issues, omitted from commit 6e85a8304b50c0b6fd16a400a05dd257f01688f099b in error

Provide VENDOR_RELEASE in XORG_VERSION_CURRENT for XWin
Remove -static from linker flags for XWin
RandR: Only export Xinerama symbols when building Xinerama support
Otherwise compilation fails due to sdksyms.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

XFree86: Xv: Add ClipNotify helper
Add a ClipNotify helper that lets the driver know about changes in the clipping of an Xv backing drawable.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

XFree86: fbdevhw: Add helper function to get fd
Most devices need to do custom weird ioctls, so let them know what the fd is.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

XFree86: Fix build with DGA disabled
It's optional, so we might as well work when it's disabled.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
dmx: Require newer libXi for XQueryInputVersion

Signed-off-by: Dan Nicholson <dbn.lists@gmail.com>
Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 27011254c4de4e573a0851bf46892fb488db6522
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 23 09:59:28 2008 +1000

xfree86: If an input device failed to activate, return immediately.

Devices are only activated once - right after they've been added to the
server. If a device fails activation, it's dead. There's no reason to
continue. Return the error code from ActivateDevice() without setting up
sprite information or even sending a event to the client.

Then - in the DDX - just remove the device again.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e1a3a1a0d85e9971aae65c2228b5fd4dbf3bf57a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 23 10:00:34 2008 +1000

xfree86: don't call CheckMotion if a device hasn't been enabled. #19176

X.Org Bug <http://bugs.freedesktop.org/show_bug.cgi?id=19176>

commit af820259a06a6e8dbd299fe22347aa83b0c985b0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Jan 2 11:06:12 2009 -0800

XQuartz: Copyright Update... happy new year
(cherry picked from commit 9f1c26ae8d9ccf81cba0ab946326968a701f8c36)

commit d8c9ba37abd06d63ea2c5394af434b46ec3b647fd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Jan 2 10:58:40 2009 -0800

XQuartz: pbproxy: Push dpy init and CFRunLoop hook setup into the pbproxy thread to avoid possible deadlock
(cherry picked from commit 49e59d32b88e4fad070f230b5efaa261b47f78db)

commit 2f361186f93a791e446c4a9471bb0c3b9b818d98
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 31 12:40:02 2008 -0800

XQuartz: Don't use NX_SECONDARYFNMASK, NX_NUMERICPADMASK, NX_HELPMASK
We don't have keycodes for them, so don't try to use them
(cherry picked from commit cb912aca3a2834c4ad8e386c8a0d05c1bb31b0e7)

commit a2abaa9fd3a5ad713c1f946e9d7f598825ad3a84
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 31 11:57:49 2008 -0800

XQuartz: Make sure to reset the saved key state when deactivating X11.app
(cherry picked from commit 3ee778eb321f4f7dbca5a10c80666c621e28a1e0)

commit 3986b683ade4f6f967cc5f643e973d89764234c7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 31 12:44:43 2008 -0800

XQuartz: Honor system key repeat rate
(cherry picked from commit 4303c9be39a86f5a21de108f72b90a989435905e)

commit 1a69d56afda082298edc76271d2cb71af00526ce
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Dec 29 19:54:12 2008 -0800

XQuartz: Better avoid stuck keys on context switches
(cherry picked from commit e9963f1a4f4f12f253ea9d4f01694b6cabe35ad)

commit f464b5a9164b24f74adea198bca9afaf5552c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Dec 29 19:38:31 2008 -0800

XQuartz: Workaround OSX VNC server bug for modifier key state

A better approach which ensures we have a L modifier key down if we are told neither are down and atleast one is
down... =/
(cherry picked from commit be13dda345f716bf4de9bfe4e1d85969263b60c2)

commit 3ead9aa2602cab9e883aa7bcbd2a8d82c5e88f5a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Dec 29 00:30:31 2008 -0800

XQuartz: Updated man page fullscreen_hotkeys fullscreen_menu
(cherry picked from commit 00f3a2e33c8e91da5f855821313a04ea97445656)

commit 48dbaf173a82693fd72953983da9fc556ed1c6ed
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Dec 30 12:17:14 2008 +1100

XKB: Also copy keyboard feedback when copying the keymap

When updating the XKB keymap, make sure the keyboard feedback is also
copied, to preserve autorepeat settings etc.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit cf85a32b5f80694f3c2f434e91cf77edb33a7e17
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Dec 28 15:57:59 2008 -0800

XQuartz: pbproxy: We explicitly need libX11 for pbproxy
(cherry picked from commit 32824120da0749b8369c2592f851bb1030dea9f1)

commit 997e8c321bb11067591785ba38103a3a5029301d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Dec 28 01:53:38 2008 -0800

XQuartz: Try harder to get the user's login environment
(cherry picked from commit 6bedadd778a04bd303df434a4c49bb87bd7deaa)

commit ae8dc47fd910ec4b9edd64bf3b7ba33e212c5942
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 24 00:39:06 2008 -0800

XQuartz: Reposition windows when we enter fullscreen to ensure our root window
(cherry picked from commit 7617d3659b5481ef85aecc1f936e7dd2662bdfbd)

commit 895186e026881196ac9383aa165e123055d9cf09
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Dec 23 20:33:27 2008 -0800

XQuartz: Re-enable rlAccel

It was incorrectly blamed for some crashes a few months ago, and it should be
safe to use until we get an EXA driver to replace it.
(cherry picked from commit 8121f30bd29591fc74fbc680fbbf20210271fa58)

commit dc4498ec5eb7f25f710bdec8793746da2d2324ed
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Dec 28 22:16:52 2008 -0800

Updated .gitignore
(cherry picked from commit 06964c322e4da81f3146022049a2de13f6b2892d)

commit 3534a5e5d9c5af85149c799f324257f89507fa23
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Dec 26 16:38:27 2008 +0100

exa: Allow drivers to set non-NULL devPrivate.ptr for !offscreen pixmaps.
commit 027b440d4f9f0cdd46addff46fd2d5c44cd5c847
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Dec 26 15:51:55 2008 +0100

    exa: preparing as source and finishing access as mask is a bad idea

commit 89bbd07e9ddd688df81405151f9ec6284fa3367a8
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 23 21:40:21 2008 -0800

    Remove obsolete XF86_DATE & xf86Date.h

commit 8dc3a7d6817b7371bffece1108ef856788256853
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 23 14:59:46 2008 -0800

    Remove unused CLOG_DATE (leftover from pre-git ChangeLog)

commit fe05a46f191ebd36251dda7a9703d90c25efec11
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 23 14:55:26 2008 -0800

    Remove powerpc load/store functions from export list on other platforms

commit a1b201bcb01e702f8f0a5889a3d49317503b9475
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Dec 23 12:39:38 2008 -0800

    XQuartz: Use depth=24 instead of FatalError if we can't figure out our depth
    (cherry picked from commit 80b65c5b78d125c4ad3620b87b121e9e666299c3)

commit 86dc660588a615baefb1799d78a501c95a931d77
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Tue Dec 23 18:07:54 2008 -0200

    Improve sdksyms.c automatic generation (Fix #19245).

    Since it is already parsing cpp output, create a dependency file
    in the same process. This will cause sdksyms.c to be regenerated
    whenever a sdk header is modified.

    This also uses the gmake 'sinclude' directive (don't fail if
    included file doesn't exist). This should not cause any problems
    given that gmake only constructs are used in several other Makefiles.

commit 477c32708718f4470ac2e786b2446d7a44e45b9c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Dec 19 08:56:35 2008 +1000
dix: don't disable uninitialized devices.

If a device hasn't been initialized, it doesn't have a cursor yet. So don't set the cursor to the NullCursor, and don't try to DisableDevice either.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 25aac8b5793caa92116b766d5a9e12dbecedb0290
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Dec 2 16:16:58 2008 +1000

xkb: don't treat groups with different no of symbols as identical.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit f141c1b4bb9482f188783dd6f161d3c7960a3329
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Dec 2 14:54:50 2008 +1000

xkb: explicitly check for group replication in the core representation.

Single-group keys may get replicated amongst all groups. Check explicitly for this case and squash it down to one group.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 70a9777c021e107c4fabe46ec2f619be9fb55aeb
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Dec 2 15:36:51 2008 +1000

xkb: don't replicate past the number of groups we have.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit a157575eeeb523cd43197c5caeb00c3d56f9988
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Dec 2 13:31:58 2008 +1000

xkb: ensure enough symbols for core Group1 replication.

A single-group key on a multi-group keyboard has to be replicated across all three groups (see Section 12.4 of the XKB protocol spec). Ensure that there's enough symbols available to actually do that.

e.g. a key ABCD on a 3 group keyboard needs to be replicated as ABABCDABCD, hence requiring space for 12 symbols, even if maxSymsPerKey is less than that.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
commit b5736d237a21d5e65d839c4d213dd3bda5a11e9d
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Mon Dec 22 19:53:14 2008 +0100

randr/xfree86: Fix initial gamma computation.

- The previous version overflowed sometimes.

commit ba9dc353a60e9a6bba64e854b23271011b7f7015
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Dec 21 21:03:59 2008 -0800

XQuartz: Don't use keycode 0 to determine !swallow since our most common key to swallow is actual keycode 0 (a)
(cherry picked from commit 33f43a7f03023bfbab25a957cb81fc25b4afa4ca)

commit f0cdccd1e22198f4f5e1aa0d0617441b79ffbc44
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Dec 21 20:40:36 2008 -0800

XQuartz: Update our "screens" when we toggle rootless rather than when we toggle fullscreen

This old behavior was used as a workaround for the menubar behavior in the older server, but we handle it better now and need to update our screens when we toggle the rootless state instead.
(cherry picked from commit 508aa95bc2cd3fcd3df448ec090919bf807d153)

commit 8f04a5237384fa97ff960b4607a79b688ea03fc1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Dec 21 14:54:11 2008 -0800

XQuartz: Run applications via '/bin/sh -c ...' to support users who expect shell parsing
(cherry picked from commit 67455e716e3ecff528930479192785958d37988)

commit 029d255a654eca6401c374d145f63bb923554b5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Dec 21 14:43:12 2008 -0800

XQuartz: pbproxy: Release display notification lock when not needed to avoid deadlock
(cherry picked from commit 22f664ab95a0cae981e9cefad6f075d051583ca5)

commit b1f166f2981595aa6f68e2a336d6d25436f8a07d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Dec 21 14:42:26 2008 -0800

XQuartz: update quoting in case X11.app is moved to a directory with a space.
(cherry picked from commit cc805dc799efa37c8dcefa3db04d87e9b835ffbd)
commit 2f47bda645eb43c60b71315e8d265190acce481d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Dec 18 09:14:16 2008 -0800

    XQuartz: Changed X11.sh to allow use of a ~/.x11run as requested by users of alternate shells
(cherry picked from commit b62ed1f8eaf041a946bb591165bb18ee481dedbf)

commit 83edcc08de4c815c5cbe815f521b3b728441cad6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 17 15:09:35 2008 -0800

    XQuartz: Get rid of white rectangle bug
(cherry picked from commit 3269959033ed0c675a3a906666454df34086896a)

commit 1335a300b9cd03208a583acfdbe7f7153eaf4e6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 17 14:43:02 2008 -0800

    rootless: Make expose_1 static
(cherry picked from commit 60c8d2697036a125ca5381df8e2eada4d4d242)

commit 22b2811e6aa0bdbfa6a0682ac862063e52ec062
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Dec 17 13:54:53 2008 -0800

    XQuartz: Name the startup shell script X11 for better compatability
(cherry picked from commit f84613d6fcbff5f769ee34cfff0900353a13693cf)

commit 82fba7697fbbb6f66cc22424ba99755b99ff482e
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Mon Dec 22 00:33:55 2008 +0100

    xfree86/randr: Avoid a crash when xf86CrtcConfigPrivateIndex is -1.

commit 1567b7243f4799808ab93fbd962df14ce3af2d49
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Dec 21 00:08:56 2008 +0100

    exa: A more correct fix.

commit 2db7b66863ae6055e3ce13c88b36d620de8a4d75
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Dec 19 23:12:37 2008 +0100

    exa: a few cleanups

- Some warnings silenced.
Some whitespace cleanup.

commit aedd2f566df585db7a1614f302cc8d3fed54275
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Dec 19 19:10:23 2008 +0100

randr/xfree86: Fix a one off error in the panning calculations.

- Example: mode 1280x1024, panned area 1281x1024
  
  panned_area.x2 = 1281
  mode.width = 1280

  If you subtract 1280 from 1281, then that leaves you with one.
  Which is the one pixel that you need to move to actually see the last pixel column.
  Subtracting 1 from this will consistently prevent you from seeing the right and bottom edge.

commit 332d65ec7a6e9475e9f5d3742f137835274de
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Dec 19 18:59:27 2008 +0100

randr: Consider panned crtc's when calculating xinerama screen sizes.

- This will allow window managers and applications to actually use the panned area.

commit f2d1de6c2a3e6e50db6d9714c293eb26324fbd3d
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 19 10:27:37 2008 -0500

xv: remove useless XVCALL macro

commit 5a072c55350f4b73d911ea6a2aedad844924834
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 19 09:51:52 2008 -0500

dmx: Fix calloc macro confusion.

commit 8c488ac3b3990cd203baed7f2127b9bed8aabb534
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 18 19:47:49 2008 -0800

  Fix linking of Xorg with dtrace probes on Solaris

commit 396433d0da721951e6e7abc02dc3b2f682495154
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Dec 18 18:49:47 2008 -0800

  Fix sdksyms.sh to work with Solaris/Sun compiler builds

- Pass $(CPP) & $(AWK) settings from configure to sdksyms.sh
- Only reset sdk variable (tracks if header is part of sdk) if
  a filename is included on the cpp # <line-no> <filename> line,
since Sun compilers omit filename when it is unchanged from
  previous line.

commit aea6f19f25e13768b1d09fac4991d6a5e6c2cdac
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 16 17:10:03 2008 +1000

xfree86: don't restore the TTY mode if we didn't initialize it ourselves

Restoring it unconditionally means we restore to whatever tty_mode has as
default value (i.e. 0). K_RAW happens to be 0x00, so we always restore to raw
mode if allowEmptyInput is off.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Signed-off-by: Adam Jackson <ajax@redhat.com>
Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 5d065a889074558634216eebd4bba35a60db9a09
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 18 13:59:36 2008 -0500

xselinux: Use xace Xtrans wrappers instead of the now-inaccessible wrapees.

commit f87e66486c3610c56888915b66ae5ab0af03da8b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 18 13:58:35 2008 -0500

xace: Export wrappers around two Xtrans functions used by modules.

  Don't know a better way to do this, since Xtrans isn't a library that
can be linked into modules.

commit 777408914dbf395e9969e3f34720286e6f740369
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 18 12:35:57 2008 -0500

  Add xace headers to the SDK when enabled and export the XaceHooks symbol
to modules.

commit 9e4ef3cfe5e178c266edd64a8edd767827aa0d7
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Thu Dec 18 15:00:25 2008 -0200

  Use regex pattern understood by all known awk variants.

    Ubuntu uses mawk by default, but it doesn't understand posix character
classes (which are locale dependent, and this patch uses only valid C identifiers).

Also make sure awk runs with LC_ALL=C to match the regex patterns.

commit 3d3c234b434a3443a00c3be9f32c698bcceed111c
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Dec 18 16:26:38 2008 +0100

randr: add some notes about the stuff that changed in driver ABI 2

commit 1b244feb4cf11d1cdba79fbead50035965535552
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Thu Dec 18 16:11:21 2008 +0100

randr: check for malloc failure

commit 21a2df9f359584e634dc12d8602401d54defd7db
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Sun Nov 2 20:46:44 2008 +0000

Xming,Cygwin/X: Fix crashes when using the DirectDraw '-refresh rate-in-Hz' option in -fullscreen (#11128)

fd.o bugzilla #11128

Fix crashes when using the '-refresh rate-in-Hz' option in -fullscreen mode and using a DirectDraw engine.
On failure (typically 0x80004001 DDERR_UNSUPPORTED), use the default refresh rate for the driver, instead of the entered value.

Also fix some nearby error reporting

Copyright (C) Colin Harrison 2005-2008
http://www.straightrunning.com/XmingNotes/
http://sourceforge.net/projects/xming/

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit b0ed1567c1782041cf3d14ec6dd4d622915c7d0c
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Dec 17 17:16:02 2008 +0000

Xming, Cygwin/X: Tidy up warnings, headers and unused variables (#11132)

Tidy up various warnings, include headers and unused variables, etc.

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 15c4a6e088039e14b4f2387ff204cb5448916b39
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Wed Dec 17 16:44:07 2008 +0000

Xming, Cygwin/X: Fix crash in function winMultiWindowGetTransientFor() (#11147)

The function winMultiWindowGetTransientFor() crashes, due to a bogus pointer
dereference, but this fact was previously hidden by the function not being called!

Signed-off-by: Jon TURNLEY <jon.turney@dronecode.org.uk>

commit 08a3d6928c87032998b6113d67f69b79b09eeceee
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Dec 16 14:19:12 2008 +1000

dix: Allocate the space for the DCCE when the last SD is removed.

This still doesn't fix reset the MD's classes (a TODO that's been here for
ages), but at least we don't segfault anymore when detaching the last SD.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
- Check for xf86_config being NULL.
- Increase crtc abi to 3.
- A few other fixes.

commit bf65523ab0b39774f07a7ae478ff3f5653fad469
Author: Joe Krahn <jkrahn@nc.rr.com>
Date:   Sun Nov 2 20:17:03 2008 +0000

Cygwin/X: Fix for mis-aligned icon data creates bad background masks (#4491)
fd.o bugzilla #4491

Transparent icon backgrounds appear with black stripes as mask data is incorrectly aligned.
Modified the icon DDB bitmap data alignment to 16 bits

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 91f73b79b7ae64e5b846d1efeb470bb61a913720
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Dec 17 16:56:26 2008 +0100

randr: Improve per-crtc gamma support.
- The Gamma values from the monitor section are now used during initial config.
- The old colormap system is disabled when gamma set hook is available.
- Gamma values are now persistent for the lifetime of the xserver.
- This requires no driver changes and should be driver ABI compatible.

commit 1556815d34cecb4b4b62d2a4ce813b1435a937ec
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Sun Nov 2 18:27:18 2008 +0000

Cygwin/X: Initialize native HWND atom when built !XWIN_MULTIWINDOWEXTWM

Fix the native HWND atom identifier to be initialized correctly, when built without external WM support
This is neccessary for native window naming to work correctly in multiwindow internal WM mode.

Signed-off-by: Jon TURNNEY <jon.turney@dronecode.org.uk>

commit 92082a0a00f05ecde90814a8104828853c9c8f29
Author: Jon TURNNEY <jon.turney@dronecode.org.uk>
Date:   Sun Nov 2 18:27:15 2008 +0000

Cygwin/X: update to use standard DPMS stubs

Bring Cygwin/X up to date with DPMS API changes by using the standard stubs
Cygwin/X: update for changes to shadow framebuffer

Bring Cygwin/X up to date with the change to damage-based shadow framebuffer.

Register the screen bitmap as the shadow framebuffer after screen resources are created.

Cygwin/X: enqueue a pointer motion event on mouse movement

Bring Cygwin/X up to date with mieq event API changes

Cygwin/X: update for changes in mieq API

Bring Cygwin/X up to date with MPX device API changes

Cygwin/X: update for MPX cursor API changes
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35712

Bring Cygwin/X up to date with cursor API changes

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit d61e902aab92c262e6c8ee9cd70aec4493cf6cae
Author: Francis Giraldeau <francis.giraldeau@revolutionlinux.com>
Date:   Wed Dec 17 09:49:39 2008 +0200

Don't log audit messages when -audit 0 specified

make the auditTrailLevel check more general and don't log when not
using DTRACE and -audit 0 is set.

commit 295a3fa721ee2f2226891de308c0c4b0ee26fe72
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Wed Dec 17 02:04:12 2008 -0200

Ensure symbols required by swrast_dri.so are visible.

commit 6d8ea5104cf97dbf64612f58fc06f94f869ed5ec
Author: Colin Guthrie <cguthrie@mandriva.org>
Date:   Tue Dec 16 17:44:27 2008 -0500

Fix compilation with -Werror=format-security

commit 1bb5a919f4bf38ae96c73077021b0cdec82965f31
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 16 13:46:59 2008 -0500

config: Add vboxvideo and tga to the magic driver list

Also sort the list while I'm here.

commit 8511a964f81b3b06a526f0fca4232afb2152f405
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Dec 16 18:21:20 2008 +0100

randr: Update EDID_ATOM_NAME to reflect RandR 1.3 name change

commit a058192d970f7417b06334aa666c17e9891795c6
Author: Owen W. Taylor <otaylor@redhat.com>
Date:   Wed Oct 22 16:12:53 2008 -0400

Xephyr: Fix crash with control-shift and GLX (#18185)

When we are looking up the screen for an event, we need to take
into account the fact that the event may have been delivered to the
"peer window" that we create when implementing GLX. Since we only ever create one such window per screen, just add a single peer_win field to EphyrHostScreen.

commit 6e85a8304b50c0bfdf16a400a05d257f0168fb99b
Author: Jon TURNERY <jon.turney@dronecode.org.uk>
Date: Sun Nov 2 18:27:09 2008 +0000

Cygwin/X: build machinery fixes

The Cygwin/X build has been broken for a long time, probably since modular X. This patch fixes up configure/makefile and some general build issues (#18568)

Signed-off-by: Jon TURNERY <jon.turney@dronecode.org.uk>

commit 7aa29b9d66c3c0f8af4fafebe92ef0d0c0556d225
Author: Robert Noland <rnoland@2hip.net>
Date: Tue Dec 16 00:07:42 2008 -0500

Support -sharevts on FreeBSD

Bugzilla #11179

Submitted-by: Nathan Whitehorn

Signed-off-by: Robert Noland <rnoland@2hip.net>

commit 063eb6743c0d98dd52d1a9559b804381ee5144d
Author: Keith Packard <keithp@keithp.com>
Date: Mon Dec 15 19:53:45 2008 -0800

Patch brown-bag fix for bug 19017 (scrn->virtualX/virtualY 0 before PreInit)

When a driver uses a crtc during device detection, the scrn has not yet been configured and virtualX/virtualY are still zero. This caused the X server to try and allocate a shadow frame buffer, which couldn't work.

Detect this by checking for zero virtualX/virtualY values.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit fde2f961035609cfff87f8761ef1e0f23e6a9761be2
Author: Keith Packard <keithp@keithp.com>
Date: Mon Dec 15 11:39:24 2008 -0800

Use scrn->virtualX/virtualY in xf86CrtcFitsScreen. Fix bug 19017.

pScreen->width/height are not initialized when doing initial mode setting,
which makes this function incorrectly fail. Using scrn->virtualX should work in all cases though.

Bug 19017 reports a crash in xf86CrtcSetModeTransform when doing a modeset for output probing, long before the screen array is initialized; that was caused by a work-around to set pScreen->width/height so that xf86CrtcFitsScreen could find the right values.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 29a5b0596b396d3e4a8a014cacad3e3ef77467ab7
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 15 11:38:00 2008 -0800

When disabling SIGIO tracking, use SIG_IGN instead of SIG_DFL.

This avoids a race condition for drivers which mis-order the fd close and signal disable.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 1ba4cbb15919759aadd71960c5c057af9ba94fe3
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 15 11:36:43 2008 -0800

Clean up rotation data when crtc is turned off

The shadow frame buffer and other data used for rotation need to be freed when the crtc is disabled, not just when rotation is disabled.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 2a61397d17339113b9e37995b06ca543589814ce
Author: Cooper Yuan <Cooper.Yuan@amd.com>
Date:   Mon Dec 15 10:29:34 2008 -0500

Fix typo in xf86PickCrtcs()

commit 3db60add667f766f9360e7d03492dfd51eba225
Author: Jon TURNERY <jon.turney@dronedrome.org.uk>
Date:   Mon Dec 15 12:42:10 2008 +0000

Cygwin/X: Update the native icon to one based on the X.Org logo

Update the native icon for the X server to one created from the X.Org logo by Colin Harrison.

commit 450739efa904a0f6ce5024372da7236bb7b84b67a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
XQuartz: Updated menu item ordering for better HIG compliance
(cherry picked from commit 4e9bb241ce5fb856f6ab20ae96fa89bd2b71ef242)

commit aee27be2785d8b09ac10f5e040b4d573190de0e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Dec 10 23:04:30 2008 -0800

XQuartz: Tiger fix, don't call Xplugin code in the Appkit thread if Xplugin isn't threadsafe.
(cherry picked from commit 748d9e5bd756513d42c4046f3b31e1fde55bc6b)

commit a939368ab8140d48c1da4ba0bb229d13b221189c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Dec 15 03:18:13 2008 -0800

mi: Reuse memory in mieqProcessInputEvents rather than making excessive calls to calloc()

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>

commit f1c9b5ab230cb4124d8d476ae4886d05022adcb
Author: Ian Romanick <ian.d.romanick@intel.com>
Date: Sun Dec 14 18:58:33 2008 -0800

GLX: Changes resulting from changes to Mesa generator scripts / data

Several recent Mesa commits (listed below) make modifications to the
protocol generator data and scripts. This commit represents the
changes to the generated files resulting from the previous changes.

- 0f73302d24f4201813da2939742e5bcb6964b3b1
  GLX: Fix protocol for glTexSubImage#D

- 1709ab01ef24279c782e420568e9257b4b92b224
  Return 0 as the request size when the pixels parameter is NULL

- 63cca2ba10ce7dceb8481cfa4be3872dfc269ded
  GLX: Include glapi.h before glapitable.h

This is the server-side part of the fix for bugzilla #11003.

commit 6383be93b2ae76361a58653bc7e291df0d6ddfe
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sat Dec 13 15:44:52 2008 +1000

dix: Init DeviceEnterLeave event's type before FixUpEventFromWindow (#19064)
X.Org Bug 19064 <http://bugs.freedesktop.org/show_bug.cgi?id=19064>

commit 49d38ab2328c409b2a98465b52677af057121513
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 2 15:09:57 2008 -0800

Warning fix: Remove dead glXDisp{,Swap}._DrawArraysEXT definitions.

Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Ian Romanick <ian.d.romanick@intel.com>

commit 2c5bfffc832e3818bbf0c0a96522865ce1ef2653
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 2 14:59:04 2008 -0800

Warning fix (GL likes to call strings GLubyte * instead of char *).

Signed-off-by: Eric Anholt <eric@anholt.net>
Acked-by: Ian Romanick <ian.d.romanick@intel.com>

commit 7be6520d94df874c6bbd46d06a1830a12d0967f2
Author: Stuart Bennett <sb476@cam.ac.uk>
Date:   Fri Dec 12 00:08:44 2008 +0000

dolt: allow older versions of bash to compile the xserver (#19031)

Signed-off-by: James Cloos <cloos@jhcloos.com>

commit aeff14d5f208d02f211b8b2a1a98999624e8c2cf
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Nov 25 20:23:50 2008 +1000

dix: don't alloc in ChangeMasterDeviceClasses.

We mustn't realloc as we are inside a signal handler. With
SetMinimumEventSize, this code should never be hit anyway, as the event list
should have the required memory before this code is hit.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit fb2a8d0e59a3d187255538f6add22ec67551507a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Dec 8 15:58:15 2008 +1000

Xi: silence compiler warning

Don't mix declarations and statements.
commit d961abb59f0a8bee4bd11b1540aa43ff83cddbb8
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Dec 11 15:54:15 2008 +1000

dix: fix compiler warning (mixing declarations + statements)

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit cb95642dc8edebb2935dd471f8b339cb98aa8481
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 28 22:28:32 2008 +1000

Remove #define NEED_EVENTS and NEED_REPLIES

A grep on xorg/* revealed there's no consumer of this define.

Quote Alan Coopersmith:
"The consumer was in past versions of the headers now located
in proto/x11proto - for instance, in X11R6.0's xc/include/Xproto.h,
all the event definitions were only available if NEED_EVENTS were
defined, and all the reply definitions required NEED_REPLIES.

Looks like Xproto.h dropped them by X11R6.3, which didn't have
the #ifdef's anymore, so these are truly ancient now."

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 920b7622be4a68ebbb5d8432f55c5362fbc964f0e
Author: Simon Thum <simon.thum@gmx.de>
Date:   Tue Nov 25 14:28:26 2008 +1000

xfree86: dump the ptraccel filter setup to the log on init.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit fbb57a2c54b141ccbb50833143b0b7cb2c4cb903
Author: Simon Thum <simon.thum@gmx.de>
Date:   Tue Nov 25 13:43:28 2008 +1000

dix: ptraccel - Add GetAccelerationProfile()

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit beb749c87f383a62172a9ffa36373438e7a12d8e
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Dec 11 17:04:37 2008 -0500
Fix syncsrv.h guard define

commit 9fba808b4f43f5dc69d85a48fa40cb83dd4d9f9d
Author: Colin Harrison <colin.harrison@virgin.net>
Date:   Thu Dec 11 13:22:53 2008 -0500

xsync: Prototype fix.

commit dce887ff53222652c397be96a1dd3566f5847745
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Dec 11 13:16:02 2008 -0500

xsync: build fix

argh protocol header disaster

commit d41b8960be8ad316504ef5657c0abfe6d76d3b5e
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 11 18:48:02 2008 +0100

randr: Fix initial panning border copy

Thanks to Julien Cristau for finding this.

commit fd77ce9f884f5ac4d36736f3a99ba86101f133ea
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 11 17:51:20 2008 +0100

randr: Oops, miscalculated panning rectangle's coordinates

commit f8e52f1b6d7c59d007de99a1e9c69c053d4f3cbe
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 11 16:48:40 2008 +0100

randr: Update initial screen size if panning information is present

commit 24d6b7d1c5fc5d07c2eb06a9fc4406e393d59b17
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 11 16:48:11 2008 +0100

randr: Fix error message for bad panning config

commit fdbbe65a7e777b7777bfae5a161efb89d4fb9a8d
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 11 14:56:51 2008 +0100

randr: Add monitor option "Panning" for initial panning configuration
commit 27261a950d91c352eac25a3036656c3e4f81fb12
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Thu Dec 11 14:43:04 2008 -0200

Modify sdksyms.sh to receive $top_srcdir as first argument.

If the basename of header file processed by cpp matches $top_srcdir, check for extern symbols in the output, and add to the xorg_symbols vector.

Possibly a better solution then using this script would be to somehow tell the linker to not drop any symbols from the binary being generated.

commit 1f4fb0225b278d1cf4145aebeb0bddd23dc8f62d5
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Dec 10 16:13:20 2008 -0500

xsync: Fix wakeup storm in idletime counter.

Wakeup scheduling only considered the threshold values, and not whether the trigger was edge or level.

See also:
https://bugzilla.redhat.com/show_bug.cgi?id=474586
http://svn.gnome.org/viewvc/gnome-screensaver/trunk/src/test-idle-ext.c?view=markup

commit 1a99110f0c221b79045ea26d61c4a1ec1e0d7341
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Dec 10 14:18:59 2008 -0500

xsync: ANSI cleanups

commit e0d8f6a8084a3fe6c549c1dee11e4502e316c382
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Dec 10 13:32:04 2008 -0500

xsync: Use a local header for server API definitions

commit 1208a1dbcaecbc218a77bf51068f9c0c768e16c5
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Dec 10 11:47:35 2008 -0500

xsync: remove cast abuse.

commit 119d9c46e841f5fa35610f557e6fa1ec5887c24
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Dec 10 01:56:01 2008 -0800

XQuartz: Fix path to executable
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35720

commit c46b564c47fde3474e948aa1b188a975836cb4a7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Dec 10 00:00:29 2008 -0800

XQuartz: fixed make dist
(cherry picked from commit 2d52367ab92429e58596d1a1ed3ef52a038a7aa)

commit 23156a21d8e2f1be7d19d69cb91dae1b885e671
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Dec 9 23:48:18 2008 -0800

XQuartz: Make debugging output for invalid depths a bit more detailed
(cherry picked from commit 609f16b7062c76f0561df1f2fe893811f6ac8f)

commit 76351d2fa9eb799aa0b374e203b8b279c8f3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Dec 9 23:47:32 2008 -0800

XQuartz: Avoid using login /bin/sh blech. Just use a bash script to start the app, so it will inherit the right environment
(cherry picked from commit f4b7ad9cc6b0ce99fc7ee8516ec4bf858ece938148)

commit e5ce6e198f4e245f4dc840c5e9e90a7ef80fb6e9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Dec 8 21:59:49 2008 -0800

XQuartz: unset DISPLAY if we didn't get a launchd socket handoff
(cherry picked from commit b959727f38733009c6381cc8ca06b5984257bdac)

commit ecaaf0462d6c70cabfcaf6868a526e5415505e2c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Dec 8 21:00:11 2008 -0800

XQuartz: unsetenv(DISPLAY) if we're not org.x.X11
Also some prefix related fixes.
(cherry picked from commit fd459e96581a883e30323c840b71004aa0747169)

commit ea94995982d1cc585768d52f67ec75cae018457fa5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Dec 6 12:01:28 2008 -0800

XQuartz: Removed some debug spew
(cherry picked from commit 370dcf11b360b87aa24cace35eb615419057fda0)

commit 86c64ddf21763972aa7fc8c5770259123c9907b3
Author: Adam Jackson <ajax@redhat.com>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35721

Date: Mon Dec 8 17:42:47 2008 -0500

randr: clear primaryOutput when the output is deleted

commit fe65f400ed16cb39db8c9518b9446f590c34db1a
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 8 17:40:07 2008 -0500

randr: use primary output for RRFirstOutput()

commit cdcb516e561e2f65eb2fa523ca001c57674d5caf
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 8 17:37:17 2008 -0500

randr: Mangle GetScreenResources sort order based on primary output

commit d7b316e82be7051f8829b4f4a640f50ae91c2db9
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 8 17:28:55 2008 -0500

randr: Mangle compat Xinerama reply based on primary output

commit 9d58d2a3190599989ecdf758586149ccde16df6
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Dec 9 10:51:37 2008 -0500

randr: Add [GS]etOutputPrimary

commit d281866b74f7067f2704e278fe9720eafc0ee5ef
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Mon Dec 1 21:20:48 2008 +1000

mi: Clean up CopyGetMasterEvent, re-use the memory.

Alloc an EventList once and then re-use instead of allocating a new event each
time we need a master event.
There's a trick included: because all the event processing handlers only take
an xEvent, init a size 1 EventList and squash the events into this one.

Events that have count > 1 must be squished into an xEvent array anyway before
passing into the event handlers, so we don't lose anything here.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
Acked-by: Daniel Stone <daniel@fooishbar.org>

commit 0b4ef6337d88ae8ef05b8b73941350a9007565c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Dec 10 11:35:09 2008 +1000
dix: move MAX_VALUATOR_EVENTS into include/input.h

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit b36c398b11321a908cfe217108b26a32ffe1d850
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 8 16:41:20 2008 +1000

dix: purge dead device-based window access code.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit aa71ac1dd4697738752c73fe4c106b665ea3ec25
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Wed Dec 10 00:32:34 2008 -0200

Add dependency tracking to sdksyms.c and export composite wrapper.

   Thanks to David Miller for noticing a make problem with sdksyms.c not being regenerated when sdksyms.sh is updated. This is not yet the best solution; automake generates dependency for sdksyms.o, but the build really should also regenerate sdksyms.c when sdksyms.o needs to be regenerated.

   Export the symbols in miext/cw/cw.h. These symbols are in libxaa, and at least the nvidia driver uses them. Maybe cw.h should be installed in the sdk.

commit 090f63123975220819d531f569df6e5787607ec6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 8 11:53:20 2008 +1000

mi: always update the sprite for master devices.

   Follow-up to 9ce995373e4a. This re-enables cursor rendering if the MD is controlled through software (e.g. synergy).

   Reported by John Tapsell: "I use Xorg with no mouse attached, but use synergy to control the mouse. The commit means that I no longer have a visible mouse cursor. The mouse cursor is still 'there' in terms that I can click buttons etc with it, but it's just not visible."

   Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 7c8720c1433d2c3b85bbf4b811cc54c2df4e0080
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Mon Dec 8 22:11:50 2008 -0200
Correct wrong symbol reference on sparc.

The awk script was incorrectly referencing the struct name, and not the struct variable.
Also added some comments to sdfsyms.sh, for the reason it generates the "symbol table" and add a message to the generated file, telling is was automatically generated.

commit 58a27d2932164e43c0db42b1286ec2f95250b420
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 8 16:28:00 2008 -0500

Default to x86emu even on i386 linux

vm86 mode is a bad idea anyway, and using the emulator everywhere means we get a consistent set of bugs.

commit bbdf11514d3cdef84790bad5b85242a4e636902b
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date: Mon Dec 8 12:24:39 2008 +0100

ddxCtrls.c: XkbDDXUsesSoftRepeat always returns 1 now

We'd like to do soft repeat in the server for all keys. Remove obscure check, that'd prevent the server from autorepeating when delay is set to exactly 660ms and rate is set to exactly 25 (interval=40).

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 8c1dd40a04693f09f4fcea6e7f905af34c7589de
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date: Mon Dec 8 14:49:38 2008 +1030

Don't use gnu specific extensions to awk when builing symbols

Traditional posix awk doesn't know about \W and whilst we check that awk exists in configure.ac we don't check which awk we are using. This corrects symbol generation for posix only awk.

commit 39db182b637041255ed6d6ac739ff77c8e4e07c30
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Dec 8 12:12:39 2008 +1000

xfree86: init EQ before trying to initialise the devices (#18890)

The kbd driver may send events during device initialisation, and these events need the EQ set up already.
X.Org Bug 18890 <http://bugs.freedesktop.org/show_bug.cgi?id=18890>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 78a62d7713c708d067d8824ec41b0a0225c1997f
Author: Tom Jaeger <ThJaeger@gmail.com>
Date: Mon Dec 8 11:38:12 2008 +1000

Xi: XIGetDevice needs to ignore the MORE_EVENTS flag.

Reported in X.Org Bug 18882, Comment 5.
<http://bugs.freedesktop.org/show_bug.cgi?id=18882>

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit ee1a6c28418a6dad6c89f79a994f27bfaa77368
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Fri Dec 5 10:12:57 2008 +1000

dix: fix calculation of valuator events.

Follow-up to 4971315296cb. countValuatorEvents was copied from GKVE where it was obviously broken but nobody noticed. GPE had the correct version, but that one got lost during de-duplication. Restoring the correct calculation - if we have 6 valuators, we want 1 valuator event, not 2.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 13de7511b17b57a28668e1a60b196ccfe61dbcbe
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Dec 4 10:30:02 2008 +1000

xfree86: Only use the evdev ruleset on linux.

As suggested by Julien Cristau

This is an follow-up to
commit 9c5dd7337fa93fb1650cc017e523b939d6bf482a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Dec 3 14:24:25 2008 +1000

Let the DDX decide on the XkbRulesDefaults.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Acked-by: Julien Cristau <jcristau@debian.org>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 8e3279134987a45f2a89e963ef2d33bc3d3c8179
xfree86: fix compiler warning (use of uninitialized variable)

drv and idev are only set for SDs, but are only dereferenced for SDs too, so initializing them to NULL is safe.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 22d4ddcc3d63b7fbb2a23f5162075e4ee06db781
Merge: d2dad384f5 e3bb15ba85
Author: Matthieu Herrb <matthieu@crux.(none)>
Date: Sun Dec 7 23:56:15 2008 +0100

Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver

commit d2dad384f5725a36e593fd75f03d712f53b20620
Author: Matthieu Herrb <matthieu@crux.(none)>
Date: Sun Dec 7 23:52:26 2008 +0100

Fix build in separate build directory.

commit c3bf15ba85fd3ab2e1fe80942b75bf34db25cc8
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Sun Dec 7 18:52:23 2008 -0200

Require macros 1.2.0 or newer for XORG_CHANGELOG and XORG_CWARNFLAGS.

commit 5a8068b390b7d30eb526e954443d8e43a199b971
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Sun Dec 7 18:31:32 2008 -0200

Convert libx86emu.a to a "libtool convenience library".

commit ed4a17274015ecd8040ae85bd5cd9d1dbcc9460a
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Sun Dec 7 14:59:25 2008 -0200

Export some symbols from libxf86config when installing it.

These are private symbols, but used by the X Server.
The newly exported symbols were not added to the sdk headers.
Optionally, libxf86config could be compiled without hidden symbols when being installed.
Thanks to Maarten Maathuis for noticing the problem.

commit bf4c29ab48a166eb158cf4be7c597982d65ef214
Correct xf86acpiDisableFlag symbol.

It is declared as
<hash>ifdef HAVE_ACPI
Bool xf86acpiDisableFlag = FALSE;
<hash>endif
in hw/xfree86/common/xf86Globals.c
but not protected by the ifdef in the sdk header xf86Priv.h, what
caused a build failure in the tinderbox, due to the address of the
symbol being taken (to ensure it is available) in sdksyms.c.

commit b1dac41fb3853ca8182048ea57b88b6e84ecceb3
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Sun Dec 7 02:22:19 2008 -0200

Use libtool convenience libraries and better "symbol" table.

All .a libraries were converted to .la, and instead of linking the
Xorg binary with a mix of .a and .la, and adding some libraries more
then once in the command line, etc, now it generates a single libxorg.la
from all the required convenience libraries, and links with a dummy
xorg.c (that should usually be the file with the main function...).
This removes the requirement of some things like libosandcommon and
libinit, that existed to circumvent problems when linking multiple
.a and .la in the final Xorg binary.

The "symbol table" is now generated dynamically, by a shell script,
with an embedded gawk parser that parses cpp output. The new file
sdksyms.sh is generated by hand by analyzing all Makefile.am's and
making it create a sdksyms.c file, that includes all sdk headers that
will add symbols for the Xorg binary. Module headers aren't read, and
a in 2 files it was required to add a "<hash>ifndef XorgLoader" around
declarations shared between the Xorg binary and libextmod. A few
other changes were added to other sdk headers, like preventing
multiple inclusion, or including other headers to satisfy dependencies.

This should be a lot more portable, and better (hopefully properly)
using libtool to generate convenience libraries.

commit ccd2c6b8e13863ed704f86b29fc6b3ee628e56a2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Dec 6 14:11:52 2008 -0800

XQuartz: darwinPointer reports the actual pixel position now rather than a relative position
(cherry picked from commit a41e7f75dec340d064f6d0d2c4fe6c88d7d8c82)
commit 7ebd0c7e8d42a13079957d9bae1f5cb30d7855a59
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Dec 5 12:42:31 2008 -0800

XQuartz: Corrected name/command labels in the customization widget
(cherry picked from commit a689c23f17eb445c36b97eb617ef4b8bd157985f)

commit 027ff97a1354ab4c83fe3eb615f66bc2a6b739b871
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Dec 5 12:00:08 2008 -0800

Make sure _X_EXPORT is defined in edid.h

Fixes build error in xf86-video-intel utilities

commit 466b0fc9ba5d5e7fb36e47a6d1bd60218f51c75
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Fri Dec 5 17:01:09 2008 -0200

Add back a simplified version of the loader static address tables.

If not taking the symbol addresses, linkage will break badly, as not all symbols will be present, and it also requires changing library order, and/or making some changes like the "libosandcommon".

This table should be modified to be generated automatically, as it is required to "fool" the compiler/loader into adding all required symbols to the X Server.

commit 44bef8b850c5a78a3d3eca5f0d42b71bdd0a87e2
Author: Matthias Hopf <mhopf@suse.de>
Date:   Fri Dec 5 15:37:15 2008 +0100

randr: Update SProcRandrVector for panning

commit 44c8c3cf7de589fb8e987f4ab931294eaf0b405f
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Fri Dec 5 04:26:57 2008 -0200

Remove static symbol address tables in hw/xfree86/loader/*sym.{c,h}

Those tables were once used to decide what symbols are visible to modules, but they were outdated. The only real usage was that, since it was taking the address of symbols, linkage should fail if the symbols were not available.

Now the proper way to make symbols available to modules should be to use the _X_EXPORT macro, or not compile with hidden symbols,
so that all symbols would be available.

All symbols in the tables were revised to ensure they are exported, and only symbols that were not exported are ClientSleepUntil() and DuplicateModule(), that were not in the sdk for quite some time already, and should not have any users outside of the X Server (and/or builtin modules).

commit 091a50d1260c70055aba1fa6a2d1b1a36de1114e
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Thu Dec 4 18:23:25 2008 -0200

Move _X_EXPORT attribute to header file.

The attribute should be set on header files to make it easier to manage what symbols are available to modules.
_X_EXPORT should be used in sources only for special cases, like symbols that must be visible by non video/input driver/modules but should not be "advertised" in the sdk.

commit e5ab9e66628cde081757cf2a1013a78e927a622e
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 4 18:13:40 2008 +0100

randr: Allow panning to be disabled per axis

commit bad118ace6c5bae5a5ed8a35129c90c38f1c1932
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 4 16:55:14 2008 +0100

randr: Rework panning area verification

commit 219c26ce0c65625d55cfd943ec66fe94a1a0ddfd
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 4 16:28:40 2008 +0100

randr: Don't change panning parameters if verification fails.

commit 18a8bac1a1567b6215928f96870554ea63f39aab
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 4 16:30:38 2008 +0100

randr: Rename pan() to set_origin(), and xf86CrtcPan() to xf86CrtcSetOrigin()

commit 825b2c2f4a59ac4852f90bbbddf18ab832297fdd
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Dec 4 16:11:21 2008 +0100

randr: Nuke config-timestamp for panning
commit eeeb98d1df59baaeec954b6318d788a37e388d11  
Author: Matthias Hopf <mhopf@suse.de>  
Date: Fri Nov 28 17:51:20 2008 +0100

randr: Protocol bits for panning support

commit b929d721efdb7bccc94b99984c4f34d0df3d267d5  
Author: Matthias Hopf <mhopf@suse.de>  
Date: Fri Nov 28 17:49:31 2008 +0100

randr: Panning support

commit 834bc16f3eb539704faade7b7f347b161ce69d9  
Author: Matthias Hopf <mhopf@suse.de>  
Date: Fri Nov 28 17:39:23 2008 +0100

randr: Crtc interface update for panning support.

commit a475eb9f9eece75e9ce1e316da0f1679acd7dd3aa8  
Author: Matthias Hopf <mhopf@suse.de>  
Date: Fri Nov 28 17:38:52 2008 +0100

randr: Weird enough, crtc->version was never set upon creation. Fix that.

commit 9db84fac0cc767e239862223d22bc085ede0cc86f  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Tue Dec 2 14:54:10 2008 -0800

Removed unisde option from configure.ac for launchd  
(cherry picked from commit 87e4de0a9a8af6e5e0cbba74e585761f1160a6ab)

commit fa4f2527a5002711fe47c02b14097032fd845dc4  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Tue Dec 2 14:53:21 2008 -0800

XQuartz: pbproxy: Simplify linking  
(cherry picked from commit 909cc5c4dca0f63e90505575bdd454b46a4670cc)

commit 126d8a4c8a72b039903023de0da64b251080e1d  
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>  
Date: Thu Dec 4 02:43:29 2008 -0200

Update .gitignore.

Add files left by make distcheck and remove files that no longer are generated.
Correct make distcheck by removing dolt files.

Remove dummylib.

Only cvt required it, and only used XNF{,c}alloc
via xnf{,c}alloc macros.
Based on patch by Eric Anholt.

Move RELEASE_DATE closer to AC_INIT so it's more likely to be updated

Include <X11/Xfuncproto.h> if _X_EXPORT is not defined.

If AEI is on, disable 'vmmouse' in addition to 'kbd' and 'mouse'.

Randr: add swapped dispatch for RR[GS]etCrtcTransform

Fix a memory leak in ProcRRGetCrtcTransform() while I'm at it.
commit 110a71d11ab7a1a55a6a24d792457fdef0b0746d
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Dec 3 11:22:38 2008 -0500

Test for DRI2 extension in dri_internal.h and only enable AIGLX DRI2 if found.

commit fd2d40b7ec5d685dac55453eb1f2da672dc83126
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Dec 3 11:31:48 2008 +1000

Xi: change XIUnRegisterPropertyHandler to XIUnregisterPropertyHandler
CamelCase can be taken too far, and AFAICT there's no consumers of that function yet anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 49f77fff1495c0a2050fb18f9b1fc627839bbfc2
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Wed Dec 3 05:43:34 2008 -0200

Rework symbol visibility for easier maintenance

Save in a few special cases, _X_EXPORT should not be used in C source files. Instead, it should be used in headers, and the proper C source include that header. Some special cases are symbols that need to be shared between modules, but not expected to be used by external drivers, and symbols that are accessible via LoaderSymbol/dlopen.

This patch also adds conditionally some new sdk header files, depending on extensions enabled. These files were added to match pattern for other extensions/modules, that is, have the headers "deciding" symbol visibility in the sdk. These headers are:
  o Xext/panoramiXsrv.h, Xext/panoramiX.h
  o fbpict.h (unconditionally)
  o vidmodeproc.h
  o mioverlay.h (unconditionally, used only by xaa)
  o xfixes.h (unconditionally, symbols required by dri2)

  LoaderSymbol and similar functions now don't have different prototypes, in loaderProcs.h and xf86Module.h, so that both headers can be included, without the need of defining IN_LOADER.

  xf86NewInputDevice() device prototype readded to xf86Xinput.h, but not exported (and with a comment about it).

commit 0b8f8b24f718820a72ebdc52423c2e6a44e848c5
Author: Stuart Bennett <sb476@cam.ac.uk>
Date: Tue Dec 2 22:52:53 2008 -0800

xf86Cursors: xf86_reload_cursors shouldn't unconditionally show hwcursor (#14820)

Also, no need to call ShowCursor when SetCursorPosition already does it
Based on a previous patch by Maarten Maathuis

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 9c5dd7337fa93fb1650ce017e523b939dcbf482a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Dec 3 14:24:25 2008 +1000

Let the DDX decide on the XkbRulesDefaults.

Rather than assuming rules in the CoreKeyboardProc, init the default rules in InitCoreDevices, then re-use them later.

In the xfree86 DDX, set the rules to "base" or "evdev", depending on whether we'll load kbd or evdev.

If we create a new MD, use pc105,us as default and re-use the rules file used previously.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 463e02e7de5da3e582a3a049110a476713c7210e
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Dec 3 15:06:37 2008 +1000

xkb: Allow NULL as rulesFile in XkbSetRulesDflts.

If no rules file is given, simply re-use the previous one. If no RF is given the first time this function is called, use the built-in default.
This includes fixing the built-in default to something that actually exists.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit e670fd889607fa712876218882cd4a9b46937661
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Dec 3 11:55:13 2008 +1000

dix: fix GetMaximumEventsNum(), may return a DCCE event too.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 85d84c7cf2d368d1803de2cdd03d6c9df8cc0430
Author: Eric Anholt <eric@anholt.net>
Fix GLX after 180bad84774493d48f2793a6281d825560944863.

Sigh.

commit 4a61ad427c634bce38a31ce0f14ff5e2d3f706c7
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 2 14:35:45 2008 -0800

Update sample xorg.conf file

commit c1db925d10fd37077bed90612ed95c3fd20cd2e2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 2 14:32:48 2008 -0800

Add atKeynames.h to libdmxinput_a SOURCES so it's included in tarballs

Reported by geearu in #xorg-devel

commit 8561514574b3540c729bce3acca9c943adce778
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 2 13:32:34 2008 -0800

Don't need to check uid/euid for every commandline argument

Check uid/euid only when handling the arguments that are restricted
to root/non-setuid users

commit 6de6fff35ac03d49fa61de195d4a0605e0ef8bf
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 2 13:19:08 2008 -0800

Remove unused config flags from FlagValues & FlagOptions

    FLAG_DISABLEMODINDEV, FLAG_MODINDEVALLOWNONLOCAL, &
    FLAG_HANDLE_SPECIAL_KEYS

commit bb072019fa8d292a50ef433d05caefd1304a73
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Dec 1 16:57:06 2008 +1000

xfree86: don't render SW cursors for devices attached to VCP (#16805)

When leaving 3D games such as quake3 or sauerbraten, a cursor may stay on the
screen. This is caused by one run of SW rendering for the SD, even though the
SD was attached to the VCP and thus has HW rendering capabilities.
Check for the SD's attachment (like in all other functions) before deciding on SW or HW rendering.

X.Org Bug 16805 <http://bugs.freedesktop.org/show_bug.cgi?id=16805>

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 3a690598cf18c4d66d10a1ecf0772c432a4b
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 2 12:59:57 2008 -0800

Remove unused HandleSpecialKeys config option

Was only used by "keyboard" driver - the last place the value was checked
was in xf86PostKbdEvent, which was removed in commit
60ea7b51fe2b8a19a08b63db48504971a7a50ee6

commit 1dfed222e93f4684c2a45094e4a9a0ea9e085c43f
Author: Bernhard Rosenkraenzer <bero@arklinux.org>
Date:   Tue Dec 2 09:01:56 2008 +1000

Xext: fix MultiBuffer compilation error with TryClientEvents. (#18835)

X.Org Bug 18835 <http://bugs.freedesktop.org/show_bug.cgi?id=18835>

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 9ce995373e4aa4b1bf51b4adafa2324f781ec1cd
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Dec 1 21:32:39 2008 +1000

  mi: UpdateSprite only if the device is attached.

commit d507f60689f4e14383b0d24e63afc8cf836360d5
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 26 14:15:04 2008 +1000

  xfree86: don't FatalError on "too many input devices".

  Just ignore devices after MAXDEVICES has been reached, but warn the user that
  the devices are ignored.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 9bf761468fa3baf4c5fa40efa717b4b581d920f9
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 28 11:44:58 2008 +1000
Xi: fix xi_filters size.

commit 260e48c252c95fd1b1ba9ad7478791f6b9a67e2d
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 28 11:29:06 2008 +1000

dix: remove confusing (and wrong) comment. VCP is not the only pointer.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 5d02e580d7c4144ea6f0984240fc913e05fec877
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 28 11:46:15 2008 +1000

dix: use UpdateFromMaster in GetProximityEvents.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 95fc59a199f99bf167fbb09297a9bb0e33e31869
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 28 14:55:15 2008 +1000

xkb: Extra sanity checks to prevent dev->key == NULL dereferencing.

commit a425abf0eaa61ee5cchb2f32a1af24edd1907889
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 26 12:20:00 2008 +1000

xkb: don't attempt to filter events for devices without key classes.

Reported by Magnus Kessler.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit a85f0d6b98237d8a196de624207acf1983a1859a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 26 11:15:05 2008 +1000

Xi: fix use of button->down - bitflags instead of int arrays.

The device's button down state array was changed to use DOWN_LENGTH and thus
bitflags for each button in cfc83da7.

Update the DBSN events to copy this bit-wise state.
Update xkb and Xi to check for the bit flag instead of the array value.

Reported by ajax.
Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 180bad84774493d48f2793a6281d825560944863
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Tue Dec 2 02:50:45 2008 -0200

Add visibility flags to XSERVER_CFLAGS.

This is done to actually change DIX_CFLAGS, as not all "modules" use
XORG_CFLAGS.
Also export the symbols that are required by other modules after
the change.

commit 8c560422b44e012053612754430d2b87dc44ed59
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 1 20:02:34 2008 -0800

More man page updates for 1.6 release for Xorg, xorg.conf & exa man pages.

- Remove remaining references to XFree86-Misc options AllowNonLocalModInDev
  and DisableModInDev.
- Remove remaining references to grab-breaking keys & associated options.
- Update description of Ctrl-Alt-Backspace to new -retro/DontZap defaults.
- Add description of new options -modalias and -showopts.
- Update list of modules loaded by default.
- Update input driver references from keyboard to evdev & kbd.
- Update list of driver man pages to match xf86-*.drivers with man pages.
- Add See Also section to exa man page.

and various formatting/typo/etc. fixes.

The Xorg/xorg.conf sections on input device selection could use further
updates to better match the current state of HAL-enabled configuration.

commit 6a1850b8c677e2a2993f6f6b731ee3d35aa55d09
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 1 19:19:04 2008 -0800

Correct warning for unknown GlxVisuals option in conf file

commit afeacb8e74b2a1e366e5ca9f0e58805d8d96c457
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Mon Dec 1 20:53:17 2008 -0500

Bump dri2proto requirement to 1.99.3.

commit ad01e86b5c7c528adec8a1f95ecaa29458a8922
Author: Kristian Høgsberg <krh@redhat.com>
Drop unused DRI2 vblank infrastructure.

For this first iteration of DRI2 we don't have any vsync functionality in place yet, so back out the support in DRI2 and the protocol for now.

commit 24c562f04b41d219c34f5fa3f963564accf329f2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 1 16:28:45 2008 -0800

Update See Also lists in Xorg & xorg.conf man pages

Remove xorgconfig & xorgcfg
Update driver lists:
- Remove vga
- i810->intel
- via->openchrome

commit bd147e66f4b03f344c967c88fd433877b14fe1912
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 1 16:08:55 2008 -0800

Remove hack to only load font modules if magic strings appear in font path

commit 5f3f14179edf48aad518f6f707bf6c37e27267c6
Author: Jay Cotton <jay.cotton@sun.com>
Date:   Mon Dec 1 16:06:09 2008 -0800

Sun bug 6618220: Xorg server core dump in xf86RandRModeRefresh(NULL)


commit 09df7cc5ad7b72d8a23c3e22fc718aad8c16f4d3
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Mon Dec 1 12:41:10 2008 -0500

Avoid dereferencing NULL pScreen in xf86CrtcSetModeTransform().

We can get there during PreInit as we set a mode for load detection.
At that time there's no pScreen anywhere, so just skip the optimization then.

commit b0d371ab0a6efd4956c3677f7aa2b2ac15c33765
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 1 11:36:06 2008 -0500

randr: Don't send output property events on server exit
If the Window resource type is already gone, there's no point in trying to send events, all it can do is access already-freed memory.

Relevant thread:


commit 16b11cd03d8c5def07f0e598f237f71a37883a46
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Sun Nov 30 02:59:34 2008 -0200

Correct static symbol XkmReadTOC and first pass on compile warning fixes.

The warnings corrected were only the ones that should correct real problems. The most common one is 64 bit integers as "printf %l" arguments.

Note that there is a patch related to this at:
http://bugs.freedesktop.org/show_bug.cgi?id=18204

commit fb22d4d928bc5d1a893494a059359da2ed2ac639
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Sun Nov 30 01:33:20 2008 -0200

Remove declarations of symbols that are never defined.

These symbols were removed from the X Server, or never declared.
One symbol that may need special attention is XkbBuildCoreState(),
that doesn't have a prototype anywhere, but is called from
xkb/xkbEvents.c:XkbFilterEvents(), and also used by the macros
XkbStateFieldFromRec() and XkbGrabStateFromRec() defined in
include/xkbstr.h.

fb/wfbrename.h also may need some cleanup, as it makes several "renames" of non existing symbols.

commit d6c8d4511e35a89a0353f11834c6f88d4d2189f
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Sat Nov 29 23:56:06 2008 -0200

Export symbols defined in the sdk.

This is the biggest "visibility" patch. Instead of doing a "export" symbol on demand, export everything in the sdk, so that if some module fails due to an unresolved symbol, it is because it is using a symbol not in the sdk.

Most exported symbols shouldn't really be made visible, neither advertised in the sdk, as they are only used by a single shared object.
Symbols in the sdk (or referenced in sdk macros), but not defined anywhere include:
XkbBuildCoreState()
XkbInitialMap
XkbXIUnsupported
XkbCheckActionVMods()
XkbSendCompatNotify()
XkbDDXFakePointerButton()
XkbDDXApplyConfig()
_XkbStrCaseCmp()
_XkbErrMsges[]
_XkbErrCode
_XkbErrLocation
_XkbErrData
XkbAccessXDetaiText()
XkbNKNDetailMaskText()
XkbLookupGroupAndLevel()
XkbInitAtoms()
XkbGetOrderedDrawables()
XkbFreeOrderedDrawables()
XkbConvertXkbComponents()
XkbWriteXKBSemantics()
XkbWriteXKBLayout()
XkbWriteXKBKeymap()
XkbWriteXKBF ile()
XkbWriteCFile()
XkbWriteXKMFile()
XkbWriteToServer()
XkbMergeFile()
XkmFindTOCEntry()
XkmReadFileSection()
XkmReadFileSectionName()
InitExtInput()
xf86CheckButton()
xf86SwitchCoreDevice()
RamDacSetGamma()
RamDacRestoreDACValues()
xf86Bpp
xf86ConfigPix24
xf86MouseCflags[]
xf86SupportedMouseTypes[]
xf86NumMouseTypes
xf86ChangeBusIndex()
xf86EntityEnter()
xf86EntityLeave()
xf86WrapperInit()
xf86RingBell()
DGADeliverEvent()

SPECIAL CASES
- defined as _X_INTERNAL
  xf86NewInputDevice()
- defined as static
  fbGCPrivateKey
  fbOverlayScreenPrivateKey
  fbScreenPrivateKey
  fbWinPrivateKey
- defined in libXfont.so, but declared in xorg/dixfont.h
  GetGlyphs()
  QueryGlyphExtents()
  QueryTextExtents()
  ParseGlyphCachingMode()
  InitGlyphCaching()
  SetGlyphCachingMode()

commit fb484f7e84099019b196ef97bfb2355eb6d52a
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Nov 29 14:30:55 2008 +0100

randr: Avoid needlessly creating a shadow framebuffer.

- pScreen->width and height were zero, so it didn't "fit" the screen.

commit 01eaebdc98f30f3f543af6337cd0f12d3ff16f09
Author: George Staplin <gstaplin@apple.com>
Date:   Fri Nov 28 13:57:45 2008 -0700

XQuartz: GL: Make various changes to makeFormat, so that it works better. Now glxgears looks normal with the old libGL.

Add various GLX extensions to the list of supported extensions.

Reformat the oddly formatted code in some areas.

Use xalloc and xfree instead of malloc and free.
(cherry picked from commit 755f53eb40c4329d8c82a31eb910c31fdd4ea12e)

commit 3d527b91b4bfa31e78d5f7a1447a4026876f14e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Nov 28 12:59:09 2008 -0800

XQuartz: Added option to enable/disable test extensions

defaults write org.x.X11 enable_test_extensions -boolean true
(cherry picked from commit fd4710aff3723d5f3422cf6a6530172eafc556d9)
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35742

(commit 635019ad18db921fee99256294debd8571074abf)

Commit 71d3df7cc37403b5842227a035d9b9956d920e0b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 28 11:18:14 2008 -0800

XQuartz: Avoid some warning messages being spewed to system.log by AppKit
(commit 780eff230ce41ad785e54d61a82c731269ae0446)

Commit a9796c7be43223df44f12a7be08e361ae963e1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 28 01:45:37 2008 -0800

XQuartz: Setup our PATH and PWD earlier, so our initial client benefits from it as well...
(commit cbae2b447357b3fed6ff19414e60dd3792045600)

Commit ef4179f43a84d90f867b95ee5974ad26884253b5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Nov 26 12:15:58 2008 -0800

XQuartz: Fix dead-acute on Greek keyboards
(commit cbae2b447357b3fed6ff19414e60dd3792045600)

Commit 800f5c681bed300d8ca99935e8f80ea6c1993ba
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Nov 26 12:07:52 2008 -0800

XQuartz: Fix Czech keyboard dead-acute
(commit 771df27866c60389489f0967e705c7c95bddd0a85)

Commit ac57bb36d56a7a4d41add8d5aa206ff37544a1819
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Nov 25 20:14:37 2008 -0800

XQuartz: Fix an uninitialized keyboard_type on Tiger
(commit 27b1a5eb3482052253ebdce1a09aef05ac1b099)

Commit 45c8bd0fe54273039fd4a1e3eaaf81b5774f2c75
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Fri Nov 28 02:01:57 2008 -0200

Enable compiling the X Server and modules with hidden symbols by default.

Note that it checks if support for symbol visibility is available by
the compiler, not if it is functional. It may have problems on non x86
architectures.

To disable the feature, just pass the option "--disable-visibility"
to the X Server configure script.
Unless using an alternate build schema, drivers built from a git checkout will use the same "visibility" related CFLAGS used to compile the X Server.

commit 31285d063ec4623cb0764437d6d57e244f20460d
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:    Fri Nov 28 01:55:11 2008 -0200

Make visible symbols required by xorg modules.

This patch exports all symbols required by the compilable (in a x86 linux computer) xorg/driver/* modules. Still missing symbols worth mentioning are:

sunleo
   miFindMaxBand no longer available

intel   (uxa/uxa-accel.c)
   fbShmPutImage no longer available (and should have been static)

mga
   MGAGetClientPointer (should come from matrox's libhal)

This is not a definitive "visibility" patch, as all it does is to export missing symbols, but the modules that current don't compile, may require more symbols once fixed, and third party drivers should also require more symbols exported. A "definitive" patch should export symbols defined in the sdk.

commit 6f18ea7e656b79e58f66f51067334414767b413f
Author: Julien Cristau <jcristau@debian.org>
Date:    Wed Nov 26 19:07:04 2008 +0100

Typo fix

commit efefc03f9b26738b69abb570c1af2167cc99c4d8
Author: Julien Cristau <jcristau@debian.org>
Date:    Sun Oct 26 13:19:48 2008 +0100

Add missing include

    ../../../hw/xfree86/xaas/xaasTables.c:9:14: warning: symbol 'byte_expand3' was not declared. Should it be static?
    ../../../hw/xfree86/xaas/xaasTables.c:53:14: warning: symbol 'byte_reversed_expand3' was not declared. Should it be static?

commit 74bc792e1814849b8eee9e448e36c3568b821e6c
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:    Thu Nov 27 05:34:14 2008 -0200
Export symbols required by the vesa and fbdev drivers.

This is a minimal set of patches, to have an usable X Server when compiling it with symbols hidden by default.

commit 74e2669103b59d51b24ddc48f378b1d04a3effd4
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Thu Nov 27 04:33:44 2008 -0200

Export symbols also defined in libXfont.

libXfont has stubs for these symbols, so, when compiling with hidden symbols by default, these symbols must be visible in the X Server, or the stubs in libXfont will be used.

commit 87a7fb7438b70d07efbf240c530b8548a01021d48
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date:   Thu Nov 27 00:12:59 2008 -0200

Rework code using return value of LoaderSymbol as a function pointer.

The patch removes all macros in the format
  define xf86_sym ((type (*)(argument-list))LoaderSymbol("sym"))
creates a new macro in the format
  define xf86_sym sym
and ensures "sym" is a "visible" symbol.

The patch doesn't add or remove features, and is source and binary compatible with previous shared objects (with the difference that it requires the dlloader).

These symbols are a special case, as, due to the fact that LoaderSymbol was being used to reference them, they are not easily found by "automated" tools that check for missing symbols. And now it also have the benefit that the compiler/loader "knows what is going on".

commit fc708394318ed92c612e2938b335c08c1ffe8bb28
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 26 15:49:02 2008 -0800

Add server support for RRGetScreenResourcesCurrent

This depends on randrproto 1.2.99.1

Signed-off-by: Keith Packard <keithp@keithp.com>

commit f710ce269c020a3ff58b2bfde0fe5192a3279c72
Author: Alan Hourihane <alan@tungstengraphics.com>
Date:   Wed Nov 26 20:02:44 2008 +0000
bump master to 1.6.99.1 (now the 1.6 branch is created)

commit f3edc1fb0210149f35eab4e413700b5c4ac48214
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 25 23:15:35 2008 -0800

New version of dolt

commit 4715f079b9c61362755e95c1ebf89c97cc6fff2b
Merge: 9ffcc671939 ed597f19fd
Author: Keith Packard <keithp@keithp.com>
Date: Tue Nov 25 22:19:08 2008 -0800

Merge commit 'origin/master'

commit 9ffcc6719390df8fdd0a5295a7a70eae792be45
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 24 13:08:48 2008 -0800

Move matrix operations from X server to pixman 0.13.2

pixman 0.13.2 now holds all of the matrix operations. This leaves
the protocol conversion routines and some ABI stubs in place

Signed-off-by: Keith Packard <keithp@keithp.com>

commit ed597f19fde3017d6d1452b5cdf8ddcd69a5b1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Nov 25 19:36:31 2008 -0500

xselinux: use "raw context" variants of getpeercon() and getcon().

commit ec1d08442f69353cb0e73ac4eaf0346ebb975594
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Nov 21 15:13:00 2008 +1000

dix: Enable core devices in InitCoreDevices already.

Updated patch, see

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 2b45602e828a07a0817691b2838cd34ffee531bd
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Nov 26 10:42:52 2008 +1000
Revert "dix: Enable core devices in InitCoreDevices already."

I merged the wrong patch. See correct patch at:

Not activating the device before attempting to enable it would leave
the sprite unset, crashing the server when enabling the real devices.

This reverts commit e078901a4eca02bd3e7a80d9462dafbca939a187.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 416685c295353b5816689994c7c58ae7db3e878d
Author: Jeremy Uejio <jeremy.uejio@sun.com>
Date:   Tue Nov 25 16:26:44 2008 -0800

Refix Sun bug #6685465: Xephyr uses wrong or bad colortable in 8-bit mode

<http://bugs.opensolaris.org/view_bug.do?bug_id=6685465>

This is a refix of the previous fix for CR 6685465. In the first fix
I was shifting the colors to match the mask by the bits_per_rgb amount
in the visual structure. That field has nothing to do with the # of
bits to shift by. I should just instead shift the bits to match the mask.

commit d5f9a131a2d5bd33f82fdd4e809880b0ff792b45
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Nov 25 15:46:39 2008 -0800

Fix const-mismatch warnings for DisplayModePtr's

Includes fixes for:
"xf86Config.c", line 2434: warning: argument #1 is incompatible with prototype:
prototype: pointer to struct _DisplayModeRec: "xf86.h", line 351
argument : pointer to const struct _DisplayModeRec

"xf86EdidModes.c", line 312: warning: argument #1 is incompatible with prototype:
prototype: pointer to struct _DisplayModeRec: "/hw/xfree86/common/xf86.h", line 351
argument : pointer to const struct _DisplayModeRec

"xf86EdidModes.c", line 438: warning: assignment type mismatch:
pointer to struct _DisplayModeRec "=" pointer to const struct _DisplayModeRec

"xf86Modes.c", line 701: warning: assignment type mismatch:
pointer to struct _DisplayModeRec "=" pointer to const struct _DisplayModeRec

commit d5ad296869e38ab30136b5a293a0125b76aad994
Remove duplication from code paths in XkbDDXCompileKeymapByNames

commit 2538fc0d893a150e978355d281750f0a989728a7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 25 18:18:46 2008 -0500

xselinux: don't pass a NULL key string to selabel_lookup().

commit c8472a74441838e16d0d3414db1fa7fe996868a9
Author: Michael Vogt <michael.vogt@ubuntu.com>
Date:   Tue Nov 25 19:35:17 2008 +0200

Do not send VisibilityNotify events when MapUnmapEvents are disabled

This prevents a protocol visible side-effect (XVisibilityEvent) on
XCompositeRedirectWindow() followed by a XCompositeUnredirectWindow().

The problem shows up in gnome-screensaver with compiz and "unredirect
cfullscreen windows" enable. A VisibilityNotify event is generated (first
with obscured and than with unobscured) when the window switchtes from
redirected to unredirected.

https://bugs.freedesktop.org/show_bug.cgi?id=18133
http://launchpad.net/bugs/278112

commit 88297558aada44bc714ad57adbeed3740aaadee5
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 14:20:58 2008 -0500

Dead code cleanup over DBE.

No DDXes have explicit DBE support anymore, so the init registration
table never got used. Just nuke it all.

commit e5eaea599ab16428c69912b66b3427ebe46707d7c
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 14:05:51 2008 -0500

Warning fix

xf86info.c:11: warning: initialization makes integer from pointer
without a cast

commit 37072500f7bcf39e0d6aa2ceeb5d1f2aeeab0b26b
Author: Adam Jackson <ajax@redhat.com>
Warning fix

helper_exec.c: In function 'port_rep_inb':
helper_exec.c:219: warning: implicit declaration of function 'DEBUG_IO_TRACE'
helper_exec.c:219: warning: nested extern declaration of 'DEBUG_IO_TRACE'

commit d96bffe2de2def209e76be9b36ca1ede7e0c976d77
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 13:59:00 2008 -0500

Warning fix

Init.c:139: warning: no previous prototype for 'ddxBeforeReset'

Just declare the prototype always, seriously.

commit 09ea671cbf6f05fd2b2af71619e7db5002108bf8
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 13:40:47 2008 -0500

Warning fix

lnx_bell.c:37: warning: no previous prototype for 'xf86OSRingBell'

commit a9853c7d337b3b1ad49793e9b4b90e313b6fa536
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:53:55 2008 -0500

Warning fix

Pixmap.c: In function 'xnestPixmapToRegion':
Pixmap.c:93: warning: 'Box.x1' may be used uninitialized in this function

commit 81eafe9f93a272b06aa9f9235ec5676b9aa3ee3e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:45:07 2008 -0500

Warning fix.

vbe.c: In function 'VBEReadPanelID':
vbe.c:1145: warning: return from incompatible pointer type

commit 09bf25e031772611a2f0902d4ba77b587e4b8b2
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35749

Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:43:36 2008 -0500

Remove unused XAAAvailableOptions

commit 8b9253f6383df3fefe38bde43a5f892b158a77c4
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:38:47 2008 -0500

Code motion: subsume xf86DoProbe.c into xf86Init.c

commit fbabb1c5e243cd849c594dec4c060df1a0b81015
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:34:28 2008 -0500

Warning fix.

In file included from l3-xaaStipple.c:4:
./xaaStipple.c:35: warning: no previous prototype for
‘XAAGetStippleScanlineFunc3LSBFirst’

etc

commit cbaca6ec666d7349c4680b8affc13b5c9cae1fa5
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 25 00:14:24 2008 -0500

Remove dead FreeModuleDesc.

commit eb474adf98229a43bbe17ab98ff084371cb9fa09
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 11:25:58 2008 -0800

XQuartz: Simplify the xquartz_resetenv_display path
(cherry picked from commit d2e0624dd30eb234bb25595ceedfa51d48ca1724)

commit 94df1ab7f09a64f57c1e1453e3640462e984619c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 01:30:03 2008 -0800

XQuartz: Force X11Controller to reset a broken DISPLAY envvar.
(cherry picked from commit f1a52b5b5ac31702497937efe3ac578be9a6c54f)

commit 0b314c50a2a0ca1afbd06663c3b719b05eb851
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 01:13:35 2008 -0800

XQuartz: Removed hardcoded org.x.X11 from MachIPC as well
XQuartz: Add fallback for xpbproxy's display for Tiger or no-launchd-Leopard
(cherry picked from commit 7a8c666594df7804a97ef2539a74ec4aa682e1cc)

XQuartz: Use the environment to pass the bundle's prefs domain on to xinit/quartz-wm for Tiger or no-launchd-LEOPARD
(cherry picked from commit fb4b0d33fa5dc618c3191a4e823232dfa33cd95)

XQuartz: Dead code removal
(cherry picked from commit eeb323612e0adbea37befed31bbaa1d295728385)

XQuartz: Don't hardcode values of org.x.X11 for the preferences domain
(cherry picked from commit 3a500d9247cf34686ec17b4a88c34d51ecd38ecd)

XQuartz: More dead code removal
(cherry picked from commit dc80f6a2e62823a671051874d14a33ce59505892)

XQuartz: Disable some error spew on Tiger (where it wouldn't be an error)
(cherry picked from commit 73ec6d3def0086d352f4eca25f1df5ae1884bb18)

commit 065d2af80ca34f89806e0936c51cd27805bc5123
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 00:51:01 2008 -0800

XQuartz: Add fallback for xpbproxy's display for Tiger or no-launchd-Leopard
(cherry picked from commit 7a8c666594df7804a97ef2539a74ec4aa682e1cc)

commit 13df49dc28cf680a4d104630cd675de25d3e944
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 00:39:52 2008 -0800

XQuartz: Use the environment to pass the bundle's prefs domain on to xinit/quartz-wm for Tiger or no-launchd-LEOPARD
(cherry picked from commit fb4b0d33fa5dc618c3191a4e823232dfa33cd95)

commit 40187f782beae4ae751824ef511c9f56a80357c7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 00:20:57 2008 -0800

XQuartz: Dead code removal
(cherry picked from commit eeb323612e0adbea37befed31bbaa1d295728385)

commit b55cad4569e34e3c10e9a327e20b91ea87d9dd98
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Nov 25 00:15:53 2008 -0800

XQuartz: Don't hardcode values of org.x.X11 for the preferences domain
(cherry picked from commit 3a500d9247cf34686ec17b4a88c34d51ecd38ecd)

commit d508a3dcca2f160021aced872715e1ded23ce9f7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Nov 24 23:33:54 2008 -0800

XQuartz: More dead code removal
(cherry picked from commit dc80f6a2e62823a671051874d14a33ce59505892)

commit 41fbd72f2154a3fca8cf484a611501e3c174fbe
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Nov 24 12:33:20 2008 -0800

XQuartz: Disable some error spew on Tiger (where it wouldn't be an error)
(cherry picked from commit 73ec6d3def0086d352f4eca25f1df5ae1884bb18)

commit 09c3f6e04c273ffafcb547c252137ff17c8ce016
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Nov 22 20:23:46 2008 -0800
XQuartz: Dead code removal
(cherry picked from commit 46c077d9b4a883fc809c32077ce40f33a70d268b)

commit ab12c7516207908f3e063a78904d68e2db14208e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Nov 22 15:47:14 2008 -0800

XQuartz: More Tiger cleanup: bootstrap_strerror
(cherry picked from commit 37f535aff3e9a7a02711daa98152cdff97745622)

commit 208f091bf657e9ee57b988f035d3aac7e9e173a
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Oct 12 00:07:56 2008 -0400

Remove xf86IODelay

commit 47478aa10adb20b6e48335ac8c4ef31f3dfe68c
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Oct 11 23:59:24 2008 -0400

Remove xf86{En,Dis}ableInterrupts entirely

commit c7680befe5aebd0f4277d11ff3984d8a7deb9d5b
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Oct 11 23:35:24 2008 -0400

Remove the remnants of Jensen support

As being an EISA-only machine, and as ISA support is gone now...

commit df14682a31b92751091571ed82f6095f55f19cca
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Oct 11 22:48:51 2008 -0400

Bus: Remove ISA support.

No, really. PCI is old enough to drive now. If you want this, get the kernel to expose a framebuffer device.

commit a8bcab2d3b224e4d4d5b6a097ea530beee920213
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Oct 11 22:14:23 2008 -0400

Bus: Remove yet more unused overlap processing.

commit 994b7c034fc20d76651cf7f6a285526d9aff8770
Author: Adam Jackson <ajax@redhat.com>
Bus: Don't pretend to care about IRQs, DMA, or PCI config space

commit eb5ae45127fa9f08f0bade7c7e21f8c26c9c7c969
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 21:44:16 2008 -0400

Bus: Simplify a failure case (that pretty much never happens)

commit ee8b5cf94c2a9f8526a3bb5011ebbf3246a4d9
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 21:41:47 2008 -0400

Bus: Trust the kernel when registering driver resources

... everywhere, not just (linux && (ia64 || (alpha))).

commit 8397df89456558e3c85b05e0acfcbb9f6af6b695
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 21:36:14 2008 -0400

Remove unused MIN macro

commit c251c0baae59714a6ac83b69cd106c08b9a3613e
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 21:34:27 2008 -0400

Bus: remove special handling for init-only resources

This isn't used by any driver, nor has it ever been as far as I can tell.

commit 3e5281af17841cf50d0e52a728b12c6ab56e61df
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 21:16:45 2008 -0400

PCI: Unexport xf86scancpci

commit 6b198daa46f2f609aff7900761cf82cc2fb4e0b4
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Oct 11 20:51:39 2008 -0400

Bus: remove useless isaConvertRange2Host

commit a96db74c2a95bb1dce132cf720ae939dfad7
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 9 00:43:26 2008 -0400
Bus: Don't try to find an ISA bus just for fun.

commit b21311a99d58997cd1fc68726d084f842e9e34fc
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 9 00:34:42 2008 -0400

Bus: Remove unused RemoveOverlaps

commit 41be6b3f0dc0ba1c6ae8d2b41a6be73ca0e7268
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 9 00:33:28 2008 -0400

Bus: Remove the notion of estimated resources.

commit 095ba1435501776c8c8a34e767b89f89e5dc949a
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 9 00:27:33 2008 -0400

Bus: remove the "reducer"

This code effectively didn't do anything anymore.

commit 4457e31710af90f9ac295bb686c841e9473fb767
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Oct 9 00:14:54 2008 -0400

PCI: Remove unused ia64 platform code.

commit 86cfe0ee236b3d3613e5f9ba589211d942d009eb
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 8 23:45:40 2008 -0400

PCI: Simplify OS PCI function registration a bit.

commit 2d427b9cb1594f8f2f66b463033fff5b459962fd
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 8 23:38:23 2008 -0400

PCI: Remove config mechanism details.

pciaccess handles this for us now, no need to remember PC arcana.

commit 5bb86bafd6fda296011c5bcd5d15a85a6d770ae29
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 8 23:34:41 2008 -0400

PCI: Remove non-pciaccess path for x86.
commit a67360e79fa7e17c3d907771694009c57c1cd195
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 8 23:31:38 2008 -0400

PCI: Always build domain support.

commit 51e105ccc3d0ac8c0fe74ef029ffbd80b140e
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Oct 8 23:12:31 2008 -0400

Remove xf86GetResourcesImplicitly

commit 599a0f3f1e3ae92676e3648471576c0001cf9ae
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Nov 24 20:37:58 2008 -0800

Fix typo in 5bf2c88d2317230b95b2904cb975167d03ee13a2

Amazing how these things hide until you see the diff come back from
the commit list.

commit 5bf2c88d2317230b95b2904cb975167d03ee13a2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Nov 24 20:34:46 2008 -0800

Simplify filename generation code for Xorg -configure

commit 75784e1e53ad78e21518696dd9d297bc08c17d54
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Nov 24 20:32:20 2008 -0800

Solaris: Make KDSETMODE failure non fatal, and retry it on interrupts

commit 3e6da1636093d7de98baae40544c0b0bf7fd8aec
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Fri Nov 14 15:55:57 2008 +1000

include: remove ENTER_LEAVE_SEMAPHORE macros.

commit b292a7a2d7e259177e1cc37346c2bee27a018630
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Fri Nov 14 15:44:29 2008 +1000

dix: updated enter/leave core event model.

As proposed by Owen Taylor [1], the enter-leave event model needs to adjust
the events sent to each window depending on the presence of pointers in a
The new model can be summarised as:
- if the pointer moves into or out of a window that has a pointer in a child
  window, the events are modified to appear as if the pointer was moved out of
  or into this child window.
- if the pointer moves into or out of a window that has a pointer in a parent
  window, the events are modified to appear as if the pointer was moved out of
  or into this parent window.

Note that this model requires CoreEnterLeaveEvent and DeviceEnterLeaveEvent to
be split and treated separately.


Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 724f83b87bb16472d4c328e35d2a477384b29f84
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 14 15:29:01 2008 +1000

dix: add FirstPointerChild, FirstPointerAncestor auxiliary functions.

FirstPointerChild: Return the first child that has a pointer within its
boundaries.

FirstPointerAncestor: return the first ancestor with a child within its
boundaries.

These are required for the updated enter/leave model.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 7d3e595f93dcd3d334e766a9dea602c05affdbaf
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 14 15:27:19 2008 +1000

dix: Add EnterWindow, LeaveWindow, HasPointer auxiliary functions.

These replace the ENTER_LEAVE_SEMAPHORE_* macros. Unused currently.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 6bde963cdabb4a2e77de7f00a1d062aa2b873f9b
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 14 15:37:35 2008 +1000

dix: split enter/leave event handling into core and device handling.
Device events always need to be delivered, core events only in some cases. Let's keep them completely separate so we can adjust core event delivery.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 5e48f5e2dd2dec7cfd1fa40b61e25123dfca515e
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 14 15:41:59 2008 +1000
dix: remove unused EnterLeaveSemaphoresIsset.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 868fd503b7aeb31dba72046b59061008d8b7501
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 14 15:18:56 2008 +1000
dix: move Enter-Leave related functions into new enterleave.c

Preparation for the new core enter/leave model.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit c4b9ab6bf56139fdd8c7c584a6f523c6766cddd6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Apr 29 08:29:42 2008 -0700
Handle transform failure when computing shadow damage area.

PictureTransformBounds can fail, when this happens, damage the entire screen so that the shadow gets repainted correctly.

commit 9c7679240ad90367693a462e288308b3fde08f26
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 30 19:05:07 2008 -0700
[randr] don't try to compute crtc transform when no mode is set.

Dereferencing the NULL mode pointer would cause a crash. As these transform matrices won't be used while the CRTC is disabled, just leave their values alone.

commit 315b6d0a425d0257f226ee7032aca3ca31665e59
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 27 11:46:39 2008 -0700
Update RandR global transform when driver notifies of transform change.
Need to compute and save the global transform when the driver changes it.

commit 5d9282fde919c936816a85e2a9e5734dc9d57cc2
Author: Keith Packard <keithp@keithp.com>
Date: Thu Mar 27 11:45:53 2008 -0700

Export rrtransform.h as needed by randrstr.h

When the transform management was moved from randrstr.h, the associated header file became necessary to build drivers. Include it as a part of the sdk headers.

commit 7236fd9dd4e9f5c4eb5bafa5c2a18cfff12a0444c
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 21 03:16:09 2008 -0700

Be careful about copying transforms around; they have allocated memory.

commit 7e69e364d2ef146d8ec3651d04bdd6d641017449
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 21 03:15:00 2008 -0700

Fix rotated/reflected cursor positions.

Doing projective transforms required repositioning the cursor using the hotspot, but that requires relocating the upper left corner in terms of said hotspot.

commit 93179c214fc6ed88f72955a11ce69ae0a47316d8c
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 21 03:14:47 2008 -0700

rrtransform needs randrstr to get RANDR_INTERFACE defines

commit 7c61db66a470a8306e346ed8bf8934f014dada42
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 21 02:39:49 2008 -0700

Create rrtransform.[ch]. Add RRTransform argument to RRCrtcNotify.

Instead of using a separate function to notify DIX about transform changes, add the transform to RRCrtcNotify so that the whole Crtc state changes atomically.

commit fa6a1df209bd74da1d545982cca437afc2198cc1
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 21 02:35:28 2008 -0700
Avoid overflow in PictureTransformPoint. Fix PictureTransformIsIdentity.

PictureTransformPoint computes homogeneous coordinates internally, but fails to handle intermediate values larger than 16.16. Use 64 bit intermediate values while computing the final result at 16.16 and only complain if that result is too large.

PictureTransformIsIdentity was completely wrong -- it was not checking for identity transforms at all.

commits:
6f9c15731be5f5afabacb3aaa3e71b840f4238b
Author: Keith Packard <keithp@keithp.com>
Date: Wed Mar 19 12:15:39 2008 -0700

Allow drivers to set crtc transforms.

Track curent transform down in the mode setting code so that it may be set separately from RandR.

commits:
49db14e4ac26070ed86088419483888dda1b8603
Author: Keith Packard <keithp@keithp.com>
Date: Wed Mar 19 00:46:35 2008 -0700

Handle RandR transform matrices in floating point.

RandR matrix computations lose too much precision in fixed point; computations using the inverted matrix can be as much as 10 pixels off. Convert them to double precision values and pass those around. These API changes are fairly heavyweight; the official Render interface remains fixed point, so the fixed point matrix comes along for the ride everywhere.

commits:
6f734aeacaec4f5c6152c3ebca197ef65bb4523da
Author: Keith Packard <keithp@keithp.com>
Date: Tue Mar 18 16:06:06 2008 -0700

Eliminate inverse matrix from randr transform protocol

It is easier, and potentially more precise, to compute the inverse in the server where everything can eventually be kept in floating point form.

commits:
197aa784694992f6b06fd194932309e440334e237
Author: Keith Packard <keithp@keithp.com>
Date: Tue Mar 18 15:35:44 2008 -0700

Report whether transforms are support from driver through extension to client

Add APIs to xf86RandR12 support and randr extension to record whether the
driver supports transforms, report that value in the RRGetCrtcTransform reply.

commit e86c34663ef97e946a1129450105efa89a123af6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 18 15:25:31 2008 -0700

Clear shadow pixmaps before using them.

This eliminates some ugly flashing, as well as clearing the borders when the shadow will not be completely painted.

commit 97ab0c6eff870b52c0383b63a78cec49059b2545
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Mar 18 15:15:40 2008 -0700

When converting from double to fixed, round carefully.

This reduces the matrix representation error after inverting a transformation matrix (although it doesn’t eliminate it entirely).

Perhaps we should extend Render to include 64-bit floating point transforms...

commit 6d3a9e40a4b9ec455af11cce31e4aa616c93db32
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 23:04:49 2008 -0700

Compute matrix inversion instead of using wire version in RRCrtcTransformSet

It doesn't make sense to have the client invert this matrix when the server can do so reasonably efficiently. This avoids weird fixed point rounding errors when testing the transform against its inverse. Now to fix the protocol.

commit 160252d94f04acc95f0a4e0f884ff565a5aa0744
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 23:03:56 2008 -0700

Add matrix inversion function (uses doubles)

The obvious matrix inversion function, coded using doubles to avoid fiddling with fixed point precision adventures.

commit 8fd82e88e3f2060fda4ba30376900ece77668c63
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 16:14:43 2008 -0700

Adjust transformed cursor position to account for hotspot
commit eb222e64128034df8361d5a82d4f4aa1318923ce
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 16:14:15 2008 -0700

Actually use filter kernel size to expand transform redisplay box

commit 3f9b963f6e8287edeb4c5bc7bbadbc02eb8bb910
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 16:13:25 2008 -0700

Correct bilinear filter kernel size (should be 2x2)

commit ee6326a6b89b2d223f6e1eaf02aae8aebfa6
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 15:22:06 2008 -0700

Handle filter widths in xf86Rotate

commit ddc8466137d229fde100ce403f492c7d61a1ba89
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 15:21:26 2008 -0700

Initialize and cleanup new filter fields in xf86Crtc.

commit 16c093af4df6b30d889ca69a024f9bd83d5
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 15:20:52 2008 -0700

Pass filter kernel size through transforms

commit 1df02d7dd44f84bcaef6d583af1a9141cb3c78b
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 15:19:17 2008 -0700

Add kernel size to Render filters.

This width/height value lets filter users know how far the filter spreads
into the source image.

commit 40f3df6b350fe0be55ebf7dbca88a0ef8f6380f
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Mar 17 13:57:47 2008 -0700

Use transform when computing scanout size of modes

Report transformed crtc sizes through RandR and Xinerama. Test screen size
against transformed mode sizes when configuring the Crtc.
commit f50349e1930e620cacadf27a6f8585fcb9cb5199a
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 15 00:36:45 2008 -0700

[RANDR] Support filters in CRTC transforms.

Create new RRTransform datatype to hold all of the transform related
information, use that in lots of places to pass filters around.

commit acda790e430b2a18c7c35379f6e538f3d01ff221
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Mar 14 13:46:30 2008 -0700

[render] Split out filter finding from filter setting.

To prepare for RandR using filters in transforms, split out
code paths so that the RandR code can validate the filter name and
parameters during the transform set operation so that use of the filter
later will not have unreportable errors.

commit e3d6f279d5c305dfb81ca109fffb665870712d2f
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 21:31:12 2008 -0700

Wire up RandR CRTC transform protocol, bump server to RandR 1.3

This involved removing a pile of matrix code from the DDX,
as well as moving a bit of transform logic from DDX to DIX.

commit ff9d1cd843a9b0aba69a3d788b21d5f6af702590
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 21:30:18 2008 -0700

Add funcs to convert between protocol and pixman matrices

commit c2f254da694731ea573aa8bbce2707ce083743f2d4
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 21:29:19 2008 -0700

Randr now depends on Render for matrices

commit f547650328287545a7a4d96df8d6a6c606dd95a9
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 14:50:13 2008 -0700

Export a bunch of matrix operations from render.
The render extension uses many matrix operations internally, this change exposes those functions to other parts of the server, drivers and extensions. The change is motivated by the 'transform' additions to the RandR extension but will likely be useful elsewhere.

commit e063162e80e51ed4368874b3af7ba690ea280d9e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Mar 13 14:26:01 2008 -0700

Add projective transforms to RandR DIX/DDX API.

New RRCrtcGetTransform function in DIX that DDX can use to get the pending transform. The DDX code should be complete; the DIX code is just a stub at this point.

commit 9c7ac47b871a71e42d2f6933749ca462f1a65b40
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 4 00:10:08 2008 -0800

Notify DRI when crtc regions change

Drivers that care about crtc positions on the screen to ensure that vblank works correctly need to be notified when crtcs are changed.

Provide a hook in the mode setting code that is invoked whenever any configuration is done to the screen.

Use this new hook in the DRI code so that DRI clients are notified and receive updated information.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit 554592cd70543f87cd8bee5ff47cc8281511e041
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Nov 24 11:50:38 2008 +1000

DGA: silence compiler warning.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 0dbcbd35f63db14734199a0beb2a91b6937f3838
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 21 12:02:02 2008 +1000

xfree86: Split the working code of NIDR into new xf86NewInputDevice.

The xfree86 server previously had NewInputDeviceRequest and InitInput, and both basically did the same thing. Reduce NIDR to parameter checking and use
xf86NewInputDevice from both InitInput and NIDR to actually create the device.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit e078901a4eca02bd3e7a80d9462dafbca939a187
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 21 12:39:55 2008 +1000

dix: Enable core devices in InitCoreDevices already.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit d939f2482e71ad20bac28b7aa4b2e8c8196e9d65
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 21 12:21:45 2008 +1000

dix: fix false comment.

VCP and VCK are always present, this comment is a leftover from earlier MPX days.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 387563b77743d92be83420d982eaf57f5459a883
Merge: 85f650c9b7 f6e01fa1b8
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Nov 23 13:15:46 2008 +0100

Merge branch 'master' of git+ssh://herrb@git.freedesktop.org/git/xorg/xserver

commit 85f650c9b76ab2e244f01908a7941c320635becd
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Nov 23 13:14:27 2008 +0100

missing action in if statement.

commit f6e01fa1b87ea190ea5ad723ce46893784ea1de4
Author: Stefan Dirsch <sndirsch@suse.de>
Date:   Sun Nov 23 11:16:03 2008 +0100

Added '-showopts' option to print available driver options (#5564).

commit 8964b8d0ec2b7b3b6bf540cd647b14a20e8f64a5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Nov 22 14:23:23 2008 -0800

XQuartz: More 1.6 server API updates

commit ad0f232165fe1a25ca4fb6da817da02b6ce31779
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Nov 22 14:04:28 2008 -0800

XQuartz: Fixed --disable-glx

commit 8e2287c220694953e972cd5119c2b0cd256b7a30
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Nov 22 13:57:45 2008 -0800

XQuartz: Updated some code to use newer server API

commit 6eb33bc0cb2e62339d323e1f1894015d7e3142f3
Author: George Staplin <gstaplin@apple.com>
Date: Sat Nov 22 11:37:08 2008 -0700

XQuartz: GL: Remove the inclusion of glcontextmodes.h.

Add some commentary about future directions needed for the GLX drawable creation and destruction code.

Match xalloc with xfree.

I made some minor formatting improvements.
(cherry picked from commit b772d64fcee31d16b498e621096e39d5203994d6e)

commit 429b4b20d5708d608fd55f91dd5bcd4ac0b51a12
Author: George Staplin <gstaplin@apple.com>
Date: Sat Nov 22 10:57:58 2008 -0700

XQuartz: GL: Add a branch to prevent a NULL DrawablePtr structure access.

In attach() check for pDraw being NULL, and also print an ErrorF message, because we eventually want to track down why this is occurring.

It's unclear how this occurs, but as I noted in the 1.4 branch, I believe that the DrawablePtr/struct _Drawable -> id is the member being accessed that causes KERN_PROTECTION_FAILURE at 0x0000000000000004

This passes my tests using: env LIBGL_ALWAYS_INDIRECT=1 ./sometest.

I fixed a warning: caused by initializing the screen->base.visuals with the configs. It is a ** not a *. It seems that some other part of GLX will initialize this for us.
commit bc0c7075e29b1719409cf7de8a4ab9ae1315aa67
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat Nov 22 19:10:09 2008 +0100

Remove the old libusbhid copy from os-support/bsd.

This has been replaced by in-kernel support for USB mices several
years ago and hasn't been enabled in build since X.Org 6.8.

commit 76fcfc480133726112049e5bd9c3082d46825918
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Nov 21 20:25:55 2008 -0800

XQuartz: GLX: sync up indirect.c to match George's updates in the xorg-server-1.5-apple branch

commit 1a717779b67b9c1cdf734eef64135ac38829f726
Author: George Staplin <gstaplin@apple.com>
Date:   Fri Nov 21 17:28:11 2008 -0700

XQuartz: GL: remove glcontextmodes.* from the Makefile.am. It has been replaced.

The new replacement is __GLXconfig.

commit dacad9ae0bdaedf9403f6be84a5c5a4b4ef3542
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Nov 21 17:16:22 2008 -0800

Xephyr man page typo fixes.

Also trailing white space removal to clear git warnings.

commit ca64b5949d229a60a3c62b6d29d51873b7694bd6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Nov 21 11:20:31 2008 -0800

XQuartz: Don't use LS to find X11.app on Tiger.

commit 701f8e3a94d2b659e4bcfffd09acd1d66f9e797b8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Nov 21 11:08:00 2008 -0800

XQuartz: Update applewm deps

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35765
commit 393325f908f8bd6648e466183f3683a2d80b264e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 21 10:57:31 2008 -0800

XQuartz: spewCallStack is noop on Tiger now...
(cherry picked from commit 56c469a68b92c6cf003802f418ea00bd596a41c3)

commit 5d47a5d6526b7e52387647a15a580dfcafd1733f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 21 10:54:55 2008 -0800

XQuartz: pbproxy: Added some typedefs for types not available on Tiger
(cherry picked from commit 0947aa7911f1de44bfe16e505a757b659c5ab2a8)

commit b262788401715787c68cea4ca79f4b270307afee
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 21 10:53:39 2008 -0800

XQuartz: More Tiger ifdefs
(cherry picked from commit 803509072f2c039e5cd555c4ac14d672f0e698c5)

commit 510744444329170f702d31d43997a6b2c1591b44
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 21 10:44:11 2008 -0800

XQuartz: Resurrect the old audio path for Tiger
(cherry picked from commit a61a8d9047e8765faf3892f4f2148e8553fd192c)

commit d7ee76f9dd84da05b59591a971b96bf990136767
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Nov 19 11:42:59 2008 -0800

XQuartz: pbproxy: Push the pbproxy Xevent processing into its own thread
and just have the AppKit thread wake it up.
(cherry picked from commit 799715b8f3327c8da59ab45706e85af2d2e438e4)

commit a9e203066be3262602f21b876a52a1ef38cdf20a
Author: Egbert Eich <eich@ovid.suse.de>
Date: Fri Nov 21 18:50:01 2008 +0100

int10: Do an mprotect(...PROT_EXEC) on shmat()ed memory ranges.

When the linux kernel sets the NX bit vm86 segfaults when it tries to execute
code in memory that is not marked EXEC. Such code gets called whenever
we return from a VBIOS call to signal the calling program that the call
is actually finished and that we are not trapping for other reasons (like
IO accesses).
Use mprotect(2) to set these memory ranges PROT_EXEC.
xfree86: don't reset Auto(Add|Enable)Devices, use defaults from xf86Globals

Without this, commit ace38f0b062372dcd3d56378b5b8f86525e6241 is useless when HAL support is disabled.

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit 6a1b2fed7e465a9e652e8ee250b8eab440945862
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Sep 28 12:18:16 2008 +0200

Add a man page for Xephyr, with information from the README file.

commit 10d472bf9d61b6f32d0a383b2e3783e7a1d7621f
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Mon May 19 05:15:30 2008 +0200

Support for BSD apm
XXX check amd64 pci init

dix: memset DeviceVelocityPtr to zero.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 7f818776b7a19b6d6100596d327ecaa69be317bc6
Author: Simon Thum <simon.thum@gmx.de>
Date:   Wed Nov 19 15:05:50 2008 +1000

dix: fix typos in comments, one formatting fix.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 037ec5a3c496b07f885a128828ef804b3aa8ee2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 19 15:12:04 2008 +1000

gitignore: ignore .patch files
commit ace38fa0b062372dcd3d56378b5b8f86525c6241
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Tue Nov 18 08:19:45 2008 +1000

xfree86: without CONFIG_HAL, Auto[Add|Enable]Devices and AEI is false.

There's little chance that we'll get the input devices at runtime without HAL, we might as well force the server to add mouse/kbd devices automatically - just like in the olden days.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 1cd894173ee7fa3d1a78d330e12453ea53e7b908
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Nov 19 13:44:26 2008 -0800

Always use server-<display>.xkm to avoid races when multiple servers start

Previously each server starting ran xkbcomp with the output set to <keymapname>.xkm, read it, then deleted it - which led to races if two servers were starting at the same time with the same keymap.

Sun bug #6773816 Xorg uses the same xkm output file for compiled keymap file

commit 1e4412abc499b9938bbac8a3ecd82f7f12d448d9
Author: Rémi Cardona <remi.cardona@lri.fr>
Date: Mon Nov 17 09:56:49 2008 +0100

drop unused HAVE_LIBDRM_2_2

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit c4ec71b405fcf5132d5089e3f8dd7b00c235265a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Nov 16 17:57:46 2008 -0800

XQuartz: pbproxy: nuke RCS Id, update header license/copyright
(cherry picked from commit 477ce6968a88429bb9c10222a5836bdc936d10ab1)

commit 42f330cfc9ef44aea7428a67d282dfb1a60196e55
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Nov 16 10:42:03 2008 -0800

XQuartz: pbproxy: Remove thread-main.m

it got accidently added and isn't used.
(cherry picked from commit cb6ffce68a2d10022fa92725d2d1837da4b389f)
commit 19aac4274bbac55ce944acfa3274a4403fe392e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 19 10:55:29 2008 -0800

mi: Push screen-saver/DPMS handling to after the EQ pop operation.

This way we on't need to hold the mutex during the dixSaveScreens() call.

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 56d1793c435abbaabab031860f1160f09ff06
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Nov 19 10:54:57 2008 -0800

mi: Only increment tail (push) when the event data is actually in the queue

Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
Signed-off-by: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 570835b9a89187a36e08defbccc56051bb349b52
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Nov 19 10:19:20 2008 -0800

Use bsd_pci stub routines on Solaris too, since we use pciaccess for real work

Depends on commit 70e18a3b6b9d52169bca650f6cd4ef5d8ab40d95 to get definition of xf86InitVidMem on Solaris.

commit 3932a848572f4eaf8b7f1d91d9b74aeafab069a2
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 18 14:21:01 2008 -0500

Xinput: use floats for ConstantDeceleration and AdaptiveDeceleration

These values need not be constrained to integer values.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>

commit 08cd361234ed0410f67342f46ae01120c4fe3331
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Nov 17 10:28:48 2008 +1000

exa: avoid doing prepare/done without intervening copies in exaFillRegionTiled
This does a precursor check to make sure the copies are required before entering the prepare/done code.

commit 8f8a9c19ad58768b07461a3f4bcceaa98f7c4f958
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Nov 17 10:24:39 2008 +1000

EXA: avoid copy operations if no boxes in use

Simple fix for now, I'm sure damage shouldn't be calling us with nbox = 0.

commit 03f7a66a1ae3f522a49bcc783066d53d69c97262
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Nov 15 19:45:49 2008 -0800

XQuartz: Don't use TIS on Tiger...
(cherry picked from commit be8ac84c15e7e76c581b9e75cda74139394aa4c7)

commit e8112784e8ef80a96ed54eca7e148b424001a38f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Nov 15 19:52:34 2008 -0800

XQuartz: Integrated xpbproxy into the server.

Added a configure option called --enable-standalone-xpbproxy which is useful for developeing xpbproxy.
The 'active' switch in preferences just disables the in-server xpbproxy (not this standalone).
(cherry picked from commit 42944936326e8732f622db9f75b79a92980550d)

commit 24928b85dc996c8d0a052ddf383df25718ee5305
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sat Nov 15 13:28:53 2008 +0100

DRI2: Don't crash in DRI2ClipNotify when DRI2DrawablePtr is NULL.

commit e5271c374715dd4e9a724ab3e5f77108d4ce8c23
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sat Nov 15 13:27:42 2008 +0100

Set libdrm flags correctly even when only DRI2 is enabled.

commit bc4f804cd86497655f6765b0954e64de959939e3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Nov 14 15:13:22 2008 -0800

XQuartz: Actually add glcontextmodes.[hc]
(cherry picked from commit 763195d338345e3637d112279bdbe002b6e7791a)
commit aedafbea0e1c7bc780ebe7ae878f62525769aca8
Author: Ben Byer <bbyer@apple.com>
Date: Mon Mar 31 20:21:24 2008 -0700

   fix compilation on systems that don't have
   XP_EVENT_SPACE_CHANGED defined
   (cherry picked from commit 6e833e41e2f3a84f7e5164b918737b3975517c12)

commit b0789365719f48c0b477b4703f2072f932246eb76
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 14 14:57:09 2008 -0800

   XQuartz: Initial work on readding GLX to the 1.5 server
   (cherry picked from commit a186cab6ae82340770c13b37ff5df731ce2a0ceb)

commit 1d7049f8fd3c0798250b9213149d3ce0b37ab77f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Nov 13 12:45:35 2008 -0800

   XQuartz: Force sending mouse clicks to AppKit if we're over the menu bar
   (cherry picked from commit 7df93ec1ac92aef3b70d5cfe787fa4a28c0db)

commit 3c124832642f1ec3228a57bea3d1eda68a188ff3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Aug 20 10:37:17 2008 -0700

   XQuartz: Made X11Application.m a little more tidy.
   (cherry picked from commit 3520386261b838196a8918e8bee16bdccbc9781d)

commit e917806fc556c2054b2835c8f85770b554c78092
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Nov 14 10:56:21 2008 -0800

   os/connection: TRANS_NOXAUTH bit comparison brainfart fix.

   https://bugs.freedesktop.org/show_bug.cgi?id=18524

commit 17bcccff4ce905f46c074fd8e7c6567b1371a0a1
Author: Fernando Carrijo <fcarrijo@yahoo.com.br>
Date: Fri Nov 14 12:36:20 2008 -0500

   [dix] Remove a duplicate statement.

   Signed-off-by: James Cloos <cloos@jhclos.com>

commit ba4e08244ed3923eeecf26842dfc1df17c696e053
Merge: 81fd17f5f4 5bad5d2abe
Author: Alex Deucher <alexdeucher@gmail.com>
Merge branch 'master' of git+ssh://agd5f@git.freedesktop.org/git/xorg/xserver

commit 81fd175f49e00c0b7d26e81f327d8eb8b5953886a5
Author: Alex Deucher <alexdeucher@gmail.com>
Date:    Thu Nov 13 15:00:30 2008 -0500

Only add default modes if EDID supports continuous-frequency

When an EDID is present, only add the default mode pool if the
continuous-frequency bit is set in the EDID. Should fix bugs
like 18512.

commit c232f3d673f98007f8e82741349d64e5ac0ad
Author: Adam Jackson <ajax@nwnk.net>
Date:    Thu Nov 13 14:58:21 2008 -0500

xf86TargetExact should try harder if there's only one monitor attached.

If there's no preferred mode, but only one monitor, pick the
biggest mode for its aspect ratio, assuming one exists.

commit 5bad5d2a2f51cbf53dc8dd016e90ccbe086220
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:    Thu Nov 13 11:32:40 2008 -0800

XQuartz: Fixed XBell() when not using system alert.
(cherry picked from commit aa0e9ab1c7a2266dcdb3c5e62be159355a290fa8)

commit 0fca8588a238c91580b305c3671567e910150a02
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:    Thu Nov 13 11:10:15 2008 -0800

XQuartz: Added more debugging to handoff spew
(cherry picked from commit acefa7e3c8706ffedc052effd5b36ce10e72c22)

commit 47d38218706564d1437dcff9d1bba3511db063c
Author: George Staplin <gstaplin@apple.com>
Date:    Wed Nov 12 17:17:25 2008 -0700

XQuartz: GL: Handle the alpha differently when the alpha is equal to
GLCAPS_COLOR_BUF_INVALID_VALUE.

This prevents visuals with odd sizes. The machine I use didn't have
this problem, but it shows up on some others.
(cherry picked from commit ed181382ddebe77019577d39b9c06b1cd839e18e4)
commit 6b501d7cc55f1d06966cdf3caf36bcfc6cf18939
Author: Alex Deucher <alexdeucher@gmail.com>
Date: Thu Nov 13 13:57:30 2008 -0500

Add missing newline when printing edid info

commit 33edd32702d963802ed4d382124ebab9d0352fa8
Author: George Staplin <gstaplin@apple.com>
Date: Sun Nov 9 18:35:10 2008 -0700

XQuartz: Disable 2 calls to miSetVisualTypesAndMasks that seem to be unnecessary, and possibly wrong (with regard to masks and bits per RGB).

Use the settings queried from the system in xprScreen.c, rather than those 2 calls.

The 2 calls increased the total number of visuals a great deal (when using GLXEXT), and not all of the visuals were usable with GLX. Some of the visuals aren't usable with GLX still, such as DirectColor, but that seems to be acceptable based on my understanding of the manual that states "a subset of visuals are made available for OpenGL rendering."

(cherry picked from commit 373b8a5f32509722e06d8776109e6c3f06645ee0)

commit 1523476afa6657c20eba112e3ee051d45e721164
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Nov 8 23:32:40 2008 -0800

XQuartz: CFBundleShortVersionString needs to conform to X.Y.Z as well... sigh
(cherry picked from commit 54d20f6d33c347bcb37a0a8287c2d92fed2b9092)

commit 1f301a0051d6529618924eb2529616d9b33276b3
Author: George Staplin <gstaplin@apple.com>
Date: Thu Nov 13 01:27:33 2008 -0700

XQuartz: Restore the logic of AppleWMDoReorderWindow to the same as the 1.4 branch.

It was returning inverted values in comparison to the 1.4 branch. This resulted in the windows not drawing due to a deep path of: RootlessReorderWindow -> SCREENREC(pScreen)->imp->DoReorderWindow(winRec) - > xprDoReorderWindow -> AppleWMDoReorderWindow.
(cherry picked from commit d1d398db762fe7d5720f9b5fafa2bbe8372fcceac)

commit f5841e96487234df5eadf55c0fb3c587c418cb46
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Tue Nov 11 22:50:35 2008 +1000

dix: don't store enter/leave and focus semaphores in a devPrivate.

We need them for each window, every time a window is allocated. Storing them
in a devPrivate is the wrong thing to do.

This also removes the unused ENTER_LEAVE_SEMAPHORE_ISSET macro.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 26f701704b4e536cd91bd8a9f7d2194793471998
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 12 16:53:29 2008 +1000

dix: remove duplicate line in EnterLeaveEvent.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 8ff62ea5ba1bc331c886840b2b1e101cb4f2ebed
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Nov 12 15:19:09 2008 -0500

CopySubBuffer expects GL style coordinates.

commit d91243beb63008fff2ce6affa7db091786e8c49a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Nov 7 08:39:38 2008 +1030

dix: formatting fix.

commit dde09076c5c0c36a4a9321cd23a2c7922c4c755b
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Nov 5 12:52:03 2008 +1030

dix: remove superfluous variable devgrab

grab == devgrab anyway, this is a leftover from the time when we had two
different grabs per device (core and XI grab).

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit fc3e8bf82323477b54181c6d546c90f53f1ebd8
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Nov 4 15:27:30 2008 +1030

mi: clean up mieqProcessInputEvents, copy all events before processing.

Copy the EventRec's information into local variables before processing them,
this should make it safer for upcoming threading and also makes it easier to
read.
Simplify the event allocation code from the abyss it was before.

This also fixes a potential bug where a custom handler could scramble the event before the same -now scrambled- event was then passed through the master's custom event handler.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 31005efb1bb6be5a892f905f754109dc3fa8fe6
Author: Fernando Carrijo <fcarrijo@yahoo.com.br>
Date: Mon Nov 10 13:23:45 2008 -0500

input: Remove useless conditional.

commit 24383056d0513cc588cee5cee78f1eba2c0fbe89
Author: James Cloos <cloos@jhcloos.com>
Date: Sat Nov 8 13:04:20 2008 -0500

Don’t recommend fixing HAL if HAL support is disabled.

As reported in http://bugs.freedesktop.org/show_bug.cgi?id=18438
the server suggests reconfiguring HAL if AllowEmptyInput is enabled and no input devices are known.

Instead of that notice, if HAL is disabled at configure time, AllowEmptyInput is enabled in the config and no input devices are found report those facts and recommend disabling AllowEmptyInput.

commit b3c7e62664457a3802ebc23785446051624a8c2f
Author: James Cloos <cloos@jhcloos.com>
Date: Sat Nov 8 12:18:13 2008 -0500

Remove some null statements.

Remove several doubled statement-terminal semicolons.

Reported by Fernando Carrijo.

commit 21c116219ed5c6845a0955f2d88f5fab5c17cf
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat Nov 8 01:25:14 2008 +0100

Fix typos which caused exaCompositeRects() to use an incorrect damage region.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=18065.

Also, it can bail if either width or height of the bounding box is <= 0, not only if both of them are.
commit 59f9fb4b8c031df69b3592a26b77e744ff4a556e
Author: Luc Verhaegen <libv@skynet.be>
Date: Fri Nov 7 19:11:11 2008 +0100

XAA PixmapOps: Sync before accessing unwrapped callbacks.

When using any XAAPixmapOps, we call into unknown but freshly
unwrapped callbacks (like fb ones). Unlike the XAA*Fallback calls,
we did so without syncing first, exposing us to all kinds of
synchronisation issues.

I believe that the rendering errors appeared now because *PaintWindow
vanished (e4d11e58), and we just use miPaintWindow instead. This
takes a less direct route to the hw and ends up at
PolyFillRectPixmap, which very often left drawing artifacts.

We now sync accordingly, and no longer get the rendering artifacts i
was methodically reproducing on radeonhd, radeon, unichrome...

Also, in order to allow driver authors to remove extensive syncing
or flushing to hide this issue, create XAA_VERSION_ defines, put
them in xaa.h and bump the patchlevel.

(novell bug #435791)

commit 991c88b7542164194be73573e764416416ea90c
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Nov 7 17:36:38 2008 +0100

xfree86: xf86SetDepthBpp needs to respect the driver's depth24flags

When setting the depth to 24, leave bpp unset so the logic to pick
a supported value is used instead of ignoring the driver's preference
and forcing 32 bpp.

commit d3d6be4948fa19947fd3b03e6694247109cc0ff
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Nov 7 18:36:00 2008 +0100

mi: Fix infinite loop on regen when swrast_dri.so is missing

The swrast DRI provider gets pushed on the glx provider stack at every
server generation, so the stack turns into a circular list on regen.

X.Org bug#18388 <https://bugs.freedesktop.org/show_bug.cgi?id=18388>

commit f59352881f315a634ff60c9aac885b2764b28b167

---
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Nov 6 14:41:55 2008 -0800

XQuartz: Make LS parse our version properly... it didn't like our CFBundleVersion
(cherry picked from commit 980df1b4ff7d4dab9dc1462dc086542265b1fb1b)

commit b4ca9dc2393ace2415163094b916f0d17ecb9ae
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Nov 5 21:58:04 2008 -0800

When HAL returns a NULL property, print "(null)" instead of a NULL pointer

They've promised to fix Solaris printf soon to check for NULL pointers
instead of segfaulting, but that won't help people on existing releases.

commit 13d06f5aa6120e902a323649615c1ce3d1b5359
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date: Tue Nov 4 12:53:12 2008 -0700

XQuartz: GL: Add capability detection for depth buffers, and multisampling.

GL/capabilities.c: Add handleDepthModes(), and extend
handleRendererDescription() for the various depth and multisampling flags.

Add initialization of the new config options to initConfig().

GL/capabilities.h: Add depth and multisample config members.

GL/visualConfigs.c: Add depth and multisampling support to the visual config
setup.
(cherry picked from commit f527381eea6a8ae6cd791475b2060d21fc8efb2)

commit 34bb06b292dc8b07d8602941aab3e69a73811314
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date: Mon Nov 3 19:52:48 2008 -0700

XQuartz: GL: Work around problems with really deep visuals.

GL/capabilities.c: #if 0 (for now) any capabilities above 8 bits per channel,
because they introduce drawing problems.

GL/indirect.c: Comment out some visual setup code that shouldn't be running, and
actually seemed to cause some problems. The current visualConfigs.c code seems
to do a reasonable job of setting up visuals for XQuartz.

GL/visualConfigs.c: Make use of the proper visual .class. Eliminate depth 0.
It seems we really just want 24 for now, and 0 I think was a flaw in the original
code.
commit 39e82a9b1250b23768136f3c3973777a97f8b908c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Nov 2 15:52:22 2008 -0800

XQuartz: Replace deprecated API usage thanks to Robery Murphy
(cherry picked from commit 71dd052412400362793f2f0c7c02bf4f4309738c)

commit b4db46320a437baa894cb8cfd4ee3abdcc894b01
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Oct 31 20:18:27 2008 -0700

XQuartz: version string updated for 2.3.2_beta3
(cherry picked from commit 81bb4128570b44d779126a8dffcd3c5620747383)

commit c9051b684b524549eab6d5b88ee3e195a6f6fbe8
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Nov 5 18:25:57 2008 -0800

Use OsSignal in Popen/Pclose to avoid SysV signal() stupidity

commit d63ea510138c8b6de66184c78cda39ed9981fc1f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Nov 5 14:52:29 2008 -0800

Non-Linux OS'es should default to kbd driver, not now-dead keyboard driver

commit 446d9443cea31e493d05c939d0128a8116788468
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Nov 5 11:51:06 2008 -0500

linux: Drain the console fd of data when using evdev for keyboards

Works around a silly bug in the kernel that causes wakeup storms after
too many keypresses. Should fix the kernel bug too, but this at least
keeps the idle wakeup count below 1000/sec.

commit 6d21fbf00648307208146aca0837ec63ea490659
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Nov 5 11:39:46 2008 -0500

kdrive: Bye bye Xvesa

commit 9a874a71a791c6110fd57b8a5c083f777a446d0f
Author: Egbert Eich <eich@freedesktop.org>
Date:   Tue Nov 4 21:31:27 2008 +0100
DDX/RandR: When positioning outputs assume width/height = 0 if no modes exist.

When a user specifies the position of an output for which no modes exist
(for whatever reason) assume that the width and height of this output
is 0. The result will be the same as if this output isn't taken into
consideration at all and thus should be sane. It will prevent a segfault
when trying to determine the width and height of a non-existent mode.

commit a4d62bbf215894bad8e19d99f7330c637d3d49e3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Nov 4 11:27:53 2008 +0100

AIGLX: Reinstate call to driver texOffsetFinish hook.

It was accidentally lost when factoring out __glXDRIdoReleaseTexImage, so this
is a regression fix and should probably be backported to server-1.5-branch.

commit 27f1ad466cd9662d638f4a8e59beaf32a8b2a8f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Nov 4 11:26:03 2008 +0100

AIGLX: Don't truncate offset returned by driver texOffsetStart hook on 32 bit.

commit de1a8b68eb10c39a0d4a197107d68d7cc009edb2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Nov 3 11:30:48 2008 +1030

xkb: extract the correct device in XkbFilterEvents.

If the event is an XI event, we need to work on the correct device, not on
the VCK.

Adds XIGetDevice(event) function to extract the device from an event.

commit d97239956667f8181f30271759573b75bf455fbb
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 16:40:41 2008 +1030

Purge device-based WindowAccess code.

Really, this was a bad idea. It's not security, the UI features that would
have been cool (e.g. clicking through windows) aren't implemented anyway, and
there's nothing you can't achieve just by using plain XI anyway.

Requires inputproto 1.9.99.6.

commit cbc6f983959595aa21c9dd72fac6a7070a650ef7
Author: Peter Hutterer <peter.hutterer@redhat.com>
xkb: when faking mouse button events, fake them on the correct devices.

When MouseKeys are activated, keyboard devices may generate fake mouse button events through XKB. Let's get then running through the appropriate paths, i.e. as XI events on the correct device.

To make matters more fun, ProcessOtherEvents drops events if the DIX device state cannot be updated accordingly, i.e. all button events from keyboard devices.
Hence we need to get the paired MD for the device in XkbDDXFakeDeviceButton, and post the event through the paired MD (usually the VCP).

Removes now-unused ddxFakeBtn.c.

Note: this patch only half-arsedly fixed button events, motion events are a more complicated matter.

commits 4971315296cbf868dd738c1c0c1c504f5e1b619
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Mon Nov 3 17:47:36 2008 +1030

dix: clean up GetPointerEvents and GetKeyboardValuatorEvents.
Split into several functions, remove some stale comments.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 6bb0e0a53656db6168a053fb51b242a8640c1461
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Fri Oct 24 16:22:09 2008 +1030

xnest: I'm sure xfree works fine, even if we're 64 bit.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 67b7e06c4fae8dafb64d9f3eb976836d0c5889
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Apr 25 19:39:48 2008 +0300

XKB: Remove pointless macros
These weren't even being used, which isn't overly surprising, given that they were already in the struct.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
commit d9ff20e323ba9fb309629ac21946e85709625589
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Oct 23 16:48:15 2008 +1030

DIX: Remove unnecessary prototype

We don't call XkbCopyKeymap from getevents.c anymore, so axe it.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 064ee458c7183eb91ef2e0f262b312ba1e3ad6e5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 9 15:54:56 2008 +0300

XKB: Tiny cleanups to _XkbLookupAnyDevice

A couple of coding style cleanups, a warning fix via removing a
now-unused label, and also put an else so we don't spuriously trip a
condition that should admittedly never occur anyway.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 97c9e6a7139e07a0761be05034fae42fc65ba36
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 28 17:10:28 2008 +0200

XKB: Fix thinko, causing warning (erroneously fixed in 5544c51447)

newTypes is a local variable which always has an address. newTypesIn,
on the other hand, might be sus.

See also 5544c51447f551dfc66e4438873a7ce64743976.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit caf1e6a1c92a2e70de9159f93d6f5b48c202dd81
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Mar 18 10:05:00 2008 +0200

XKB: Move XKBrules.h to the server too

Get our own local copy of this, so we don't have to define XKB_IN_SERVER
anymore.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit f4036f6ace5f770f0fe6a6e3dc3749051a81325a
Author: Daniel Stone <daniel@fooishbar.org>
Remove XEvIE

It's unmaintained and has been broken for quite a while; MPX finally smashed it completely.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 8c3753a0b711b5708b61f64ab4010ca01608d679
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 22 22:29:54 2008 +1030

A bit of whitespace cleanup in include directives.

It's #include <foo>, not # include <foo>

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 889a8dc02b2bd3926eaf16dce8f844dc58558e982
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 22 22:29:54 2008 +1030

Xi: XINPUT has been mandatory for ages

Ditch all #ifdef XINPUT, since it's always built.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 4cf2f4172abc4bf848c1726e6dac535713e08f0b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Nov 3 12:50:28 2008 -0500

Add xf86MonitorIsHDMI() helper.

commit a7951a4dad902edea76a5cd68f833f0e48ae804b
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Nov 3 10:00:54 2008 +0100

AIGLX: Allow 2D driver to prevent zero-copy texturing of a pixmap.

The driver can return ~0ULL to achieve this, e.g. if the pixmap doesn't fit into offscreen storage or if its pixel format isn't supported by the 3D engine for texturing.

See http://bugs.freedesktop.org/show_bug.cgi?id=17723 or
http://bugs.freedesktop.org/show_bug.cgi?id=12385.
commit f8af66ddb21b4fb1ae5b4f7f852418ca7b0e7aec
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 20:03:34 2008 -0700

XQuartz: Add option to allow access to the menu in fullscreen mode
(cherry picked from commit 637a9f4bd1ff2b55c870a08ead4940df0f9818e5)

commit c5086badf0387d4d5af10882de90a1faa180550f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 18:58:57 2008 -0700

XQuartz: LP64 related casting fixes from Bob Murphy
(cherry picked from commit ea71710aaa7166ab510abe70f2dc47942de0ead7)

commit 20239a4deebccc9f86586ef6b8ef61311a6fa6a0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 18:58:25 2008 -0700

Rootless: LP64 related casting fixes from Bob Murphy
(cherry picked from commit 40441e4e31167932721a79d7ca572caaa1d36e72)

commit ecd55bc859eb5d7c639d5a6d531d9df524124247
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 15:10:34 2008 -0700

XQuartz: displayScreenBounds uses quartzEnableRootless rather than !quartzHasRoot
(cherry picked from commit c883a78ef0c2e7e29437881db85d3815a89ab874)

commit 4e762b8aa37b588e6ccfd4a0152090190005e2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 14:39:54 2008 -0700

Rootless: Force initialization of static variable before use.
(cherry picked from commit cece29317269385aa7a0d3047e6f90e6a17d01eb)

commit 9f49f5172d10070eb4a9e72ac3c5227c6f35853
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 13:00:01 2008 -0700

XQuartz: Silence pointer debug spam
(cherry picked from commit 9ca099e928653b5a0fb745186e17bfcc3d74ccc0)

commit 93298c7f8f73bdeb9892da0e41d2c2a67719dc736
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Oct 31 12:55:46 2008 -0700

XQuartz: Don't map the menu bar to the screen area.
(cherry picked from commit 1115917ada127a1cd6a8b61efe7fd134e2ea85fd)
commit 31907986a6d4dc726d8ce0071f5884ce6cfe33b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Oct 31 12:37:32 2008 -0700

XQuartz: Fixed Xplugin thread safety issues, so re-enable background window check
(cherry picked from commit 5fc73b1141eca8b6778e54412ca33afa31a76d088)

commit 227d782a1bddd739dcd0c73c0288e18645c47
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Oct 30 13:44:55 2008 -0600

XQuartz: GL: Mark visuals that are slower than others, due to lack of acceleration.

This is used in libGL to determine a preferred visual. glxinfo -v will also report "visualCaveat=Slow" for such visuals.
(cherry picked from commit d5c17f585a240be9f9135975738e62951cde3353)

commit 5287602a4161cd036e3125cda09ba750190a0b47
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Oct 29 17:20:11 2008 -0700

XQuartz: if 0 out a block to avoid thread-unsafe lockups
(cherry picked from commit 60d7359a67900ad4601db73e07bcd8e803100a5)

commit 93d7cd31c527af6b26f4e039af6adbb6a60fab7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Oct 29 17:18:05 2008 -0700

XQuartz: Purge the old XQUARTZ_EXPORTS_LAUNCHD_FD option
(cherry picked from commit 490756c7fbc0792c4bd6ae434e7a48e0beffa5c7)

commit 0a076b6a7f3c97f1712412ee3ee32e013d3b1d7364
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 18:32:26 2008 +1030

xb: remove unused label "out", clean up program flow.

commit 971ae6f64416058665bc903fee39fe1619cd3727
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 17:05:40 2008 +1030

dix: FreeDeviceClass() and friends can be static.

commit 3c3a47d0f5e7f9548a3ee0efee9e72488d3ac279
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 17:00:21 2008 +1030
include: remove unused declaration for RegisterPairingClient().

Matching functions got removed in 004876355b43fb4d3c2bc5653a7dc1b6d3f985ee.

commits:

commit 7c5dec9f716962a6e67dba99418061cebe10e1d2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 16:56:49 2008 +1030

dix: remove unused Declaration for RegisterPairingClient().

Matching functions got removed in 004876355b43fb4d3c2bc5653a7dc1b6d3f985ee.

commits:

commit 7c5dec9f716962a6e67dba99418061cebe10e1d2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 16:56:49 2008 +1030

dix: remove unused Declaration for RegisterPairingClient().

Matching functions got removed in 004876355b43fb4d3c2bc5653a7dc1b6d3f985ee.

commits:

commit 7c5dec9f716962a6e67dba99418061cebe10e1d2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 31 16:56:49 2008 +1030

dix: remove unused Declaration for RegisterPairingClient().

Matching functions got removed in 004876355b43fb4d3c2bc5653a7dc1b6d3f985ee.
xkb: ProcXkbSetCompatMap should do dry-runs, then normal runs.

Was doing only dry-runs, which kinda explains why changing the compat map didn't really have any effect.
Fallout from e8c2a3d7c996cb41c4c44ba67acae5ff9438fc06.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 70e18a3b6b9d52169bca650f6cd4ef5d8ab40d95
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Oct 30 20:38:34 2008 -0700

Refactor Solaris mapping code to work with standard shared/vidmem.c
Also merge sun_bios.c into sun_vid.c and upstream Solaris patch to
keep aperture device open, to allow mappings to occur after X server
has given up uid 0.

commit 2809a56b4bc7f09f132c70dc39c6695495351c4d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 30 16:05:40 2008 -0400

xace: Fix an incorrect call to the RECEIVE_ACCESS hook.

commit 0f2fd0577fe2740a32d3a2749e2c3582f891417c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 30 15:35:33 2008 -0400

xselinux: send more specific message types to libaudit.

commit 4ce19b4477057a724b548e342d4c6da2b6721824
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Thu Oct 30 16:02:13 2008 +1030

xfree86: fix xf86ScaleAxis once again.

Maybe one day I stop doing stupid patches like
a3a7c12fcf8e4ac1418f9ea53f76091f309a721b.

So, if X < low, reset to low, and _not_ to high.
If X > high, reset to high, and _not_ to low.

commit f12d7ad1647d12ccf92291eb0607defe6a634a1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 28 12:38:05 2008 -0700

XQuartz: Pass along SIGINT and SIGTERM from the stub to X11.app
(cherry picked from commit 183ca5d68b4f34e248749f304ce140de11bd451b)
commit 273df54685768f74ed29926e88a63dc9f86744f1
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Oct 27 22:07:00 2008 -0600

XQuartz: pbproxy: Fix a bug that prevented nedit CLIPBOARD from being proxied.

It seems that we were calling copy_completed: too soon. Now we return instead of falling through to the free_propdata, and copy_completed:.
(cherry picked from commit 5797d5b662817a3369a74a673f4a7e995cde75cf)

commit 313d87341af2396645d2c315086d487c0073d27
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Oct 27 20:44:02 2008 -0600

XQuartz: pbproxy: Work around bugs in some apps that aren't ICCCM compliant.

Eterm ends up setting the type of the property to TARGETS, instead of ATOM. That's why it wasn't working.
(cherry picked from commit 9be5998ede7427f14dd9597e117b3d6b427ba4e5)

commit 9007d3beea2e2d8b271f696d433cb30e32cda401
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Oct 27 16:34:24 2008 -0600

XQuartz: pbproxy: Add code to handle PICT conversion to PNG and JPEG.

This may work, unfortunately I don't have test apps that fail.

The way it works is by using an NSImage class initWithPasteboard: method, which we then get the TIFFRepresentation of, and convert to PNG or JPEG.

The TIFFRepresentation uses NSTIFFCompressionNone; which should be lossless.
(cherry picked from commit 8d048cfa956f4a0860250cc836a6748912b37ad8)

commit b742da0b719198a42a086049771792af84f470ca
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Oct 26 13:17:49 2008 -0700

XQuartz: pbproxy: fixed blocking
(cherry picked from commit bb330a1b1c480e89727fb75ff5ae8e71f4afc5ee3)

commit c885110a6edc19e551de22a526397d77013c3dfcb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Oct 26 10:22:12 2008 -0700
Xquartz: pbproxy: Some debugging about unhandled mime types... this will spam up quick, but will be useful for a while...
(cherry picked from commit 3647215310f5a52126661b9ec473dceed25b40f)

commit c7c26964eef6732e9603b26b7396f95443c5ba8a
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Oct 24 19:12:05 2008 -0600

  XQuartz: GL: Fix several error handling mistakes in handleRenderDescriptions, that were leftover before the final code evolved.
  (cherry picked from commit 3647215310f5a52126661b9ec473dceed25b40f)

commit 21ea9d82aab8ff0e0d1904d188f96f9cfb2b051d
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Oct 24 18:11:46 2008 -0600

  XQuartz: GL: Add feature detection of color sizes, and accum sizes.

  This gives us a *lot* more visuals, and they should be more accurate.
  Some of the visuals may have been wrong before.  This may enable more OpenGL programs to behave correctly.

  I also suspect libGL needs a little work to handle some of these correctly.
  (cherry picked from commit 98a084ce9c455260ecdb5f8eeeb67f33dbb53b69)

commit c264826da96ad1859dd112b17eb8aa9e5278478f
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Thu Oct 16 11:22:29 2008 +1030

  xfree86: If AEI is on, disable "kbd" and "mouse" devices.

  This consists of two parts:
  In the implicit server layout, ignore those drivers when looking for a core device.

  And after finishing the server layout, run through the list of devices and remove any that use mouse or kbd.

  AEI is mutually exclusive with the kbd and mouse drivers, so pick either - or.

  Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 6c451859552e1fc78f6589617482f9ff96d7ed8a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Oct 20 12:19:55 2008 +1030

  config: don't add duplicate devices through HAL.
If HAL is restarted, the device list is sent to the server again, leading first to duplicate devices (and thus duplicate events), and later to a FatalError "Too many input devices."

dev->config_info contains the UDI for the device. If the UDI of a new device is equal to one we already have in the device list, just ignore it.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 102c4dac7c521941f52652152b1660cd7f559d56
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 13:17:31 2008 +0100

x86emu: fix sparse warnings

ops2.c:113:18: warning: Using plain integer as NULL pointer
ops2.c:207:18: warning: Using plain integer as NULL pointer

commit ffaaa1a198a77eb6800e08d4613ee1cc0b68ba0
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 13:13:21 2008 +0100

xfree86: fix compiler warnings in DoModalias()

The precedence of == is higher than that of & in that code probably buggy.

xf86Init.c: In function 'DoModalias':
xf86Init.c:300: warning: suggest parentheses around comparison in operand of &
xf86Init.c:304: warning: suggest parentheses around comparison in operand of &
xf86Init.c:308: warning: suggest parentheses around comparison in operand of &

commit 66fd05acd6118102aaaebc230d5c03e0758c6089
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 13:11:41 2008 +0100

xfree86: Silence compiler warnings about function prototypes

xf86Init.c:136: warning: function declaration isn't a prototype
xf86Init.c:243: warning: function declaration isn't a prototype
xf86Init.c:249: warning: function declaration isn't a prototype

commit 4b96ba8dddf36f84d4b8c0f2964535bd90477a742
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 11:56:35 2008 +0100

Nuke unused miBankNewSerialNumber
Ansify declaration of FontToXError()

Nuke prototype for nonexistent function

miDoInitVisuals was removed in commit 94825ad3c72a1c3f6a61199c302841f63241cf87, but its prototype was left.

Add prototypes for strlcpy/strlcat

xaa: Fix compiler warning (implicit declaration)

Add missing includes to fix the following warnings:
xf86DGA.c: In function 'DGAProcessKeyboardEvent':
xf86DGA.c:1050: warning: implicit declaration of function 'UpdateDeviceState'
xf86DGA.c:1050: warning: nested extern declaration of 'UpdateDeviceState'
xf86Xinput.c: In function 'xf86ActivateDevice':
xf86Xinput.c:303: warning: implicit declaration of function 'AssignTypeAndName'
xf86Xinput.c:303: warning: nested extern declaration of 'AssignTypeAndName'
xf86Xinput.c:311: warning: implicit declaration of function 'DeviceIsPointerType'
xf86Xinput.c:311: warning: nested extern declaration of 'DeviceIsPointerType'
xf86Xinput.c:324: warning: implicit declaration of function 'XkbSetExtension'
xf86Xinput.c:324: warning: nested extern declaration of 'XkbSetExtension'
commit add946daed531e29935593fb2e7ee70286185baf
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 11:14:40 2008 +0100

Nuke unused variables

commit f2bda61c03f64133ef68dd1557b26ae7dc5beb0e
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Oct 26 11:05:13 2008 +0100

Xext: Fix compiler warnings

Make GEClientGone static and include registry.h, to fix the following
warnings:
geext.c:225: warning: no previous prototype for 'GEClientGone'
geext.c: In function 'GEExtensionInit':
geext.c:280: warning: implicit declaration of function 'RegisterResourceName'
geext.c:280: warning: nested extern declaration of 'RegisterResourceName'

commit 24e863b0eb6ff11010a14cfed252a39df87a09d0e
Author: Bernhard R. Link <brlink@debian.org>
Date:   Sun Oct 26 00:19:34 2008 +0200

Bug#16501: autodetection of sbus graphic cards

Add automatic detection of the graphic driver to load for sbus devices.
This allows xorg to work on those devices without a "Device" section.

Debian bug#483942.

Signed-off-by: Julien Cristau <jcristau@debian.org>

commit fd97ff1bdd30c358525068a4c833f681e00719a2
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Oct 25 22:54:15 2008 +0200

Bug#5851: Document the "Log" option in xorg.conf(5)

commit 80b6768536fa439bfc5ce948bc8845a6f4af857b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 23 17:32:32 2008 -0700

XQuartz: Do check_xinitrc() later to avoid possible deadlock.
(cherry picked from commit af95174a088dc787d124ec548b1005f5b67c9e8d)

commit d837d4e2af35a83c7932e4d0422097ebd1f6ba2c
Author: George Peter Staplin <gps@Georges-Workstation.local>
XQuartz: pbproxy: pbproxy.h had invalid macro usage with 2 #else statements, so it wasn't building. Fix the build.
(cherry picked from commit 6bceb9ba85d95d7df63811a482abc39c4d595366)

commit 6a2693b2f9cfdec6f30e2ca4c4176f986f977249e
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Oct 23 17:40:23 2008 -0600

XQuartz: Remove the enable_stereo default. We now use feature detection to enable stereo visuals.

We need to revisit the GL/indirect.c changes. I think indirect.c should be using the same feature detection and GLX visual config code. The indirect changes will require testing...
(cherry picked from commit 49b7a7c6f20ca85d4d624444eb83db2f91344591)

commit b015a021b28623b7b734833de9b8269e41db4e8a
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Oct 21 20:30:35 2008 -0700

Allow non-gcc compilers to build xf86Xinput.c

commit b7cc6ca22a4ff7a94abee6962a07fd0b563d26a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 23 16:33:11 2008 -0700

miext/rootless: Silence some warnings by using proper C prototypes.
(cherry picked from commit 050e46e09efcc7e6f090fa4a749e9076c972b760)

commit b397cc727787a854417b11b482ce4807fc8ab58
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Oct 23 16:19:58 2008 -0600

miext/rootless: Fix the usage of DeleteProperty so that this builds again.
(cherry picked from commit 3de250e28a9a86bcae4464a15c2025805877ce1e)

commit 28d4f71193d2be26d1dcae724067539ac9db1123
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 23 15:01:03 2008 -0700

XQuartz: pbproxy: Fix compilation on case-sensitive file systems...
(cherry picked from commit 6622efca216663c99d112c7a226bde691d1f3215)

commit 40f9b6bf0de62098680235a958e0733770902cca
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 23 17:33:52 2008 -0400
Argh, macros.

commit 8b3c278fe7502f9343355f09213837622b0d9ca0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 23 11:39:04 2008 -0700

    Rootless: Properly typed expose_1
(cherry picked from commit 78e874fe17174ac8f61586573edaf7f16ece7b21)

commit 3e999d35c26b0ff894c257a3057d44b949744bd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Oct 23 11:37:13 2008 -0700

    XQuartz: Honor the Spaces preference for "When switching to an application, switch to a space with open windows for the application"
(cherry picked from commit bf561a06b2bf60395d26026ac7627d0cb254bc07)

commit 75067d12e4f4daa080dfb0209a9abf9c5654271f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 21 19:36:48 2008 -0700

    XQuartz: Added missing semicolons to Localizable.strings
(cherry picked from commit e9fe3f36d9529f00daeefa1379edd6f01a88f410)

commit a003932dccc438e4500d383982cee2376e808bd5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 21 11:23:42 2008 -0700

    XQuartz: Default dpi to 96 instead of 75
(cherry picked from commit 08a5a333d7fcea68146cd9cf50682b811378ab3ce)

commit 2d764e21f278ea26bae135db6dae07b94651951c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 21 11:19:06 2008 -0700

    XQuartz: pbproxy: SIGHUP reloads preferences.
(cherry picked from commit cbc0935ef74ebd76ed3db16d6ab86043eed42a3)

commit 0b695262176e96f508921905ee7f9cc086c7daf0
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 23 15:01:58 2008 -0400

    Change some #define foo() - static void foo()

commit aab73d719a8de6b830e47c7f47860b7990ea8d03
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Oct 23 13:20:59 2008 -0400
Fix previous cherry pick for API changes

commit 8767fc8d47276c7489ae50dd556a446a462776ea
Author: Keith Packard <keithp@keithp.com>
Date: Fri Apr 4 12:11:14 2008 -0700

Wrap AddTraps in exa and damage.

This fine (and unused) function wasn't ever wrapped which made it not work under exa.

(cherry picked from commit 06e7e1d0486e8c516a9b3219a2e86026f88825fc)

commit 4c926dbac65ceb699b91bb0d3fd0005a5854572d
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 23 22:07:37 2008 +1030

dix: fix two more endian issues, correct initial "enabled" value. #18111

EnableDevice and DisableDevice both change the property too.

And enabled must be set to FALSE in AddInputDevice, the device is not enabled yet.

X.Org Bug 18111 <https://bugs.freedesktop.org/show_bug.cgi?id=18111>

commit 084ae9e38812f19751a086eea7ce555761ae5a17
Author: Jerome Glisse <glisse@freedesktop.org>
Date: Thu Oct 23 11:28:53 2008 +0200

dri2: fail at context creation if driver fail to create it's context

commit f160e592f003d8be45789a1a14e86be22f5242b2
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 23 09:19:41 2008 +1030

dix: don't allow VCP/VCK be disabled through properties.

commit 98f01c2abe4771d76fbeb8fe70111b2bdfab776
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 23 09:13:41 2008 +1030

dix: fix endianess issue in AddInputDevice. #18111

dev->enabled is a Bool. Bool is two bytes.
BOOL on the other hand is a protocol type and always 1 byte. So copy the value into the one-byte type before passing it into XIChangeDeviceProperty.
Found by Michel Dänzer.

X.Org Bug 18111 <http://bugs.freedesktop.org/show_bug.cgi?id=18111>

commit f6cbe0326c57e3c9897f17baef78199b06537c44
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Wed Oct 22 18:16:12 2008 +1030

dix: init remaining three xkb fields to zero in a new client.

commit 0b56b44addc323a00eb7cd86240cb0dd4275bcf8
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Mon Oct 20 17:06:40 2008 +1030

xfree86: AllowEmptyInput is true by default - update the xf86Info defaults.
Also set AutoAddDevices and AutoEnableDevices to their defaults.
And in doing so, switch the rest of the defaults over to named initializers.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit d72cd753b99fae147ef4c189700fc697f1ea7fb0
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Tue Oct 21 22:32:57 2008 +0200

Close well known connections in ServerAbort()

commit 81e197b2a5457bb9f7ed72f82c2d33fd8dbfc202
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 21 16:00:32 2008 -0400

Bug #18159: Spell "anisotropic" correctly

commit 3891dd892449fcd7a514e3c5e763ba7e74003
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Oct 21 13:10:44 2008 -0400

exa: Add exaDrawableIsOffscreen() to the driver API.

commit c837d182c4674c01296bb7efd7d834d9dfd55f83
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Oct 21 09:11:59 2008 -0700

XQuartz: Only send mouse events while in the background if we're over a visible window.

This "breaks" xeyes but gets rid of annoying tooltips.
(cherry picked from commit 10090a132a0110fe24c8e886d9f53e6e947f8038)
commit 2a9613980f93959eedf9396735785d4c50546e2d  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Tue Oct 21 09:07:08 2008 -0700

XQuartz: More fullscreen fixes  
Start in rooted mode when enabled  
Make the hotkey cmd-alt-a behave  
(cherry picked from commit 22a54e46176c9e9bdfaa59ef33af6a9c4969ef)

commit e4ea1494debd4da3d0e3ad644c26e40921fe0430694  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Mon Oct 20 12:23:04 2008 -0700

XQuartz: Cleaned up keyboard init and map reload.  
(cherry picked from commit f78c9b6c6dac2c61dd6e9ba435dd26a57d1f51)

commit ebb2e1449cfb382a8060e04c52d42240670717069  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Mon Oct 20 09:46:34 2008 -0700

XQuartz: Fixed follow-keyboard-layout  
(cherry picked from commit a9f9bf512c9fd5a773f4e02182486edc71d5ab)

commit f67cd31d2cf1b8ad850bd21db5d975d77b4e54  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Tue Oct 21 09:29:37 2008 -0700

XQuartz: More progress towards fullscreen...  
(cherry picked from commit 628cae86b4ad02c49d20dfe1af6dc7ba0b78649)  
(cherry picked from commit b47b7ab66d6f0a7f6cbf678a57551246b7516d3e)

commit d434ed400986653771b6d60c224a2275bd6147ef  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Fri Oct 17 09:25:26 2008 -0700

XQuartz: Fixed missing key-equiv for Hide-Others.  
(cherry picked from commit 2c4b0f9615b646712609ebef3c0851c9a22781b)

commit 3695f62d072e7864fdcee385c8b5ca40f2018101  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Thu Oct 16 22:36:00 2008 -0700

XQuartz: Require applewmproto-1.1.1  
(cherry picked from commit ed235e3406e03a8a92c4b72f9f9018bae72ad65)

commit f935c11398b93860461672e88814026d75b71689
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Oct 16 13:09:21 2008 -0600

XQuartz: pbproxy: Fix 2 bugs with the preferences.

Add dump_prefs() for introspection.

Make prefs_get_bool a little more clear.

In get_property don't assume that the Mac realloc(NULL, 0); returns non-NULL. We shouldn't depend on implementation-defined behavior too much.

Add more commentary in various spots.

Add TARGETS in the TARGETS response. I don't know why some X11 apps do this, but it could be something that some weird toolkit/app tests for.

In reload_preferences add preferences synchronization, so that xpbpbroxy reloads the preferences, and picks up any changes.

Fix a typo/misspelling of the sync_clipboard_to_pasteboard preference.
(cherry picked from commit 165cbbb90c793d9335ea76f0274b1f60ad295903)

commit 4d978af5c71430f0043b1272f8d6344b8f03f12
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Oct 15 21:26:58 2008 -0700

XQuartz: Fixed window levels.
(cherry picked from commit ef4d37c73f31048dd74efee2c63fa08b92608f87)

commit 58eacf0b7beb86f1971570ede0bfd3976a84665
Author: Rémi Cardona <remi@gentoo.org>
Date:   Tue Oct 21 10:07:24 2008 -0400

Force LC_ALL=C when building xf86DefModeSet.c

Fixes build in not-quite-latin locales.

commit 2188582e5ea90edeb432a2f421d0a267439ba08f9
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Oct 20 09:55:24 2008 -0400

EXA: Avoid excessive syncing in PutImage

commit 8d0cb507ae568c8da92f10ff1188d797bcaa3d1a
Author: Peter Hutterer <peter.hutterer@redhat.com>
dmx: avoid hilarious #define Xcalloc xmalloc game.

commit 8a23707b866c11807e01056db97afec56e9b19c8
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Oct 17 09:15:39 2008 +1030

dmx: change remainder of manual EQ allocation to GetEventList().

commit 8de26770a41ee87c46eed2eddfde6f867d71fe1f
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date:   Thu Oct 16 14:28:14 2008 -0400

RANDR: Fix output property event delivery.

commit d936a4235e9625bd41569cef3452dd086284e0d7
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Sun Oct 12 21:58:30 2008 +1030

xfree86: if AllowEmptyInput is true, enable RAW mode on the console.

Usually, the console is set to RAW in the kbd driver. If we hotplug all input
devices (i.e. the evdev driver for keyboards) and the console is left as-is.
As a result, the evdev driver must put an EVIOCGGRAB on the device to avoid
characters leaking onto the console. This again breaks many things, amongst
them lirc, in-kernel mouse button emulation and HAL.

This patch sets the console to RAW if AllowEmptyInput is on.

Use-cases:
1. AEI is off
   1.1. Only kbd driver is used - behaviour as-is.
   1.2. kbd and evdev driver is used: if evdev does not grab the device,
       duplicate events are generated.
2. AEI is on
   2.1. Only evdev driver is used - behaviour as-is, but evdev does not need
to grab the device anymore.
   2.2. evdev and kbd are used: duplicate key events are generated if evdev
does not grab the device.

1.2 is a marginal use-case that can be fixed by adding a "grab" option to the
evdev driver (update of xorg.conf is needed).

2.2 is an issue. If we have no ServerLayout section, AEI is on, but devices
specified in the xorg.conf are still added [1], resulting in duplicate events.
This is a common configuration and needs sorting out.
Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
Signed-off-by: Adam Jackson <ajax@redhat.com>
commit 84ef8ed6bfed8d6c0aaa3c862879f9804299bd8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Oct 15 14:11:18 2008 -0700

XQuartz: implemented primary-on-grab and fixed clipboard-to-pasteboard
(cherry picked from commit bcb83eea729a01026d99d1cfc2b77385b5b275fd)

commit 0195d318465d5a6a9039091bcb252202471df5a4
Author: Luc Verhaegen <libv@skynet.be>

GLX: fix build when dri2 _is_ available.

Caught by Julien Cristau.

commit 398cdf959afadfa964aece13cc9d89b2dd589930
Author: Luc Verhaegen <libv@skynet.be>
Date:   Wed Oct 15 18:24:10 2008 +0200

GLX: fix build when dri2 is not available.

commit 2e60e6bd254290e19492b97c960d9678513c94bf
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 15 14:10:51 2008 +0100

XFree86: Simplify DontZap/-retro interaction

How hard could it possibly be, right?

commit 66a87517bd80b21e107df9d57968d81a92f91fd5
Author: Alan Hourihane <salanh@tungstengraphics.com>
Date:   Wed Oct 15 12:00:16 2008 +0100

re-enable DRI2

commit ced6690284fd334f225bbc94685c114ad3ab96d8
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Oct 7 13:49:28 2008 -0400

dri2: Update to latest protocol draft.

Mainly rename SwapBuffers to CopyRegion, which adds the xfixes region
argument and the bitmask argument to let us extend it in the future.
commit 87a016ae00feac3fbac7a518076a3852d49554
Author: Maarten Maathuis <madman2003@gmail.com>
Date:  Wed Oct 15 00:02:13 2008 +0200

    exa: restore \{x,y\}|\{Src,Dst\} to their original values when \done

commit b677bf97b62c3931df853b7c935bae25ab485892ae173
Author: Adam Jackson <ajax@redhat.com>
Date:  Tue Oct 14 14:30:19 2008 -0400

    int10: Degrade the checksum warning to X_INFO.

    I've seen about one case in three years where this has actually been
    correlated with the real cause of failure, and we've trained people to
    freak out about X_WARNING, so let's be less alarmist.

commit bd9c6b3a4d726a3f83ac6d8c1f7211edd28f25a
Author: Adam Jackson <ajax@redhat.com>
Date:  Tue Oct 14 14:04:01 2008 -0400

    EDID: Catch even more cases of encoding aspect as size.

    Very cute, Samsung, not only do you claim to be 16cm by 9cm in the
    global size record, you also claim to be 160mm by 90mm in the detailed
    timings.  Grrr.

commit ad677238bc96a8578113bbbe76d605d7a87aca44c
Author: Adam Jackson <ajax@redhat.com>
Date:  Tue Oct 14 13:00:50 2008 -0400

    Add backtrace definitions to dix-config.h.in

commit 8e368cf5b964f1d29fa0a463f9510457619b14d
Author: Nathaniel McCallum <nathaniel@natemccallum.com>
Date:  Tue Oct 14 09:50:29 2008 -0400

    Xorg: add \-modalias option

    This scans the installed video drivers and prints a Linux-style modalias
    listing of the devices each driver claims to support.

commit 3eb52de7f28b0050582f9ae4c28bc894d3f06f4b
Author: Adam Jackson <ajax@redhat.com>
Date:  Tue Oct 14 09:45:19 2008 -0400

    kdrive: Hardcode a different wrong value for number of mouse buttons
This should really come from the input driver directly, but, kdrive.

commit f3f6ea89aa9e0ffe9e37bc059e5e6bf75be4ee9f
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Oct 8 14:12:21 2008 +1030

Xi: check all handlers before applying property changes.

The current code exposes to inconsistent updates, i.e. if handler N succeeds
but handler N+1 fails in setting the property, an error is returned to the
client although parts of the server now behave as if the property change
succeeded.

This patch adds a "checkonly" parameter to the SetProperty handler. The
handlers are then called twice, once with checkonly set to TRUE.
On the checkonly run, handlers _MUST_ return error codes if the property
cannot be applied. Handlers are not permitted to actually apply the changes.
On the second run, handlers are permitted to apply property changes.
Errors codes returned on the second run are ignored.

commit ad67e3f063aa79247270f29e989bbfe5f62c9ed7
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Sun Oct 12 10:19:36 2008 +1030

dix: remove duplicate code in ReleaseActiveGrabs

Spotted by Colin Harrison.

commit 3fc4f40b6c6cb416e9dc4adb35c91b4f32e03ccc
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Sun Oct 12 16:08:26 2008 -0700

Restore xf86{Enable, Disable}GeneralHandler.

These were useful as part of the generic handler ABI, and are used by the NVIDIA
driver.

This reverts part of commit 50081d2dfb79878cb931a15c265f0d60698dfd39.

commit 2217d22a76cd82460f9683a6bf74c7248612889d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Sun Oct 12 16:07:24 2008 -0700

Revert "xfree86: xf86{Enable, Disable}InputHandler can be static."

These were potentially useful as part of the input handler ABI, even if nobody
currently uses them.
This reverts commit 278c11f01fbc6d6bd91c5a7127928e9ef5d29fca.

commit 5b336585a4cdf11d20831a9536ad581e959ea7f1
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Oct 10 23:23:02 2008 +0200

dri: don't set the dixPrivate key to NULL, as this is a statically set variable.

- This breaks on the 2nd server generation.
- No other subsystem seems to NULL their key.
- This should fix bug 17982.

commit b736f477f5324f79af30fc0f941ba0714a34ccda
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 10 16:33:24 2008 -0400

mieq: Backtrace when the queue overflows.

Since we're probably stuck down in a driver somewhere, let's at least try to point out where. This will need to be rethought when the input thread work lands though.

commit 94ed0ba1b5043ad9fc33b42756af447d5ab15bbd
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 10 15:53:48 2008 -0400

Move xorg_backtrace() up to the OS level so we can call it from DIX.

commit f650c1aeb06e957626bb0a74eddbb133f59dbeeb
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 10 14:07:28 2008 -0400

Revert "Don't leak EDID_block"

This reverts commit 05cdef18ca668ffec86b71033f71cfd262cdd994.


commit 0660dd9d7009147c395b9ea904539f76f55b9a7f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 10 13:41:50 2008 -0400

EDID: Catch monitors that encode aspect ratio for physical size.

This is not legal in either EDID 1.3 or 1.4, but hey, when did a little thing like legality stop anyone.

commit 956a4ba40b28251ab2d88b5d5b0796e01af2bdd
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Oct 10 00:28:34 2008 +0200

pixmap: Add some notes to devKind and devPrivate.

commit 4808bdec45775342eb9a6352b41e4919e1a69279
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 9 16:23:24 2008 +1030

Xi: don't memcpy the KeyClassRec from SD to MD. #16167

Most of its component get copied during CopyKeyClass anyway.
The ones that aren't:
postdown - never changed for virtual devices anyway.
down - shouldn't change that without sending events.

memcpy'ing the struct also copied mapWidth, which means we didn't realloc
during SetKeySymsMap lateron, overwriting the memory assigned to us.

X.Org Bug 16167 <http://bugs.freedesktop.org/show_bug.cgi?id=16167>

commit 18cdd733ad3dd36fa0a23dfbf18c7d99b86c0276
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 9 17:26:00 2008 +1030

kdrive: fix dixflags so they're always defined before enqueuing events #17734

If absolute events were posted, dixflags got set conditionally on whether the
valuators are different from the last posted set of values.
If dixflags are undefined however, the DIX interprets them as relative
valuators. Fix this by making sure defining dixflags is always defined.

X.Org Bug 17724 <http://bugs.freedesktop.org/show_bug.cgi?id=17724>

commit d58f2e30c64e8b2d8179dac06e0a54be06099da6
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 9 16:50:54 2008 +1030

kdrive: lastx/y needs to be set to the event coordinates #17728

X.Org Bug 17728 <http://bugs.freedesktop.org/show_bug.cgi?id=17728>

commit decec14219bcd992ec426e202ff3c8681b520b74
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Oct 9 15:10:21 2008 +1030

dix: silence "unused variable" compiler warning.
xfree86: export NewInputDeviceRequest/DeleteInputDeviceRequest

NIDR should be used to create a new SD from e.g. within a driver.
DIDR should be used to remove a device from the server.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

xfree86: cache dev->isMaster before freeing the device.

commit 05cdef18ca668ffe86b71033f71efbd262cdd994
Author: Zhenyu Wang <zhenyu.z.wang@intel.com>
Date: Fri Oct 10 13:45:51 2008 +0800

Don't leak EDID_block

commit 2d9da7a5f384d5f388b2be79b1ea0df5a3deb52d1
Author: Luc Verhaegen <libv@skynet.be>
Date: Thu Oct 9 22:22:53 2008 +0200

DGA: Track client state even when using old style DGA.

This fixes the issue that a badly killed DGA will keep on hogging
mode/framebuffer/mouse/keyboard.

commit 322335d5b5b6f15f56e3c1cbe372f13dc20932
Author: Luc Verhaegen <libv@skynet.be>
Date: Thu Oct 9 22:21:05 2008 +0200

DGA: Mash together xf86dga.c and xf86dga2.c.

This in preparation for an upcoming client state tracking fix.

commit d13c3cb43bc5e6b459c7df822292cf02ad2c9c4
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Oct 8 18:39:41 2008 -0700

XQuartz: Some motion made towards supporting fullscreen.
(cherry picked from commit 99be3d68b64059caada739a373e5e01844c776e0)

commit dc166bf6423f42243ea05f17340ff9ff99ecad74b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 7 11:39:08 2008 -0700

XQuartz: Fixed EXTRA_DIST for new GL files.
(cherry picked from commit a11c9052030b44045f037050a5825256b539ed50)

commit 803327929445256e159c10894e6305fbaa389982
Author: George Staplin <georgestaplin@george-staplins-mac-pro.local>
Date:   Tue Oct 7 12:12:38 2008 -0600

XQuartz: GL: setVisualConfigs() copied the behavior of indirect.c which is wrong, with regard to the handling of xcalloc failure.

Use ErrorF for an error message after an xcalloc failure, and return instead of falling through to GlxSetVisualConfigs, or abort()ing at the test branch.
(cherry picked from commit 1056700971fd5c034396ed6d6e1a5e092f0c6332)

commit f1ee6f323b27a0163325d8f6f6af7ae163bde14
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Oct 8 18:45:04 2008 -0700

XQuartz: Call setVisualConfigs in InitOutput, and only when GLXEXT is defined.
(cherry picked from commit 97173d4eda142c73bb975cc05225b791778f85af)

commit 52accec7db8c7613a521e40449b8bb5f0e92db105
Author: George Staplin <georgestaplin@george-staplins-mac-pro.local>
Date:   Tue Oct 7 11:31:48 2008 -0600

XQuartz: GL: Add the proper license information to the new files, and add more commentary to setVisualConfigs().
(cherry picked from commit 190a3d5e5de9915931928fb8e6da88bb9644c4a)

commit 63abdf6f61151cc90f769ed1708ee19b6b5c34ac27c9
Author: George Staplin <georgestaplin@george-staplins-mac-pro.local>
Date:   Mon Oct 6 18:05:12 2008 -0600

XQuartz: GL: Add the new C code to the Makefile.am.

Commit the darwin.c changes I missed in the last commit, for calling setVisualConfigs() .
(cherry picked from commit eb3c014e1710bf0b93bda10d6b9b795cd150d02d)

commit a8f5d422c9e0a39f55e80bbd180439b6ec3a805c
Author: George Staplin <georgestaplin@george-staplins-mac-pro.local>
Date:   Mon Oct 6 18:01:23 2008 -0600

XQuartz: GL: Provide code for getting the capabilities of the underlying system's CGL.
Add a setVisualConfigs that is called before the fbScreenInit, to setup the __GLXvisualConfigs. (cherry picked from commit fc86f9e4482043eca76d9d7a96e166be1aabf674)

commit 2998e48be343ab2a11d6d328fc961ab5b8eb9292
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Oct 4 21:25:50 2008 -0700

Xquartz: Fix parallel builds
(cherry picked from commit 1fe7298a3b9a2ed82c612292f9e547cf78f99ae5)

commit 7aa535708f1f33173bf05abc17b75e0841fffc385
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 8 16:25:59 2008 -0400

Fix more xcalloc stupidity.

Did I mention the hate?  Pretty sure I mentioned the hate.

commit 4fe80aa14a24df6d0611c47fc5654c3c4f56fdbc1
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 8 16:22:35 2008 -0400

I hate you xlib.  Please die in a fire.

commit 2c5332872f808e7a646a63ae7ec63a2b80f83ee7
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Oct 8 13:39:49 2008 -0400

s/kdDontZap/kdAllowZap/

commit 1feb69eb63e6739ff5db255ad529e84adf941a10
Author: Luc Verhaegen <libv@skynet.be>
Date:   Wed Oct 8 14:55:29 2008 +0200

DGA: Fix ProcXF86DGASetViewPort for missing support in driver.

Fixes a segfault when trying to activate a DGA mode without checking whether DGA modesetting is at all possible.

commit d1bb5e3b47ab71aa2f18f69daaf2a4c5ce06d800
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Oct 8 03:19:45 2008 -0300

mi: functions here are carrying 'time' without need.

commit 4964a9ca6c3f26376469b6d8217815a47231f0a9
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Oct 8 03:06:32 2008 -0300
mi: remove deprecated and unused functions.

miPointerDeltaCursor, miPointerGetMotionBufferSize and miPointerSetNewScreen.

commit adf3e296e2b00164fb22e89ad4f44acb2d2e3deae
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Oct 8 02:12:49 2008 -0300

Remove unused declarations.

AvailableClientInput (LBX debris) and xf86XinputFinalizeInit.

commit bca9fa2efe97d2816a2e9412cdef08a0145c8f96
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Oct 8 01:38:27 2008 -0300

Everyone knows that the loader is present. Silence it.

commit 56c615368c5a8e7acb0398434c2c68578626aa38
Author: Zhenyu Wang <zhenyu.z.wang@intel.com>
Date: Wed Oct 8 13:33:55 2008 +0800

Check nextEnabledOutput()'s return in bestModeForAspect()

In case no enabled outputs, we will reference wrong index of output array.

commit 278c11f01fbc6d6bd91c5a7127928e9ef5d29fca
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Oct 8 01:18:49 2008 -0300

xfree86: xf86 {Enable, Disable} InputHandler can be static.

commit 50081d2dfb79878cb931a15c265f0d60698d8d39
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Oct 8 01:11:38 2008 -0300

xfree86: remove xf86 {Enable, Disable} GeneralHandler and others unused.

commit 54294e15ecf4a8ec0f9d9fa8b6ed1a1b2d912ec7e
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Oct 8 00:43:22 2008 -0300

xfree86: fix wrong function name message errors.

commit 57dbb90f198116dca17c81117f80644d7ebe7f
Document zap/-retro interaction more.

commit 617933e8c259ad12388c0dd13421846a873975e3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 8 02:45:59 2008 +0300

XFree86: Fix DontZap interaction with -retro

- retro will now _not_ override (No)DontZap, if it's set in the config file.

commit d80bae2237e555025465d4d761a5cc537cc2bcdd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 8 02:43:27 2008 +0300

Update docs to reflect new DontZap default

commit 42e7b64bf90604e0099702f5447163be80a2efb6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 7 20:32:02 2008 -0400

-retro enables zapping

commit 9d135ac10a7374c7ccda705f1eeb02cc53076c34
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 8 02:30:05 2008 +0300

Input: Make DontZap the default

If you need to bail out the server, use Ctrl-Alt-Fx, or enable zapping if it bothers you that much. If Ctrl-Alt-Fx is broken, nag me until it's permanently fixed.

commit b574365fca954a999ebaeb7203d1e0ea6d99b3ea
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 7 13:09:11 2008 -0700

Revert "Unexport (and unimplement) xf86SetAccessFuncs" for now.

The nvidia driver currently uses these hooks to work around problems where RAC will disable access to the hardware at unexpected times. This change restores these hooks until we can come up with a better API for working around RAC.

This reverts commit c1df4fbede8058c15ce3a5759a7758fecafbb9e7.
Revert "Remove unused server state change callbackery" for now.

The nvidia driver currently uses these callbacks to work around problems where RAC will disable access to the hardware at unexpected times. This change restores these hooks until we can come up with a better API for working around RAC.

This reverts commit d7c0ba2e9eae7044ef4c31d9c3cbb9a71ee0f9f9.

Conflicts:

    hw/xfree86/loader/xf86sym.c

commit 94919480d8bb66e1807b4fe87b8f326ef6e012c6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 7 13:41:25 2008 -0400

    int10: Fix a nasty memory leak.

commit a57b2f172c1291f22f7ba2780c1b2f55e353c3e9
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 7 13:39:10 2008 -0400

    int10: Don't warn when scanning for devices we don't have.

Some BIOSes (hi XGI!) will attempt to enumerate the PCI bus by asking for the config space of every possible device number. This despite perfectly functional BIOS methods to enumerate the bus exactly.

commit a65e36a873cd1ba9896cd09a3e94dd93366005
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 7 13:38:12 2008 -0400

    int10: Remove useless check.

    If you have more than one PCI device with the same d/b/d/f, you're already in trouble.

commit 6dbfca571f6d214dc456710a60ebbbbd204cddb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Oct 7 10:07:03 2008 -0700

    Depend on xtrans >= 1.2.2 for TRANS_NOXAUTH
commit 30193fbff9d9284fbbd81fe5f7b6c4d102daf1d1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Oct 7 10:36:12 2008 -0400

Reinstate cursorScreenDevPriv

commit e7cd5d84ed1f3b3637dce6e9e6ef58c8611818c4e
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Oct 7 16:09:17 2008 +1000

fixup another calloc build issue

commit 60cfaa45a532bd3cfcfb4bd57b2f657c0a8b6a6b
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Oct 6 18:47:06 2008 -0400

Build fix.

commit c6d6d3e87a472b641d883a6c000f96e5bdf48532
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Oct 6 16:18:21 2008 -0400

Loader: Unexport a handful of consumerless symbols from dixsym.

commit 8a5b89e8e184f4cbf33c6dee0b06e61d8f857576
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Oct 6 15:36:51 2008 -0400

xalloc+memset(0) -> xcalloc

commit 0b7b89fba0b3865b2cf51295c68a5f4c7523f28
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Oct 6 14:19:30 2008 -0400

xalloc+bzero -> xcalloc

commit 9187f6ad9ec7ba9569a93d92561aac17eaa83491
Author: Keith Packard <keithp@keithp.com>
Date: Mon Oct 6 12:21:20 2008 -0400

RANDR: Delivery output property events.

commit 717c7492a0f6ba3f3eabda33515881eeef314155
Author: Dave Airlie <airlied@linux.ie>
Date: Tue Oct 7 02:38:44 2008 +1000

exa: don't call composite routines with no buffer.
We can get a case with gnome-terminal + links, where we get two arrays of glyphs all with 0 width and 0 heights in them. If this happens we manage to get to this case without any buffer setup and segfault.

commit aacac3edac7c6b82a0a0e3bc500f563d187e5df3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Oct 4 21:07:31 2008 -0700

XQuartz: Bumped bundle version to 2.3.2 for beta1
(cherry picked from commit 2021c4c4e726a6b8f27f19f16ed3d86e37dbe448)

commit ed3134918dcbdb58a5ef8359a77e8024c98396e6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Oct 4 21:06:58 2008 -0700

XQuartz: pbcopy: Re-enabled some code I commented out for testing
(cherry picked from commit 9b5d11409264080e394c8f18e06237122de80014)

commit b3a971d8b5df5ab4af0be49105ef32f67d010901
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Oct 4 18:54:15 2008 -0700

XQuartz: xphproxy: Support some of the preference toggles from X11.app, cleaned up CLIPBOARD_MANAGER atom management.
(cherry picked from commit f7673bb4de3c1f71eb390a3279eed3589efc3df4)

commit fc35c7a2e2888cb767413f5e85a79c7f422a6284
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat Oct 4 21:16:54 2008 -0700

XQuartz: GLX - enable_stereo defaults option should work now
(cherry picked from commit 3a6898f48756f6db2898292679301ef3dc109b4f6)

commit 7818aba1d1e74f4ffe68b7d6806622b94ae8a230
Author: Roland Scheidegger <sroland@tungstengraphics.com>
Date: Sat Oct 4 15:50:35 2008 +0200
dri2: fix compilation (remove no longer existing include file)

commit a29af6465883796a6ac0f4b72ce812a0632b2186
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Oct 3 23:54:10 2008 +0200

exa: remove "direct" case for exa[Trapezoids,Triangles]
- By adding a small hack to the xserver i was able to easily test the performance of the normally rare direct case (using cairo).
- It turned out to be 70% slower for me (large test on an otherwise idle computer), which seems enough of a reason
to remove it.
    - AddTraps could also use a 2nd look, but since noone is using that it's a bit hard and less useful to test.

commit 416870d8c9e7e383b87c8513c2296a0cb66e7ef4
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Fri Oct 3 22:59:40 2008 +0200

    exa: remove some excessive whitespace

commit b72a217ad59cc527327d7b1fc81898677b977d8f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 18:30:37 2008 -0400

    Dangling use of miDestroyGCOPs

commit f5b6c5a93f53cd4ba124712159bb44e93282a8e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 18:18:02 2008 -0400

    Fix compile for miSetScreenPixmap prototype.

commit 9dbfcd89214241626ac2704d1ff01cc0c67ae
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:40:30 2008 -0400

    Delete unused miModifyBanking()

commit 94825ad3c72a1c3f6a61199c302841f63241cf87
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:39:34 2008 -0400

    Remove unused wrapping for visual initialization.

commit 4791f8e2ba9a0e318b7f13c83618ece036dd53ed
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:23:58 2008 -0400

    staticize mi{G,S}etScreenPixmap

commit 14d98b4a2fdea4a4f5cc9b751151672cb392fba3
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:21:16 2008 -0400

    miFindMaxBand is dead code

commit 48b47928133bc462947104bd0f4204f00b993862
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:16:28 2008 -0400
mi\{Create,Destroy\}GCOps are unused, nuke 'em.

commit bd0e87c74789bd5447ec731aa2d2d6e05dd54abc
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 17:13:10 2008 -0400

Remove a bunch of unused API from the mi export list.

commit ee5e07bc22f0c3af7a412b6bc430ea6a1dafe16
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 16:58:01 2008 -0400

    loader: sort the mi symbol list

commit 77d0b0ecfa3c67ff8d11e773a7f083721cf4c6d7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 16:53:08 2008 -0400

    Remove unused pciNumBuses

commit 0ce61e21d6d7dca0090e319bbcd678570f2c3f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 16:05:19 2008 -0400

    Remove the Must_have_memory hack.

        Also remove an astonishing amount of misunderstanding of how casts work.

commit e6b1c1fada19268af559d89375989973729f6db19
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 15:47:50 2008 -0400

    const cleanup

commit fe616f9230b672edb89fca7516e750dc1b20c690
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 15:42:58 2008 -0400

    Drop the never-called SkippedRequestCallback list.

commit 31136b9467c2a17bbbed4a51d664e41e3290bd236
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Oct 3 15:33:47 2008 -0400

    Unexport MakeClientGrab\{Imp,P\}ervious

    xtrap used to use these, but it's gone now. xtest still does but it's
linked statically.

commit eaf3fd97014c27aceca8505c2713e7e9a537fc
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 15:24:35 2008 -0400

Unexport xf86NoSharedResources

commit d7d9ed5b506bfeac1c10516b6c4eb72dde3559863c
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 15:17:44 2008 -0400

Unexport xf86DeallocateResourcesForEntity

commit 49673b43584928c22d699d1968ed6813b272ae
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 15:13:39 2008 -0400

Unexport xf86SetEntityFuncs

commit 949ef6b79a36d6f6b6bc192c20ef0f13cc95d4f28
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 15:10:26 2008 -0400

Unexport xf86ChkConflict

Also remove the unused internal ChkConflict()

commit d7c0ba2e9eae7044ef4c31d9c3cbb9a71ee0f99
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 15:06:42 2008 -0400

Remove unused server state change callbackery.

commit 9ada146a16bcb2f20b2dd2936fb3a0349a31e99d3
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 14:40:18 2008 -0400

xf86RegisterResources: Always print any failed registrations.

commit a5d3fa90f3d763a5dcbb0ff4987562449819323
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 14:38:48 2008 -0400

Typo fix.

commit cc3335858508ffbc52123eb5bb0c34f42800c8c4
Author: Adam Jackson <ajax@redhat.com>
Remove the old implementation of RemoveOverlaps

commit 8fbf1185f5d6a1836b3e4265de6f605d82478e0b
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 14:32:32 2008 -0400

Internalise some resource list API.

commit 0ca4f3cee7e42a393cdd32d3a772a190ae68abc5
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 13:29:55 2008 -0400

Unexport xf86EnterServerState

commit c1df4fbede8058c15ce3a5759a7758fecaftbb9e7
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 13:08:43 2008 -0400

Unexport (and unimplement) xf86SetAccessFuncs.

Because, no.

commit 44269e604eb60ebaa6189fd4409d39a4ecebf9f4b
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 13:02:50 2008 -0400

RAC: NO_SEPARATE_*_FROM_* are useless.

If anyone can come up with an example of a bus where:

- both i/o and memory resources are addressable
- access to them can be controlled
- but they can't be controlled independently

then by all means, reinstate this logic.

commit 51fcb58f45824c7cde88b8b4ccbd6bdce760280e
Author: Adam Jackson <ajax@redhat.com>
Date:  Fri Oct 3 12:39:49 2008 -0400

RAC: AccessEnable() and AccessDisable() are mandatory.

commit 9c5fc7762e9ca09847965e67e247d95dfc197266
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Fri Oct 3 11:24:34 2008 -0700
Partially reverts commit 505c216d030a8eb6e9fa757ecebed9597a850c88.

I don't know how the hell git-cherrypick messed that up to delete fbwindow.c

commit 7bb73a9513710f8eab6c1237998590e9f472fbcc0d
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:  Tue Sep 30 23:53:12 2008 -0600

XQuartz: pbproxy: Possibly fix a memory leak by using an [NSApp run] loop, instead of calling CFRunLoopRun() directly. The leak wasn't reproducible on this machine, but someone was able to produce a leak trace with Instruments that indicates it was leaking in the CFRunLoopRun() path.

x-input.m: dequeue and ignore events when pbproxy_active is false.

x-selection.h: add an is_active method that is used by x-input.m to ignore events.

x-selection.m: Handle nearly every preference, except for primary_on_grab, which I don't really understand yet.

(cherry picked from commit 4d51ad851e64da83cbdfb0a4a22428418a7bcf75)

commit 2a5ce41f0371ad5df52586b8d4072578b6206321
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Tue Sep 30 13:54:08 2008 -0700

XQuartz: Use "pointer" and "pen" for device names to please GDK.

(cherry picked from commit 00ca0f4d839abf47e9573a1552473e039cf787e6)

commit d3f597a986d6b7c7e4164f350300dbd2e438949d8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Tue Sep 30 11:10:58 2008 -0700

XQuartz: Workaround for initial pressure/tilt being sent as 0 with motion during the proximity event

(cherry picked from commit 9a91d770a6411dd876187e64a8bda1f0745169ae)

commit 1657dfb843c0127ea31bdf0a8ef81d0c394cbc7b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Tue Sep 30 08:46:08 2008 -0700

XQuartz: Using absolute ranges for pointer location to increase resolution and better support tablets.

(cherry picked from commit d79cccb45f68b65d65718b5b77e2fae6eda762)

commit 88bb8c6f485a7aaf40f684d484a33cfedfa74a70
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Mon Sep 29 22:33:02 2008 -0700

XQuartz: Removed resolved comment about localization.
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 35817

commit b1d0b196617643619d24ed520b0a1161e26b66c6
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Tue Sep 30 13:04:35 2008 -0600

XQuartz: pbproxy: Make the signal handler safer by using _exit, and only exit.

Remove some unnecesary headers.

Remove some dead code that was never called or used in pbproxy.

Make use of an NSAutoreleasePool in x_init. It could potentially cause a leak on a startup without this.

Start adding reload_preferences to the x_selection class, as well as event handling for that.

commit cecd260143cf9f012f033ba029ad04cb49567c89a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Sep 29 22:32:24 2008 -0700

XQuartz: Added some localizable strings that were missing.

commit aae878b89081ffba16386e8d4987469313049bea
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Sep 29 22:26:20 2008 -0700

XQuartz: Actually send the pointer event from the pen even if it happens to actually have 0 pressure and 0 tilt.

commit b7ad866f8a9115147c0cf02af9e80ec464129392
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Sep 27 15:30:10 2008 -0700

Xquartz: xpbproxy: Split out app-specific stuff to app-main.m in prep for making this into a thread.

commit 5446adecfb085dd05471729bf5c55bf820b1cbe3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Oct 3 11:12:49 2008 -0700

XQuartz: Send AppleWMReloadPreferences where appropriate.

commit 6020c3fbfe06530cb2b90178d17a7d63beae028a
XQuartz: Added a --enable-integrated-xpbproxy configure option for building xpbproxy as an app or as a thread.
(cherry picked from commit 8edc5fb38c922f28659d2f823148339a8907c4d9)
(cherry picked from commit 88033a66a5549870fd053795b019d4c22950425b)

commit 505c216d030a8eb6e9fa757ecebed9597a850c88
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Oct 3 11:11:37 2008 -0700

    Added dep on applewmproto 1.1.0
    (cherry picked from commit b350b066740a2e72585153e35478538cf1bca9ef)

commit 1c1a6e965da412e767ad8bc15a5362116d64c6b0
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 22 22:09:19 2008 -0400

    Remove an utterly, utterly ancient changelog.

    Wow.

commit 9c8a2be2c73abf06245b1eb7f05f93e104dcfe42
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Thu Oct 2 08:55:14 2008 +0930

    dix: fix axis scaling.

    For two axes [a, b] and [x, y] (inclusive), the formula to scale point P(ab)
to (x,y) is:
    \[(P - a)/(b - a) * (y - x) + x\]

    And the whole end result rounded of course to get the integer we need.

commit 93ef72fa26b27cf90bf5c64ec19ac295a113aaae
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Sun Sep 28 21:47:21 2008 +0930

    dix: don't lose subpixel precision when scaling.

    Only scale x/y back from screen range if we have crossed screen, otherwise
leave it as it is.

commit 5ef5e89f0e4b9b8820093e072430e295efce32fa
Author: Simon Thum <simon.thum@gmx.de>
Date:   Sun Sep 28 22:32:44 2008 +0930

    dix: fix non-initialization of pointer accel in master devices.
Init MDs always with PtrAccelNoOp.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commits:
- 036d424827726b0c804ae1532109253270744207
  Author: Peter Hutterer <peter.hutterer@redhat.com>
  Date: Fri Sep 26 17:01:12 2008 +0930
  - xfree86: don't let DGA steal key events outside of [9,255].

- 56a24cf894a142b18c7f18e294074c32031f3d14
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 2 17:56:31 2008 -0400
  - xorg.conf.man: We don't look in root's ~ anymore, don't say we do.

- 7921c4a0bfc843c772dcb2fc185d4bcb1316330
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 2 17:08:48 2008 -0400
  - Remove some stale IPv6 debugging

- f836e1f11b7bf3449c3e469cc7799c4ed28d2356
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 2 17:03:54 2008 -0400
  - Unifdef ISC

- b1a31734731a768d586b4cb18317d4a5c5e20fa8
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 2 17:03:21 2008 -0400
  - Fix bad preprocessor line

- 00f01f39454001846869496d9124f62c01e5691a
  Author: Adam Jackson <ajax@redhat.com>
  Date: Thu Oct 2 15:48:18 2008 -0400
  - Don't inherit XAUTHORITY from the environment.

It's not especially obvious, and unpleasantly overloaded for the Xnest case. Typically this gives you a server that looks for its auth data in the authority file you were using for the running X session, which generally doesn't have an entry for the display you just started.

All the major dm's, and startx, pass -auth explicitly, so this shouldn't cause too much upheaval.
commit eb8be3e90a9c90a428696026d1e3b2152d7eefb4
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Sep 25 14:16:20 2008 -0600

XQuartz: pbproxy: Fix another STRING bug.

Fix the usage of the NSString cStringUsingEncoding: - it doesn't NUL
terminate the string, which lead to a bus error. So, we use
lengthOfBytesUsingEncoding: to get the length in bytes instead of
strlen().
(cherry picked from commit 6333d619e747c3b6bd3ba7557e35c0e5fd6aa40f)

commit edfa3f8233fde490eb4255f21473684e96d595a3
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Sep 25 12:29:57 2008 -0600

XQuartz: pbproxy: Fix a bug that rxvt brought out in STRING copying. Now I can copy and paste to/from rxvt
correctly.
(cherry picked from commit 82a4dc5f0f31a7911ee1ccec5d1b162077be6a811)

commit 12a59c44cb68843a60fc43257930d1cb7eb971b7a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 24 22:51:03 2008 -0700

XQuartz: Fixed threading issue with TSM.
(cherry picked from commit 93ab4e0071670bb80bfa1170dd97ed9d6d51c67a)

commit ee87c9b02401a7a08b396884ba412a503b078bbd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 24 18:57:36 2008 -0700

XQuartz: pbproxy: Removed stray SPI include.
(cherry picked from commit 2fb2bc77b804d7b63002c1423cb0bfc658eeeee45)

commit 591cc57627a9137159fb5a13287c1d61d8d2fc8c
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Tue Sep 23 13:59:25 2008 -0600

XQuartz: pbproxy: Fix 3 paths that could leak memory.

2 of the paths leaked, when INCR transfers were done. Now we
are leak free according to the leaks program for all transfers
I have tried so far.
(cherry picked from commit aa98d576bce02f0765cb355d282a894ba3778213)

commit 586fbc91df731150ff5e39170efe33f3cfac28a2
Author: George Peter Staplin <gps@Georges-Workstation.local>
XQuartz: pbproxy: Fix NSObject memory leaks by properly using the 
NSAutoreleasePool. Now the usage is consistent. In x_input_run() 
we create a pool, and release it after processing the XEvents.

Add some getpid() output to main for debugging. It needs a bit more 
testing before the next release.

Don't retain the NSPasteboard as the old code did. That may have 
contributed to the leak, and it made it so that we needed the 
NSAutoreleasePool created in main().

Remove the _known_types, and _pasteboard instance variables from 
the x_selection class. They aren't needed anymore.

The leaks program now indicates 0 leaks after some usage. I want 
to test further, but this seems much better, and my memory usage 
graph indicates it's not growing.

(cherry picked from commit b245d84a72ee3929546cd11a6eba3c60fb4a4d95)

commit 238999cfc99dbf306184f0e846465a8707bce9d2 
Author: George Peter Staplin <gps@Georges-Workstation.local> 
Date: Mon Sep 22 17:36:21 2008 -0600

XQuartz: pbproxy: Add a comment to pbproxy.h about how the DB() 
macro causes a leak (according to the leaks program).

Attempt to fix several other leaks with release method calls. 
For some reason the process still grows more than it should...

I will need to use some better methods than leaks, and malloc_history 
I suspect. Whatever is leaking, it's hard to find. I need to isolate 
the cases more.

Add a missing image/jpeg branch.

Remove read_prop_32 - it's not used.

(cherry picked from commit 63a680354deb545fe935ac97596dd35ceaed960)

commit 106eb37e0214b8bd864a59119b491abfc54f32629 
Author: Peter Hutterer <peter.hutterer@redhat.com> 
Date: Fri Sep 26 13:05:10 2008 +0930

Require inputproto 1.9.99.5

Pull and rebuild your input drivers, while you're at it.
Push server-known properties into xserver-properties.h.

Xi: add "deletable" flag to properties, add DeleteProperty handler.

A property can only be deleted if any of the following is true:
- if a property is deletable and all handlers return Success.
- if a property is non-deleteable and the all handlers return Success AND the delete request does not come from a client (i.e. driver or the server).

A client can never delete a non-deleteable property.

Xi: allow Set/GetProperties to return a status, and honour this status code.

If a property handler now bails out, return the error code to the caller. This allows to be slightly more specific with the errors.

Xi: remove configure/query device property calls.

This removes all the meta-information about device properties (pending, fromClient, range, valid_values, immutable).

xfixes: realize the invisible cursor before displaying it.

AllocARGBCursor realizes the cursor but can only do so if we have devices there already. If we don't - then the cursor needs to be realized elsewhere. This is usually done in InitializeSprite, but since xfixes just hard-swaps the (realized) cursor to the InvisibleCursor, we need to manually realize it before trying to display it.
commit e58be0f3425fb3e946a222077672c3c01308f887
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Sep 23 10:01:30 2008 +0930

cfg: print error code if NIDR fails.

commit 30c3c13f030268aaa6a3598d538fafd0592d77a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Mon Sep 22 11:10:46 2008 +0930

xkb: squash canonical types into explicit ones on core reconstruction.

If we update key types from core, and groups 2 - n have a canonical type but
the same symbols as the explicit type of group 1, assume that it was a core
sym duplication according to Section 12.4 of the XKB Protocol Spec.
Ignore the canonical types and pretend there's only one group for the key -
with the explicit key type.

The protocol spec does not cover this case, so we have to guess here.

commit ae986d1c73d2f720bd0309d8c33328d14e8eed25
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Sep 19 18:27:24 2008 +0930

xkb: fix core keyboard map generation. #14373

According to Section 12.4 of the XKB Protocol Spec, if a key only has a single
group but the keyboard has multiple groups defined, the core description of
the key is a duplication of the single group across all symbols. i.e.
G1L1 G1L2 G1L1 G1L2 G1L3 G1L4 G1L3 G1L4

The previous code generated G1L1 G1L2 G1L3 G1L4 G1L3 G1L4, leading to
"invented" groups when the process is reversed.

Note that this creates wrong key types on reconstruction from core to xkb,
i.e. any single-group key with a key type that is not one of the canonical
four (Sec 12.2.3), will get the assigned type on group 1, and a canonical type
for the other groups.

X.Org Bug 14373 <http://bugs.freedesktop.org/show_bug.cgi?id=14373>

commit 5bf3f0f0d4e0f96cfebd14b58580c3c8733626f
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Sep 25 15:40:19 2008 +1000

exa: make sure pixmap devPrivate.ptr is NULL at create time
commit 82f150d73ce9a7d8eaf7241a51b03af05bcec159
Author: Ian Romanick <ian.d.romanick@intel.com>
Date:   Wed Sep 24 16:56:45 2008 -0700

GLX: Make sure GLX_SGI_make_current_read is enabled when possible

commit 8d9defe8c2a685709318c1d43379443df3d2322a
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Sep 24 10:11:00 2008 -0400

Fix un-suppressing the initial cursor.

The intended behaviour was "show as soon as someone calls
XDefineCursor". What you actually got was, uh, slightly less well
defined, since the screen's ChangeWindowAttributes hook would run after
DIX handled the cursor change. Oops.

The trivial way to turn the cursor on is:
% xsetroot -cursor_name gumby

Refer to /usr/include/X11/cursorfont.h for cursor names.

Thanks to anholt for catching this.

commit a39377cbcbd3091095efbeab25bec18ae520147e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 23 09:22:07 2008 -0700

Revert "Render: Use built-in SHA1 library"

This reverts commit d3bd31fddf7894f89ba80a3cdddf49aff08db8.

X.org should not be providing a custom SHA1 implementation.

commit 10a9bac0257b381367cedff395b40425d584bf59
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 23 09:21:37 2008 -0700

Revert "Update COPYING for SHA1 code"

This reverts commit 64387c8573ca8b3909667e32d7a9fba9567b21d3.

X.org should not be providing a custom SHA1 implementation.

commit 64387c8573ca8b3909667e32d7a9fba9567b21d3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Sep 23 19:05:14 2008 +0300
Update COPYING for SHA1 code

commit d3bd31fddff7894f89ba80a3cdddf49aff08db8
Author: John Tapsell <johnflux@gmail.com>
Date:   Tue Sep 23 18:56:32 2008 +0300

    Render: Use built-in SHA1 library

    Getting an external library for SHA1 is a mess, so just use our own, regrettably. Public domain implementation.

commit 991ed2949ba682684952fe323f8f0f51ebdca98e
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Sep 23 10:22:22 2008 -0400

    Rename SaveSetMap() to SaveSetShouldMap().

    Avoids preprocessor collision with xfixeswire.h

commit ca9fae00795a114bca4397c32b543d6326a4c547
Author: Owen Taylor <otaylor@redhat.com>
Date:   Mon Sep 22 12:42:41 2008 -0700

    Change 'remap' to 'map' in saveset functions/macros

    Now that the code has been fixed so that Unmap means unmap and not "don't remap", 'remap' was confusing to have in the function names/parameters, so change it to simple 'map'.

    Signed-off-by: Keith Packard <keithp@keithp.com>

commit ad14239a358cf65e5702ec7d054aa1db4f1cdd68
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 22 11:26:49 2008 -0400

    Upgrade GLX Public License 1.0 to FreeB 2.0.

According to the press release:

    Previous SGI contributions to the free and open source community are now available under the new license. These contributions include the SGI® OpenGL® Sample Implementation, the GLX™ API and other GLX extensions.

    […]

    "SGI has been one of the most ardent commercial supporters of free and open source software, so it was important to us that we continue
to support the free software development community by releasing our earlier OpenGL-related contributions under this new license,” said Steve Neuner, director of Linux, SGI. “This license ensures that all existing user communities will benefit, and their work can proceed unimpeded. Both Mesa and the X.org Project can continue to utilize this code in free software distributions of GNU/Linux. Now more than ever, software previously released by SGI under earlier GLX and SGI Free Software License B is free.”

"The GLX API” is here read to include the original GLX source release from:


which includes glxext.c as included in XFree86, from which our copies in glx/ and hw/dmx/glxProxy/ are derived.

commit 722c51960dd4948b8a64f8eef115fa69da597ef9
Author: Owen W. Taylor <otaylor@redhat.com>
Date:   Mon Sep 22 11:04:26 2008 -0400

Don't remap windows for SaveSetUnmap

Since ReparentWindow() does a unmap/map pair for windows that are already mapped, for saveset windows with SaveSetUnmap, we must unmap the window before calling ReparentWindow() to avoid the generation of MapRequest events, and so forth.

commit 0bb317a78b96fddccdac319c9706b3a12f931ea44
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Sep 22 10:51:51 2008 -0400

Default to -br.  Add -retro option for the nostalgic.

-retro also reverts to the classic cursor display behavior, meaning, the cursor will be visible before anyone calls XDefineCursor().

commit ab17f88506a2dde32c50f72b03743cd9e384ecc
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Sep 22 01:59:31 2008 +0200

Don't use our version of ffs() if the system has one

commit af0d5e2ef7b1b3f42e3522568c5f6850823c102
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Sep 20 19:41:46 2008 -0700
XQuartz: 64bit crash fix ... don't pass pointers through xe.
(cherry picked from commit 5f1265b82dead88f15f2affc79c2782519502fa2)

commit 852a0b0dde34e7179394d96d09122b99bf7fe904
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Sat Sep 20 17:49:16 2008 -0600

XQuartz: pbproxy: Add an X error handler that returns 0.

Move the struct atom_list into the x-selection class, so that it's
no longer a global variable named atoms. This may ease pthread
integration and reduce the chances of symbols conflicting.
(cherry picked from commit c1403c713ca80104ae3736bd2ed1eb6ffa5192b6)

commit 7fa6fc5ad0b12bc52a1c22906709fbb003782d11
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Sep 19 21:28:46 2008 -0600

XQuartz: pbproxy: Fix a bug that occured when a PICT format was available.
We may need another branch to convert a PICT to a PNG or JPEG. For now
TIFF works well in all of the test image copying apps when converted to
PNG or JPEG with an NSBitmapImageRep class.
(cherry picked from commit adf339d8f948fc1e308dbcaec38fcfe504b5b0ab)

commit f67490ceb5b9ddf25e734cc331705103599f3ed8
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Sep 19 14:29:37 2008 -0600

XQuartz: pbproxy: Make the proxy handle copy request races, and PRIMARY
INCR transfers mixed with a CLIPBOARD change.

Fix a bug with some UTF-8 transfers. I can only guess that my UTF-8
tests before were inadequate. I can now copy/paste any characters between
uxterm and Textedit.app.
(cherry picked from commit 7ca1532e8e6e2c733c9c508eee0de73d09ecb947)

commit b666ffd78155db228174041e9d7460b8a07dde0f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 19 13:15:07 2008 -0700

XQuartz: "Disable" the text when syncing is disabled.
(cherry picked from commit 7713d7ab66e74b212a6c0d634a3ad82373e178db)

commit dba290ec231422740f453b69b187f80df3f50e4b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 21 17:40:35 2008 -0700

XQuartz: Added a preferences UI for pbproxy options.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35828

commit a928cae57b47625c9e3d136840d3e5d17fd3c51e
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Sep 19 00:18:44 2008 -0600

XQuartz: pbproxy: Add a missing include of Xutil.h. Another header
seems to have done this before, but correctness matters.

commit 749bdf19b2a50201fddd04207c31122470f435e3
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Fri Sep 19 00:02:48 2008 -0600

XQuartz: pbproxy: Add COMPOUND_TEXT handling. Do misc. cleanups with testing
to verify that the behavior didn't change.

main.m: XInternAtom compound_text, and atom_pair.

pbproxy.h: Add compound_text and atom_pair to the struct atom_list.

x-selection.m: Add an #include of Xutil.h. Refactor the reply struct
initialization to be done in a common place. Add send_reply: to simplify
the code a bit more. Add send_compound_text: which handles the
COMPOUND_TEXT type. Add the beginnings of a send_multiple:. Change
handle_image:extension: to handle_image:. The extension: message isn't
needed anymore.

commit 00bfbee59fe3b0c8d1a55d1851206857ca563ece
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Thu Sep 18 13:10:41 2008 -0600

XQuartz: pbproxy: pbproxy now responds to selection request events.

We can now copy and paste images to and from X11. Text copying and
pasting works as well.

The NSPasteboard can contain TIFF or PICT images, and pbproxy will
translate to an image/png or image/jpeg request, and list those in the
TARGETS.

I added a description of the basic design at the top of x-selection.m.

I removed the request_data x_selection class struct. It's not needed.

commit 811e9f5e9e9c07f4b8fb1e9a4d9df91a2e359221
**Author:** George Peter Staplin <gps@Georges-Workstation.local>
**Date:** Wed Sep 17 11:59:36 2008 -0600

**XQuartz:** pbproxy: Use an NSBitmapImageRep to convert an "image/png" selection to a TIFFRepresentation for use with NSPasteboard.

This has been tested with the Gimp and works with some minor quartz-wm changes. The Finder clipboard shows the image updates after an Edit -> Copy.
(cherry picked from commit 12912adaeea759d30f96d8ae51a84fd1659ea0ac)

**commit d8d555bac77509248d1145e928a2edf500b326b9**
**Author:** Jeremy Huddleston <jeremyhu@freedesktop.org>
**Date:** Wed Sep 17 10:11:00 2008 -0700

**XQuartz:** Don't enable 8bit visuals in the TrueColor server, since it's not working yet
(cherry picked from commit 1317c8ff94c4bd32617a5398e929f667bd87da58)

**commit 23ec8261b6a746cb84e1328284fdd5587bca6f6**
**Author:** George Peter Staplin <gps@Georges-Workstation.local>
**Date:** Tue Sep 16 21:09:22 2008 -0600

**XQuartz:** pbproxy: The greedy CLIPBOARD handling now works for text.

This change adds some [self own_clipboard] calls in the necessary places to get the proper greedy behavior.

UTF8_STRING and STRING properties seem to work well now with the test cases (PRIMARY, and CLIPBOARD). I can copy from several different X apps, and have the behavior be correct when pasting. I also verified that quartz-wm isn't doing the copying, by disabling the quartz-wm paths.
(cherry picked from commit 934669f733c28f07b9d934d8f8f0b63cfebeb900)

**commit 7c2eb3d41af33d15c52500111d0d349a9a8a4542**
**Author:** George Peter Staplin <gps@Georges-Workstation.local>
**Date:** Tue Sep 16 15:21:18 2008 -0600

**XQuartz:** pbproxy: return the TARGETS list as a 32-bit list to fix a bug that was in the original.

Add TRACE() calls where appropriate to try to figure out why we are losing CLIPBOARD at times, after transferring PRIMARY to the NSPasteboard.

Use the new pbproxy_clipboard_to_pasteboard where appropriate.
(cherry picked from commit 40190675a6c1889cca3574e5d1a9c16ab74315a7)

**commit 81c836902dc5b0b83cd95262d48cbbc4e81ff3ae2**
**Author:** George Peter Staplin <gps@Georges-Workstation.local>
**Date:** Mon Sep 15 13:35:46 2008 -0600

Rename reclaim_clipboard to claim_clipboard.
Convert the puts usage to use DB().

Add the initial handle_image method.

Check for nil in the NSString instantiation in various places.

Add some commentary to enhance the clarity of why I did some things.
(cherry picked from commit 37361567b65241eab64e8b30cd9729d0e71a86d2)

commit 85e23affea7bf9a7615b0292e67f170266d85f8
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Sep 15 13:31:19 2008 -0600

Add an image_jpeg Atom.
(cherry picked from commit ea9dc27977c5eab666f2aa2d914e4e28d36758c7)

commit 6b42f40ff9b9ff3e74c4bb2ce5cfad65016934de
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Sep 15 13:28:50 2008 -0600

Rename reclaim_clipboard to claim_clipboard.
(cherry picked from commit d333a8e2b5514b8b76a78c6a13a3f5149ea8de27)

commit 2ab56f981b1a641386d6cf9e9cb75655477b3e575
Author: George Peter Staplin <gps@Georges-Workstation.local>
Date:   Mon Sep 15 13:27:08 2008 -0600

Add image/jpeg type, and rename reclaim_clipboard to claim_clipboard.
(cherry picked from commit 32b175ef626b8a971784e51e937e358cb10e20ac)

commit cbd32645f7d1054f79ad137a16766da1076c610e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Sep 15 09:33:55 2008 -0700

XQuartz: pbproxy: Added global variables to customize how pbproxy behaves
(cherry picked from commit 21a2d0b8d03fa1c66ec0c5c11fd2ab24547727)

commit 5b397642dc29920245eb64cc85243cac893e0e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 14 09:23:17 2008 -0700

XQuartz: pbproxy: First round of updates to pbproxy from George.
(cherry picked from commit 5e8b956f8f1f7e8d577d97cb66424954be72684)

commit dac9e91870f9c787eae97c9d7d0607979c57eb5b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Sep 21 17:32:24 2008 -0700
mieq: Made custom event handlers safer for nevents >1

commit 8c46505d7d91e0644b19cccc4b342fceb6f86cab
Author: Kim Woelders <kim@woelders.dk>
Date: Mon Sep 22 08:37:29 2008 +0930

xkb: fix use of uninitialized variable.
And some cosmetic changes to use stuff->change consistently.

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>

commit 2b266eda6e23d16116f8a8e258192df353970279
Author: Peter Harris <peter.harris@hummingbird.com>
Date: Thu Dec 20 15:58:01 2007 -0500

Fix panoramiX request and reply swapping

Fix panoramiX request and reply swapping
Set window and screen values in panoramix replies
Prevent buffer overrun in ProcPanoramiXGetScreenSize

commit 03ab8f11d25b0ca3b37b5350bca4e1028768e
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 18 12:17:05 2008 -0700

When resizing a window with redirected descendents, don't expose them

Bit/window gravity computations need to recompute exposures to manage the
bits which are saved by gravity during the resize computation. That's easy
for non-redirected windows where the bits are all within the parent's
 pixmap. For redirected windows, we don't need to deal with this at all, so
just skip the whole re-computation adventure.

Signed-off-by: Keith Packard <keithp@keithp.com>

commit d26083fe02658e7312a8da6a5b11652f9fe57bc8
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 18 12:14:58 2008 -0700

Switching from Automatic to Manual redirect needs to unmap/remap

When changing a window from automatic redirection to manual redirection, the
parent clip list needs to be recomputed; the easy way to get that computed
right is to unmap/map the window, just as when redirecting the window the
first time.

Thanks to Owen Taylor for helping diagnose this.
Signed-off-by: Keith Packard <keithp@keithp.com>

commit 8bfd88ca61a1747714781a090d1e9dd8f3ad5dfc
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 19 12:13:43 2008 -0400

Revert accidental edid changes from previous commit.

commit 69b79c1a6648f0d04a1b37a728b2e3d76233530f
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Sep 19 12:02:28 2008 -0400

Update to SGI FreeB 2.0.

Under the terms of version 1.1, "once Covered Code has been published
under a particular version of the License, Recipient may, for the
duration of the License, continue to use it under the terms of that
version, or choose to use such Covered Code under the terms of any
subsequent version published by SGI."

FreeB 2.0 license refers to "dates of first publication". They are here
taken to be 1991-2000, as noted in the original license text:

** Original Code. The Original Code is: OpenGL Sample Implementation,
** Version 1.2.1, released January 26, 2000, developed by Silicon Graphics,
** Inc. The Original Code is Copyright (c) 1991-2000 Silicon Graphics, Inc.
** Copyright in any portions created by third parties is as indicated
** elsewhere herein. All Rights Reserved.

Official FreeB 2.0 text:


As always, this code has not been tested for conformance with the OpenGL
specification. OpenGL conformance testing is available from
http://khronos.org/ and is required for use of the OpenGL logo in
product advertising and promotion.

commit cc20112a65d3f641ce0261c86a541f94fae5215c
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Fri Sep 19 08:44:04 2008 +0930

Xi: don't include client-side headers.

Spotted by Mikhail Gusarov.

commit e76b5b5e731e2d6c61ff6e6e9b2f42b20ac473d5
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Sep 18 14:51:15 2008 +0930

dix: calloc, not malloc, ValuatorClassRec.

For master devices, the ptraccel code could segfault on free since we'd be
dereferencing random memory. Callocing the valuatorClassRec is the easy fix.

commit f789408f7dbfe57a0111e185ac83d1c70f262ba8
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Mon Aug 25 14:52:35 2008 +0930

Xi: remove broken SDeviceEnterNotifyEvent, replace with ...Leave...

The event format is the same for both (bar the type), so one is enough.

commit 97b9374a8af5a4cc52f9074feb4ce40cf0b90796
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Sep 17 15:48:56 2008 -0700

Conditionalize Composite-based backing store on pScreen->backingStoreSupport.
(cherry picked from commit 37876602957924c7cf759a800eddd574ee2385a)

commit b4762c0245ed2966606171cf27f40aa745fdc76e
Author: Julien Cristau <jcristau@debian.org>
Date: Tue Sep 16 17:13:42 2008 +0200

exa: disable shared pixmaps

They got re-enabled in ee7c684f21d220d5e046bab31ae617a7d64d60f6
("Reimplement ShmPutImage.")

commit 52bbfcb5bfa64fd09ef625f35a2fb4a0518003825
Author: Mikhail Gusarov <dottedmag@dottedmag.net>
Date: Mon Sep 15 10:43:46 2008 -0400

scrnsaver is optional at build time.

commit b6ab114212c0e4c3346ceb5b207f14c526ab81e7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 12 19:11:53 2008 -0400

Array-index based devPrivates implementation.

Note: DevPrivateKey is now pointer-to-int, which means
each key now needs to point to some global storage of
size at least sizeof(int).
commit 999f3362d50a753c1801d565766219808efdb1a5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 5 17:32:16 2008 -0700

    XQuartz: Dead code removal
    (cherry picked from commit 43184cd379c4fb7254391b8a362016cbf89b5529)

commit 6548a55ebdf43231a3c48debfb54aa5aa2flaa956
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 5 17:05:03 2008 -0700

    XQuartz: 256 color support
    (cherry picked from commit 8dd6d5c825d457f26b41b79d02d57ed4a5ecf1f5)

commit bad7cd14c2021b14971b3f707f927803a053003e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 5 10:46:36 2008 -0700

    XQuartz: Dead code removal
    (cherry picked from commit bfl0fb0b1f776e72db7c76db11f764e26f9d62c4)

commit 1119fe136f8731f26fc6f50b92f5df78f383be
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 5 10:46:20 2008 -0700

    XQuartz: Changed around fd handoff model to be more robust
    (cherry picked from commit 4fe605c2bc62d50e0b5764d9edda245af227630b)

commit 183233b27beb441742a53e440c3389b4ea125b8a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Sep 12 15:25:44 2008 -0700

    XQuartz: Don't warp the pointer on server start for XQuartz
    (cherry picked from commit c0da576d4921c246a9ac747921b48ab9e718347f)

commit 7a46dd30d332bc1d42f82b0391e806d3b067ebbd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Sep 4 09:18:40 2008 -0700

    XQuartz: Dead code removal
    (cherry picked from commit 2e45344870f5d17181df6407da3448991036d783)

commit 1c70e53f2560cb877c8b149034f296232de67a4e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Sep 4 08:55:22 2008 -0700

    XQuartz: Fixed proximity logic errors for tablets.
    (cherry picked from commit d942849f248c368b92ca73e145e8a5bc339112d7)
commit c661c6ae7a9cd981f914484aa4c300792280def
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Sep 4 08:07:32 2008 -0700

XQuartz: Remove decls of crashtracer strings that we don't use anymore in here
(cherry picked from commit 4a653c6bf2d70f2960a8c7e726e7628cfc3e9051)

commit 54162aca404a7de2e560cc2aea01445e14742efe
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Sep 4 05:18:31 2008 -0700

XQuartz: Fixed a crash in RootlessNativeWindowMoved
(cherry picked from commit a16048ec08e173ce42a78a77704f5fdeb4480f)

commit ce781cac1b52003da6c025cd29e2c2ad97dbb324
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Sep 11 16:24:20 2008 -0700

Fix distcheck.

commit 31c62495f1de6e9ba41e1f6d7fa263eeb849129b
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 10 13:11:09 2008 +0800

Drop a reference to user mode after create

User mode has no customer when create until assigned
to some output.

commit 079625570d51e41569b73b2fd9237eb8f967f408
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Sep 8 08:50:52 2008 -0700

Bump ABI major versions for the TryClientExceptions change from commit 883811c.

commit 4e004c68283828660f2259a4a4120a84667dcafa
Author: Zhenyu Wang <zhenyu.z.wang@intel.com>
Date:   Mon Sep 8 09:16:59 2008 +0800

Revert "randr: fix user mode create initial reference count"

This reverts commit 7c5ca85a9e6d49ab572831b3e0c08bb4cafb395e.

commit 40a9482f8c5b3eac86c221ccce78510e850f4d2b
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Fri Sep 5 06:09:51 2008 -0700
Add cscope files to .gitignore

commit bf333c2f9833a178887e7bdd7fc338f1e09e387f
Author: John Tapsell <john.tapsell@john-desktop.(none)>
Date:   Wed Sep 3 12:20:17 2008 +0100

fbdevhw: Remove pixclock check.

The check can fail because the output from FBIOGET_VSCREENINFO is used to set
Clock in fbdev2xfree_timing(). Then in fbdevHWSetMode(), xfree2fbdev_timing()
is called which sets the pixclock based on Clock. The resulting circle results
in slight rounding errors, causing the comparision check in fbdev_modes_equal
to fail.

commit 47bf269d5922a4998c33908a53ad1affa8de96c0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 3 12:54:56 2008 -0700

mieq: Fix my broken cherry pick.

commit 1669308be6d4cc6265e5fa8ef47fcbfe6f093
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 3 09:23:06 2008 -0700

XQuartz: Added pasteboard proxy code stripped out of quartz-wm.
(cherry picked from commit 1f842c71c35db031a24def646429834d6054adf1d)
(cherry picked from commit 144746223d8dc3f6f12a0e805aa27ae6e57df558a)

commit 46168b3b404164c1f2e7876031e70fb77192fe75
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 3 09:11:25 2008 -0700

XQuartz: Updated Tablet code to include ranges for valuators and added cursor and erasor
(cherry picked from commit 6bca78760951cb5eb75ea66b7631ad230d27a)
(cherry picked from commit fafa6d6de39cf6b59667793f03b40db36f0c5)

commit 7f5318131dd8f8ed5797c0d9641f6f34f34be0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 3 03:54:42 2008 -0700

XQuartz: Removed "Done" button from Applications Customization. Now properly save on exit.
(cherry picked from commit 2f1e163d5db6063e54fca045ea67c29ce3e46eaa)
(cherry picked from commit 7542c00b96461c3474b8c23545171c4b6d6ddfd29d)

commit 9e70a3cf58c205948f6a415e203d825e9b660d9d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Sep 3 09:33:39 2008 -0700
mieqProcessInputEvents: Check custom event handlers first.

commit 700e8bf3f3f9b1c3921de912b8110fadf5e0626da
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Sep 3 02:41:20 2008 -0700

XQuartz: Updated man page
(cherry picked from commit 6932d0d0d19ea75c64ed38b82a246b68c6bbf8bee)
(cherry picked from commit 8e3da36b6b0a261975808be67b5ca733a1a23d)

commit 7430bb9093ea8cf9589d745742c7353e53a144f8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Sep 3 02:37:09 2008 -0700

XQuartz: Removed dead code (unused option definitions)
(cherry picked from commit 3d74f77490105c0704c0b10dc7a6eb859bf6e985)
(cherry picked from commit c1e5ea9ba058f6a13f564165a3d6862335729630)

commit b3836e5b537e2e04e563246d90f385e1b4741baa
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Sep 3 02:36:39 2008 -0700

XQuartz: Cleaned up our sleeping before adding the launchd socket.
(cherry picked from commit ebe49dfca6e04d66232bad760f522629397cc35)
(cherry picked from commit 2cf74a76d54d795cfc3ec3080a526b9177327782d)

commit 7c5ca85a964d9ab572831b3e0c08b4cafb395e
Author: Zhenyu Wang <zhenyu.z.wang@intel.com>
Date: Wed Sep 3 09:41:00 2008 +0800

randr: fix user mode create initial reference count

Don't need extra reference count adding when creating user mode.
This fixes user mode destroy, otherwise we get BadAccess error.

commit 4e1f9f51a9eea115ce2a073824e9c5ceef4e2f364
Author: Daniel Drake <dsd@laptop.org>
Date: Tue Sep 2 16:20:40 2008 -0400

Don't try to destroy a NULL pixmap.

commit 613ce0955032fb032de0a3940752828d314f057a
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Sep 2 15:43:15 2008 -0400

Fix strict-aliasing silliness in XAA.

commit b5edcfa55c399e83d51242e93d4f25d8bc4fec1f
Xevie: swap replies as necessary

commit d3ae193f4ac87530f2745f0b5e7b70dd516881e
Author: Thorvald Natvig <slicer@users.sourceforge.net>
Date:   Mon Sep 1 19:36:56 2008 +0200

Xevie: always initialize rep.length (bug#17394)

The XEvIE extension doesn't clear the rep.length field for any reply but the version check. Hence, if there is junk data in it and that is sent to the client, it hangs.

X.Org bug#17394 (http://bugs.freedesktop.org/show_bug.cgi?id=17394)

commit 0466b8811ce8ebc1d993f177ceb7a22e997640f1
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Sep 1 09:57:25 2008 +1000

exa: drop cw.h inclusion

this doesn't seem to be needed, at least I can't see any warning without it.

I'd like to build EXA into a driver and cw.h isn't exported

commit 881bd15f445bb62c3fde863c968c95217408b6e
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Aug 31 18:07:22 2008 +0200

xf86Crtc: Set mode to NULL, so nothing bad happens if crtc == NULL.

- Fix is courtesy of math_b.

commit f4e9a1a98f97155de62908309e87c10487125926
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Aug 31 17:45:08 2008 +0200

damage: choose less ambiguous function names

commit 0cd6709db5febbe7fbf073e429421fcd81041e08
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Aug 30 16:13:58 2008 -0700

XQuartz: Fixed editing of Applications menu
(cherry picked from commit da647f1add4c1ae7854c0fbfbf972666ce5d12c8)
commit c4d290fc54542ccba7c3a46bc75b0c3322d0ca48
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Sat Aug 30 14:19:47 2008 -0700

  XQuartz: Fixed missing symbol in quartzKeyboard debugging
  (cherry picked from commit 8ad55e484f0ba9073ce07a03de660cc546a7b668)

commit 5d7d959b1143979c3445639c9d108e02da0c1475
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Sat Aug 30 14:18:07 2008 -0700

  XQuartz: Don't even build with GLX support since swrast now depends on libdrm
  (cherry picked from commit 3739525d57df2b3b034b5768f357b1c25577909)

commit 45def7f0a342f4733cafb06adbfed14932f0e01b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 29 22:16:03 2008 -0700

    Removed dead glcontextmodes
    (cherry picked from commit c6d0ac7471209d835e8d9a25adcbda893ddfa1cb)

commit d01c5ca7935a8340a3cd68c325da6dfec005c952
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat Aug 30 15:35:32 2008 +0200

    Xserver.man: Typo (the the).

commit 229e60db8f95232afc8edcb7cd0572d117c84b90
Author: Thomas Bodzar <Thomas.Bodzar@quest.com>
Date:   Sat Aug 30 15:34:29 2008 +0200

    Xorg.man: typo (the the).

commit 1885582444fb06da73dea1f118a777bea26e1dc1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 29 21:18:26 2008 -0700

    XQuartz: Placate automake which doesn't like escaped newlines even in comments...
    (cherry picked from commit 73db1170129a31ad2d55a7e83ac6dfc8030e47f1)

commit 8abcc12fdd5bd9ede0288a1ab8f75e65ffcb8c71
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 29 20:55:25 2008 -0700

    XQuartz: Added debugging output to the crash log to help track down two crashes, since people don't often report
    their system.log spew.
    (cherry picked from commit aaf0f71db197526b6b866cc1b39fbdfe051879ef)
commit aee19c7b5542aa147b89b1ae8340e9931d81729f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Aug 29 03:54:55 2008 -0700

    XQuartz: xp_is_symbolic_hotkey_event catches the input menu, but not our MainMenu, so we still need to do that the old way.
    (cherry picked from commit 25eccf12c89d73b8bce2c9be14841efb230acedc)

commit 974db58f5b730c3770ee461665a02dd4334d1dea
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Sat Aug 30 00:37:11 2008 +0200

damage: initial attempt at a damage marker mechanism
- This should allow drivers to recieve post submission events for X<->opengl synchronisation.
- Lacking a testcase, i'm open to suggestion how to do it better.
- The idea is:
  - driver recieves event
  - driver creates personal identification and inserts marker into X fifo.
  - when something wants to use an X pixmap, it checks if something is pending.
  - If so, it synchronizes the 2nd fifo using the initial identification.
  - Driver is not required to use interrupt based systems (price too high).
  - Lower latency is ofcourse better.
  - If this is somehow unusable for you, then come up with improvements.
  - For that reason i wouldn't consider the api fixed for the moment.

commit 454cb0802ee3c2c2c2cdbe17971becd868462b83
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Aug 29 22:28:02 2008 +0200

damage: DamageReportRawRegion should set pDamage->damage
- I found no evidence in the protocol, that it should be differently from all the other modes.
- It seems to have been like this from day 1.
- If anyone has evidence to the contrary, please enlighten me.

commit ae6ca434104405302f30a58bde8738d9579d9dc9
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Aug 29 22:21:54 2008 +0200

damage: internal functions start with a non-capital letter

commit 1861250cd7e84b05e8298b74e3c7e97da72ddfa
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Fri Aug 29 22:15:23 2008 +0200

{damage,exa}: sanitise damage
- Redo damage naming for more consistency.
- Call post submission functions only where appropriate.
- EXA can now live without it's odd damage workarounds.

commit 5af77d43fe812e127d5d335527fa940ab9d95f38
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Mon Aug 11 16:59:17 2008 -0400

DRI2: Drop sarea use, implement server side swap buffers.

commit 60ad8d5d05485339e89d7f1f9f1ded75de7c7ea1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 28 23:45:17 2008 -0400

Attempt getpeercon() on remote sockets as well as local ones.

commit ebea78cda0ff14a397239ee1936bd254c181e1b
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Thu Aug 28 18:05:40 2008 -0400

Prepare for array-index based devPrivates.

TODO: static indices can be made just an int; some indices can be combined.

commit ec7907f8fa04dcff2649ce4846975844314f737e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Aug 27 19:27:13 2008 -0400

Add an array of integers for use as per-screen cursor private keys.

Replaces the use of the screen pointer itself as the key, which was nice but won't work now that an array index is being stored.

commit 86898491497a43814caf42013651086e62fe6162
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Aug 27 19:17:15 2008 -0400

Remove unused GetGlyphPrivatesForScreen.

commit 90b178cc7eda1f9c4995b98364739e71233ff3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 28 19:36:22 2008 -0400

Don't need to request space for Xnest pixmap private.

commit 835b532d6f51d08998d7ab49fcb41db8266487ce
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Aug 28 14:49:35 2008 -0400
Build fix.

commit 040212ee60af9d043c4e3f98bb5120e3b8e33f7
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Aug 28 13:49:35 2008 -0400

MIT-SHM pixmaps, if they exist, are ZPixmap.

commit ee7c684f21d220d5e046bab31ae617a7d64d60f6
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Aug 27 16:05:47 2008 -0400

Reimplement ShmPutImage.

There's no reason to not just dispatch this straight into the GC. As a
bonus, if you do so, damage wraps correctly, and thus swcursor works.
The side effect is it's no longer possible to override ShmPutImage with
ShmRegisterFuncs().

Also remove the (broken) damage tracking for same from EXA, since it didn't
work right, and is now superfluous.

commit 2db1aafb2e56d8743c701d81a5797001ce9e5c52
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 26 23:09:20 2008 -0700

XQuartz: Always use TIS for the keyboard layout seed since KB* aren't thread safe.
(cherry picked from commit c8244177b0dbcb28d2f5509e6f2a3e8057889790)

commit 319405fa4a530804c19fb7d0fbece5e912e41c9d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 26 21:11:35 2008 -0700

XQuartz: Fixed needed xplugin version. ><
(cherry picked from commit 01b3a99df79e0d2b316e02658c19fa79d914ae)

commit 3350770bd6d90fefa1133ac738c1d4eae2d568a6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 26 19:13:56 2008 -0700

XQuartz: Use new Xplugin API to determine if a keypress event corresponds to an OS-X hotkey that we should
dispatch to Appkit.
(cherry picked from commit e7658e745f8a3eaf5cecc9f54a8a1b7e5a7708e09)

commit 7930ea9116f232a3762f0085e5ca65e06d1142fc
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Aug 25 22:10:46 2008 -0700
XQuartz: Made a note to come back to the xinitrc race condition in the 1.5 branch when we move up to it. (cherry picked from commit 54a882dcbdccecf3f3eb4e6398e13c88185a8986c)

commit dc1171df5b0a0c4a366ff2b07af58eb44dae12
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 22 01:12:37 2008 -0700

XQuartz: Fixed bogus args to debug ErrorF (cherry picked from commit f0351c2b80f30ae31f041798b84139141fc3d5a5)

commit ac936525afe46bad329387232f8d48e77f6a4175
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 22 01:11:33 2008 -0700

XQuartz: Cleaned up mouse event translation a bit more. (cherry picked from commit c286f2a718fda6f6ad10249b59abb20731da8d904)

commit 1b42f55001c11c93d5a2144af98a5c687c010c2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Aug 22 00:45:12 2008 -0700

Xquartz: Added missing ev_type for NSTabletPoint event. (cherry picked from commit 07548f13947a212dccc020d526e0ad679255121e2)

commit 13a89f19208cf998808ff2896b7711310768f94c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 20 20:12:23 2008 -0700

XQuartz: Added more explanation to debug keylayout spew to cut down on report-spam. (cherry picked from commit fcdc9f8b5ab9d724d75f53d48f5adbed9859e9e79)

commit dd1e54d6eed0bce2a89517b3cb95e6b1a187ca6e0
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Aug 26 20:02:55 2008 +0200

exa: fix thinko from 988725f32e082ae9392a71464125157a83d1e67
- the drawable of the pixmap is not the same as the original drawable (possibly a DRAWABLE_WINDOW)

commit 7c14fadbacfc2f4d56a346e6c72e44e4ba9909c1
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Aug 26 17:21:43 2008 +0200

exa: some minor cleanup
- Fix compile warning
- Order exa.h by source file that exports the function.
- Move the function i created earlier to private headers.
commit de79edbd9f67762950eaac2dc79668035239897c
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Aug 26 17:03:12 2008 +0200

  exa: report damage manually for exa{Trapezoids,Triangles} when needed
  - Plus a micro cleanup of unused variables.

commit 988725f32e082aee9392a71464125157a83d1e67
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Aug 26 16:54:29 2008 +0200

  exa: move destination damage for internal calls to a special function
  - This should improve clarity for someone who isn't familiar with the code.

commit ce193476808f54d946351458361c62132d81b62f
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Tue Aug 26 13:18:58 2008 +0200

  exa_glyphs: remove useless offset

commit fd94651fc3a6f49ec153ff823b86c1d125bb298
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Aug 26 10:58:35 2008 -0400

    Fix driGetConfigAttribIndex unaligned access to GLboolean.

    We don't actually send the float mode so just drop it. Drop a couple of
    other unused or redundant fields from GLXconfig.

commit 41bd8d5dfe27d5c91fe7e4cda1475a2a0741b1c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 25 11:27:26 2008 -0400

    EDID: Build fix.

commit 76ed409acd772f2c041239345c6dc644cbe0e5b2
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 25 10:44:45 2008 -0400

    EDID: Publish the whole block on the root window if we've got it.

commit 5724f7fb5bea6fa1a354c64e0972c53d70e2f27b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 25 10:39:36 2008 -0400

    EDID: Publish the whole block in the RANDR property if we've got it.

commit 668f89eba3e8f9da7843f5cb350f8dc1e5d7efbe
Remove unnecessary #ifdef __SOL8__'s

commit cc78d977c7ac746e8b7c9b27c7109a1e369018dd8
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Aug 22 10:32:18 2008 -0700

Convert Solaris #ifdef's for <sys/kd.h> to AC_CHECK_HEADERS check

Upcoming virtual terminal support changes in Solaris kernel will provide <sys/kd.h> on SPARC too, so this gets us ready for them.

commit 95b466e457542bfe08b0ed2bb5db8d28a961cfd
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Aug 21 17:24:40 2008 +0930

Xi: don't include .c files.

commit c696da75c7326c5e1f1cd48292c0519ddc22e11b
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date: Thu Aug 21 17:23:11 2008 +0930

Xi: swap devices property replies.

commit 01264f17925005969c3b71ca945fc1014bcd8c8e
Author: Julien Cristau <jcristau@debian.org>
Date: Thu Aug 21 01:32:03 2008 +0200

Add swapped dispatch for randr 1.2 requests

commit e02f864fdff19a5ab1682336be343c57f6b69ef43
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Aug 20 13:24:03 2008 -0400

Suppress cursor display until the first XDefineCursor() request.

Yes, this means the server will start without showing a cursor. Pretty much any application that wants to interact with the mouse will define cursors, so this essentially just delays showing it until gdm (or whatever) loads.

commit 64ef7ed072007b1d0b4de5ff1e5eababa418c794
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Aug 20 13:14:03 2008 -0400

Centralize declaration of ConnectionInfo.
commit f1f44940f10b0209946ec0f08104a372d7d945a0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 20 09:50:54 2008 -0700

XQuartz: Support windowItemModMask=0 or -1 to disable window shortcuts.
(cherry picked from commit 81187364e512606a6aebb95ab2967d9d420f57f2)
(cherry picked from commit f2ec79e4a159dec6481691e4dd615db01770dd7a)

commit 6c5612c2e1df1e89388fff97251f5328558f8e8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 20 09:21:44 2008 -0700

XQuartz: Added window_item_modifiers defaults item (and option to localization) to change the modifier keys
used for the windows menu.
(cherry picked from commit e4110861d307a55d9032cb83cf024ecf294e8d7)
(cherry picked from commit fcfc05482a88696ceb713c7a2ddcf935ae8378a6)

commit bdc277c9b3dc6b3b95f74b20a49ce163c5fae980
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 20 09:58:48 2008 -0700

XQuartz: Just cleaned up formatting of event processing code... no "meat" changed...
(cherry picked from commit 745bc8ab387d6794f47d8b9da33b4c81f6dd39c)
(cherry picked from commit a28a2be52478a1557a363140f7bd0ec8144dc)

commit ed42108920cc695b96ed57bf9dcef447e746e9
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Aug 19 02:11 2008 -0700

XQuartz: Added appkit_modifiers defaults option which users can set to 'rcommand' to get access to the input
menu with right command
(cherry picked from commit 02af74d7a5a7225f408915254e40856159dc7f19)
(cherry picked from commit 2da32894df8340f6ca7c980277fca7ec835a193)

commit be06961312e2111778bf97b2c8a927acc61f43d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 20 09:56:06 2008 -0700

XQuartz: More input fixes
stuck-modifier fixes (capslock)
3button-emulation now doesn’t send the modifier key with the click
Added other options to fake_button2 and fake_button3 defaults options:
   ([1,1],[control,alt,command,shift])
(cherry picked from commit 8fb6a1cf4c35a20dfb0e05e982494898f88da7)
(cherry picked from commit ae9c1b3cfeb3874b4d1251681c24bda91c398cab)

commit 436b659091dd17bb3e316377ba31f5d2a5dfa12e
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Aug 14 09:34:12 2008 -0700

XQuartz: Updated bundle version to 2.3.1
(cherry picked from commit eedecba0b882bb07931e8d9168589f5be7a08a69)
(cherry picked from commit 7d9d864461858b25c5eb5858fd4b53771795f11)

commit bc4cef1d0ae7cbbf8f5fe16d576db45abd4330370
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Mon Aug 18 16:28:33 2008 +0200

exa: remove useless cache{X,Y}off from UploadToScreen() arguments.

commit 38bdc34d555f956a1ff1e1bb8eef95e3ba2bac64
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Aug 19 15:12:39 2008 -0400

Remove redundant check.

commit 47b31233c26f710be70ffcca17e5402d03d5733f
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Aug 19 15:10:12 2008 -0400

Simplify driver setup.

No point warning about missing driver hooks, that just means the person who gave you the driver is inept. Might as well just crash. Also, just name anonymous screens as screen%d instead of failing after the 36th screen. Bonus points if you can figure out what the failure mode would be on the 36th screen, and what the effective screen limit was.

commit b99fc65b53769400821a2bd8f691ece35a5b8847
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Aug 19 15:06:53 2008 -0400

Simplify calling xf86EnableIO() a bit.

commit b1f2c7a89ace1f6e5750783f3c43e4c5a6d24374
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Aug 19 15:06:11 2008 -0400

The ->Identify hook is not mandatory.

Best comment ever though. Mad props.

commit af5125968a738ec8f496d04eb65acb7c8f812115
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Aug 19 14:47:10 2008 -0400
Refactor misprite a bit.

No variable declarations in header files, please.

commit 41b68e0dea9305d66bca2fc4ad96db01f5342c6d
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 19 11:02:31 2008 -0400

Remove unused -co option.

What did this even do anyway?

commit 1f416fba994ed7a7e072a9f0a86b515855ea3bac
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 19 10:56:45 2008 -0400

Remove unused -bestRefresh option.

commit 5a72c45d42abc7227c6cf3d14fd7043ea7527c54
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 19 10:54:11 2008 -0400

Remove unused -showunresolved option

commit 9f08ffe557b52e2e8cd54f692b66700ee3d61c6
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Aug 19 10:29:23 2008 -0400

Remove unused xf86Info.pMouse

commit f227fb74f0c619ecf3275cdb4c10b1a4b3a8efc
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Aug 19 11:36:12 2008 +0200

EXA: Inline Prepare/FinishAccessWindow into only caller, ChangeWindowAttributes.

EXA: Inline Prepare/FinishAccessWindow into only caller, ChangeWindowAttributes.

EXA: Inline Prepare/FinishAccessWindow into only caller, ChangeWindowAttributes.

Also check the requested mask in addition to the GC state before doing work.

commit 825b3fe11d1b813b8d5b24a880ed04b78ae1acf
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Aug 19 11:22:40 2008 +0200

EXA: Don't use exaGlyphs if the driver doesn't provide a PrepareComposite hook.

It's buggy without Composite acceleration (leading to cropped glyphs) and not really useful in that case anyway. The bug probably still needs to be found and fixed for drivers that provide a PrepareComposite hook but can't accelerate
text rendering though.

commit 75e495a4cd823b6fa42a8d167ecc9f4723320dea
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Aug 18 17:58:08 2008 -0400

Remove unused xf86Info.mouseLocal

commit b3dfd7e3e4deef21b40c885f8e7eae34b55888b2
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Aug 18 17:56:18 2008 -0400

Remove unused xf86Info.sharedMonitor

commit 5e43cd28692bc05cac80f38b47104a26c0524385
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Aug 18 17:46:42 2008 -0400

Remove the remainder of grab deactivation and closedown.

commit cd1e8f26147919227e7624ac4c6b313d972a4d35
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Aug 18 17:40:46 2008 -0400

Remove unused EstimateSizesAggressively option.

commit faaf0046155abbd15415d5a6b62ead4f58935c28
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date: Mon Aug 18 17:23:26 2008 -0400

Remove xaaTEGlyphBlt.S

Should have been removed in 593144dd977f53bcd1a115f954deeece46df4c but ajax was asleep at the wheel.

commit 562462e78dd6a5e2ed5b36aa22be52f31d55485d
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date: Mon Aug 18 17:05:24 2008 -0400

Remove dead {bsd,lnx}Resource.c

commit e3e47b35e369bf4abb0fe15865acc0b34600b1f
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Aug 18 17:03:22 2008 -0400

Remove MAX_PCI_[BUSES,DOMAINS] and some associated #if 0.

commit 593144dd977f53bcd1a115f954deeece46df4c
Remove some unused assembly code and assyntax.h

commit 2d3e478384ef8af2a760f39792e35e4a6174c967
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 15:09:44 2008 -0400

   int10: Fix int1A for %ax == 0xB101.

   pciNumBuses was pretty much always 1 post-pciaccess. That ain't good.

commit 539717fe1f08a000d1eeef9f345d24eb49e3663b5
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 14:50:33 2008 -0400

   Remove (unused) pciMaxBusNum.

commit 3c03d9f1efbbacec6e8be58da99bf0977a8e0fec
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 14:37:42 2008 -0400

   Remove sparcPci.c

   There is no way this code can have been building for anyone since pciaccess was merged. BSD and Linux were already using OS code on sparc, the only people who could want this are Solaris, who should be using pciaccess anyway.

commit 9a39b6cfbda306eb594e87ce828afa01cd7aa01e
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 14:26:01 2008 -0400

   Remove XF86SCANPCI_WRAPPER.

commit 470b05a610e641094d46742393684acd786d78a8
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 14:03:36 2008 -0400

   Remove vestigial MAX_PCI_DEVICES.

commit 244a635fcde9e0a7212d51b26d74f49d8e1b071f
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Mon Aug 18 19:27:34 2008 +0200

   Fix the tile offset in miPaintWindow for ParentRelative windows.
commit fd7c747a8e1bc59dfb31b7f90dd5eab2687315b
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 13:13:03 2008 -0400

Remove PciProbeType and associated weirdness.

This code was effectively only used in ix86Pci.c to select PCI config access type. Nobody should be using that path anymore, in the glorious pciaccess world; kernel services should get it right for you.

commit 95bb6f53624a3e6f4d62a2f789982c5544d2fc70
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date:   Mon Aug 18 11:47:19 2008 -0400

Remove ancient unused inline hack.

commit e1ae8db625b5e8c298a557592ef23656b3da4886
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Aug 18 09:53:48 2008 -0400

Drop dead PowerPC PCI code.

Also add a warning for anyone still using legacy PCI code.

commit 99583b43a9a202d047ff417d47485e4c0e0c9670
Author: Jie Luo <clotho67@gmail.com>
Date:   Sun Aug 17 23:13:22 2008 +0200

    glx: avoid possible NULLptr deref, fix #16884

commit 421b7e8f12083e9518fa7deda968a2f73c9a0006
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Aug 17 19:57:02 2008 +0200

    exa: fix assert logic thinko from 361a9eb953aaa38f8ebc057185de29e50f9eeef26

    - I guess failing PrepareAccess is rare, since this a 3 year old bug.

commit 1e62e773273539352bc21b2da5262678dd3fc7df
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Aug 15 15:19:44 2008 +0930

    Require inputproto 1.9.99.4

commit 609c04b62db0e86f33860069033c7142eeef210
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Fri Aug 15 14:51:59 2008 +0930
dix: stick a warning in about loss of subpixel precision.

commit de1573172ad2e2e98c101727930a468213295783
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Aug 13 13:11:44 2008 +0930

Backport device properties to XI 1.5 instead of XI 2.0

commit 8b9ed7dec2954d4890ddcc7c874fc0832b16495a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Aug 14 09:08:14 2008 -0700

XQuartz: Fixed a stuck modifier key bug.
(cherry picked from commit eeb6e5a9e98dcaf045ec230f160d5992080dceba6)

commit 1770cc85374883229ec5e9685229b2333e62705e6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Aug 14 07:32:37 2008 -0700

XQuartz: Made 3-button mouse simulation a little more consistent.
(cherry picked from commit d207b037d2ae213369e5627a17d8831e9bc16ad8)

commit f51f77d25e9b51fa3fd557ffdb5573b61759706
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Aug 13 19:09:05 2008 -0700

XQuartz: Reverted "Control" text to be accurately "Command" in the input prefs.
(cherry picked from commit b287e481e1be77ff84d10a708505f148a0e8434)

commit 04956b80431169e0ae713a3e6ba4cde157ce3a66
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Aug 9 10:07:32 2008 -0700

Transport/Apple: Add TRANS_NOXAUTH to incoming connections when the listener is flagged as such
(cherry picked from commit ba4a7924261070ad0aff7211b7a1e9581fad4646)

commit e6813e8de65ee854bbfe6ab0f8ba158f43b10b
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Wed Aug 13 14:24:45 2008 +0930

Xi: byte-swap device property requests.

commit 0ce687634fa5e0d955e896a0d0d5f584a4cf1a4
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 13 17:28:08 2008 -0400

Eviscerate save-under support.
Use a compositing manager already. Plus I really wanted to use 'eviscerate' in a commit message.

commit f456f32cd97684052cab4712e7f4e827132c554b
Author: Adam Jackson <ajax@redhat.com>

Build fix.

commit c1e9b7dc6f4600fe6c301aeccc7d67461cb884df0
Author: Adam Jackson <ajax@redhat.com>

Sledgehammer off the DRI2 build system.

commit 544bfd086663f71be5275459cf74a3557530544f
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Aug 13 11:09:54 2008 -0400

Remove xf86Version.h and related API.

We haven't meaningfully been API-compatible with xf86 modules in ages, let's stop pretending.

commit 139c3ab7b754dc425a09d57b6d2a8b2b88138a
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Aug 12 17:49:49 2008 +0930

Xi: return the state from the correct keyboard in QueryDevicePointer.

commit 998375f4154b000f75b2ba4de276c0237d24dc7
Author: Peter Hutterer <peter.hutterer@redhat.com>
Date:   Tue Aug 12 17:49:16 2008 +0930

dix: remove superfluous check.

commit 9f9268821b13038556fbc029df54ab0e9b2a77f
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date:   Mon Aug 11 13:52:38 2008 -0400

The smart scheduler is not optional.

commit 2e2ce817ce404a5e000c9750fa96f656fed370b8
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Aug 10 23:07:46 2008 +0200

Move strcasecmp(), strcasencmp() and strcasestr() prototypes to os.h
And make sure os.h is included in files that use it.

commit 02efa78ce2da470b252289ff2af598d06bc84ece
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Aug 10 18:29:35 2008 +0200

add libXinerama to the list of dependencies.

Now that panoramiXext.h is installed bt libXinerama, it becomes required to build Xext.

commit be2210b69defa225d8bc4bb90d94bdf740ef8b1f
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat Aug 9 23:43:50 2008 +0200

remove OpenBSD/amd64 specific mtrr API.

The old code never worked anyways and was removed from OpenBSD. OpenBSD/amd64 4.4 and later support mtrr with the same API as OpenBSD/i386.

commit 6e33e6f355f7f04e77a165eb67b1414724c1fba3
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat Aug 9 23:43:03 2008 +0200

Move string comparaison functions to from dix/ to os/.

commit 5968634996c086560c5e3fa35705cf7afac87e6
Author: Dave Miller <davem@davemloft.net>
Date:   Sat Aug 9 16:45:59 2008 +1000

glx: fix crash in driGetConfigAttribIndex

Don't access GLboolean via int pointers

commit 4212599e922373a224d2235c74672a3a3aa8e0b1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Aug 8 12:17:58 2008 +0200

EXA: Make sure damage tracking code is inactive if the driver manages pixmaps.

It was always supposed to be like that... It was only recently pointed out (in a rather convoluted way) that it was not in fact the case.

commit 073116cc44859e96374cede46325df8540621d5ee
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Aug 8 12:15:27 2008 +0200
Remove commented out lines that make automake 1.9 puke.

commit 666781cd9b62207e45eebd3eb55a930f3a345f72  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date:   Fri Aug 8 01:41:28 2008 -0700

   Removed rogue #include  
   (cherry picked from commit af238e99da45a4dd8d8cb66564bb8d0a3d79d590)

commit 4a0947bf06deacc3ae716730cfbbeda1311bae3  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date:   Fri Aug 8 01:53:36 2008 -0700

   XQuartz: Disable the Xquartz AIGLX for now since it doesn't even compile any more...  
   (cherry picked from commit 4545ba91e91e9d6ad62b6cafde3c73a672d3ded91a2)

commit 5acce9b3ce1af539150d59b1800b66783fd5e947  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date:   Fri Aug 8 00:19:41 2008 -0700

   XQuartz: Re-added deprecated code fallback failsafe for keyboard layout on Leopard with some debugging spew.  
   (cherry picked from commit 5854e712e96be210d2f8de6f5d4fb650944f314a)

commit 465a9bb969e8a90e53e655b3245c22910201786d7  
Author: Peter Hutterer <peter.hutterer@redhat.com>  
Date:   Fri Aug 8 17:37:06 2008 +0930

dix: don't try to create events if we don't have a screen. #16898

   A NULL screen may happen during server shutdown, when the output has been shut down but the devices still generate events.

X.Org Bug 16898 <http://bugs.freedesktop.org/show_bug.cgi?id=16898>

commit d684f5760f40b682a8b879641300abe689a263c5  
Author: Peter Hutterer <peter.hutterer@redhat.com>  
Date:   Fri Aug 8 14:18:01 2008 +0930

   xkb: actually initialise sli before using it.

commit e00cd54c1ac57ea6e7767e90592200f343d9d08a  
Author: Simon Thum <simon.thum@gmx.de>  
Date:   Thu Aug 7 11:06:21 2008 +0200

dix: remove misleading comment in ptrvelo.c

Signed-off-by: Peter Hutterer <peter.hutterer@redhat.com>
commit 6ca34549b89e73e3e0ec3cb7585686b880534ce
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 7 16:27:57 2008 +0930

dix: remove obsolete FIXME comment.

Thanks to Simon Thum for pointing this out.

commit 2c3645581ee3f180d34e3268016d5e4e1af4dca4
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Aug 7 11:55:10 2008 +0930

dix: SetModifierMapping should only apply to the ClientPointer and it's SDs.

commit e1b286d95b760cf67dd1f936eca11da50fba847a
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Aug 6 09:42:32 2008 +0200

dix: simplified debugging helper for pointer acceleration

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d95136e1510a48cc3ad066d880d6061f6a42ee
Author: Simon Thum <simon.thum@gmx.de>
Date: Thu Jul 31 00:39:03 2008 +0200

xf86: don't replicate dix defaults for pointer acceleration

the defaults from InitVelocityData() or hypothetic driver-side changes
are now respected, not overridden.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4f333d53510b82db57caf1bea22422cbb7be79
Author: Simon Thum <simon.thum@gmx.de>
Date: Thu Jul 31 00:33:38 2008 +0200

dix: simplify velocity tracking filters

prefer fp-mul over fp-div and remove rather pointless check

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit bf084a0769ee36f779e5e5f2d1e875c1ebcc51
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Aug 6 13:36:43 2008 -0700

glcontextmodes,[hc] were not added with the removal of the meas symlinks patch. Copied from mesa head
2008.08.06.
(cherry picked from commit 409e1dd1e9524b5c1a1ae58a759da77e587e3780)

commit e72b1d21e44712e90595b1c31e67db6786d0d1bd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>

XQuartz: Now properly disable xauth checking on launchd socket and mostly fix the xinitrc / launchd race condition

commit d1b96cdea96f5321e0d254abde81cdaab2eca979
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Aug 6 10:37:32 2008 -0700

Add an xf86PrintBacktrace wrapper around xorg_backtrace to aid driver debugging.

commit 26d31ad1c7f4ec550d73419ecf76912d844186b30
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 5 15:14:08 2008 -0700

XQuartz: Added code and made comments more helpful for debugging first-client-auth bug.
(cherry picked from commit a8f0d32216e321b8ae6da182be9b1ea792f6e004)

commit 0ef3243fb59fa993a7a07a08debbd4329254c265
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 5 18:45:54 2008 -0700

XQuartz: More fd handoff cleanup.
(cherry picked from commit 199d2dcb708c9f9d6b9ede149ea0fe9fba6c007c)

commit e7dd3dd8f311d3872e0e4c9c2ca22c00f9d11f59
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 5 14:33:03 2008 -0700

XQuartz: Fixed some errors / typos in the preferences pane.
(cherry picked from commit e1e0c398bb50394b164394e1f1870016489c25b)

commit 6836f9aac801c3add0ae4aeece05b32e85a0c5f85
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 5 14:24:25 2008 -0700

XQUartz: UI Cleanup. Removed done/cancel buttons from Applications->Customize
(cherry picked from commit d3157ca45c1f88edd040d721c1e944b9d2c090aa)

commit c06e27b2f6fd9f79f827623a48876a225264132
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:42:15 2008 +0930
xkb: ProcXkbSetDeviceInfo should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit d9ca9819e975e0f6832a320f8be5958e5d942f85
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:41:40 2008 +0930

xkb: ProcXkbSetGeometry should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit 5ba87c3327786dd7c6e8e265a19c858e8faae8fd
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:41:08 2008 +0930

xkb: ProcXkbSetNames should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit 7e45c80204e06562d4475741caea65bc8758f3c7
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:40:25 2008 +0930

xkb: ProcXkbSetNamedIndicator should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit a609dbed7cf854a6ee9d33c7cf45615db9da1fb9
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:38:59 2008 +0930

xkb: ProcXkbSetIndicatorMap should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit e8c2a3d7c996cb41c4c4ba67aaca5ff9438fc06
Author: Peter Hutterer <peter.hutterer@who-t.net>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Date: Fri Aug 1 16:37:39 2008 +0930

**xkb: ProcXkbSetCompatMap** should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit 3c7740aa8f21c1fda4190a1bf5d6ce089db5e35b
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:36:00 2008 +0930

**xkb: ProcXkbSetMap** should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit 31afd51dd49c0d0db2465fbc987044fab88b89f22
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Fri Aug 1 16:32:37 2008 +0930

**xkb: ProcXkbBell** should work on all attached SDs.

If called with XkbUseCoreKbd, run through all attached SDs and replicate the call. This way, we keep the SDs in sync with the MD as long as core clients control the MDs.

commit de4936d7482f820728eefef338a2041c7a9186d2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Aug 4 20:11:45 2008 -0700

**XQuartz: Fixed proper processing of tablet button presses**

(cherry picked from commit ca0babafa4e9cf1b67ec460655bffe569ac9c3e9)

commit b70a8ba3dc52b277194ab267a101a3fd15062685
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jul 15 17:48:29 2008 -0700

**XQuartz: Nuke Sparkle.**

(cherry picked from commit 4991f54a8d84a9a8df89a99dbfc09391195578f8)

commit 30851efdd4313506e92ae6b6d3e5099dea99ab99c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Aug 5 12:54:51 2008 -0700

**XQuartz: Fixed first-client-can't-connect bug**

Readded the old exec() server startup path for regression testing.
Don't use the dynamic fd addition code since it's not quite working correctly.
(cherry picked from commit 08f3fe153edc5ab4ca010e8ce82d5c3fc0db72c)

commit 277a74bcb7d0a93c4f2e1de11daabdb5f93ee8
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Mon Aug 4 23:26:00 2008 +0300

Redefine clients as a fixed array

This removes yet another xalloc() each server generation. Also, I
couldn't find the corresponding xfree() so I guess that used to be a
memory leak there.

commit 5532d63488ec45953f7f925cfb4f87ad83b04a0
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Mon Aug 4 23:06:08 2008 +0300

Redefine WindowTable as a fixed array

Instead of xalloc'ing it every server generation. The array is always
the same size (MAXSCREENS), anyway.

commit e882ee7056f370e0619d137b4ec3973eca43479
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 29 17:52:11 2008 +0300

EXA: Remove unnecessary #includes

There wasn't actually any font code here, so no problem.

commit 6c1bb64c6f2ed81856ca00591df37916713b142
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Aug 4 15:19:45 2008 +0930

  xkb: break up XkbCopyKeymap into bite-sized chunks.

commit 3c6a9c531f673b7a0cb9ca01860b4de79686363
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 1 15:52:07 2008 +0930

  config: protect against potential out-of-bounds indexing.

commit 92c51b183c2ff06361dad7f918daed6577ba4935
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Aug 1 14:24:54 2008 +0930

  config: support type strlist for XkbOptions property.
For backwards compatibility with server 1.4.

commit 35b14519b4a3158592a089170ec039bbc219603e
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jul 29 12:59:57 2008 +0930

cfg: add parsing for input.x11_options.XkbOptions. #16874

X.Org Bug 16874 <http://bugs.freedesktop.org/show_bug.cgi?id=16784>

commit d762c08aebe3b7e8c88e2e7a6f6cf66057a21b403
Author: Simon Thum <simon.thum@gmx.de>
Date: Mon Jul 28 14:07:48 2008 +0200

dix: export driver-side functions for acceleration
also add additional safety for accel driver api

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 18e9fd69fe01298d825b46415b9c6bd86c75dfe5
Author: Simon Thum <simon.thum@gmx.de>
Date: Tue Jul 29 10:07:43 2008 +0200

dix: use average of pointer accel profile

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 25882af6d3359e5ae42c927c555f5b257ba5665c
Author: Ivaylo Boyadzhiev <iboyadzhiev@nvidia.com>
Date: Sun Aug 3 18:55:12 2008 -0700

Fix a longstanding XAA CopyPlane bug.

TmpBitPlane is a plane mask, not a plane index.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit d980913f3145cde34baab27ff818e9631c4e8571
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Aug 1 16:15:04 2008 -0400

Erk. Actually check all the BARs, not just the first.

commit 82d51e6df2bf677bdf24376092bca79b534f6e5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Aug 1 13:17:55 2008 -0400
Silence the "No matching Device section" warning in some harmless cases.

If the device doesn't have any BARs then it's just a stub for some lame operating systems that need one PCI device per output for multithread. No point in warning about it.

commit 9643e8d3482a35d355a243db7aa397ad47f29be0
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Aug 1 11:35:47 2008 -0400

Handle XGI cards in autoconfig.

It's all a bit wonky since both sis(4) and xgi(4) claim to support the Volari Z7 and V5/8 (0x0020 and 0x0040), so let's side with xgi(4), why not. Note that the V3 (not V3XT) identifies itself as a trident chip.

commit 63bddd4c27d47323b3282bf0b6eaca91c79b45c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 31 17:31:36 2008 -0400

Unifdef XIDLE.

Seriously how was this still here.

commit 8d214bc26f9b7ab6a5c54d7749cd4b6811cb0b96
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 31 15:46:52 2008 -0400

Document more of the OS and library assumptions.

commit 2198e237b2ed85857c671eee2cd04dfc032beee
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Thu Jul 31 13:46:06 2008 -0400

Cosmetic cleanup to Xvfb/Xdmx configure check output.

commit 148175fb8b365def0b13539b3f03ce33f3df707
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Jul 31 16:54:33 2008 +0200

EXA: Do still return FALSE if the driver PrepareCopy hook failed...

Thanks to Stuart Bennett for pointing out the problem on IRC.

commit 68fd6604a15b653d1fa244633eaee9608a03ab3
Author: Tomas Carnecky <tom@dbservice.com>
Date:   Thu Jul 31 10:03:56 2008 -0400
OutputPropertyNotifyMask is a valid thing to select for.

commit 64ebeeb5265a4c425b9397fdc86a6d81521a856e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Jul 31 10:58:52 2008 +0200

EXA: Fix exponential growth logic for GXcopy tiled fills.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=16908.

commit 8405c25d9ddfbddd6b155a436f07ccad689e53bd
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Jul 31 10:55:44 2008 +0200

EXA: Simplify exaFillRegionTiled() control flow.

Also only call REGION_TRANSLATE() when necessary.

commit b37b1e66996f8335dacf97b12d25aaec452b931e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Jul 30 18:48:27 2008 -0700

Make shmint.h part of the SDK.

This includes ShmRegisterFuncs, ShmSetPixmapFormat, fbShmPutImage, and ShmRegisterFbFuncs. Note that fbShmPutImage was already exported.

commit a3afa6f2fb80489f7b6a88d12def09281d32ed94
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jul 30 18:30:37 2008 +0200

EXA: Optimize GXcopy tiled fills.

commit 37087bc10630ee7740df1369b3e56a44fd2ad2b0
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jul 30 18:27:33 2008 +0200

EXA: Replace open coded CopyArea logic with GC op call.

commit bb2cad33eb85f39b9e7fa554545611957df677d
Author: Xavier Bestel <xavier.bestel@free.fr>
Date:   Tue Jul 29 13:06:10 2008 -0400

Cosmetic fix to EDID decoding.

commit a70754a9f6db019d85fbfca1898699f3c6f69fdd
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Tue Jul 29 14:16:25 2008 +0100
require inputproto 1.9.99.3

commit 591ef3c047ab3597fe9d687205e99c254ff2040
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Tue Jul 29 10:00:01 2008 +0930

Xi: ChangeDeviceControl presence events should set the appropriate devchange.

Requires inputproto 1.4.4 or higher.

commit 25dd5ce0770c5ff91a79c12223fd4af52759900b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Jul 28 12:33:58 2008 -0400

Add atKeynames.h in hw/dmx/input and drop evil cross-ddx #include.

commit e39a16aa58456aaecee54edc64f189c958db0902
Author: Julien Cristau <jcristau@debian.org>
Date: Sat Jul 26 16:35:19 2008 +0200

xfree86: don't output a spurious newline to the log when loading a module

commit 2eaed4a10fe5bf727579bca4ab8d4a47c8763a7d
Author: Julien Cristau <jcristau@debian.org>
Date: Sat Jul 26 15:35:42 2008 +0200

xfree86: use xorg.conf input devices if there is no ServerLayout

If xorg.conf has no ServerLayout section, use the first mouse and
keyboard sections as core devices, even with AllowEmptyInput.

commit 805f28e96ceb20bc53792ae3cf17f9c26564ae0e
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 12:10:52 2008 +0200

some trivial changes regarding C compat, indentation, etc.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 3209bd21d00b8673d321f70af865720588d4acb3
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 12:06:34 2008 +0200

xfree86: perform pointer accel scheme selection by name, not number

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit a17cb29f5acdfcdeac929d8c6be3600d44d038ef
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 12:03:17 2008 +0200

dix: preparation change: make runtime exchange of filter chain safe

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 1a9f9ac50f2b0db735789905cc29572a50c8ae4c
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 11:49:36 2008 +0200

dix: optimize precision in device velocity estimation

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit c184b91d9aa72031c2bac9f379f56633957ded30
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 11:33:25 2008 +0200

dix: improve the driver interface to predictable pointer acceleration

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 87aa5298576ed335ac31347e14fb30430288157a
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 11:28:09 2008 +0200

dix: introduce defines for accel profile numbers

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 4e32e6fb38d19e9993de86188e4f7e7916a028e2
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 11:10:22 2008 +0200

dix: rename classic accel _scheme_ to lightweight to avoid confusion with classic accel _profile_

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit d40183c665d458ac0a6e7952fbe986776a17fda7
Author: Simon Thum <simon.thum@gmx.de>
Date: Wed Jul 23 09:28:06 2008 +0200

dix: add legal statements to ptrvelo.{c|h}

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
commit ec10ecdd56be8b947cd63cae0687b8319857fe60
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jul 28 09:33:04 2008 +0200

GLX: Unreference drawables bound to the old context, not the new one.

Apart from the obvious reference counting issue, this fixes

commit 6ab8d60f0a42e456d5ad6f1e1094a26c84f0aff934b1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jul 28 09:32:59 2008 +0200

AIGLX/DRI1: Pay more attention to return value from DRIGetDrawableInfo().

Could have crashed otherwise if the num(Back)ClipRects variables referenced
by the caller weren't pre-initialized to 0.

commit b3e981c9d4ff31263a43b47f83cf8db4c2b5aeff
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jul 28 09:32:54 2008 +0200

Fix Makefile.am crack.

Looks like an artifact from early modularization.

commit 3575d9584edf35ec1720bc3755b6576a56613685
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Fri Jul 25 16:46:44 2008 +0930

config: note that HAL options must be strings.

Only strings are parsed by the server, all others are ignored. Doesn't matter,
specifying int options as strings works fine anyway.

commit 54651ff5ec5f4c621e060b19f31d77d519ef158
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 24 17:41:48 2008 +0930

xkb: remove superfluous inputInfo.keyboard treatment.

Really not necessary, we can just walk the list and spare us the special
treatment of the VCK.

commit 70bd82612233e66da9e9dfdbbb999691328d85f093c
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 24 17:38:16 2008 +0930
xkb: use PickPointer/PickKeyboard in _XkbLookupAnyDevice.

commit 47160edec7f0d9129576d83f1593a5549879a893
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 24 12:12:45 2008 +0930

xfree86: warn some more about potential missing input devices.

Put out a warning if xorg.conf has InputDevice sections, but these aren't referred in the used ServerLayout. This is only performed if AllowEmptyInput is enabled.
The reason behind this is that the server used to auto-add the first mouse/keyboard sections if none were referenced. Now, with HAL and AEI enabled by default, setups that relied on this auto-adding break and are left without input devices. The least we can do is warn them.

commit f30b0823dbfc5902e54b337b5b6b570ebf216584
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 24 09:56:00 2008 +0930

xfree86: if AllowEmptyInput is on, warn the user that we rely on HAL now.

commit ad4cd2e2416914276895917769a1184c8c1c7f5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Wed Jul 23 17:40:28 2008 +0930

xkb: don't send core events on SlowKeys.

Core events don't happen until later in the DIX, so pump device events down instead. This makes modifiers work again when SlowKeys is enabled.

commit 7d9dece74fc2bf130ce8818ced5d9e3ac526900
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 21 22:12:45 2008 +0930

dix: fix up enter/leave system once again.

Two corrections
1. the "detail" field has NotifyVirtual, etc., not the "mode" field. This was a clear bug.
2. don't set/unset the flags for NotifyGrab or NotifyUngrab. Clients are expected to deal with multiple enter/leave events per window if the mode is not NotifyNormal.

Testable with TCL menu boxes (such as used in gitk):
tk_optionMenu .menu globVar Val1 Val2 Val3 ValJunk
pack .menu
Thanks to Michel Dänzer for pointing this out.

commit 2ce43f54be0d6050ef115e310df62c035e84bf2
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 24 18:44:16 2008 -0400

Clean up unused definitions from glx headers.

commit ae67508392261ae47858692668a0c192ef4a9d7b
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date: Fri Jul 25 10:05:30 2008 -0400

Fix AddExtension now that CloseDownProc can be NULL.

commit eff25430b4a391409e39337962f7697165d23c7
Author: Daniel Drake <dsd@laptop.org>
Date: Thu Jul 24 21:06:34 2008 -0500

Don't abort if swrast library is not present

GLX is enabled by default, but the current swrast behaviour causes X to abort with fatal error if the swrast dri library dlopen fails.

Handle the case where the swrast library is not present, and do not register the GLX extension unless at least one screen has a usable GL provider.

commit 62b5690415786c4a6e8bac464aa8db578beb74f5
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 16:13:10 2008 -0400

Remove some more MEMBUG garbage.

commit 036822584b26854e2f486f1bea84d8d19d9324de
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 24 16:03:58 2008 -0400

Drop xf86CommonSpecialKey() and atKeynames.h

These are AT scancode specific, should really be part of xf86-input-keyboard. Remove from server, move to xf86-input-keyboard.

commit f3ff2386016ced7e677817e9761a535f0f385813
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 15:28:07 2008 -0400

Sync is built-in and mandatory.
commit 3fcf4d3eb89fecaa2be7b5ae4933b693c9c3d97e
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 15:09:05 2008 -0400

XC-MISC is built-in and mandatory.

commit 9757106bb8f7bea99e5c211817fc6b5fde4e6f66
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 14:59:14 2008 -0400

Remove all empty extension reset hooks, replace with NULL.

commit 6bed6958f8e8dbfe81e115649f19274922fa
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 09:13:26 2008 -0400

Allow extension closedown hook to be null.

commit f65c50c4e902c7b5619fb7bbee8462434d809ec7
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 09:07:42 2008 -0400

Bigreqs are built-in and mandatory.

commit d6228cb2aa89b90883d80d98b91862c1fc01b54
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Jul 24 09:00:22 2008 -0400

Shape extension is built-in and mandatory.

commit 990fc643ae90c034187707e7de414d80640ec6da
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 24 15:02:40 2008 -0400

Ugh, remove trailing backslash.

commit 806e8cf3c01f955411445a7095f0957ea9a9b22a
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 24 14:25:24 2008 -0400

Remove SPARC muldiv code. Was used by ELF loader, which is no more.

commit dff1a609bb4c0171e2abb92b54c16e739aee9ca2
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Jul 21 18:29:08 2008 -0400

Drop the glx resize hook and stop chaining PositionWindow.
Drop unnecessary linked list of contexts from GLXDrawable.

Remove xorgcfg

Us shipping a GUI configuration utility (especially as part of the server!) was pretty pointless. There was pretty much nothing it could configure which wasn't already runtime adjustable: if you could get a server up with functioning input and output, there wasn't much xorgcfg could do for you.

Au revoir.

Remove ioport

I don't know why we would possibly be shipping this.

Remove kbd_mode

We only built this on BSD and Solaris, and if such a tool is generally useful, ship it with the OS.

Unifdef hpux.

Unifdef l10n.
Unifdef __osf__

commit bd8bd2c700e6ccac53b47c45766c0a3a08a59344
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 13:36:35 2008 -0400

Unifdef AIX.

commit 5f5eed7f790db2f0ae0cd0f5c5ee5a312079c0b0
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 13:27:24 2008 -0400

Unifdef DGUX.

commit 856db05b58b71c5ff22af727aba435a8c356abfa
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 13:25:37 2008 -0400

Unifdef sgi.

commit ab6557fd4bb4fd580bb1727dc8764f7dfb2cb30
Author: James Cloos <cloos@jhcloos.com>
Date: Wed Jul 23 13:17:33 2008 -0400

Optimize commit 331cc3f0799a54910a99484264f76569beeee55a

Reorder to minimize comparisons

commit b699364b1e807d29666633523f5b5a608a07a8ee
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 11:43:59 2008 -0400

Unifdef VXWORKS.

commit 2e3c43d306616f8accdeaffec9c108ba88324805
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 11:35:06 2008 -0400

Assume __GNUC__ >= 3.

gcc 3.0 was seven years ago. Get with the times.

commit 0c1e9d75089aac0cf673820db83801d3cab5bfc7
Author: Adam Jackson <ajax@redhat.com>
Date: Wed Jul 23 09:11:40 2008 -0400

Remove some broken debugging scaffolding.
commit 0ff5be404842f7264a8e77f9e2a0bd8d0b051356
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 23 09:09:11 2008 -0400

Unifdef QNX.

Again, hasn't worked since at least 7.0.

commit 331cc3f0799a54910a99484264f76569beee55a
Author: James Cloos <cloos@jhcloos.com>
Date:   Wed Jul 23 00:01:43 2008 -0400

Fix LookupColor

Using strcasecmp(3) with the length of the user-supplied colour name will result in a false positive when the db key starts out with the same string.

Eg, blue will also match BlueViolet (aka blue violet).

Since the shorter strings occur first in the database, avoid such errors by treating a 0 result from strcasecmp(3) as a positive result when the key’s length is longer than the supplied string’s.

commit bc3c03a3f3c091026310f0e8d55321cecc570a0c5
Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
Date:   Tue Jul 22 17:34:37 2008 -0700

Don't return BadAlloc when trying to set a PictureFilter with no parameters when a filter with parameters was previously set.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit 92fdd01d8e46dd4b41338754e1a34e9d3c387d4a
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Wed Jul 23 01:07:29 2008 +0200

[Xephyr] various X86_64 build cleanups

commit 5de1867fbb0a336ff3fde92cbf734849f6111b1b
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Wed Jul 23 01:00:26 2008 +0200

[Xephyr] Fix #15839

Make sure the _XSERVER64 macro is not defined in Xlib client code. That macro is meant to be define only on pure server code, when necessary.
commit d692e1a63e4718d3b6d486582c19f30259b813a7
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 22 10:21:22 2008 -0400

    Build fix.

commit d8937ce58137ad675f1ead8f2345eaed0ca63c8a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 22 16:52:50 2008 +0300

    autogen.sh: Pass --force to autoreconf

    Ensure we get all files installed when running autoreconf by passing
    --force to overwrite previously-generated ones, which fixes running it
    from tarballs.

    Also revert Peter's local changes to pass arguments to configure, all of
    which are the default now anyway, AIUI.

commit 880625eef5d8b168df3e42836fa1b763c51a91b5
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 22 14:34:28 2008 +0930

    xfree86: plug memory leak, free driver's private data when deleting the device.

commit 67d7821ae783d3f123b6ba7203abf847374a1e36
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 21 11:48:24 2008 -0700

    dix: reset potential lastSlaves when disabling an SD

    Unplug a mouse, then warp the pointer and the warp pointer code will try
    to update the position of the last slave device associated with the
    master. That pointer will be stale and the X server will crash.

    Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit 8c8c4df34bfec9d54ebea99fb0af14cad167b4a0
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Jul 21 16:39:43 2008 -0400

    EDID: Various reduced blanking fixes.

    - Use a single common function to compute reducedness.
    - Call it from both the old-school and new-school mode validation paths.
    - Define monitor reduced-blanking support in accord with EDID 1.4.
    - Attempt to filter RB DMT modes away from the "standard" EDID pool if
      the monitor doesn't claim RB support.
EDID: For standard timing blocks, prefer DMT timings if they exist.

EDID: Correct DDCEstablishedModes to conform to DMT.

Need to unref pixmaps backing pbuffers too.

Fix embarrassing GLXPixmap leak.

EDID: Add quirk to clamp max pixel clock to single DVI link speed.

On some panels you end up with all of:
- No range descriptor
- No description of physical connectivity
- Native panel size mode in standard timings list

In principle you're supposed to use the timings for that mode from the DMT spec, but in practice the DMT spec has timings for both 1920x1200 normal and 1920x1200RB, and the standard timing field gives you no way to distinguish. And, of course, the non-RB timings don't fit in a single DVI link.

Bump inputproto to 1.9.99.2 for XI_PROP_ENABLED
dix: shift the duplicate button mapping check to ProcSetPointerMapping.

XI 2 allows two buttons to have the same button code.

dix: Remove insane BC hacks

If your DDX needs a 1bpp mode and doesn't set it up, your DDX is incompetent.

Try nvidia before nv under the assumption that people who install it usually want to *use* it, too.

Drop some more configure-generated files from the tarball

Don't put xf86Build.h in the tarball (bug#9277)

This file is generated by configure, we don't need to ship a stale version in the tarball.

X.Org bug#9277 <https://bugs.freedesktop.org/show_bug.cgi?id=9277>
commit 43c6d5a6f83dfdf8596c8d0faf8ac1a64f73a8c1
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun Jul 20 16:30:24 2008 +0200

distcheck fixes

Still seems to fail because hw/xquartz has too long filenames

commit 92b0a04ff630a89705fc73d587182a62c34cd84
Author: James Cloos <cloos@jhcloos.com>
Date:   Sat Jul 19 18:21:37 2008 -0400

Fix compile failure

This fixes a compile failure by ensuring that mouse-cfg.c can see the MTYPE_ constants.

commit 0b45ba488d8a3e901b83e445d17e7e9a67047b6e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jul 18 10:54:10 2008 -0400

Drop the FONTCACHE extension.

This appears to have been dead code since X-TT was merged.

commit b85392e66b4c9e529ac342f19ac8ab04d4cc
Author: Søren Sandmann <sandmann@redhat.com>
Date:   Thu Jul 17 23:10:11 2008 -0400

Give priority to clients that are receiving expose and configure events

commit 3b687ffe1649449b3d182f5e7690274c6e96916a
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Jul 17 18:16:59 2008 -0700

Make xstrcasestr prototype return value match the implementation

commit f7bfa4ae971b43c3ed81cc84e6d1e071c413f04c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jul 17 23:03:57 2008 +0300

configure.ac: Remove non-existant directory

Oops.

commit 16e40ecf43ea7df349e54f757db0223764d752ee
Author: Daniel Stone <daniel@fooishbar.org>
Remove dead code, useless #defines, et al

commit b0a99fb02bb7290266d7dddee4de0b9959fb3c52
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jul 17 21:42:17 2008 +0300

configure.ac: Fix release date

Instead of putting something that's always wrong, at least just put unreleased, which will be more obviously wrong if it's, well, in a release.

commit 711720650cc192022f0d91f5cf94292d48dbc891
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jul 17 21:39:46 2008 +0300

Everyone has urandom

If you don't have urandom, please just add a fallback to /dev/random, rather than building our own random generator.

commit 446fe9ee7dd1337f9d5164dd7c301e1ba3dfe32
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jul 17 21:37:50 2008 +0300

Dead code removal

Remove a whole bunch of code that was never built, be it entire files or just dead ifdefs.

commit 0564b5454ac101d9e1218767bbbc2c2d9f3e0696
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jul 17 20:46:27 2008 +0300

XFree86: Restore AllowMouseOpenFail usage text

This was incorrectly stuck behind the XFree86-Misc define, so got deleted with the rest of misc: restore it unconditionally, as it should be.

commit 6c7c0ffeb71610ee00fc92b32fd2b1cc70383e38
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jul 17 20:45:01 2008 +0300

KDrive: Delete rafts of unused code
Most of this stuff was gone with the last real hardware drivers that used it. Au revoir.

commit ad7a7ae290b05f007062161418c929d9cebeef78
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jul 17 18:51:05 2008 +0200

XF86BigFont is disabled by default

commit 3c19ec47b434d4ca84db58363cc053cc0b6aa413 did that, but pretended to make it 'auto'.

commit 058100fd19ed33a3100d18a9ca56fdefac361b2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Jul 17 09:35:30 2008 -0700

Remove more Lynx leftovers

A couple #if defined(Lynx) & & defined(sun) had become just if defined(sun), resulting in wrong settings for Solaris builds, so they're now just deleted.

commit 47833eeef35b20a2eb0a74782edbb0877fd491c4c
Author: Mathieu Bérard <mathieu.berard@crans.org>
Date:   Thu Jul 17 11:59:24 2008 -0400

Drop a bunch of ifndef Lynx.

commit af2138bfce34a28312b26106eaf9561d96712ee0
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 17 10:39:29 2008 -0400

Nuke some ancient code for commandline-challenged OSes.

This appears to have been dead code even in 6.7.

commit b9a0cee026361189dce63b87c738bd1d17e02830
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 17 10:32:35 2008 -0400

Drop hw/xfree86/os-support/lynxos/

This has never worked in any modular release, clearly no one cares.

commit d87f170bd99f7908eb14272ac42c8963d089f54f
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jul 17 10:29:52 2008 -0400

Remove XF86Misc code from xorgefg.
Remove duplicate load of freetype font renderer.

libXfont will do this for us in FontFileRegisterFpeFunctions.

Remove freetype from the list of autoloaded modules.

Fix color lookup.

OsStrCaseCmp returned inverted comparison sense from normal strcasecmp.

XFree86: Remove remnants of XFree86-Misc

HandleMessage: dear god, no.

Build fixes

Remove loadable font renderer support.

Remove font module support from xorgcfg.
Remove the numVideoScreens xprintism.

This was to account for cases where you had video and print screens in
the same server. Lunacy. Leave the slot in ScreenInfo, but rename it,
and stop looking at it.

Update the Allow*Grabs documentation for xf86misc removal.

The API to turn the grab-break keys back off is gone now, so don't
say it exists.

Make --enable-debug usable again

Enable region debugging causes assertion failures (should really look
into that, though), and I don't need four messages every time I move my
pointer.

XFrees86: Remove XFree86-Misc extension

Its last remaining purpose in life has been destroyed by input
properties. Au revoir: it's been fun, by which I mean awful.

HAL: Remove grotesque open-coded strcasestr

Not only was this pretty ugly, but it didn't even work on systems
without strcasestr anyway, due to the define not being in dix-config.h.
Lack of strcasestr is handled transparently with the version from
FreeBSD now anyway, so, huzzah.

commit ad87c72edcc0d1f56658e0c4e73af335c8d5a516
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 16 02:59:51 2008 +0300

DIX: Add strcasestr from FreeBSD

Add strcasestr for use on systems which don't have it.

commit c3e901cf44cf16bb33c4176494361b429099a372
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 16 02:54:41 2008 +0300

configure.ac: Fix SHA1 handling

Fix and marginally simplify the SHA1 handling. First, we allow people
to override it. Secondly, we try for libmd. Then, we try for OpenSSL
with pkg-config. In a last, desperate move, we try librctpy on its
own. This allows the server to, y'know, _link_ when using OpenSSL,
instead of failing because we only have -lcrypto, and not -lssl.

commit 69b57dc651e12a0d9a5a4295b185c62d5c0df63f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 16 02:03:36 2008 +0300

dix: Actually build str(n)casecmp if we don't have it

Remember to add stuff to dix-config.h when you add new AC_DEFINES,
people ...

commit dcf6293030126509d7d6c61d131222037d5ed7db
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 16 01:57:00 2008 +0300

strncasecmp: Actually use the right license

Forgot to update the license when I committed the FreeBSD version, so it
still had an old SGI license. Sorry. Sorry.

commit 441f084bfe87a6ea1c94ec63f82888b8b3d81d89
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 2 19:52:58 2008 +0300

config: Don't attempt to use D-Bus when not strictly necessary

If we have D-Bus but have explicitly disabled it, don't build it.
commit 35c89f3f5b8fa222e37b799d5bb01595e8f30d0c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 16 01:43:58 2008 +0300

 XFree86: Remove mysticism from Makefile.am

 The variables were always the same, so just shove them in with the rest
 of the plebs.

commit b89a59248a4a0ff06b9a0ddee45881efc6063063
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jun 27 12:20:56 2008 +0300

 XFree86: Delete OSMouse code

 This should be moved into the mouse driver, if anything.

commit d0de5ea96d084fc5da87d8f323ddfc08fe9c03ba
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 25 17:56:28 2008 +0300

 XFree86: Remove useless debugging code

 Also remove documentation which told you how to use a non-module-aware
 GDB, albeit only with old, non-shared, modules.

commit 4b1273c9c9c2da113f634be80caa28e81df3beae98
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 25 17:51:12 2008 +0300

 XFree86: Delete empty file & function

 xf86InitXkb() has been empty for as long as I can remember.

commit 3a54f3f48fa1c0d60604c3ee767c569b5ec23430
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 12 01:05:04 2008 +0300

 XFree86: Clean up init a tiny bit (no code changes)

 Reshuffle and delete.

commit ddecfb50dda9e398647d1c84c7153127ed26a4d2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 11 15:14:26 2008 +0300

 XFree86: Remove trailing whitespace
OS/KDrive/XFree86: Sanitise colour initialisation

OsInitColors always just returned TRUE, so just remove calls to it and insane special-case logic. Remove unused kcolor.c implementation, and merge oscolor.h into oscolor.c since it was the only user. Remove open-coded strncasecmp in oscolor.c.

Since we no longer need to call OsInitColors after reading the config file, just call PostConfigInit() from one place, and move PM handling to one place so we can install the signal handlers earlier.

DIX: Add strncasecmp from FreeBSD, make strncasecmp args const

Add strncasecmp (as we're now using it) in case someone doesn't have it, and also change strncasecmp args to be const, in accordance with everything else.

configure.ac: Add GLX_SYS_LIBS for Xvfb and Xnest

This fixes the linking for these two when using DRI2, which requires DLOPEN_LIBS.

Bug #7300: Move xf86RAC to hw/xfree86/common

Bug #16674: Make sure RANDR reports refresh as 0 if pixel clock is 0.
Fix the configure tests for swap16/__swap16 macros on OpenBSD.

BSD systems need <sys/types.h> included before <sys/endian.h> for macros to work.

https://bugs.freedesktop.org/show_bug.cgi?id=16531

commit 11ee0ae9390a608a232ff94abce0cbcf9ed7b70a
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 14 10:20:11 2008 +0930

xfree86: append, not prepend, new input devices to xf86InputDevs.

If devices are prepended to the list, their wake-up order on resume is not the same as the original initialisation order. Hot-plugged devices, originally initied last, are re-enabled before the xorg.conf devices and in some cases may steal the device files. Result: we have different devices before and after suspend/resume.

RedHat Bug 439386

commit 5bcc45e07e8726a5442567472dd29cfb5e901f2d
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Jul 13 18:40:53 2008 +0930

Xi: expose Enable/DisableDevice through XI_PROP_ENABLED property.

commit c9eb0e870c87d291311491452adf7f91a911e24b
Author: Simon Thum <simon.thum@gmx.de>
Date: Thu Jul 10 22:33:39 2008 +0930

Add support for multiple pointer acceleration schemes. #8583

Available acceleration schemes:
- xorg classic scheme.
- the new "Predictable" polynomial accel scheme.

X.Org Bug 8583

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e7abe1676a6a4e4249504b8c9660cbad70569199
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Sun Jul 13 18:41:53 2008 +0930

Xi: protect against NULL handlers, don't try to dereference.
Xi: remove ChangeDeviceControl for CoreCtl.

If you want to set a device to core, attach it to a master device.

Xi: GetDeviceProperty reply includes deviceid.

XQuartz: Use CFEqual to compare keyboards
(cherry picked from commit 5538e43b9ae7d06d2f48842b065810ce74286eb6)

XQuartz: Some fd handoff cleanup.
(cherry picked from commit 9c20a4804dd97e67a988f00f49866997209cc518)

XQuartz: Remove deprecated keyboard code.
(cherry picked from commit 69cfc1a212bb38a6130dea2e5f20f1e6a3ee7c)

Set machine dependent defaults for ppc64
(cherry picked from commit 0733ef2e8abda99cfd62966e73017949e9cd507f)

XQuartz: Set noPanoramixExtension earlier to avoid a possible race.
(cherry picked from commit 49668e8a88137e9f258ea970826883b88b7d8ba)
commit 8d2e2e1d856efec4459de2a20af642dc1ec9b8a5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jun 11 11:44:45 2008 -0700

Xquartz: Removed include directive for removed header
(cherry picked from commit e65a36d5f338410c5a5b02cb5ae1214a81d072d)

commit ebd70c82fdbe483d149ac9b6db5a64cc6e0c10e0a
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Jul 10 14:38:34 2008 -0700

Add LoaderShouldIgnoreABI to allow drivers that roll their own ABI checks (i.e. nvidia) to perform the check before ScreenInit.

commit c42427f63f0e0495e56909ee99ad1e3c4321e39b
Author: Ander Conselvan de Oliveira <ander@mandriva.com.br>
Date: Wed Jul 9 10:50:21 2008 -0300

Fix incorrect test regarding keyboard map.

In the map stored in each keyboard device, the first line refers to
minimum keycode, i.e., the 0th line refers to keycode 8. When not
using XKB the wrong test caused some keys to be interpreted as
locks ('m' for instance). The had to be pressed twice to generate
both KeyPress and KeyRelease events.

Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>

commit e4054e5cb3d919dfc83021be3f2b9036d0e5a2be
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Thu Jul 10 11:03:31 2008 +0930

Xi: pack the property stuff into a struct, make handlers a linked list.

We may need more than one handler to deal with a property (e.g. one in the
driver, one in the DIX), so get the handlers into a linked list and call them
one-by-one. This is of course slightly less entertaining than the hilarious
WRAP/UNWRAP game we play in other parts of the server.

XIRegisterPropertyHandler/XIUnregisterPropertyHandler are the interface
drivers/the DIX should use to attach themselves to the device.

XIDeleteAllDeviceProperties destroys everything, including the handlers.

commit 2039c6ea43244339659323d05d96c14e41996c20
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date: Mon Jul 7 22:10:17 2008 +0930
Xi: add support for input device properties.

Basically just copied from randr properties, with minor changes only. Each device supports arbitrary properties that can be modified by clients. Modifications to the properties are passed to the driver (if applicable) and can then affect the configuration of the device.

Note that device properties are limited to a specific device. A property set on a slave device does not migrate to the master.

commit 4ab01fe5db77b330b1ec463aa49b77859527e597
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Thu Jul 10 16:27:36 2008 +0930

Revert "Xi: add support for input device properties."

Note to self: don't mix up branches with half-finished cherriespicks.

This reverts commit 666838fccc8b71fdeae160844160187f345cbf4a6.

commit 666838fccc8b71fdeae160844160187f345cbf4a6
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Mon Jul 7 22:10:17 2008 +0930

Xi: add support for input device properties.

Basically just copied from randr properties, with minor changes only. Each device supports arbitrary properties that can be modified by clients. Modifications to the properties are passed to the driver (if applicable) and can then affect the configuration of the device.

Note that device properties are limited to a specific device. A property set on a slave device does not migrate to the master.

commit acce27093571497a0626cee1cdebf351d5f40
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Tue Jul 8 16:02:13 2008 +0930

Xext: store the GenericMasks in the resource system.

This fixes a severe issue - when the client died the event mask didn't get unregistered and a future event would dereference dangling pointers. By storing the event masks in the resource system we can free them when the client dies.

commit db86b8839f286e02ef8b5638b8ab2fe608707655
Author: Peter Hutterer <peter.hutterer@who-t.net>


dix: free GenericMask allocations when destroying window.

commit 08e2c625f620688d35f3b443ffb878e8e991ff57
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jul 9 20:07:59 2008 -0700

Remove README.font, since it's just an old text copy of xorg-docs/sgml/fonts

commit 5e847c1d4fc30a0d263a861a76982660f11998cd
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Jul 7 17:08:01 2008 -0700

Improved driver selection when autoconfiguring driver without xorg.conf

- Allow returning multiple drivers to try for a given PCI id (for instance, try "geode" then "amd" for AMD Geode hardware)
- On Solaris, use VIS_GETIDENTIFIER ioctl as well as PCI id to choose drivers
- Use wsfb instead of fbdev as a fallback on non-Linux SPARC platforms

commit 235fea0e1a2101fb76a54e6505db321674530c60
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Jul 7 15:21:59 2008 -0700

Update bsd & solaris descriptions in README.OS-lib

commit d8af9d9ab1cd98c07fdf42490dccc0cab3c655b89
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Jul 7 13:14:49 2008 +0200

Export xkbfile.h in the SDK

It's needed by xkbsrv.h

commit d78beb20a00e8519788e75c90b467a5750c78be
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Fri Jul 4 04:04:19 2008 -0300

Remove unused function and variables.

commit a8c4727f01949da0ae266369f0dd12a96c2bf0da5
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Fri Jul 4 04:03:46 2008 -0300

Fix typo in the last commit.

commit 3164288b121990a5990747c0f92d4af13b1c929a
Remove deprecated function miPointerPosition().

commit d1031a8972490ebf0ef6de2762036a7a7172466b
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Fri Jul 4 03:46:21 2008 -0300

Update README.OS-lib to reflect reality.

commit f72500c4a09ccee5dbbd16639b1951a4b943e4ac
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Fri Jul 4 03:45:18 2008 -0300

Nuke libc wrapper remaining stuffs.

commit 3fd5fab5663fbdce2fd0b5377155aedf9a70b6c2
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Fri Jul 4 02:51:42 2008 -0300

Remove inexistent function headers.

commit 0b9ef835a0fe900c121b84e43989591e58ab1126
Author: Dave Airlie <airlied@redhat.com>
Date:   Fri Jul 4 07:29:32 2008 +1000

modes: fix initial xorg.conf mode selection.

This was all kinds of broken, we ignored user preferred modes for multiple monitors and also for side-by-side configurations.

commit e317943c125d7fdbe62c750324640eb30c88fa15
Author: Peter Hutterer <peter.hutterer@who-t.net>
Date:   Wed Jul 2 12:23:03 2008 +0930

xfree86: AllowEmptyInput is now enabled by default if hotplugging is enabled.

Remove AEI check from configImpliedLayout as the setting isn't actually parsed at this point anyway (written by Sasha Hlusiak).

Resurrect checkInput() and check for devices there if AEI is false (this also creates the default devices if required).

Set AllowEmptyInput to enabled by default if hotplugging is enabled.

commit fe5cf7cb00f9d926ceff933adbdbceea7353f4e2
Author: Peter Hutterer <peter.hutterer@who-t.net>
xfree86: handle missing Screen lines in the ServerLayout #16301

If no Screen is specified in the ServerLayout section, either take the first
one from the config file or autogenerate a default screen.

X.Org Bug 16301 <http://bugs.freedesktop.org/show_bug.cgi?id=16301>

commit 6674b87a7dca7d6ff9d9d9af888e5256b13d7877
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 29 20:05:27 2008 +0930

xfree86: move declaration of configured_device to start of function.

Last I checked C doesn't allow declarations halfway down a block.

commit 1e96782011f0b4ba6ed1d3df118964a58d15fd
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Jul 3 20:00:22 2008 +1000

dri2: bump libdrm numbers as 2.3.1 is released without ttm interface

commit 1771edcb44b564f83f509748b4e4cd5b7586e2a8
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jul 3 18:57:09 2008 +1000

modes: check the crtc is valid before using its desired modes.

this fixes a crash I was getting on radeon rotate when gnome is running.
I'm sure g-s-d was doing something bad, but really not crashing ftw.

commit 689292e58cc5242ebf29cf65b6de9d449
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Jul 2 11:25:50 2008 -0400

Fix GLX in Xvfb and kdrive.

commit 9a73bca859be12721ef62304b1422c455d4a4c9
Author: Chris Ball <cjb@laptop.org>
Date:   Wed Jul 2 09:46:06 2008 -0400

Remove KdOffscreenMarkUsed() as all its callers are gone.

commit b84a27fd9fdeb579437ef38f10cb12cf55dc7c3
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jul 2 06:25:03 2008 -0700
VBO: Regenerate files based on recent changes to gl_API.xml

Since GL_ARB_vertex_buffer_object protocol isn't supported yet, these changes are innocuous.

commit 703a9645f3d547144ea62dd81c41f5356a5f87d8
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 1 17:50:48 2008 -0400

Auf wiederversehen, KAA.

commit c8216aede6c4ac41976947521d884fa010913204
Author: Jeremy Uejio <jeremy.uejio@sun.com>
Date:   Tue Jul 1 13:37:12 2008 -0700

Sun bug #6685465: Xephyr uses wrong or bad colortable in 8-bit mode

<http://bugs.opensolaris.org/view_bug.do?bug_id=6685465>

This bug is caused by Xephyr not handling the RGB byte order correctly of the server where Xephyr is displaying on. The previous code just assumed that the order was RGB and did not take into account that Xservers may use different order (such as BGR).

The fix is to add a function to calculate the byte order and bits to shift based on the visual mask and the visual bits_per_rgb (which is usually 8, but could be server dependent). Since the shifts won't change once the display connection has been made, I can cache these values so that Xephyr doesn't have to keep recalculating them everytime it tries to translate the Xephyr colormap entries for Xephyr clients to the actual server colormap entries (i.e. calling the function hostx_set_cmap_entry() repeatedly for every colormap entry).

commit 2e8daee05343b2853b677acfe4554def0ceeada00
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Jun 30 17:29:35 2008 -0700

Work around the DIX losing mmWidth/mmHeight for RandR 1.1 DDXen.

RandR 1.1 has a physical size for each mode. It used to be that the DIX would remember these modes and pass them back up to the DDX when changing the screen configuration. The DDX uses RR_GET_MODE_MM to query the driver for the physical dimensions of the screen, allowing it to preserve the DPI.

With RandR 1.2, the physical dimensions are stored as part of the output, rather than per mode. The DIX only uses the sizes passed in from the DDX to select the mode pool for the "default" output, and forgets the physical sizes. Then, when reconfiguring the screen, it makes up a new RRScreenSizeRec using the dimensions
from the output, screwing up the DPI.

This change works around this problem by ignoring the DIX and querying the real size from the driver.

commit e2bbf2d248a2d2a2db4adfe9d1bda94cf184d8bd
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 1 12:01:56 2008 -0400

Don't try to load DRI2 if built without it.

commit 66d7c9de82b5e733e4995f079a96efe612fca881
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jul 1 10:55:54 2008 -0400

Declare xf86InterpretEEDID() properly.

commit e4335e876d254e446a965259e845ad955da5b5c2
Author: root <root@samich.home.cworth.org>
Date:   Mon Jun 30 15:29:04 2008 -0700

Revert "XInput ABI is 2.1, not 3.1."

This reverts commit 76576c87b0de106e006d1cfa59d42d3a483e966c.
which was an incorrect revert of previous ABI bumps. Those responsible for the accidental ABI bumps in both directions have all been sacked.

This allows xf86-input-mouse to build again, for example.

commit 6447f80c17077f924b2d58e07b38d32429edcb9b
Author: Carl Worth <cworth@samich.home.cworth.org>
Date:   Mon Jun 30 13:16:49 2008 -0700

Use AC_CHECK_LIB before PKG_CHECK_MODULES for openssl

Previously, the code was using PKG_CHECK_EXISTS before PKG_CHECK_MODULES,
(to cater to OpenBSD systems that include openssl by default but without a .pc file). But this meant that systems that didn't have openssl installed at all would not get any error message at configure time.

Now, if the SHA1_Init function is found in -lcrypto without any additional flags, then that's used. Otherwise, pkg-config is used to find the right flags to link against libcrypto. And if that fails, a nice error message is now generated.

commit 76576c87b0de106e006d1cfa59d42d3a483e966c
Author: Adam Jackson <ajax@redhat.com>
XInput ABI is 2.1, not 3.1.

commit bed12dd3df0129b7f28d0a42d470266bd3ae6b38
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jun 21 16:07:54 2008 -0400

Do EEDID in RANDR 1.2.

commit 4fc18b5fc31aa287e807ee520dc9117296e3d306
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jun 21 16:07:36 2008 -0400

Hexdump the whole EDID block if extensions present.

commit b4fbc31e109f1eefe78613597f9a91d5363523493
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jun 21 16:00:05 2008 -0400

Actually fetch all blocks of EEDID if asked to.

commit 9c4c323d50bd8b369e82a1df28abdc15a219a5e
Author: Thomas Hellstrom <thomas-at-tungstengraphics.com>
Date: Mon Jun 30 18:59:13 2008 +0100

Avoid an EXA init segfault.
Don't allocate each VRAM buffer with a 16MB alignment.

commit 211e2bdce677122145998829a7f26610c7c567e6
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 30 10:29:17 2008 -0400

Bump ABI minor numbers for the devPrivate ABI functions.

commit d6b8d9eaffa3f976db330bc35da3d30eb656bac
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Fri Jun 27 17:16:35 2008 -0700

DRI: Ensure we have the DRI headers from Mesa

Change the DRI configure check to look for the dri pkg-config file. This prevents people who built an Xlib libGL from bombing later in the build.

commit 7ddf2f1587da3ec1cd27ae270e42700adf4f560
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jun 26 21:23:31 2008 -0400
Fix a leak of window devPrivates in window.c/CrushTree().

commit a65888d6d785934a669ad3b822bf2d636db351858
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Fri Jun 27 17:32:28 2008 +0100

fixes for gallium stride changes

commit e0c43ff3208350995c45604624dd4825f40598c
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Fri Jun 27 09:46:24 2008 +0100

More error checking

commit 387ec961f2a5e791fd010906a5115cf8393471f3
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 23:34:51 2008 +0100

add --with-gallium-dir to specify location of gallium tree

commit 410b0a4254ca48548b443c1e8fbbcf7a6b9aa862
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:49:33 2008 +0100

NULL checks

commit 621fa337fb53d535f53cec30bb7161801001bb7f
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:47:20 2008 +0100

Fix copy surface

commit ccd0c76472a7d8a85aed0ea6f6a4011109f305d6
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:27:44 2008 +0100

Add EXA winsys for gallium pipe driver interface.

Plug in the EXA framework into the pipe driver
for surface_copy & surface_fill.

Back pixmaps with drmBO's including the front buffer.

commit 0e1aa03708d95cc1542bee31709a345d0f748f0c
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:27:14 2008 +0100

yet more
commit 2b3a3bc9202f4e6f9886a08a4dfa597a83a5e933
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:26:16 2008 +0100

    more formatting fixes

commit 2a45c28712a544c6f1c3eb753678ba1738cfd6d7
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Thu Jun 26 22:25:17 2008 +0100

    formatting fixes

commit 15e4b6c57484b6afb790c7dc1db9f529ba2219cf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 24 13:46:40 2008 +0930

    input: for non-device events (e.g. DevicePresence) use MAX_DEVICES as id.

    Using id = 0 only worked pre-MPX since XInput didn't allow XOpenDevice for the
    core devices (0 and 1). Now we can now legally register for events so we may
    overwrite our device-independent classes with the ones selected for the VCP.

    So, increase the EMASKSIZE to MAX_DEVICES + 1 and use MAX_DEVICES as the ID
    when we don't have a device.

commit f0c56fffd980db19bea271aceb118bd931f6f40d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 24 12:58:49 2008 +0930

    dix: don't dereference dev-&gt;key if it doesn't exist.

    This may happen if we check for a passive grab on a floating pointer device.

commit 01f0b9c9784c55c94104bafa6dd545b373c64104
Author: Alan Coopersmith <alan.coopersmith@sun.com>

    xf86GetOptValFreq wants a pointer to double, but maxPixClock is an int

commit 7ce6dcef118139d0cefc136b9a07f5bf0c078d70
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 25 15:06:49 2008 -0700

    Don't log null device name in XkbDDXLoadKeymapByNames

commit cbc20d92de92aad5ca240310a9156ccf97c24a01
Author: Adam Jackson <ajax@redhat.com>
XTrap delenda est.

commit a81b5ce452766bbce4b2ac0849711284ba8591b46
Author: Peter Hutterer <peter@cs.unisa.edu.au>

dix: free memory associated with the EventList. #16507

Un-deprecates CloseDownEvents.

X.Org Bug 16507 <http://bugs.freedesktop.org/show_bug.cgi?id=16507>

commit 3a2beb2f867fd47dc5a7723dca345ea0b0eef3d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 25 13:12:41 2008 +0930

dix: InitEventList does not need to be _X_EXPORT.

commit 385943e0e97463ce4681a9b6a4a40d7e3c91e51e
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Tue Jun 24 23:13:32 2008 -0300

Set --enable-builtin-fonts as default.

Some reasons to embed fonts by default:
1. X server doesn't pick a good default font path so it's easiest just
to built in the core fonts and let new X hackers more happy. Developers
and distro guys are wise enough to just set --disable-builtin-fonts
when they want.

2. Seems that this is by far the most popular FAQ
(http://www.x.org/wiki/FAQErrorMessages).

3. No one gave a good argument to not do this:

commit f3b29efc4d7bb346cdd3fd79e780f1022c8f46e8
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Tue Jun 24 23:07:49 2008 -0300

Remove NOFONTSERVERACCESS macro

dix: this is semantically different but it goes through the same path in
the code.

commit 2ff7eb4995b663cf12a01124745de600f38d0bfc
xfree86: kill INHERIT_LOCK_STATE macro.

I don't know how this survived so long. Google didn't show anything usable related with this.

commit a3ec22627355fc08730ad7e90022e374763d333f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Tue Jun 24 20:32:24 2008 -0400

Fix a leak in the code that parses the protocol names.

Also added some comments.
Reported by Ben Gamari (bug #16492).

commit a4cb25f8c816adc3bd6a28d5beb558e8be40121
Author: Ben Gamari <bgamari@gmail.com>
Date:    Tue Jun 24 12:08:35 2008 +0930

dix: free FocusPrivates when deleting a window. #16493

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

X.Org Bug 16493 <http://bugs.freedesktop.org/show_bug.cgi?id=16493>

commit 32a7bbba6fcec0535a8faa1d6d2ecebe786bccc81
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Tue Jun 24 09:28:05 2008 +0930

xfree86: fix up leftover allocation of xf86Events.

Thanks to Eamon Walsh for spotting this.

commit bcc88a1d46c7ba469e4e2861875f84f8c77d4b15
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sun Jun 22 22:34:30 2008 +0930

xb: remove unused variable is_core.

commit 9ed9d98dec58d1f7468d02c4b951811b8e1ca7c1
Author: Julien Cristau <jcristau@debian.org>
Date:    Tue Jun 24 22:36:32 2008 +0200

x86emu: fix build, fallout from 9719354

commit e9b4f3cd856e2401675452c387b4155246239f91
Fix "warning: suggest parentheses around && within ||".

commit 8910dde96ec4318c9c44fb9717b6b52fad56cd1d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Jun 23 14:15:38 2008 -0400

Fix "warning: assignment discards qualifiers from pointer target type".

commit 95d4ede538fbb68049ba3efa0acb0e9712e5cb01
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 20 23:49:32 2008 -0400

Fix "warning: passing argument 1 of `modeIsPresent' from incompatible pointer type".

commit fa1545eeda2a7feebc006840a44d390177634231
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 20 23:47:22 2008 -0400

Fix "warning: passing argument 1 of `xf86addNewLoadDirective' from incompatible pointer type".

commit 2725ba1fca45e5ba241695e24333d8efab1f862b
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 24 14:41:32 2008 -0400

Also remove xorgconfig from configure.ac.

commit 9719354ae04a41e9834ac9ba8fd9e895092ba4f1
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jun 24 14:37:06 2008 -0400

Check for __amd64__, not __x86_64__.

Spiritual revert of 1fa4de80fcfc697bc5e5879cc351fb3e9dbf6acbe. Intel's C compiler claims to be gcc-compatible; if they're not defining the same macros as gcc then that's their bug, not ours. Even if we were to do this aliasing we should do it once and for all in servermd.h.

commit 249c892784ca5e8c75863dd82097ca2bedec4723
Author: Roland Bär <roland@verifysoft.de>
Date:   Tue Jun 24 14:13:02 2008 -0400

Bug #11857: Avoid running off the end of a MAXCLIENTS-sized array.

commit 9e5b3deaf89f877e83e86bfe067bc68df7385bc6a
Author: Adam Jackson <ajax@redhat.com>
Bug #11842: Fix emulation of int1A PCI BIOS services.

Use only %di to name the PCI register to read/write, rather than %edi. DOS is only expecting the base PCI config space anyway, and the BIOS might be using the high bits of %edi.

commit d34430414ac0e77ee61ab0ac9ef427b236eb639
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 24 13:32:55 2008 -0400

Remove xorgconfig. Use X -configure instead.

commit 574c62e305e5380bb1b0f4bee4f7cc3e3f03ada
Author: Owen Taylor <otaylor@fishsoup.net>
Date: Tue Jun 24 12:40:47 2008 -0400

Bug #15369: Don’t reduce Over to Src for transform + RepeatNone.

Only do no-src-alpha optimizations for a RepeatNone source if we can easily probe that we won’t sample outside the edges of the source.

commit 100afae578e59e31b65a6264c281ba7deea5ac39
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 24 10:52:31 2008 -0400

Bug #15586: (Correctly) refuse to redirect the root window.

commit 4c4e06af7950df509fa02099788be66cf37a4d01
Author: Paul Bender <pebender@gmail.com>
Date: Tue Jun 24 10:44:47 2008 -0400

Bug #15665: Fix building without Composite.

commit 59510a76436c739fd9421f01cc4210607d9e7f57
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Jun 24 10:40:36 2008 -0400

Remove some default modes that really shouldn’t be in the default set.

commit b622f6dc5d8d70d17be0374a85a9b16b43a62a01
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Jun 23 23:45:57 2008 +0200

kdrive: fix building with --disable-xv (bug#16488)

commit 3b587826924c60f6736dc5fa5f84b964fde1b4da
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Bug #16302: Fix GLX drawable refcounting in DMX.

commit c8d066a15142678041c1d82ccf530dcb2ea74ca
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Jun 23 13:59:48 2008 -0400

Implement bswap in x86emu.

Yes, this is a 486+ instruction and thus not strictly legal in vm86
mode, but enough BIOSes use it (looking at you VIA) that we might as
well implement it.

commit b55fbca4f0705aeff1c69d3ef851c5ff5af6ed94
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 20 13:27:32 2008 -0400

Bug #12414: Create full-fledged pixmaps in fb24_32ReformatTile().

... instead of creating pixmaps that only fb knows about, which will
have no devPrivates for any other subsystem and thus cause havoc if
(when) they leak out.

commit 155fcecb320dbcfb899d6bcd78048ce0993bf28b
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Mon May 19 08:09:33 2008 +0200

Various messages clean-ups.

commit 41a65e110409a290288180e8e1517f053f877586
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Mon May 19 06:12:04 2008 +0200

Fix ipc check on OpenBSD

commit ce4d4b3c1b0e25f64d6f781b09528b2f3ae33207
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Mon May 19 05:19:01 2008 +0200

build fix

commit 19c7e9da55646f1f6e05c28cd71865cd8d84e1ff
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Mon May 19 02:24:17 2008 +0200

preserve errno around the SIGIO handler
Remove RCS Id.

Let code build with gcc 2.95

Mixing usage where some parts of the code treated this field as a bitmask and other parts as an array of card8 was wrong, and as the wire protocol wanted bitmasks, it was less invasive to switch the newer counting code use booleans.

Master devices track slave buttons by waiting for all slave buttons to be released before delivering the release event to the client.

This also removes the state merging code in DeepCopyDeviceClasses -- that code was changing master device state without delivering any events, violating protocol invariants. The result will be that existing slave button state which does not match the master will not be visible through the master device. Fixing this would require that we synthesize events in this function, which seems like a bad idea. Note that keyboards have the same issue.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

Make button down state a bitmask. Master buttons track union of slave buttons
dix: don't attempt to send Enter/Leave events if we have a keyboard.

Dereferencing into dev->valuator could crash the server, although it looks like I could only reproduce this by having a keyboard send an event after it was created and the WM was still replaying. Or so.

commit 528b4e36ade482df99747081688ae52caeb28eb
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Wed Jun 18 22:34:02 2008 +0100

Set driverPriv immediately on CreatePixmap.

If it's NULL anyway, we bail, if not, it lets
ModifyPixmapHeader know about the private.

commit 068fa63496c7c363706f0d356b5132bc591c04c6
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jun 18 09:23:09 2008 +0930

dix: fix a crash when the client has a different byteorder.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit d21155a3e9b51df946766926bc6155c8972c4439
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 15 20:00:41 2008 +0930

input: fix up usage of button->down, used to be a bitmask, is now an array.

device->button->down used to be a 32-byte bitmask with one bit for each button. This has changed into a 256-byte array, with one byte assigned for each button. Some of the callers were still using this array as a bitmask however, this is fixed with this patch.

Thanks to Keith Packard for pointing this out. See also:

commit 2b9c829b0ebd16910bdf48b9d64862e3d34f5b7f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jun 18 09:55:53 2008 +0930

Xi: don't drop the grab status in XExtendedGrabDevice().

commit 4f3ed54de9ea7780ff03378b13de0fdddec2e15
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 17 10:43:36 2008 +0930

mi: remove trailing whitespaces from misprite.c
SELinux: Add an extension alias under the OS-agnostic "Flask" name.

SELinux: Bring server-side name registry up to date.

Bug #15169: Make the server build again on Alpha.

Still won't work until the kernel makes the resource files actually exist.

Add DRI2 support.

Add EXA stubs.

Currently tested with i915.

Adding some readme.

Xi: avoid double button mapping.

Button events were mapped once in GetPointerEvents and then again in UpdateDeviceState. While it might make sense to just fix up UpdateDeviceState, it turns out to be better to leave the raw button number in the event because DGA reports raw device events without button translation, and so when it calls UpdateDeviceState, the button down counts get scrambled and buttons get stuck
down.

See also:

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit d894e86aa5bea81147c4a7ad8630bcfb04156792
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 15 10:55:08 2008 +0930

  randr: remove superfluous check against uninitialised variable.

  Thanks to Eamon Walsh for pointing this out.

commit 5544c51447f551dfc6df64438873a7ce64743976
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:49:47 2008 -0400

  Fix "warning: the address of `newTypes` will always evaluate as `true`".

commit 2391c409a2840d61fed93832650c0d6c82ebebdf
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:48:17 2008 -0400

  Fix "warning: unused variable `s`".

commit 61dabe384a88fc397d7cd55cb23f4fcd3f0645c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:47:10 2008 -0400

  Fix "warning: unused variable `tsize`".

commit 37a64b02df02d42a19d4b777930dc5e457d97d63
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:41:58 2008 -0400

  Fix "warning: `rc` may be used uninitialized in this function".

commit e90fcd8294fe763c97610d39c0f2836f87dca
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:26:43 2008 -0400

  Fix "warning: no previous prototype for `miRROutputGetProperty`".

commit 0b00bbca5df140edbfaffab627bd82165f1b1420
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 22:22:22 2008 -0400
Fix "Warning: no previous prototype for 'SecureRPCInit'".

commit 1c2f038d69605b0ed1067e47dc75ca6f216991f5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:59:09 2008 -0400

Fix multiple warnings in os/xdmauth.c.

commit 384ebe02b354bf1ad0a2ac25e4b5290f2e795ea1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:49:01 2008 -0400

Fix "warning: label 'done' defined but not used".

commit 720e44f9730b9e275579483c2a34b16bba77e146
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:42:37 2008 -0400

Fix "warning: no previous prototype for 'XevieExtensionInit'".

commit 9d871e19c9dee5d3ec7f123249e8890417d83093
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:35:29 2008 -0400

Fix "warning: unused variable 'pDev', `pPointer'".

commit 60f64af075e8ac3e63586452f2f3d338a05785f0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:23:31 2008 -0400

Fix "warning: passing argument 1 of 'pixman_fill' from incompatible pointer type".

commit c448460fdc23262f2b71a32599090c85c70447a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:05:26 2008 -0400

Fix "warning: pointer targets in assignment differ in signedness".

commit 17ed6242e73c5f733601b15732ab30c23acf14d2
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:03:17 2008 -0400

Fix "warning: assignment from incompatible pointer type".

commit 02a8b118cd07d98f12a9b8325d8443125703ba7d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jun 13 21:01:50 2008 -0400
Fix "warning: implicit declaration of function ‘miPointerGetScreen’".

commit 2d7ba09dc4b5eff5dba8d7867f285111574b1737
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Jun 13 16:39:40 2008 -0400

Make devPrivates lookup functions ABI instead of static inlines.

This is required to preserve compatibility across changes to the internal representation of the privates list.

commit 9e0e558f263a132babf8ec91d31230831653f19ec1
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 13 11:17:49 2008 -0400

Fix unterminated endif.

commit 6bbfad89094bb64377a6825b8293d13a32e041aff
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 13 11:00:50 2008 -0400

... and stay dead.

commit f31bd087e8a7f65cd588bd1d022bb18e72b2a60c
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jun 13 10:35:07 2008 -0400

Death to mfb.

Anyone still interested in 1 or 4 bpp framebuffers, talk to fb.

commit af86c3b7ce705c1711c8ecf8bf05a7a02b8afccf6
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sat May 24 21:16:34 2008 +0300

clean .gitignore

commit 3108980f5e78c129b23ff32f72564cf9a746e693
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Fri Jun 13 15:58:56 2008 +0300

glx: drop unused cleargc

commit 23b55a61f89f69454a3b0e3413b1f07d5df43aa
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Fri Jun 13 11:13:56 2008 +0200
AIGLX/DRI1: Switch to server context for calling pScreen->GetImage.

 Fixes http://bugs.freedesktop.org/show_bug.cgi?id=16292.

commit d15b3790307053587df8daed1936ff6923881b63
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Jun 12 16:00:50 2008 -0400

Remove xgl.

This code hasn't been updated with anything even resembling what anyone is
shipping in nearly thirty months. It hasn't built out of the box since
7.1. Most of its features over AIGLX are accomplished with DRI2 and
friends.

commit c37a93b48508666c713e3c9f39a08b8e9645e24d4
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jun 12 14:54:56 2008 +1000

modes: make aspect choosing work on single output case.

In the single output enabled case we never enter the loop and test
never gets set and so we fail to match a good mode.

This was causing my 2560x1600 to end up at 2048x1536.

commit 23e71ef71a178505494d4b410f9314acff81524
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Jun 12 09:04:24 2008 +1000

dbe: fix DoS reported by iDefense.

This isn't a security problem just a user could DoS themselves for fun or profit.

commit 390b155135a451fa728b73c8107a91d8f86ed1
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 11 18:21:33 2008 -0300

Welcome to hotplug era.

``rm -rf xorg.conf`` does not imply an error message. Maybe a warning.

checkInput() is defined but not used.

commit 6e018f6a30dbab259b8fd1ae4c84056b2acf362
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 11 18:10:55 2008 -0300
No need for inputPending field in xf86Info.

commit 881e551de92e5664f92ef1961092e35cd7a77b15
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 11 18:03:33 2008 -0300

CopyGetMasterEvent() can be static.

commit 656949cbe24648a5b58f7df6ed49b25af0b47601
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 11 17:57:19 2008 -0300

Remove more unused things.

In function ‘miSpriteCloseScreen’:
warning: unused variable ‘pDev’

commit 84db8837d0faac008be61df9f1261cd3028e923
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 11 17:47:00 2008 -0300

Remove unused xf86DeviceCursorUndisplay() function.

commit dba5455f06c439c7e7d399f30dc7067e98e6e50b
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Jun 11 11:41:34 2008 -0400

Un-K&R shm extension.

commit 9171206db349a0c6fda719746be0b15049d57aaa
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jun 10 12:23:03 2008 -0600

CVE-2008-2362 - RENDER Extension memory corruption

Integer overflows can occur in the code validating the parameters for
the SProcRenderCreateLinearGradient, SProcRenderCreateRadialGradient
and SProcRenderCreateConicalGradient functions, leading to memory
corruption by swapping bytes outside of the intended request
parameters.

commit 5257a0f83d5f3d80d0cd44dd76d047bac3869592
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jun 10 12:22:30 2008 -0600

CVE-2008-2361 - RENDER Extension crash

An integer overflow may occur in the computation of the size of the
glyph to be allocated by the ProcRenderCreateCursor() function which will cause less memory to be allocated than expected, leading later to dereferencing un-mapped memory, causing a crash of the X server.

commit c5f69b297b1227cb802394fa90efdbe1de607f3c
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jun 10 12:21:26 2008 -0600

CVE-2008-2360 - RENDER Extension heap buffer overflow

An integer overflow may occur in the computation of the size of the glyph to be allocated by the AllocateGlyph() function which will cause less memory to be allocated than expected, leading to later heap overflow.

commit 063f18ef6d7bf834225ddf63527e58c078628f5f
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jun 10 12:20:43 2008 -0600

CVE-2008-1379 - MIT-SHM arbitrary memory read

An integer overflow in the validation of the parameters of the ShmPutImage() request makes it possible to trigger the copy of arbitrary server memory to a pixmap that can subsequently be read by the client, to read arbitrary parts of the X server memory space.

commit 95d162c4389857d960da9b0158345c1714e91f31
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jun 10 12:20:00 2008 -0600

CVE-2008-1377 - RECORD and Security extensions memory corruption

Lack of validation of the parameters of the SProcSecurityGenerateAuthorization SProcRecordCreateContext functions makes it possible for a specially crafted request to trigger the swapping of bytes outside the parameter of these requests, causing memory corruption.

commit 656d5d98855eb608ec6581f8c574f343a216ea32
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jun 11 17:32:59 2008 +0930

kdrive: fix wrong use of &. should be | instead.

Fallout from 26e7e69ab893d1f2b35213250ada40ec90944f62

commit 6528eb885dea0326aacdd026d44d82ab07f4a4fd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xext: init firstValuator to zero, otherwise core XTest events may get lost.

commit 6ab311c92d036dc63ee92ab4bb231f5f61ebe69f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jun 9 11:45:57 2008 +0930

dix: Call RealizeCursor during InitializeSprite.

RealizeCursor should be called when the cursor is allocated. However, when the root cursor is allocated, no devices exist yet, and thus RealizeCursor is never called. This may lead to segfaults later on in DDXes like Xnest that actually need to do something for each cursor, and later on rely on that DDX-specific data for each cursor has been initialized.

commit e083b5a07507d53de0d1d365ef1565346284e997
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jun 9 11:23:53 2008 +0930

xnest: wrap the xnest cursor sprite funcs around the mi funcs.

Modelled after the xfree86 code. Call miDCInitialize to init the SW rendering engine, then take the pointers, store it in a xnest-local variable, and put the xnest-specific sprite funcs in place. In the xnest sprite funcs, call through to the mi sprite funcs after doing xnest-specific stuff.

commit ea6a02e048e8589e99e3b459f361eb3d041558
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jun 9 11:22:33 2008 +0930

mi: protect mipointrst.h against multiple includes.

commit a3a7c12cf8e4ac14189e53176091f309a721b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sun Jun 8 23:38:45 2008 +0930

xfree86: Fix up xf86ScaleAxis

Some driver still call it, so we might as well work correctly. Always resetting X to the Sxhigh is sub-optimal.

commit f8431a62d57ab3118a0b4099ce977db8261e2930
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jun 10 02:15:25 2008 -0700

XQuartz: Under the new startup model, we no longer need to do the foreground/background dance.
(cherry picked from commit 4505bae5d7341e1241be50ce25cb3d1b941701de4)
commit c180a52332385b98635068d63a8fe0bba4835be7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Jun 10 10:47:37 2008 -0700

XQuartz: Removed code path for old startup
(cherry picked from commit a9ee6b0d00fab01a78408a85e6542e88c19fda7c)

commit 49751fee3b82e82d4917efb168e78aad7874f1f1
Author: Roland Scheidegger <sroland@tungstengraphics.com>
Date:   Tue Jun 10 15:40:48 2008 +0200

glx: copy msaa visual capabilities

commit 5170c169db78cad3fe47dee4e438b48e67f0c7d1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Jun 10 01:39:15 2008 -0700

XQuartz: Fixed the "laggy" startup under the new model. This was caused by xinit blocking expecting SIGUSR1 and our stub never sending it.
(cherry picked from commit ee92aced10d0743c4658e53b58b5d9f5a094a415)

commit 01ace5f3fd56bc789ad7448059f9f07ef19a1c8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Jun 4 18:28:20 2008 -0700

XQuartz: Updated icon with more resolutions and made it more dark-background friendly
(cherry picked from commit d8cf5623faab952a0f1196c8fe10bba09d1fe089)

commit 607b0d09ea00f87cfb3331e59e13495a483832a
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Jun 9 09:52:04 2008 -0700

CreateColormap returns Success on success, not TRUE.

Fixes a problem where enabling color index overlays disables the RENDER extension.

commit 2854ab0d39d4deb79c9ee9bce931fad969392efc5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 8 23:20:11 2008 +0930

xnest: fix up sprite funcs to stop compiler warnings.

commit c68ca0c7b2c72df0501d26bf7f640029ff2d9568
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 8 23:14:20 2008 +0930

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 35911
xnest: switch to using EventList rather than xEvents.

commit 34429d16d319ef2709c22a5c22f45d0e82c78b20
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 8 23:08:34 2008 +0930

xnest: call miDCInitialize rather than miPointerInitialize.

This unfortunately gives us a lots of artefacts, so cursor rendering cannot be
assumed complete. But it's better than crashing.

commit a7d4bec884c24c0e1792fd7d6677cdd0af69978e3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 8 23:03:20 2008 +0930

mi: remove leftover old license comment.

commit 585125685b5f09245021c8ee15f57950fe6cdd20
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 8 22:43:47 2008 +0930

ephyr: some whitespace changes.

commit 782394fe53220deafed06ad282b5f9ce42964e42
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri Jun 6 12:10:35 2008 +0200

mi: Fix typo in comments about deprecated functions

commit 6b96281100f2118fe9d99536c33d48298a5bce7b
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Jun 6 11:01:03 2008 +0200

EXA: Fix exaGetPixmapFirstPixel() crash if the driver has a CreatePixmap hook.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=16243

commit d25ffcfbfcfe8e059f2889873c9dbe76a28ad00c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 5 15:29:35 2008 +0930

mi: protect against possible NULL-pointer dereference.

commit 874dcd83b9320a252d3c7927d412685059d5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 5 15:38:48 2008 +0930

dmx: remove a ifndef XINPUT, XINPUT is always defined now.
commit 52752911ea8470dd8805f5e6c3febb9e1e1cc4b3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 4 17:04:16 2008 +0930

dmx: don't free event list after use.

commit 5c5e58124581b845a6bfa7a2991a4e0ee7f7ebdb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 4 16:58:31 2008 +0930

dmx: add an XFlush.

Beats me why we need it, but without it we get segfaults lateron.

commit 246c10441bbf62646b77993b55233d5ceb93a81f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 4 16:37:25 2008 +0930

dmx: fix false memory allocation.

beNumVisuals and the number of GLX Visuals can be significantly different.

commit 17cd26225749a1dafa7460b44e52f43082399b265
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 4 16:05:36 2008 +0930

dmx: don't dereference a nullpointer.

commit 75eb635e3543fcb731331d01f50e62b696967667
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Jun 3 22:25:33 2008 +0930

dmx: add stubs for DeviceCursorInitialize, DeviceCursorCleanup

commit 3ff2f3a00ef3c484d1d53569b6cbe1f25dc6bd35
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Jun 3 22:17:14 2008 +0930

dmx: for now, don't acknowledge SDs.

commit 5bcd9e8953dfb5f13e90baeebea1f6ead797644b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Jun 3 22:01:43 2008 +0930

dmx: learn about the existence of IsXExtensionPointer and IsXExtensionKeyboard

commit 8da8a0fec4b1b9d9208635dedb2f449dc99e0004
dmx: claim we support XI 2.

We don't really, yet, but at least we get the full device list this way.

dmx: fix a segfault caused by GC devPrivates never being initialised.

gl: include assert.h if we're compiling with DEBUG.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

di: minor build fix when compiling with debug enabled.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

dix: set dst->mapWidth when allocating a new map.

xkb: reset xkb_cached_map on CloseDownDevices.

Could lead to some invalid pointers in the second server generation.
XQuartz: Removed async debugging sleep
(cherry picked from commit 7812a8bdf9af651ea5c07b852b2999547ec628d)

commit ee86b751192b690973ee2a1446a406bc721ce8eb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jun 4 12:01:19 2008 -0700

XQuartz: use a condition variable to signal when darwinEvents is ready rather than polling
(cherry picked from commit ff1c443cadf11d12a7d939e51194f6105153870e)

commit 38da26cd36957a45b2a47ef124282f7d863a9fd3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jun 4 11:35:24 2008 -0700

XQuartz: Don't forget to destroy the mutex and cond after we're done with them
(cherry picked from commit c3558bb8cd889e5b957190e9f5d23afad1e17b72)

commit ea40fcf4344c6e918d3be34354528940b05a70f3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Jun 4 11:18:52 2008 -0700

XQuartz: Fork for trigger
(cherry picked from commit dd0f8a0f59593d7831fe09a2a086fc57c84910e)

commit 2393dae6ffe7db8281a7977039450e8754cc19f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Jun 3 00:06:26 2008 -0700

XQuartz: Switched over to new startup path for testing. Cleaned it up a bit. Server still crashes when using the icon to launch =/
(cherry picked from commit 7f840e9dc180421eaa9b0ea3ab993fdd5b2466e5)

commit 45b661c67aca1a728f17933dd94d701488f1f196c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 4 13:39:39 2008 +0930

dix: Fix build with --disable-xinerama #16204

X.Org Bug 16204 <http://bugs.freedesktop.org/show_bug.cgi?id=16204>

commit cba8b25a7e2608cd093283f86f08fba50a6a62f7
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Mon Jun 2 11:17:47 2008 +0100
Bring inline with current modesetting-101 branch for connector/encoder changes

commit 26e7e69ab893d1f2b35213250ada40ec90944f62
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jun 2 11:04:41 2008 +0930

kdrive: don't post motion event if there was no motion. #16179

Based on the patch by Tomas Janousek.

X.Org Bug 16179 <http://bugs.freedesktop.org/show_bug.cgi?id=16179>

commit ac1db45497ff1839aa7f7ee0649ede112824ed9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jun 2 10:40:10 2008 +0930

xfree86: suspend signals while removing a device (corrected version).

Block/Release is now symmetrical.

commit 95eeca41l4e88e2e00814132cb073be4e5bf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jun 2 10:38:45 2008 +0930

Revert "xfree86: suspend signals while removing a device."

Left the signals blocked hanging after removing a master device.

This reverts commit 74372fd0049676787904f1f80f836b97f560e.

commit 5ba07cb54803b8c63e25e8ca1f1787860f684612
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Sun Jun 1 18:31:52 2008 -0300

kdrive: changes ephyr API according mpx merge.

This fix host-cursor in Xephyr server.

Signed-off-by: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 5a3d06b8f42473cea3741dc722a775deaa2b73f6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jun 1 15:20:42 2008 +0930

xkb: delete default rules when devices are closed.
We only have one set of default rules options in xkb. When the second keyboard is brought up with Xkb options specified, these new options overwrite the old. In future server generations, the rules used for the VCK are a mixture of the default ones and ones previously specified for other keyboards. Simply resetting the xkb default rules to NULL avoids this issue.

Reproducible by setting XkbLayout "de" and XkbVariant "nodeadkeys". In the second server generation, the VCK has "us(nodeadkeys)". This again produces a SIGABRT when the first key is hit.

I could not figure out why the SIGABRT happens. This patch is avoiding the issue rather than fixing it.

commit 5ebe76f13fb6e96cebe5a386024a73eceeb828ff
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 22:13:03 2008 +0930

cfg: init dev to NULL to shut up a valgrind warning.

commit a7ae9cbe78193fdaaafaf5d7af1f6fabbb434628
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 20:44:58 2008 +0930

dix: don't read valuators past numAxes.

commit f79ad5674ed41c36267a055cd2b5a0135de928c6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 18:46:35 2008 +0930

drive: fix up callers to KdQueueEvent, need to pass xEvent, not EventListPtr

commit 58d12c99abc4d06cb84338d4bcd126f0bedf83
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 18:45:11 2008 +0930

mi: Remove #ifdef XINPUT, kdrive otherwise won't get events.

commit 942086fe965fc9a24be2db4f537f0ff54db51083
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 18:17:49 2008 +0930

dix: ProcQueryPointer doesn't need special grab handling, PickPointer does it

commit 6cecaae0e8651b1fa58b3cd0e0a636db46f56f6a6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Sat May 31 13:12:53 2008 +0930

dix: Remove superfluous comment.
This code can handle devices with < 2 valuators now.

commit 105d28652d1fb80dd8ce8511e2605dccc8812e99
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 30 15:20:35 2008 +0930

Xext: use GPE/GKE from XTestFakeInput #16145

This commit fixes two problems:
1) XTFI used to assemble the event itself, then passed it to the device. It's
much easier to just pass the variables into GPE/GKE and let the DIX do the
rest.

2) XTFI would pass the VCP/VCK as default device to event processing. As a
result, updating LEDs would be updated on the VCK, not on the actual keyboard.
Instead, we now pass the events through the last-used SD, thus toggling the
LEDs on the last keyboard that sent through this MD.

Also some cleanup in XTFI to merge validity checks a bit closer together
rather than having several different sections.

This breaks XTestFakeMotion with Xinerama though.

X.Org Bug 16145 <http://bugs.freedesktop.org/show_bug.cgi?id=16145>

commit 341a61b608873c77b1a17fe7d145ed3ad716e5a3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat May 31 12:01:47 2008 +0930

mi: reduce noisyness. DebugF is enough if device ID can't be changed.

Also - printing out the event type is actually helpful.

commit 62c1a32976571f3ced1812b8b96ed5a8658b4a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat May 31 10:24:37 2008 +0930

dix: null out dummyDev, otherwise Xephyr dereferences random pointers.

SendEventToAllWindow eventually causes a IsInterferingGrab(), which attempts
to dereference dev->deviceGrab.grab.

commit 150c2f55a508ed24b230f68e30ec140c0901d9ae
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri May 23 03:09:04 2008 +0200

Add xkbstr.h and xkbsrv.h to sdk_HEADERS
commit f9bcece51e4cf0cb2d82ad953f8c6741ed5558b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu May 29 17:42:49 2008 +0930

  Xext: only free events in case of core motion events.

commit 000ead4503ddcfd6f66ce9fffc572a3a741f4055a
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Wed May 28 19:59:38 2008 +0100

  Plug in hardware cursor support

commit f9f7a872bf3f8522213aabb291d9d54e56d48c4b
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Wed May 28 15:55:36 2008 +0100

  Run indent

commit 106bea5ad1bdd5795d6ed625fc6351a161bffa6e
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Wed May 28 13:33:07 2008 +0100

  Initial commit of new modesetting driver

commit 8cf7755a85f5c1e5da7805c12b7511581a368782
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 28 18:05:25 2008 +0930

  Require x11proto 7.0.13, xextproto 7.0.4 and inputproto 1.9.99.1

commit 9b544fa40062b342ff3aa75f8f21d0bd4ce80ab
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 28 12:27:07 2008 +0930

  mi: ansify.

commit 64677f6a167a5bee99e5dfb599a3c3a6fb5dffe7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue May 27 21:01:26 2008 +0930

  xfree86: fix offset error in EDID parsing. #15964

X.Org Bug 15964 <http://bugs.freedesktop.org/show_bug.cgi?id=15964>

commit c8a17ce35a900ac9b8898f51c1b95dabad3ba1d76
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Fri May 23 13:50:39 2008 -0300

---
Correct a NULL pointer deference

The problem happens if Monitor/Card combo doesn't provide EDID info, and the XFree86-VidModeExtension extension is used.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 3a1278907ea8059546c7b9ab0c02714832c693e3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon May 26 18:01:07 2008 +0930

xfree86: Bump XINPUT ABI to 3.0.

commit 0050165a67bb462e0bf644a11644ad9d587c62bb
Author: Simon Thum <simon.thum@gmx.de>
Date: Mon May 26 17:56:08 2008 +0930

input: change dxremaind, dyremaind to floats for better acceleration #9156

X.Org Bug 9156 <http://bugs.freedesktop.org/show_bug.cgi?id=9156>

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 26c1958c322be3ac4dfe9ba2c41c5202bd03709
Merge: 5fe57787fa29586101dc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon May 26 17:37:31 2008 +0930

Merge branch 'master' into mpx

commit 5fe57787faa2ea4f2f57b25455d200bf924206d6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon May 26 17:23:34 2008 +0930

dix: store the absolute values in the motion history.

The core protocol requires absolute values and it's a bit hard to get them if we only have relative ones in the history. Switch the motion history to absolute, and if we really need the relative values, we can probably generated them from the abs. ones in the future.

commit 1883485edd7eb90c0b76bca41c71e26ae2c0b91a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon May 26 16:35:23 2008 +0930

If core motion history is required, scale back to screen coords and INT16.
Ensure the motion history is merged for master devices.

Add each event to the master's MH as well as to the SDs. In the MD, store min/max and the actual value. When retrieving the MH, rescale all coordinates to the current coordinate range and only post those valuators that are currently active on the device.

dix: Allocate MD's motion history to be large enough for potential valuators

Since we can't predict how many valuators may be in a future SD attached to an MD, we need to preallocate a history buffer that is large enough to keep MAX_VALUATORS coordinates per event.

In addition, the history buffer needs to memorize the coordinate ranges at the time, thus requiring MDs to store (min_val, max_val, current_val, time) instead of (current_val, time) for each motion history entry.

This commit only fixes the allocation.

Remove GetMotionProc from ValuatorClassRec.

With the MD/SD device hierarchy we need control over the generation of the motion history as well as the conversion later before posting it to the client. So let's not let the drivers change it.

No x.org driver currently uses it anyway, linuxwacom doesn't either so dumping it seems safe enough.
Xi: reset motion history when swapping device classes.

This isn't really the correct solution, but it'll have to do until I figured out how to transfer the history over correctly.

commit 29586101dc11d498b212510f88dedbfe87f8d859
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat May 24 20:01:41 2008 +0200

EXA: Only record damage generated by rendering operations.

Recording damage from other operations (e.g. creating a client damage record) may confuse the migration code resulting in corruption.

Option "EXAOptimizeMigration" appears safe now, so enable it by default. Also remove it from the manpage, as it should only be necessary on request in the course of bug report diagnostics anymore.

commit f6d61d3d86971d6a202b46ff2fab8c8799a4d057
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat May 24 20:01:36 2008 +0200

EXA: Don't migrate twice in exaImageGlyphBlt.

exaPrepareAccess already handles migration.

commit d73304398255e0c3b03a497a8d4a2f8d900eef44
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat May 24 20:01:31 2008 +0200

EXA: Don't suggest exaCopyDirty be inlined.

Leave the decision to the compiler toolchain.

commit 3baf3b42e079b4e7b61c1e20df305d0724d21f8
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat May 24 20:01:21 2008 +0200

EXA: Specify region used for source pixmap migration in exaCopyNtoN.

Avoids excessive migration overhead in some pathological cases. See http://bugs.freedesktop.org/show_bug.cgi?id=15845.

commit ba557e0f263e66e0b75847c596f31c71492611b22c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sat May 24 17:23:10 2008 +0930
Xi: remove deprecated comment.

Axis clipping wouldn't be necessary here, it's already performed in GPE.

commit e6cbb1e11e5da1a8b9001853c25f4e5a052e7110
Author: Julien Cristau <jcristau@debian.org>
Date:   Fri May 23 23:00:40 2008 +0200

xfree86: fix build on GNU/kFreeBSD

GNU/kFreeBSD defines __FreeBSD_kernel__, but not __FreeBSD__. Unify preprocessor conditionals between variable declaration and use. Debian bug #482550.

commit 6c72961d8fa1ab1543f1b3e2cc7d34ff6d254bf8
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri May 23 22:39:35 2008 +0300

glx: fix memory corruption with r5g6b5

should cherry-pick to xserver-1.5

commit 21a8052fdca2115668dfc747b0b58db437b4eb6d
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri May 23 22:39:09 2008 +0300

glx: fix forgotten swrast -> SWRast

commit 877e6c35ff1f0f110627590ac0f12fddf47de506
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri May 23 22:38:36 2008 +0300

glx: missing swrast is fatal

commit 1345c93ad4be875951256dae87bc4fd9a1b5e08a
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri May 23 22:38:11 2008 +0300

glx: drop stray glcore.h include

commit ae0504d34d245f15b2f098a63ad1a9e1c4daef35
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri May 23 22:40:03 2008 +0300

kdrive: need not export symbols for glx anymore

commit 7082929ef7db20b507dce5a8cecc043e787d0b55e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 23 02:27:58 2008 -0700

XQuartz: A 2 second delay for launchd socket connections should be sufficient.
(cherry picked from commit 2bb4251b3c6b30dbf1a556e1b51e6f03f02d2529)

commit 5a388b27a094c71b4214aa744b2ba0fdda7fd607
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 23 02:10:14 2008 -0700

XQuartz: Add the launchd fd to AllSockets as well
(cherry picked from commit 83f72529394be5871671d73b6ef4f8be83708f8a)

commit 77b688a73025238ed9fe286a2bae8f78da65f3e3
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 23 02:32:28 2008 -0700

XQuartz: Don't need launchd checking in configure.ac anymore since its functionality has been removed from
libxtrans and into the mach startup code.
(cherry picked from commit 1e1f4fb717d2f3a3227be2a034d28d6a4f29bb5d1)

commit 225ddbaed4d64f0cc104da538449e5c4deddd2d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 23 01:39:02 2008 -0700

XQuartz: Move the launchd display grabbing into mach_startup
(cherry picked from commit c3866ec98d23020d215977ee1177b6054d0532e)

commit 3a22190061c7ebeefe85564b0defe1112c07ae8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon May 19 03:13:09 2008 -0700

XQuartz: Fixed a few issues with fd passing... still not working =(
(cherry picked from commit 7dd351271522b475d8017e4bd1618f12817e2fa)

commit 3ae0f4fc832462444d030245fbb867f19d5e960
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 23 15:02:43 2008 +0930

dix: update valuators > 2 as well.

master->last.valuator[x] for x > 2 is undefined. For all other devices, it's
the respective device's last valuators.

If the lastSlave did not have a valuator that is to be updated now, it is
reset to 0.

commit 0d1b41ace38be918e2cc2a0a6a107c76346fd00
Xi: update device valuators based on the event.

Event is always absolute, update the device's valuators (always absolute too),
and then change the deviceValuator event to reflect the device's reporting
mode.

commit 7eecc23a34591064ea64499acb24f22ada08dfa
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 23 13:32:33 2008 +0930

dix: don't allow relative data in deviceValuators.

In GPE, we don't care about the device mode. Let's put the absolute values
into the deviceValuator event and worry about relative valuators on the other
side of the EQ.

commit 75551a2ef949c2cfe5f36dc49b7f3964a5e2f45f5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 23 12:55:50 2008 +0930

Revert "dix: Correct values in the device axisVal are calculated in GPE"

We can't rely on GPE to update device->valuators->axisVal. If a SIGIO occurs
during event processing this may have incoherent results.

This reverts commit f6645ddbf754c80e9a8b1672519534a887622270.

commit fe59b1a62b2c7f467d20132db4913317bbf308eb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 23 12:51:52 2008 +0930

dix: more device scaling insanity.

Assuming master->last.valuators is in screen coords, SD's are always in device
cordinates.

1. If an event comes in, scale masters->last to the device, drop into device's
   last->valuators.
2. Apply motion from the actual event
3. Scale back to screen coords, check if we may need to cross screens
4. Drop screen coords into master->last
5. Rescale to device coords, drop into deviceValuator event and SD->last
6. Drop screen coords into ev->root_x/y

Whoopee...
input: instead of lastx/y, use a last.valuators[] array on the device.

During GetPointerEvents (and others), we need to access the last coordinates posted for this device from the driver (not as posted to the client!). Lastx/y is ok if we only have two axes, but with more complex devices we also need to transition between all other axes.

ABI break, recompile your input drivers.

commit fb146cbb0f28e4e480e5d16d61476ac46b5d00ce
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 23 12:00:13 2008 +0930

dix: coreEvents doesn't have meaning here, use master instead.

We mustn't clip x/y if we are attached, otherwise we can't change screens.

commit fc1cc0adcb91fd1fae547bf379a85f9558e0f59ff
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date: Fri May 23 00:33:18 2008 +0200

dix: Cleanup of GetPointerEvents

Changed all the checks for x&y valuators so the more complex calculation is only made once.
Added TODOs for valuators/axis 2 and above for future correct handling of relative reporting of these.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit a0241d5380bb5d8b10865f8ea81a9a0111de4aaf1
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date: Fri May 23 00:36:11 2008 +0200

dix: Correct clipAxis so it can handle devices with value ranges properly

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit f6645ddbf754c80e9a8b1672519534a887622270
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date: Thu May 22 23:33:45 2008 +0200

dix: Correct values in the device axisVal are calculated in GPE
Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 7f85acdf70c67c567de688439e25081be5a7d5df
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 22 23:27:15 2008 +0930

dix: fill valuators with the correct values depending on the device mode (GPE)

valuators[] is passed from the DDX. Depending on the device mode, update it with either absolute values or relative values. The deviceValuator event sent to the client will then contain the respective values.

commit 1a3f351c50cba66f71a73239318174b09fd9b63b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 22 23:25:20 2008 +0930

dix: when floating a device, create a new cursor sprite.

This is essentially necessary to allow calls to miPointerGetSprite etc. to work for floating slave devices.

commit e0fbe404a436aeef24624a3a15e8405a9ca38aadb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 22 23:24:29 2008 +0930

mi: handle sprite even for floating slave devices.

We still don't render it, but we accept all the other calls to update it's internal state.

commit 0f15875a271889ae3cc4997ad15f787ea28b3a08
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date:   Sat May 17 19:24:00 2008 +0200

Make all conversion handling in GPE.

This isn't quite finished yet, but at least it gives us the ability to use a tablet as a normal mouse - with all the scaling in place.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 74372fd0049676787904f1f9f80f836b97f5f60e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 22 18:02:10 2008 +0930

xfree86: suspend signals while removing a device.
Getting a keyboard event while halfway through freeing memory can be unpleasant.

commit 30e9a33f7d1972dcf1e29c7455b2cea4e5857913
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu May 22 16:00:21 2008 +0930

- xkb: fix crash caused by uninitialised variable.

commit e837244947fbb18192e9056c070ce439ef24d1a3
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Wed May 21 16:14:55 2008 -0700

- Actually enable building GLX without Mesa source

commit ea4ec9e9983e25d94a3edf8a77ed2ad1db193284
Author: Dave Airlie <airlied@redhat.com>
Date: Tue May 20 13:59:09 2008 +1000

- int10: add pci_device_enable support on Linux

commit 4230b9274d54528f48ddc3b096a265b488053c9
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed May 21 17:58:15 2008 -0400

- Clean up remaining afb references.

commit 20ea99c655140e101f2d20cfab78fbb22765fec62
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 21 17:03:25 2008 -0400

- Death to afb.

Planar framebuffer people, please talk to wfb for all your 1988 hardware needs.

commit c76ffdeea28b4f88db97a2a3487d7a57cd9d578c
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Wed May 21 10:51:15 2008 -0700

- Fix up paths for GL/glx -> glx renaming

commit c3eb5b80d8cc7ca6a425ccf359718d1ef3d5af55
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed May 21 13:33:36 2008 -0400

- Move GL/glx on level up now that it's the only thing left under GL.
Move the windows GL files to the xwin DDX.

Get out of the mesa symlinking business.

This copies over the files generated from mesa/src/mesa/glapi. There's a corresponding mesa commit that makes it easy to generate the glapi files straight into the xserver tree when the XML definitions change.

The only few files that are copied from mesa but aren't generated are glapi.[ch] and gthread.[ch]. Everything in there is technically DRI driver API and the whole setup is still a bit fragile, but it's not a new problem.

The --with-mesa-source configure option is still around since other parts of the server (XGL and DMX - grep for MESA_SOURCE) need that, but for common case of building with GLX and AIGLX support, that option is no longer needed.

Use LD_EXPORT_SYMBOLS_FLAG when linking Xnest.

Drop glcore GLX provider.

Obsoleted by the DRI swrast driver.

Stop symlinking glcontextmodes.[ch] from mesa.
Date:   Wed May 21 18:13:47 2008 +0300

glx: drop drm.h, sareaHandle from swrast loader

commit 255142b61eb73843b16c2afdb95aa4d1f27e4f0d
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Thu Jan 3 17:53:56 2008 +0200

drop xprint remnants: InitGlobals

commit 641ce9c9706ce3cbf726fb3fc9623161bb96ba127
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Thu Jan 3 17:28:04 2008 +0200

drop xprint remnants: xpstubs

commit 5c5a1ea6f8eb11053fd5b99d24eb8024b6d5b218
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 21 21:51:27 2008 +0930

Replace UniSA with full Uni name in Author affiliation.

    Big boss says UniSA isn't unique enough. Who am I to argue?

commit 7509fb498c02fe1cebe4139612b8871ec877c130
Merge: 2ae3bed337 dfb7de6571
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 21 16:25:35 2008 +0930

    Merge branch 'hwcursor' into mpx

commit 2ae3bed33731d800bb28a968e3a1c8066d179740
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 21 15:51:35 2008 +0930

    mi: shut up compiler warning (return w/o a value)

commit 8b3d26f5b6caff1766669de0b0e2100d2dee3f185
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue May 20 12:39:28 2008 -0700

    Short-circuit PanoramiXTranslateVisualID after verifying that the visual actually exists first.

    This allows using PanoramiXTranslateVisualID to test whether a given visual made
    it through PanoramiXVisualConsolidate.

commit 6ff6465931c397f72db27a4fd0ca0dcac0609537
Author: George Sapountzis <gsap7@yahoo.gr>
Add loader for the swrast dri driver.

commit 4056595fc77c20052e226b402e38a2a914dca123
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 20 18:57:31 2008 +0930

xbk: remove superfluous checks in if statement.

commit 925e895b869e461a9e7f135891463c56ee633cd6
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon May 19 18:43:29 2008 -0700

    Restore return type on xf86SetScrInfoModes

    Seems to have been accidentally lost by commit  76943fec860315f3e93539e59a59080b8a7b3e75

commit 7a550cefd9417c22a4397ea4d103ddc347ab1aaf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 20 11:07:39 2008 +0930

dix: shut up two compiler warnings.

commit f9edecd1b53a2e234def9c954a47c4bda2bebc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 20 11:07:17 2008 +0930

    mi: sync declaration and definition of mieqResizeEvents.

commit e73a03d589b47ac9131f3932da7f78d2f7bfb5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 20 10:54:32 2008 +0930

    fb: shut up two compiler warnings.

commit 99d28c3ef37aefe7d88c41e45a650ba248c6958
Merge: fc7e2566cc 0178b6a4ab
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 20 10:20:14 2008 +0930

    Merge branch 'master' into mpx

Conflicts:

    Xext/xprint.c (removed in master)
    config/hal.c
    dix/main.c
hw/kdrive/ati/ati_cursor.c (removed in master)
hw/kdrive/i810/i810_cursor.c (removed in master)
hw/xprint/ddxInit.c (removed in master)
xkb/ddxLoad.c

commit 0178b6a4a4bed0df3e90ba393709ed566105e7c2c
Author: Adam Jackson <ajax@redhat.com>
Date: Mon May 19 11:22:19 2008 -0400

Fix reduced-blanking mode filtering in RANDR 1.2.

If the monitor isn't reduced-blanking (either through EDID logic, or config file setting), then remove RB modes from the default pool. Any RB modes from the driver and config file pools will stick around though; you asked for them, you got them.

commit bb687465d0c5ae033e1c865e6e6a67e01a8b417fb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon May 19 02:45:47 2008 -0700

XQuartz: First stab at SCM_RIGHTS passing the SDISPLAY launchd fd from the stub to server
(cherry picked from commit cccee9dfc9f85c6a635df3b8dd54199b45c4df8)

commit 4b69d22bcb79210225379da2c6fb0cd85ff9a10e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun May 18 23:51:06 2008 -0700

XQuartz: Fixed dropped code in the !XKB blocks, disable XKB support until we figure out a solution for xkeyboard-config
(cherry picked from commit 2a72309c061f7060f80d150791019ce232481462)

commit e997df8cd3c4220e9f0330ebda728c4d1f15df5
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun May 18 23:31:41 2008 -0700

XQuartz: Cleaned up ListenOnOpenFD...
(cherry picked from commit 6fb587d3d5fbbbae9e46edce24d035d1c66d58a)

commit 7fb6728589d9399ecb170500c15f90bf657502d2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun May 18 23:02:12 2008 -0700

New XQuartz icon thanks to Simone Karin Lehmann
(cherry picked from commit c27e0c8f3c5108192362735db8a80b5a9a1cc3a)

commit 4be2104c801340075e030d6d24ce4d8a6d6549
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu May 15 12:26:32 2008 -0700
XQuartz: More work towards Mach-IPC startup... started working on FD passing
(cherry picked from commit 27fb6eacfa16d620801ac3492b25c1e50aec8588)

commit 82e4075d4ba3bea03341c80b754b0f9d2f62a826
Author: Julien Cristau <jcristau@debian.org>
Date: Mon May 19 03:15:11 2008 +0200

XQuartz: More work towards Mach-IPC startup... started working on FD passing
(cherry picked from commit 27fb6eacfa16d620801ac3492b25c1e50aec8588)

commit 7dca84f3ee7265119fb81d598d7d2f7363e25f1f
Author: Dave Airlie <airlied@redhat.com>
Date: Mon May 19 11:16:08 2008 +1000

cursor: don't dereference NULL pointer is devPrivates not yet set.

This fixes a bug on server recycle with ati zaphod.

commit 5af5db5033582a84b616d5c50f4288adb0210459
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat May 17 14:51:09 2008 -0700

XQuartz: Ok, pass XQUARTZ_USE_XKB since it breaks worse without it... but we have issues when we have
the keyboard configs installed... need to figure out what to do there...
(cherry picked from commit 301262b07024ad960f22d99a1267fe137f5c3fce)

commit 2408303d79297385063cae557195bd5fd3698478
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sat May 17 14:56:53 2008 -0700

XQuartz: Added functionality to add a file descriptor to the connection list after the server is already running.
(cherry picked from commit 543c2cd68d1fefa65d4644b860faad7191c6b9da)

commit 01612fe612aa27262f3c8167f52e0376941f1ef
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu May 15 07:08:21 2008 -0700

XQuartz: Disable xkb since it doesn't work after getting xkeyboard-config installed

Need to setup configs for the quartz keyboard
(cherry picked from commit c28fecc621b1803a4d4536afbc724d141de9e6ee)

commit 1d09dea6e5a75420ea4f24f6b5533f0bec3ba28
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
XQuartz: Made DarwinSendDDXEvent a little more robust to context switching during server init.
(cherry picked from commit 5626b0949b1a6bddd2fa3ec2ef53a688084349b87)

commit adc62f62b9f088a6633718989ab61b61e3c1e8e2
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed May 14 01:33:43 2008 -0700

XQuartz: Xquartz stub now can send Mach IPC to start the server.
(cherry picked from commit 55a3bca8ea42f8677897f94bf0a429bdc08c6696)

commit 93c082a060bfa8d2a204c057ec3507a8e08a087
Author: Brad Smith <brad@comstyle.com>
Date: Sat May 17 13:14:31 2008 +0200

OpenBSD doesn't define __x86_64__, simplify tests.

Seeing as this code seems to be specific to OpenBSD I don't think
__x86_64__ should have been added there at all. It appears to have
been added wherever __amd64__ existed before which is wrong. I
think that part of the commit should be reverted but also all four of
the checks should be __OpenBSD__ && __amd64__ instead of two one
direction and two flipped.

commit 895d4e274d2b4638f0e6b838dfee0e543311dba34
Author: Brad Smith <brad@comstyle.com>
Date: Sat May 17 13:05:58 2008 +0200

BSD's also have /dev/urandom.

commit aad1c37b0951eae216ac323c5d8bfe6fbcf096bd
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 16 10:52:41 2008 -0400

RANDR 1.1 compat: remove senseless comparison against the virtual size.

commit 14726b776d6cebb7d864b6ffa7554e1ce5637d5c
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 16 10:51:32 2008 -0400

xf86SetDesiredModes(): Skip disabled CRTC's first thing.

commit 459f34b089aca4f4eee9752600c3a9e4f4e343ab
Author: Adam Jackson <ajax@redhat.com>
Date: Fri May 16 10:48:00 2008 -0400

Fix initial mode selection even harder.
The first guess used to be "is the preferred mode for one output the preferred mode on all outputs". Instead, do "find the largest mode that's preferred for at least one output and available on all outputs".

commit 96111c154713600dd534dd82104ac18b91466202
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 16 10:31:58 2008 -0400

Redo RANDR compatibility output selection.

Old logic was just the first one that happened to have an associated CRTC. The new logic tries to find one that's definitely connected, has probed modes, and has the largest candidate mode.

commit a4bbe1c8bca08f3df5ff7e5044af6ae7ec8b25
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 16 10:25:12 2008 -0400

Re-add sync range inference from legacy setup to RANDR 1.2.

commit f52f6c5c7efc281f9ac204fbaaaf71383df7463d
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon May 5 14:37:07 2008 -0400

Fix hal shutdown crash.

Removing the device invalidates its ->next pointer. Copy it aside before destroying the device.

commit 99e4531f7c3faece065df21f65bad1cf190c3f1
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri May 16 08:16:01 2008 -0400

The great kdrive purge.

Most of these drivers didn't work. ati was the only one that even came close. The igs, ipaq, itsy, pcmcia, savage, sis530, trident, trio, ts300, and vxworks directories have never built since modularisation, so clearly no one can miss them.

commit fc7e2566cc076c0d979f74871bc436df43401058
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 16 16:59:34 2008 +0930

Xnext: fix typo in condition.

Fall-out from dc3aba8a559d4304844ee1cc306c577a63b82762.
We must free the event if it is NOT an extension event.

commit 6fb76acc4524d6af4bfb6bc6d8e62c1ee2bb8baa
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 16 19:22:32 2008 +0930

    mi: remove miPointerUpdate() -> replaced by miPointerUpdateSprite().

    In the xnest and vfb DDX we don't need the call anyway, it's performed by
    mieqProcessInputEvent.

commit dfb7de6571345061d1cd88ab915064fc376529fd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 16 20:56:04 2008 +0930

    mi: don't call from miPointerMoved into the spriteFuncs for anything but VCP.

    Calling ->MoveCursor for anything but the HW-rendered VCP causes the
    SW-rendered cursor routines to be started, including mallocs, etc. Since
    miPointerMoved is called during SIGIO, this is a bad idea.

commit f611719edce2ae51dca8e53947a3938b53c20b00
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 16 19:49:29 2008 +0930

    xfree86: always render first cursor in HW, all others in SW.

commit 48ba58feacedf9781db81c82adbb37197d9a5cd1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri May 16 19:22:32 2008 +0930

    mi: remove miPointerUpdate() -> replaced by miPointerUpdateSprite().

    In the xnest and vfb DDX we don't need the call anyway, it's performed by
    mieqProcessInputEvent.

commit 622d7c1d899a6146773a2ebd1d632a805f24025e
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed May 14 14:49:09 2008 -0300

    Restructure and organize the code.

    It was removed and simplified some conditionals. We don't need test for
    pDev->isMaster inside xf86CursorSetCursor() because only MD enters there.

    In the last chunk, ScreenPriv fields were being assigned without need, so
    that code was wrapped inside the conditional to avoid it.
I also tried to make the indentation more sane in some parts that I touched.

Signed-off-by: Tiago Vignatti <vignatti@c3sl.ufpr.br>

Minor modification, part of the original patch led to cursors not being updated properly when controlled through XTest.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 5af90025fee6a92e7d94642978feed21f902d0cb
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed May 14 02:45:49 2008 -0300

Remove redundancy.

The only function that can set SWCursor before xf86DeviceCursorInitialize() is xf86InitCursor() when VCP and is created.

Signed-off-by: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 9fc94edfe3df4c4a84ad70714c0a4ef8bbf57fc9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 16 16:59:34 2008 +0930

Xext: fix typo in condition.

Fall-out from dc3aba8a559d4304844ee1cc306c577a63b82762.
We must free the event if it is NOT an extension event.

commit 5127942f80983b2e053ddd5c5747d0c3d2f9d6d
Author: Brian Rogers <brian_rogers@comcast.net>
Date: Fri May 16 10:08:04 2008 +0930

DGA: pass nevents to UpdateDeviceState. #15936

Missing parameter caused event processing to go nuts when checking valuators.

X.Org Bug 15936 <http://bugs.freedesktop.org/show_bug.cgi?id=15936>

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 28378d26b4bae377ef1212f6a51da9b5529f1b5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu May 15 11:09:15 2008 +0930

Xi: assemble button/modifier state before updating the device. #15934
The state field of the event must specify the state of the devices before the event occurred. With the code as it was, the state would also include the event (e.g. state from a button press event would show the button as pressed) Gathering the state before updating the device should fix this.

X.Org Bug 15934 <http://bugs.freedesktop.org/show_bug.cgi?id=15934>

commit 7cabf81c8638739a15a1be6baa3fc569f38e7589
Author: Eric Anholt <eric@anholt.net>
Date: Thu May 15 13:24:27 2008 -0700

Add necessary include for COMPILEDDISPLAYCLASS.

Fixes build after 07f69023b0e75d98a4be8f0d1c3dd9391b8149a0.

commit 07f69023b0e75d98a4be8f0d1c3dd9391b8149a0
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 14 16:07:51 2008 -0400

Move defaultDisplayClass to xdmcp-only visibility.

commit 166177e36bfc7bd1df03663ad89500c056d563
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 14 16:02:05 2008 -0400

Simplify default font path setup.

commit 2efe1abb6fc786a4f86464978ae0d23fc7347a98
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 14 15:53:11 2008 -0400

Remove global argc/argv variables.

Was only used in the logging code anymore, and uselessly so there.

commit 6c27b911222cdeee9a057de0be7e8b2eff8b1ff2a
Author: Adam Jackson <ajax@redhat.com>
Date: Wed May 14 15:44:04 2008 -0400

Restore compression of duplicate log file entries.

This undoes the workaround for bug #964, which was an Xprintism.

commit 937e5aae33d3b5112b5d10d605e25f57b48caa3f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 14 22:30:15 2008 +0930

dix: don't undisplay cursor if we don't own a sprite.
Sometimes we didn't have a cursor when coming back from suspend. Reason was that the suspend caused the server to lose the device that was attached to the VCP, and a RemoveDevice() would then set the cursor to NULL.
Solution: only set the cursor to NULL if we actually own the sprite.

commit cb4e80eb7cc8dc2aff5e5265b49cdb7b3c3d5fa
Author: Jeremy Huddleston < jeremyhu@freedesktop.org >
Date: Wed May 14 01:13:15 2008 -0700

XQuartz: More work on the Mach-IPC startup path
(cherry picked from commit 49cd0b185fd6c99b07357a74734b6a4023fa84)

commit 3b57c59cb08c9a3211f4ae57d9e2fb569d61bf2f
Author: Jeremy Huddleston < jeremyhu@freedesktop.org >
Date: Tue May 13 10:40:20 2008 -0700

XQuartz: More work on the new Mach startup
(cherry picked from commit 6237acf75d3310d7d4f262556b677557c2907284)

commit e435acc84cb9477455ad005cee658630cbd363a2
Author: Jeremy Huddleston < jeremyhu@freedesktop.org >
Date: Mon May 12 17:57:07 2008 -0700

Added missing to EXTRA_DIST
(cherry picked from commit e39613f4633ed992be276b70833a703560e528f9)

commit f7d6d20ad64b235700185784d317417a94d1814b
Author: Jeremy Huddleston < jeremyhu@freedesktop.org >
Date: Mon May 12 13:36:35 2008 -0700

XQuartz: Cleaned up the about box.
(cherry picked from commit 0279a5970694937e949ba533330ea48961c4edba)

commit b37e1f1f5ccc5a48df665449b0e31e4d25cc323c
Author: Jeremy Huddleston < jeremyhu@freedesktop.org >
Date: Mon May 12 11:34:06 2008 -0700

Don't need the fink-friendly printf in the DDX anymore.
(cherry picked from commit fe2279440450c795d67ba5a2234b0797d0bfe39c)

commit 68b4f250eef441a3d75e3b9b2665a51d3a1538d6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 14 16:18:48 2008 +0930

dmx: fix build.

Just because it builds, doesn't mean it works.
commit 00db0f35acc00cb771ab1c23f35b0db1c25d81bb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 14 15:29:28 2008 +0930

dix: InitAndStartDevices doesn't need a window parameter.

Lefterover from the old pointer-keyboard pairing code, obsolete and gone now.

commit da728f2127aaa5c1ed5d22bb9f3d0c8ff19e4933
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 14 15:17:05 2008 +0930

dix: don't use serverClient in AddInputDevice, use the one supplied instead.

We pass in the client that wants to create the device anyway, lets use the parameter instead of hardcoding the serverClient.

Wow. I hope this is merge detritus, otherwise it'd be a sign that I didn't have enough coffee that day.

commit a6659291c798f417a76d9aa7944694ff27c01fa7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed May 14 09:42:50 2008 +0930

mi: protect against NULL-pointer dereference.

Required by the recent patch to use a NullCursor instead of UndisplayCursor().

commit 7cde19b29d93bf15cecf6b69e269fab2501bca0
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue May 13 16:39:30 2008 -0700

When XKB fails to open rules file, log the file name, not the NULL file pointer

commit dc3aba8a559d4304844ee1cc306c577a63b82762
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue May 13 14:37:26 2008 +0930

Xext: emulate XI events from core events when faking input.

We need XI events for event processing, so lets get rid of the pure core events ASAP.

commit 8b3802d32041547fd6ed5393a56281c5c83d260e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue May 13 13:47:52 2008 +0930
Xext: core button events have rootX/Y unset too.

commit ed65e8b4f02a6da7f1c5d85984a9ccf6a94d0181
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon May 12 18:49:34 2008 -0700

    Check for strcasestr and workaround it on systems without it

commit 8234af6c6a3ade13f7720743bde79957c7df3f6c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 13 11:17:39 2008 +0930

    xfree86: remove Ubuntu-ism.

    Additional #include was required due to broken libc headers or something like that. Remove it, there's more to the world than ubuntu alone.

commit 59b8d29b3a91c65787dfadb5610342a62e85c48c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 12 21:22:54 2008 +0930

    Xi: Fix up ProcIVector, got out of sync with the protocol.

    When the opcode squash happened in the protocol, the processing vector got out of sync for a few requests. As a result, client and server would interpret requests differently, leading to a couple of BadLength problems.

commit 1fc1a2897e9185838c29d9fff07c39d2fdfe174f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 12 20:14:05 2008 +0930

    Remove UndisplayCursor API.

    We can achieve the same thing by simply displaying a NullCursor, there's no need for a separate API.

commit 913989d643595030e67e7c0a758a16ae0da62ed9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 12 20:05:43 2008 +0930

    mi: don't try to display a cursor for devices w/o cursors.

commit 248a1def63430717550adb0e79068d8f9fcaeb0b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 12 20:05:21 2008 +0930

    render: don't dereference cursor if cursor is NULL.
Bug #14692: Allow drivers to have a say in Xinerama visual consolidation.

Create a new exported global variable, XineramaVisualsEqualPtr. Use this pointer to decide whether two visuals are equal during visual consolidation. This pointer can be wrapped, which allows drivers and extensions to control which visuals are consolidated. A wrapper can reject the visuals without calling down, but must call down and return that result if it deems the visuals equal. This ensures that all layers agree that the visuals are equal.

Pass the screen of the other visual into the VisualsEqual callchain.

Don't free PanoramiXVisuals since we need it for PanoramiXTranslateVisualID.

Don't skip the first visual on the other screen in PanoramiXMaybeAddVisual.

Skip the loop in PanoramiXTranslateVisualID if screen is 0.

Fix fbdevhw initialization for PCI drivers.

graphics/fb%d, not graphics:fb%d. Thanks sysfs. Thysfs.

X n'est pas une print API.

XQuartz: Added some version checking protection so we don't trigger an infinite exec loop with new /usr/X11/bin/Xquartz and older X11.app

(cherry picked from commit 78032815aeb10c22ff45b49702e9c9df82ab471c)

XQuartz: More startup work... listen if we're the actual server
(cherry picked from commit 3b0afb47c3d8ad922cb2315ed8034f4d77d4a249)

commit a7800d9355377ac02833613c2ffe2423beec9970
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri May 9 16:44:31 2008 -0700

XQuartz: Starting to work on the new Mach IPC startup stuff for better launchd, ApplicationServices, and Dock support
(cherry picked from commit 9b67fca9b7d3050d3d5582a5210270db7eb2ed05)

commit 04211c3532ca078420e3745a5eac3d9de120bc32
Author: James Cloos <cloos@jhcloos.com>
Date:   Mon May 12 03:03:13 2008 -0400

Prevent the -wm command line option from causing a SEGV

The -wm (when mapped) option for the BackingStore support has been causing the server to dereference a NULL pointer.

This has probably been the case since backing store has been implemented on top of Composite.

It looks like (some of?) Composite didn’t expect its WIndowPtr argument to be the root window.

In Composite’s compCheckRedirect() function we now avoid calling compAllocPixmap() and compFreePixmap() when the pWin pointer’s parent member is NULL, as is it the case with a server’s root window.

This addresses:

https://bugs.freedesktop.org/show_bug.cgi?id=15878

commit 7e768c08f7809b8dba4db1931e63314e2b6e1cfa
Author: James Cloos <cloos@jhcloos.com>
Date:   Mon May 12 02:53:59 2008 -0400

Clean up whitespace

commit 3b6735528efc6d69ab7a7cd63dd09c87db7ef115
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon May 12 16:36:42 2008 +1000

pci: don't do this pci stuff when we don't have hw access

commit 9dfb525f6c91acab5d1a65765a046b99ee2aa082
Author: Julien Cristau <jcristau@debian.org>
Date:   Sun May 11 23:17:27 2008 +0200
kdrive: allow disabling Composite

KdInitOutput() used to enable Composite when it was disabled by default, but now this hack prevents \`-extension Composite\' from working. Remove it, as Composite is enabled by default anyway.

commit 1a01e96c6d15ef17a8b5ab1afa361fb12476a25e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri May 9 15:38:44 2008 -0700

Return a valid X error when stuck in font alias loop

Part of fix for Sun bug 4258475

commit 7b3066d9b9099135d9e49e0682161d5568fc355b
Merge: 2a3d1421e0 315f089056
Author: Drew Parsons <drew@emerall.com>
Date:   Sat May 10 00:01:15 2008 +1000

Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver into upstream-experimental

commit 2a3d1421e0cc18822ae8f478fccc272e16a9e9340
Author: Drew Parsons <dparsons@debian.org>
Date:   Fri May 9 23:20:11 2008 +1000

Disable D-BUS from Xprint.

Use dummy config functions to replace those from config/config.c, and therefore do not link Xprt with $CONFIG_LIB.

Works around an endlessly spinning loop in dix/dispatch.c::Dispatch()
(WaitForSomething() not waiting) when built with dbus, which was causing Xprt to use 95% cpu.

commit 315f089056da67d4c463ed002eb2b74e38493b49
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu May 8 19:46:03 2008 -0700

XQuartz: Reorganized some of the build system in prep for the Mach IPC startup work.
(cherry picked from commit 2232e91d5c277673929eab2abb5e0495c00877cb)

commit 28ac79450c69219dc501e072c6e5028e7136380d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu May 8 19:47:40 2008 -0700

Updated .gitignore for new Xquartz layout
commit a07c5ad172b343ef26d2b41ff25f143950441c23
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu May 8 16:57:42 2008 -0700

XQuartz: Set bundle version to 2.3.0
(cherry picked from commit 8a0524b30e1e860f3ae35741c116fc8da28ae7f9)

commit 05f23ed3ea6ee0f052aee41b6573325fe0063fd8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 6 16:12:41 2008 -0700

XQuartz: Fixed some issue in our bundle creation
(cherry picked from commit 330ffad5477e32c5ab9ed338bc628bd5ae9f4e98)

commit 90b963c0da2b33bdc21483f1a089b95c7e717333
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 6 16:07:33 2008 -0700

Set CSRG_BASED on OSX
(cherry picked from commit ff085deba18682caa2f93d61a75b38db87d747b1)

commit ff013b0da4e6d33b2b69ce1212e9b6d62050574e1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 8 16:58:31 2008 +0930

cfg: override xkb_{r,m,l,v} with Xkb{r,m,l,v} if the latter is set.

The HAL spec says that input.xkb.{rmlv}* can be sent, but if the user
specifies a X-specific {rmlv}, then this is overridden through the use of
input.x11_options.Xkb[RMLV].
However, the way how the server parses options--by ignoring capitalisation,
underscores and spaces--the HAL and the x11_options would override each other.

So we simply filter the options, letting Xkb[RMLV] override xkb_{rmlv} and
only actually add them to the device after parsing _all_ options.

* rmlv ... rules, model, layout, variant

See Bug 13037 <http://bugs.freedesktop.org/show_bug.cgi?id=13037>
(cherry picked from commit fc35d1e3be201e3821413bb2eeb8d43e1e56ba17)

commit 901978ebe0f446532255701cd536e246e805a55b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 8 14:05:56 2008 +0930

cfg: remove trailing whitespaces.
It makes my vim look ugly. Put "let c_space_errors=1" into your .vimrc.
(cherry picked from commit 1f54c05cf8a6b82e5fc6362f7f8e8fde2444b9e8)

commit 1c54c148895225e4ab3c781fe57d09e5f64353aa
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri May 9 00:26:16 2008 +0300

    Revert "GL: Make errors non-fatal"

    Turns out this just caused segfaults further down the line. Oops.

    This reverts commit 268d61e00cf4be52c05f19eda7ab4f6acce12c8.

commit f17ba5d5849c92603f453195aca384844ca76d74
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 8 16:04:24 2008 -0400

    Bug #13104: Remove broken XAA a1 glyph fast path.

commit ddaecfa13cefee7c66b39b0606c8640e6544d4943
Merge: 9e2e0871cf cf20df39cc
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu May 8 14:33:58 2008 -0400

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit fc35d1e3be201e3821413bb2eeb8d43e1e56ba17
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 8 16:58:31 2008 +0930

    config: override xkb_{r,m,l,v} with Xkb{r,m,l,v} if the latter is set.

    The HAL spec says that input.xkb.{rmlv}* can be sent, but if the user
specifies a X-specific {rmlv}, then this is overridden through the use of
input.x11_options.Xkb{RMLV}.

    However, the way how the server parses options--by ignoring capitalisation,
underscores and spaces--the HAL and the x11_options would override each other.

    So we simply filter the options, letting Xkb{RMLV} override xkb_{rmlv} and
only actually add them to the device after parsing _all_ options.

    * rmlv ... rules, model, layout, variant

    See Bug 13037 <http://bugs.freedesktop.org/show_bug.cgi?id=13037>

commit 1f54c05cf8a6b82e5fc6362f7f8e8fde2444b9e8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
config: remove trailing whitespaces.

It makes my vim look ugly. Put "let c_space_errors=1" into your .vimrc.

commit 1a314a1ef06222977e7ccb94331ce31c17534b2a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu May 8 13:16:48 2008 +0930

Revert "config: deprecate (and ignore) the use of input.xkb.whatever options."

daniels:
"Hrm, I'd prefer to have input.xkb.{m,l,v,o} be the primary keys, and have input.x11_options be a backup for that, rather than the former being deprecated, for the reasons I listed earlier ..."

see http://bugs.freedesktop.org/show_bug.cgi?id=13037#c51

This reverts commit 26188875de1ccc84ac60bfb251e3ec43de2b9e22.

commit cf20df39cc78203d17b99223908af388ecbf7d0e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed May 7 22:24:19 2008 +0300

XKB: Actually explain keymap failures

When something went wrong building a keymap, try to explain to the user what it actually was, instead of the dreaded 'Failed to load XKB keymap' catch-all.

commit 641a5f955b7b3ae04eeb6bc45fb30b6b531898e4
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed May 7 22:29:04 2008 +0300

Build: Ensure xf86DefModeSet.c ends in an empty line

This shuts up a warning.

commit 268d61e00cf4bc52c05f19eda7ab4f6accee12c8
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed May 7 22:28:45 2008 +0300

GL: Make errors non-fatal

GLX, there's more to the world than just you. If you fail to load the software renderer, don't bring the entire server down.
The error path probably needs better testing on this one, but it seems mostly okay to me.

commit 9e2e0871cfbe54e73eecc1f790a7e383d08555055
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed May 7 13:21:26 2008 -0400

Bug #13104: XAA: Adapt to glyph storage changes.

Glyph bits are now stored in a proper pixmap, not just hanging off the end of a GlyphRec.

commit 26188875de1ccc84ac60bfb251e3ec43de2b9e22
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 7 13:13:57 2008 +0930

config: deprecate (and ignore) the use of input.xkb.whatever options.

These options are still sent by some HAL implementations (e.g. HAL on FC8),
and may overwrite the options set in the x11-input.fdi file.
For a more detailed description of why see Bug #13037, comment 42.

X.Org Bug 13037 <http://bugs.freedesktop.org/show_bug.cgi?id=13037#c42>

commit b6a0c6d4864f73a18beb841b16e9be56f2fcd77e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue May 6 17:06:34 2008 -0700

Allow using libmd instead of libcrypto for SHA1 hashing in render/glyph.c

Builders can force one or the other by passing SHA1_LIB & SHA1_CFLAGS

to configure

commit 718652eaf9221e00eeec2c971dd7baa97f827451b
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue May 6 17:52:37 2008 -0400

Bug #13104: Don't let XAA glyph pixmaps anywhere near video memory.

Since glyphs are stored in pixmaps now, they can make their way into VRAM,
which invalidates a bunch of fast-path assumptions in the XAA code. Thus
you end up doing color-expands or WriteBitmap from la-la land and your
aliased glyphs go all funny.

Since XAA isn't ever growing the ability to do sane glyph accel, just force
glyph pixmaps into host memory by catching them at CreatePixmap time.

commit a85d3ac87cc354093bb1e88697c44254e7721bb9
XQuartz: Fixed typo
(cherry picked from commit 56b7988d2662ca4d31094695b414080e4470ed4)

commit 077ced6384abad78253e857091e78f3685965b9d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 6 02:47:03 2008 -0700

XQuartz: Added uncommitted files
(cherry picked from commit e414ec462cfc63f8eb7f504f526f5a2c73f51e69)

commit 80e502c5d1f7e9221c6ae40716d6402fd28d8806
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 6 02:28:36 2008 -0700

Fixed up dist
(cherry picked from commit f225222ba2bf4f03425107f258d60b73c88efaec)

commit 7295e544332b0fa929f651304f9d4aca3db4a33e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue May 6 00:06:19 2008 -0700

XQuartz: Move server bits into bundle and setup stub in /usr/X11/bin/Xquartz in prep for startup rewrite
(cherry picked from commit 453a982e6382cff06ea27abba225440b07068f50)

commit d41d677ab4118e73140ea2392e0d48eb361af1cf
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Mon May 5 20:55:08 2008 -0700

Xquartz: experimental embedding of Sparkle.framework
(cherry picked from commit b7a1a640ce8c69442859cbf89034ad362a19684)

commit 9e0d73fd8a43647b648ec5b2f0bcaae30c03259c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 6 17:52:15 2008 +0930

xfree86: call SetCursor for the VCP when switching between SW/HW rendering.

We need a manual call to SetCursor when we switch from SW to HW rendering and
the other way round. This way we display the new cursor after removing the old
one.
In addition, we only update the internal state for the VCP's sprite. This way,
when we switch back to HW rendering the state is up-to-date and wasn't
overwritten with the other sprite's state.

The second part is a hack. It would be better to keep a state for each sprite,
but then again we don't have hardware that can render multiple cursors so we might as well do with the hack.

commit e4ebfed1785597b48b68e1bbdde3e5c4061b749f
Author: Dave Airlie <airlied@linux.ie>
Date:   Tue May 6 16:46:37 2008 +1000

xf86edid: fix typo in debug output

commit b9e1a57e7a98dea63cd362f714411547e728a85a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 6 14:51:23 2008 +0930

xfree86: switch between to SW cursors if more than 1 sprite is available.

Switches back to HW cursors when sprites other than the VCP are removed.
The current state requires the cursor to change shape once before it updates to SW / HW rendering (whatever is appropriate), e.g. by moving into a different window. Until this is done, the cursor is invisible.

commit 3df88c17e315b5ae580096e4bc88920d1f452e83
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 6 11:50:20 2008 +0930

xfree86: re-enable hardware cursor (for a single cursor)

This commit enables HW rendering for cursors again, but only for a single cursor. Other cursors can be created, however they will not be visible.

commit 6acc2acd0db2826add7c47e94e4061d169a41f88
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon May 5 15:32:26 2008 -0700

Rootless: mi doesn't let us resize root, so we need to do it ourselves...
(cherry picked from commit c1ec36e28cff857664090cc8792db1ae93b783fa)

commit efa65a0317e12e9ad34fa00fe90bf5eae9fa2670
Author: Keith Packard <keithp@keithp.com>
Date:   Sun May 4 21:52:58 2008 -0700

Rework composite overlay window code to fix several resource management bugs.

The composite overlay window code had several misunderstandings of the workings of the X server, in particular error handling paths would often double-free objects. Clean all of this up by using resource destruction as the sole mechanism for freeing resource-based objects.

commit 6c1acccce87e9bd640c1b4bbec49bae7d44b1ce97b
Empty the borderClip of manual redirect windows. (bug 15823)

Thanks to Owen Taylor for root-causing this one.

If a TreatAsTransparent window has any area in the borderClip, that will be added to the totalClip region for use by other windows. That's wrong. Instead, simply empty the borderClip for TreatAsTransparent windows right up front.

Xephyr: Handle depth 30 and reject higher depths rather than crashing.

XQuartz: Fix mouse input offsets earlier since GetPointerEvents does not like negative (x,y) values (cherry picked from commit 8d9eb3a2ce59555cc2698fdecb1fa6ed12b2aad7)

XQuartz: Avoid a possible crash at startup due to unfavorable context switching. (cherry picked from commit ff10c37bd09656cf2f7ee9577f5552caa1f2db8)

xfree86: don't try to repaint the cursor before cursors exist.
commit a338007be6fd4302af012109d959f43ac7eab2b1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu May 1 18:02:59 2008 -0700

XQuartz: Adjust the screen origin offset properly for multimonitor setups
(cherry picked from commit f2020b9836baced0593ac0b4e8541e32714ab02a9)

commit 8e56fd9728d63a7a48ef44503425c6e25c7c9f1b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri May 2 10:22:06 2008 +0930

dix: continue to check for invalid valuator ranges.

In an ideal world, the drivers would init all axes with NO_AXIS_LIMIT. In the
real world, this is an ABI break, so let's just leave the old check in.

commit 3b8d53452cd6c74d32d7759964a7cd9ee775f161
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu May 1 15:10:52 2008 +0200

EXA: Fall back in CompositeRects if the driver can't accelerate Composite.

Fixes http://bugs.freedesktop.org/show_bug.cgi?id=15780 .

commit 01c61f3d3972fc2f4e5bb536dd00d8b6bbbeb0fb3d
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Thu May 1 01:02:39 2008 -0300

xorgcfg: Fix a crash if xorg.conf doesn't have a Files section.

This patch only creates a Files section if required, so if no entries are
added, an empty Files section will not be created.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 6899ff81e8f668382a3e2f9afdd9cdef51d0e0f7d
Author: Paulo Cesar Pereira de Andrade <pcpa@mandriva.com.br>
Date: Wed Apr 30 16:38:42 2008 -0300

Fix an off by one read error in drmSIGIOHandler().

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit ec0419b50534006a27227b79ee51538193661cb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Wed Apr 30 17:30:57 2008 -0700
XQuartz: Moved some relevant stuff from darwin.h to darwinEvents.h
(cherry picked from commit 1fcf74a436f2e19cceb3f285b89859025d94c040)

commit 28d1e21f1523d475eb757d3cfa33737ed62e534d
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 30 17:30:32 2008 -0700

Dix: Cleaned up sanity checking in Get{Pointer,Keyboard}Events

XQuartz was crashing because the Appkit thread was trying to GetXXXEvents while the Xserver thread was exiting.
This adds some more sanity checks and avoids that crash
(cherry picked from commit 34ec4bd6acb834c0e3f9a5042a0cc3f52c6f3a68)

commit ce36ae526d88d20ff67cd6cb429fb06f48d231f6
Author: Kazuhiro Inaoka <inaoka.kazuhiro@renesas.com>
Date:   Wed Apr 30 11:58:32 2008 +0300

Add M32R architecture support (bug #10020)
Still needs autotools support, so this won't actually _build_: it's just
a starting point.

commit a0e6a7d4f507c5c0a0b11adb10394af58a0a6e07
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Apr 30 17:57:48 2008 +0930

dix: resize EQ to minimum size to avoid reallocs during SIGIO.

When a new device is added, calculate the event size needed if a DCCE event is sent and set the EQ's event size to this minimum. This avoids reallocs when an event is sent (which may happen during a SIGIO).

commit b71b51c982706501b6229532ce342752207426bb
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Tue Apr 29 23:23:37:58 2008 -0700

xquartz: created darwinTablet, to represent tablet events
(cherry picked from commit 50641bce730ee03738fa0c4be8125b34fda556f)

commit 519581b0bab5cc6dac397877da485745f18c2120
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Tue Apr 29 23:00:09 2008 -0700

xquartz: remove unused params from DarwinEQInit
(cherry picked from commit 299a056737168ca1faefd675dce6d6ab13176be9)
commit d70487a4c09cfefb90d996ab40a23a74b2c15be6f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Apr 29 23:59:26 2008 -0700

XQuartz: Fix to tablet-event handling code; we now scale
more conservatively (to match Linux's Wacom driver) and
we now receive all tablet-related events.
(cherry picked from commit 588683cecca2cf65a28de035cd6ee3d64ff59d2)

commit fea39e94bc8b635d37530d8a27ee92acab484fe
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 30 13:17:14 2008 +0930

dix: fix typo from last commit.

commit ffaccc2dc91f4ca4ea10da010206a0a7d2b5540c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 30 11:45:19 2008 +0930

input: replace -1 as default axis limit with NO_AXIS_LIMIT define.
This allows easier refactoring of the coordinate limit handling. Grepping for
-1 is boring.

commit 00acb40f2bc5bb4a1977b9b08db75630677ff78c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 30 11:29:03 2008 +0930

dix: fix typo in clipAxis.
Check needs to be (min_axis < max_axis), not (min_axis < min_axis)

commit f65a1a62f9eac2f6620d5d469dbf6c79b2eadab7
Author: Hong Liu <hong.liu@intel.com>
Date: Tue Apr 29 09:00:11 2008 -0700

Keep rotation wrappers in place while transforms are in use
LeaveVT/EnterVT cycles will free/realloc shadow frame buffers. Because of
this, the presence/absence of that data is insufficient to know whether
the screen function wrappers are necessary. Instead, the 'transform_in_use'
flag should be used.

This patch also adds 'xf86RotateFreeShadow' for drivers to use at LeaveVT
time to free the rotation data; it will be reallocated on EnterVT.

commit 18b33dd4ff46f63bad70b493b1d0b0758c961ada
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 15:24:55 2008 +0930

Xi: stop excessive use of _X_EXPORT.

commit 2b179c32ac40f5258d95ae16da96a79fa8eea696
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 15:15:16 2008 +0930

    include: add declaration for CopyGetMasterEvent to shut up compiler warning.

commit ff36753755360aaa16ab8604a0ab78123884b57d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 14:53:41 2008 +0930

    mi: call the custom event handlers for both MD and SD.

commit ec2fca7e6f7ce8fd33d959b7adeaae935ec4b37
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 14:40:44 2008 +0930

    xfree86: DGA needs to call into Xi.

    Two steps: first use UpdateDeviceState() instead of replicating the device
    changing code. And emulate XI events instead of core events.

commit 8208b842b7dd3b30bafdd74147bd9a63be00cc40
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 14:19:42 2008 +0930

    Xi: add IEventBase global variable. Stores event base for X Input events.

commit 46340b740640b76b52b8e69bc679201c7e974c3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 29 14:17:48 2008 +0930

    Xi: change UpdateDeviceState to be _X_EXPORT.

commit 3a922c5d07509703a3eeda2bbec6f3323b0ffac
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 28 17:32:54 2008 +0930

    Xi: apply ValuatorEvent data to the device's valuators.

    After UpdateDeviceState, the device has the current position in absolute
    coordinates, the event has the correct valuator data to be delivered to the
    client.
dix: store all valuators as they come from the device in the valuator events.

The event's sequenceNumber is mis-used to determine whether the values are relative or absolute.

commit d5ab89f4f1acbe2614036e8934122185ac0f81ee
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 15:52:24 2008 -0700

XQuartz: Unset CFProcessPath... blech
(cherry picked from commit ce4fbfbc75c62a092214d140c7550279aebe69ef)

commit 0c2312b21b6700c1425baccaf9e26150b4f0fd6a
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 15:28:21 2008 -0700

XQuartz: xprIsX11Window can be called from the Appkit thread (see X11Application.m)
(cherry picked from commit 22cf72437601c07b8a6c744b4f2f14cd6713e60)

commit c3dc4bdbc018c0606d561c2dfb9a36e9297fa312
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 15:42:02 2008 -0700

XQuartz: Disabled DPMS extension
(cherry picked from commit 1448fed9b6d484f471b9b2982c76ca921a9273b9)

commit 07382a70c7ac9807dfb31821a4763bea2309bde6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 12:36:54 2008 -0700

XQuartz: Added thread debugging to xprFrame.c
(cherry picked from commit 41542502b321c697271c1752525b600872b6df96)

commit 8349732a6720652bfbad7874a952be73a0e8c77b
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Apr 28 21:09:35 2008 +0200

EXA: Try to accelerate non-antialiased text via the glyph cache as well.

Treat 1 bit glyphs and masks as PICT_a8 in the glyph cache. We're not able to accelerate them otherwise.

commit a65d530040bb561ba88c5d8c71633a7c0bf11e89
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Apr 28 21:03:12 2008 +0200
EXA: Accumulate glyphs whenever possible, for full benefits of the glyph cache.

commit e7eaac59c424a205dd106fc7d70734ff4b390f28
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Apr 28 21:00:55 2008 +0200

EXA: Glyph cache upload tweaks.

Track damage after using UploadToScreen directly.

Don't waste any effort on empty glyphs.

commit cc08c06665ffe29ad44d023d75d0f86e5338875d
Author: Owen Taylor <otaylor@huygens.home.fishsoup.net>
Date:   Mon Apr 28 21:00:55 2008 +0200

EXA: Use UploadToScreen() for uploads to glyph cache

When possible, use UploadToScreen() rather than CompositePicture() to upload glyphs onto the glyph cache pixmap. This avoids allocating offscreen memory for each glyph making management of offscreen areas much more efficient.

commit 13fd2256300b61d88b840952d838f834523f5dd7
Author: Owen Taylor <otaylor@huygens.home.fishsoup.net>
Date:   Mon Apr 28 21:00:55 2008 +0200

EXA: Clean up debug messages

commit fcb5949928f1c27f67f40c094c3c673786574422
Author: Owen Taylor <otaylor@huygens.home.fishsoup.net>
Date:   Mon Apr 28 21:00:54 2008 +0200

EXA: Fix overlapping glyphs in glyph cache

Allocate each cache at a different vertical position in the per-format pixmap. Fix width/height confusion when choosing the cache for a glyph.

commit 40eb14e9482457969e0bde97c49edad536285e02
Author: Owen Taylor <otaylor@huygens.home.fishsoup.net>
Date:   Mon Apr 28 21:00:54 2008 +0200

EXA: Add exaCompositeRects()
operation: this is useful for building a glyph mask.

commit 54184110f6f3e5d7276d5431e739a4fcf0c3523e
Author: Owen Taylor <otaylor@huygens.home.fishsoup.net>
Date:   Mon Apr 28 21:00:54 2008 +0200

EXA: Use a single large glyph cache pixmap

Add back exaGlyphs(); the new version copies the glyph images onto a single large glyph pixmap and draws from their to the destination surface. This reduces the management of small offscreen areas and will allow us to avoid texture unit setup between each glyph.

commit e9734306088e12f2cd68bf347ecf8415be4f0268
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 11:47:49 2008 -0700

XQuartz: More startup / threading house cleaning.
(cherry picked from commit 72653c24e00dfba64ce35a3d400598bcd77defc1)

commit 4b46fc931e61bec0abd6a86062e46dd7a408e745
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 28 10:50:51 2008 -0700

XQuartz: Updated Localizable.strings
(cherry picked from commit d8d9c866b90fb24ec93bd6e25fa90f8f2bf58ad34)

commit 4017ebe5bfa7a261cd1135801756c44e9fe93ca1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Apr 27 00:01:14 2008 -0700

XQuartz: Added missing Xquartz.man.pre to EXTRA_DIST
(cherry picked from commit 03e707987f7f32e47dd0355c6d16bfb9169a379b)

commit 53dba5381fdd8f644e16aa0cb05df4dc615b23
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 28 11:37:52 2008 +0930

dix: if alloc of a master keyboard fails, remove the master pointer.

commit 1fab51edfc82e1ef60dfa29fd5d93478066a3998
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 28 11:37:21 2008 +0930

mi: guard against NULL-pointer dereference.
Xi: Only return VCP, VCK and floating SDs to Xi 1.x clients.

This is better than the approach implemented with 8973a3f7983240407dd6da59b3643f40e6a3d83a which disabled XI altogether for 1.x.
Instead, return a device list that resembles a traditional XI setup on pre XI 2.0 servers. If the client tries to open a device other than a floating SD, return a BadDevice error.

commit 0bd28315afec3b7223f8ff9f17597db09500a9388
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 26 23:00:42 2008 -0700

Xquartz: Added missing to EXTRA_DIST
(cherry picked from commit f4b963256feb03e9e6b5521bdefeb390e9a49688)

commit ef1c52053755fa14b4ca98b22c506f73f5f4a4b7
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 26 19:21:05 2008 -0700

XQuartz: Cleaned up startup and thread creation a tad.
(cherry picked from commit c861fe00e112b21ee0156d09a6cd5281642a1dce)

commit b114d4e861885ce5b49cd81b33ad825461811b3e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sat Apr 26 17:04:49 2008 -0700

XQuartz: Don't subtract the titlebar off of the pointer_y
(cherry picked from commit 00a9567acce2b27a649cbebd4790e3043688a7d8)

commit 684b5d8382bf0bc6c6cd55774226ee362e81c0adb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Apr 26 19:55:59 2008 +0930

Xi: whoops, stray ! caused a bit of memory mess.

commit 87071b604c4b7c3c79ab784e2c09ff691e2bc5ad
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Apr 26 19:37:57 2008 +0930

Revert "Xi: disable XI for clients < XI 2.0"

Turns out some programs don't like this change. gnome-settings-daemon crashes hard if you tell it that XI doesn't exist. So, tell them we have XI, but leave the other change (the one that pretends no devices are available).
This reverts commit 8973a3f7983240407dd6da59b3643f40e6a3d83a.

commit 7447a30fb27ed50a20a85b5a2de9afe7dea8cfa5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Apr 26 19:03:13 2008 +0930

Xi: if a pre-XI2 client tries to list the devices, pretend we don't have any.

XI 1.x isn't supported anymore, so let's pretend we don't have any devices.
This stops clients from opening them and thus stops interference.

commit 8973a3f7983240407dd6da59b3643f40e6a3d83a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Apr 26 17:48:52 2008 +0930

Xi: disable XI for clients < XI 2.0

Sorry. With the huge changes in the device handling I honestly don't know how
to support XI and XI2 alongside. So let's just pretend XI doesn't exist if a
client doesn't request it supporting XI2.

commit b304b0a65cc57127cdea103f2c5114e4ea79af41
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Apr 26 17:38:55 2008 +0930

Xi: add versioning support.

Remember the version the client sent to us, so we can adjust our replies
accordingly. This requires the client to use the {major|minor}Version fields
in the GetExtensionVersion request. However, they were padding before, so we
must assume they are garbage if nbytes is non-zero. If nbytes is zero, the
client is probably a new client and we can handle it correctly.

commit b9ca7896356f79ee27be5d5a62052f6984282b0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Apr 25 17:54:36 2008 -0700

XQuartz: Added some pseudoramiX debug traces
(cherry picked from commit 5bee1585a399eab0a7b6fc80ad476d81b5d227d3)

commit e251c9e75afdc5e32f2bc9801712272358934266
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 16:49:35 2008 +0930

Remove all traces of #ifdef XINPUT and the matching bits from the configure.ac

commit 1d0438de176551aaeff549664f00b8bd83d465af
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xi: remove RemoveOtherCoreGrabs()

PickPointer() returns grabbed devices, so we can't get a double grab anyway.

commit be5ff2b8d8a392eb8611e1fcd6da4752d68a7f9d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 16:25:13 2008 +0930

Xi: remove some superflous code

commit 0209e46249b61974a6e3ed54a51cc36dfa0064f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 24 23:48:11 2008 -0700

XQuartz: More multi-monitor work... reverted Ben's workaround (worked for side-by-side only) and added more debugging.
(cherry picked from commit 515b88b855ac5d2d5ae881053f73b2ad07a6dd2e)

commit b65dbd350b8518bb90bed9cdc64dd900bc75d20c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 24 21:14:04 2008 -0700

XQuartz: Cleaned up multi-monitor support.
(cherry picked from commit c05abf0a19b0ef0fc4ace9400a095ce2521456bc)
(cherry picked from commit 9112f90434c246d3e797551aaf3a89d2006b23)

commit b093bf3ec37367172be3b44a04f0f43890ba7d7d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 15:15:31 2008 +0930

dix: don't search for grabbed devices, PickPointer does it for us now.

Follow-up to 93ee33830778b9ec85ad81496572677a30022b09.

commit 6198bad07edc51ff4a264a9361c5e9b6c74647a6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 15:02:40 2008 +0930

dix: remove misleading (stale) comment

commit 93ee33830778b9ec85ad81496572677a30022b09
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 15:02:13 2008 +0930

dix: let PickPointer() return devices that are core-grabbed by the client.
If the client currently holds a core grab on any device, this device has priority, even over the ClientPointer.

commit f5ae98f747de921d48f36d4f3f66dbe73e26a67f60
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 14:50:24 2008 +0930

Standardise copyright headers for all new files created as part of MPX.

commit 3fc67b4205851deffcc431a07a885828549bd9cf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 11:37:32 2008 +0930

Xi: remove leftover chpkipair.h file.

Used to contain declarations for ChangePointerKeyboardPairing request handling.

commit 89add4ee986e38b833bb58750b3e5a664efb6f4a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 11:19:12 2008 +0930

dix: remove obsolete InitWindowPrivates().

commit dcdc66f6fcf7957aa7875f74fa3a55989a9a187
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 11:14:32 2008 +0930

dix: add mi.h include to stop compiler warning

commit 97552413d213337e4bff8c89b06d58a09d722b05
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 11:13:05 2008 +0930

dix: remove "unused variable" compiler warning.

commit d9c38e84cc492b931a2238757d438f562946e5bc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 25 11:04:02 2008 +0930

dix: remove pairingClient definition.

This variable was used originally to determine which client is allowed to change the pointer-keyboard pairing. For now, we just let anyone change it and see how that works out.

commit c14b858ae8ed81ff43723644f2de0f5c43f55755
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xi: fix two compiler warnings

unused variable in exevents.c
implicit declaration in warpdevp.c

commit 6015b7a81252cd1729e6f4045f9b0c885e95b183
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 10:41:30 2008 +0930

Xi: handle requests through a dispatch handler.

Same principle as e.g. in the RandR extension, rather than having a load of
if (type == XI_whatever)
use an array of function pointers.

commit cb8cb87bc6decf75832c3724687000ecb658226e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 25 10:09:50 2008 +0930

Xi: remove unused #define DISPATCH

commit 58699e3f5551e7e2d18e6a2f220b77d8c4161db1
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 24 19:39:27 2008 -0700

darwin got /dev/urandom, too yo!
(cherry picked from commit bf0144f38034bc59f108bb2c5270ff37fbe70e10)

commit b1ae7c79db78cc3b789701f81328669f9f8ed80f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Apr 24 19:02:43 2008 -0700

Bug 14247: If pkg-config can't find openssl.pc, just link with -lcrypto

X.Org bugzilla #14247 <http://bugs.freedesktop.org/show_bug.cgi?id=14247>

commit 1daae4574ec19a122baf73b6f9457b0d383b1bce66
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 24 18:22:05 2008 -0700

Added missing HAVE_LAUNCHD to dix-config.h.in
(cherry picked from commit 1b4b73cefcbe2f3e5f6d0cb84ea202f84fb60abb5)

commit 63853e4ad211945ed25541223207a78f8376ced
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 24 18:21:42 2008 -0700
XQuartz: Compile in missing glx source that we still need
(cherry picked from commit c611335dee267e41dcd1733a66bb5206b102f804e)

commit ae982a27e4059feecd4048d245e6aa02f8dcc97d0
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Apr 24 16:37:29 2008 +1000

glx: test for valid read and draw privates before using them
this should fix a bug where f-spot exiting blows up the X server

commit f377141912594f87144d6d7fd7fddd279a101d8e6c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 24 13:30:28 2008 +0930

Xi: don't attempt to send to a NULL window.

Only applicable when the server comes down/restarts. In this case,
WindowTable[i] may be NULL. Let's not try to send an event then.

commit aec485f2dcd87b34767b607dee7931aae5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 24 13:29:46 2008 +0930

dix: NULL out WindowTable after freeing all the windows.

CloseDownDevices() tries to send PresenceNotify events. If the windows are
already freed, then we are accessing dangling pointers.

commit 9ab4e2fd8eaa87db16835affb1aa54dcb1a619e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Apr 23 11:38:08 2008 +0930

xfree86: don't free the config-file related information in DIDR. #15645

In DeleteInputDeviceRequest, leave the conf_idev (which is shared with
xf86ConfigLayout.input) alone for devices that were specified in the
ServerLayout section of the config file. This way, in the next server
generation we are left with what was the original config and can thus re-init
the devices.

This is an addon to 6d22a9615a0e6ab3d00b0beb22f001b6ece02ae, an attempt to
fix Bug 14418.

X.Org Bug 15645 <https://bugs.freedesktop.org/show_bug.cgi?id=15645>
X.Org Bug 14418 <https://bugs.freedesktop.org/show_bug.cgi?id=15645>
commit 7dc40e8eca90ec1bfab84b6f54418b64c0e62d63  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Apr 24 12:47:29 2008 +0930

xfree86: Don't free master devices.

The previous check works in the master-branch, but doesn't work with MPX. We actually copy the SD's information into the MDs public.devicePrivate, so we need to explicitly check whether a device is a MD before freeing the module.

commit cc13f87cd8ac54223fd0b3d3c043de9b9be5a42  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Apr 24 11:43:47 2008 +0930

Xext: XGE: change function definition to have return value on separate line.

This seems to be the common style in most parts of the server.

commit d0890c40b9a9c7965c08608e6950c078a29a1c6  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Apr 24 11:32:36 2008 +0930

Xext: add a few lines of comments to XGE.

commit 745b90cde1007383ec8c887f02439a34ab427f31  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Apr 24 11:27:22 2008 +0930

Xext: re-do the XGE versioning handling.

Basically the same approach RandR takes. Remember which one the client requested, send back the one the server supports. Also divide XGE server version (now defined in geext.c) and the client's version (still in the protocol definition).

commit 5f3e5b3462bb02e828c770d0e1890b5a83d399d42  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Apr 24 11:03:23 2008 +0930

Xext: remove trailing whitespaces in geext.{c|h}

commit d09c520b322ba5c5f4d6b630a7c062e56732f82  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Wed Apr 23 10:22:34 2008 -0700

Moved Apple GL bits into our DDX subtree
(cherry picked from commit c9356f32892978faechb30f7b7af7488820cec37ff)
XQuartz: No need to include indirect.c a second time
(cherry picked from commit 41ed532525da85d1bd2c20af5ffa28ac6d1f4996)

commit 565492c70a280d7e749500c5e0073bdcaf175e86
Author: Ben Byer <bbyer@apple.com>
Date:   Wed Apr 23 09:59:48 2008 -0700

XQuartz: No need to include indirect.c a second time
(cherry picked from commit 41ed532525da85d1bd2c20af5ffa28ac6d1f4996)

xquartz: build fixes for GLX/DRI2 fallout (note: not guaranteed)
(cherry picked from commit 85a5796b667461bf1fafc68c07b3a704cd8e8d5b)

commit 6f6505db51763d902142a8161e71cad44f52560c
Author: Ben Byer <bbyer@apple.com>
Date:   Wed Apr 23 06:00:57 2008 -0700

glx / xquartz: we still need glxcontentmodes.[ch] kthx
(cherry picked from commit 27545fd37f8c703b72f7cfc329778abc1ceabfa0)

commit 4e3a8af5751ff88c0cadd612821b0ef349d250c5
Author: Ben Byer <bbyer@apple.com>
Date:   Wed Apr 23 03:43:51 2008 -0700

xquartz: clean up linker line for main binary
(cherry picked from commit 821d7400f2ff917497b2e58ceef2b69c2d47ec7)

commit 3685b171da51f853bfdb312d36622dfa03ee75be
Author: Ben Byer <bbyer@apple.com>
Date:   Tue Apr 22 23:53:23 2008 -0700

xquartz: remove vestigial aglGlx.c
(cherry picked from commit 40bd0414e2455126fcbdf0831e68619ae0f46ab39)

commit f6e22d69af6bc8f63c3a46535a09e217696a679f
Author: Hans de Goede <j.w.r.degoede@hhs.nl>
Date:   Wed Apr 23 12:28:30 2008 -0400

xquartz: remove vestigial aglGlx.c
(cherry picked from commit 40bd0414e2455126fcbdf0831e68619ae0f46ab39)

commit b05b416c622063b84747702a54ffdd9a802d6fc11
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 23 09:59:48 2008 -0700

Prefer glxvisuals with stencil buffer for default visuals

The first fbconfig which has a depthbuffer > 0 and doublebuf is chosen
when associating fbconfigs with the visuals, indepenent of stencil bits.
This happens to work ok on intel as there all fbconfigs with a
depthbuffer > 0 also have stencil bits.

This patch fixes this by first trying to get a fbconfig for default X visuals
with both stencilbuf, depthbuf and doublebuffering, and if that fails fallback

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This patch fixes this by first trying to get a fbconfig for default X visuals
with both stencilbuf, depthbuf and doublebuffering, and if that fails fallback
to trying to get one with only a depthbuf and doublebuffering.

commit 00effad583713e882c3f2518bcd3da51bf4db716
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Wed Apr 23 17:46:30 2008 +0300

xephyr: XEPHYR_DRI is identical to XF86DRI

commit 6a9f7f28ec455d2879ca1a315ce77c48af49e7f4
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Wed Apr 23 17:46:15 2008 +0300

xephyr: sync with mesa

commit 7f6c68c5cc7108c9e56af25f9f9b4398f5b027df
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Wed Apr 23 17:45:54 2008 +0300

xephyr: libGL is client lib

commit a27c244d72603e27766ff3900ab28fe0947397e
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Wed Apr 23 17:45:37 2008 +0300

xephyr: Makefile cleanup 2

commit d4d19b2f22002b1579438cb9c08dd580c7ec005
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Wed Apr 23 17:45:19 2008 +0300

xephyr: Makefile cleanup 1

commit cdc4571b580a8f4fd279404215b00f0b9a5b4816
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sun Apr 20 17:06:26 2008 +0300

drop TOGCUP remnants

commit 6cd9287aed3c128d9c10b9b042ba7b864143d522
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sun Apr 20 16:58:51 2008 +0300

drop EVI remnants

commit a88c6b66465c039bf92a54a496516fee4d900784
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Fri Apr 18 17:47:16 2008 +0300
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  35968

---

glcore: drop GLcore (files)

glcore: drop GLcore (build system)

glcore: build from mesa, dlopen from xorg

* The GLcore interface is disposable
* GLcore is installed in DRI_DRIVER_INSTALL_DIR which is overloaded for
GLX_PROVIDER_INSTALL_DIR

commit efb723e166e5fa89e90c7b400fb4c7979b1f50c0
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri Apr 18 17:45:53 2008 +0300

glcore: prepare for dynamic loading

glcore gets linked with -ldl, -lpthread for s3tc and glapi
xserver needs

DLOPEN_LIBS - to dlopen the glcore dso
LD_EXPORT_SYMBOLS_FLAG - to export symbols for glcore to use

the ld flag is added to kdrive only when GLX is enabled, the net overhead for
Xephyr is ~155KB, could be reduced with --dynamic-list.

commit fbad87f2ae9f7fcb43546b0fa35ff1100415dfec
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Apr 22 23:50:11 2008 +0200

autoconfig: don't call closedir() when opendir() failed

If opendir() fails, return from matchDriverFromFile() immediately.
Ubuntu bug 217647.

commit 76381092e8f650ec7df058fa4c8a7348893f775
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 23 02:22:14 2008 -0700

XQuartz: Make sure QuartzAudioInit() gets run.
(cherry picked from commit bb3d034675b70e22e78df5554cab0ec2a3d913d0)
(cherry picked from commit 824b31c7f8144af67a320442abd3d854e99d2bfe2)
 xfreet86: pass correct value to mieqEnqueue (merge detritus I guess)

commit c3659cb414ef05da8fa09009b2b82a3dee8b4f3a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 22 21:54:02 2008 +0930

dix: always send FocusIn events if mode is NotifyUngrab.

In the case of a NotifyUngrab, the flag for the device may already be set but
we still need to send the FocusIn event.

commit 00815b3e5223e822f306db45cd4884a22ac9f7ed
Author: Julien Cristau <jcristau@debian.org>
Date:   Mon Apr 21 14:34:39 2008 +0200

Don't set DRI2=yes if we can't find dri2proto or libdrm

commit e77f65768efbf05cdf363a2f41f036f74eaa45de
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 18:07:46 2008 +0100

Reuse the existing framebuffer mode in kdrive/fbdev

When starting up kdrive/fbdev, if the current framebuffer mode is sensible use
that unless told otherwise.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit c4fd1121531b0cba1a3e90fa747871d784365c7e
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 18:05:53 2008 +0100

Add mediumraw support to the linux kdrive driver

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit 455383db95618a05ebdbae78423e08065f0e14e
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 18:04:31 2008 +0100

Enable the epson kdrive driver

Signed-off-by: Daniel Stone <daniel@fooishbar.org>
commit 82b37d35af13a9f402755e167493ab256b664b9c
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 16:38:14 2008 +0100

    Add support for AVR32

commit 20a90bef8b4993f06cf76ad05e3d4c974e1614f6
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 16:37:02 2008 +0100

    Add a default touchscreen path

    When enabling the touchscreen, open /dev/input/touchscreen0 if no path was
    specified.

commit b44e89f4683ffced75eaf39f1f37d7461db44689
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 16:28:39 2008 +0100

    Update to tslib 1.0

    Update the pkgconfig checks to tslib 1.0, and fix the LIBS definitions.

commit 3848422d2354b7a5302fda92b05b0d728190e050
Author: Ross Burton <ross@burtonini.com>
Date:   Tue Apr 22 16:25:23 2008 +0100

    Fix build when XKB is disabled.

commit 744d0cfda74f8283801cc2d6c5eda48402455bc3
Author: Ben Byer <bbyer@apple.com>
Date:   Mon Apr 21 22:06:38 2008 -0700

    add missing DARWIN_GLX_LIBS in configure.ac
    (cherry picked from commit a033c0b3dbb3b963261faa39f0236457cb00ff44)

commit 8190ef87547b0704848231bde10b1cdff6442790
Merge: 179a082c26 2ddbf3d3457
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 22 18:04:05 2008 +0930

    Merge branch 'master' into mpx

Conflicts:

    Xext/EVI.c
    Xext/appgroup.c
Xext/cup.c
Xext/mitmisc.c
Xext/sampleEVI.c
dix/window.c

commit 179a082c26f9e562492ee2e59e7f44f949139f9c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 21:13:10 2008 +0930

Xext: route event through master if required (XTestFakeInput)

commit fb784d99c521823339bf00b70b9824f735d88875
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 20:57:42 2008 +0930

  mi: fix typo in comment.

commit 8209fdbe7c7f2dd068b30ff184b5bf00db78686
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 20:53:57 2008 +0930

  Xext: Update sprite on fake input only for MDs and floating SDs.

commit 2ddbd3f345786aa39b6caed82a1ca5c145284ee3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Apr 22 16:31:44 2008 +0930

  xnest: re-enable XKB support. #10015

XKB was disabled in 08928af8b0500d46b0caaa0a1d1244dec2ed80e86a0, with the comment
"Disable XKB, as we can't yet use it". Seems like "yet" is over, running GNOME
and changing XKB settings seems to work in Xnest now.

  X.Org Bug 10015 <https://bugs.freedesktop.org/show_bug.cgi?id=10015>

commit a8b8700c7345b89953c8b63cb5c347a95e6ab988
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Mon Apr 21 23:44:37 2008 -0700

  XQuartz: Fixed cmd-tab to bring all windows forward.
  (cherry picked from commit e48e2ce931228f4dfa36e39b8ec8c72a58025b1b)

commit a368ab757edf36ed7bbda023673d28883ce11231
Author: Dave Airlie <airlied@linux.ie>
Date: Tue Apr 22 15:13:57 2008 +1000

  GLcore: make googleearth not crash the server on sw-rendering.
I don't think this is the 100% correct answer as I get log spam saying
(EE) DoSwapInterval: cx = 0x98b8998, GLX screen = 0x96dd780
(EE) AIGLX: cx->pGlxScreen->swapInterval == NULL

but thats better than X exiting in my book.

commit 449723510a1f9d024e23d9eb33795cac27f9443e
Author: Egbert Eich <eich@pdx.freedesktop.org>
Date:   Tue Apr 22 13:30:03 2008 +0930

xkb: use the correct device instead of an uninitialised "dev". #15614
X.Org Bug 15614 <http://bugs.freedesktop.org/show_bug.cgi?id=15614>

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit ba87c25321c3378fd1ad0c55dc0af0a6e82a540
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 21 20:03:08 2008 -0700

Make rootless use dixLookupClient rather than deprecated LookupClient.
(cherry picked from commit 582b5b01f9697b66489ea906a2ecb8bfec5915571)

commit 8822110d7d6b684f373fc883aeb7cab9734e9ddb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Mon Apr 21 20:08:05 2008 -0700

Fixed dixLookupClient to work with client=NullClient as it did in the 1.3 branch
(cherry picked from commit e41ccc64702f856e5e09d652fe73c14b8a0225)
(cherry picked from commit ce5a5f93990647de85e535734ee6bb430ad591cb)

commit 5ff6a2fe8db5871eaf26b8535af1588c43f33d3
Author: Ben Byer <bbyer@apple.com>
Date:   Mon Apr 21 19:55:54 2008 -0700

Nuke a call to deprecated LookupClient, and hopefully prevent a
null-pointer dereference, too!
(cherry picked from commit 3d28e9f953709914e18807bc74c241333671c30)

commit 590659b31d89595bdc78ca562ee88df86e9012a6
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Sun Apr 20 22:18:45 2008 -0700

XQuartz: Fixed quit dialog to be more conforming with HIG.
(cherry picked from commit 14c6b837bb03bd0956f90882f550847f13d0ca09)

commit d20b3ac22d960fa44632cc4a14be079daa2d5a33
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Sun Apr 20 22:18:19 2008 -0700

.gitignore: Added Xquartz stuff
(cherry picked from commit 0a9a3bec2de8d1f442493e13cf9f039902a4928f)

commit 570b0dca261920e9b01b4eb11fe9b9987b1c636a
Author: Ben Byer <bbyer@apple.com>
Date: Mon Apr 21 17:52:10 2008 -0700

Fix for pointer-offset issue when using a multi-display environment on X11.app.
(cherry picked from commit 9a7e14286ced55c5e2a4512e2629e03836443009)

commit 3f081b4de55e1378728a24d069bf06575ffca2d8
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Apr 21 11:22:07 2008 +0200

EXA: Set pixmap->accel_blocked on the screen pixmap, too.

commit 26c1801a27b81fd988d5bd210ba0e76ecc274ae
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Apr 21 11:03:27 2008 +0200

EXA: Update sys_pitch/fb_pitch in exaModifyPixmapHeader.

exaModifyPixmapHeader now also only evaluates arguments that have a meaningful value.

commit 4fa89fbe18c929e0d36305ab47e7e17841309fffd
Author: Jordan Crouse <jordan.crouse@amd.com>
Date: Mon Apr 21 12:09:00 2008 -0600

xf86: Change AutoConfig driver for PCI ID 022:2091 to 'geode'

commit 6c95fae1e9d6b0eb64bc78ecd05a6e9f5fa02e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Mon Apr 21 10:45:11 2008 +0200

EXA: Offscreen memory eviction improvements.

* Make sure available areas are considered to have no eviction cost. This seems to help for https://bugs.freedesktop.org/show_bug.cgi?id=15513 but I'm afraid that may just be coincidence.
* Only calculate eviction cost of each area once for each eviction pass. Safeguard against potential (though unlikely) division by zero.
* Cosmetic enhancements: Name eviction cost related variables 'cost' instead of 'score' to emphasize that smaller values are better, update Doxygen file comment to the way eviction works now.
Minor xorg.conf manpage fixups

Use __libmansuffix__ instead of __oslibmansuffix__ which isn't getting replaced, and rewrap some text to get __xservername__ replaced in the description of Option "Accel" (cpp doesn't like the preceding quote).

Revert "Removed XWin DDX"

This reverts commit 6550078b0925f754e3eec3bbce94dbfe5de8c419.

Doctor, I'm starting to get a pulse...

XQuartz: Cleanup turning off COMPOSITE
(cherry picked from commit 8f920fca6f9149185649d52569d33bf81b6c6857)

XQuartz: Cleaned up some casting to get rid of compiler warnings
(cherry picked from commit 6f1c85b96550ad0bc34efb6ca649b87bce1b18c)

Removed XWin DDX

Rootless: Kill off rlAccel
Date: Sat Apr 19 12:54:40 2008 +0200

Removed fbpseudocolor.h from sdk_HEADERS.

commit 5bdc4198795ff0d11bb07cffe3817e4cde87f60
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Apr 19 04:06:19 2008 -0400

Remove fbpseudocolor

"An experimental pseudocolor emulation layer. Not fully completed, currently only works for 16bpp." That was almost four years ago. It still doesn't work, only one driver even attempts to use it, it contains an ad-hoc implementation of damage, and should really be done up in Composite now anyway.

commit 60ff56050b64183cb6e58f54223c8a3ddc2e704b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Apr 18 22:17:53 2008 -0700

Revert "Optimize dixLookupPrivate for repeated lookups of the same private."

The patch was wildly unsafe for SIGIO, and made everything full of crashy crashy fail.

This reverts commit 9b30cc524867a0ad3d0d2227e167f4284830ab4e.

commit ed9dabb47c467dbf49836b631d5d6bda4b0d98b0
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Apr 18 20:30:43 2008 -0700

Last of the spam... I promise...
        (cherry picked from commit 45ebee4f729b148a75e925a4863b4eb850c88f8e)

commit 49f2bb4681fdee9e45f952ef0ac9c34a090117de
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Apr 18 20:25:38 2008 -0700

XQuartz: More sanitization of the namespace
        (cherry picked from commit bc50d41f99db75e925a4863b4eb850c88f8e)

commit c2f0d020b5d7950267aa3df391a7a72b9ae5883b
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Fri Apr 18 20:10:57 2008 -0700

XQuartz: Removed unneccessary include
        (cherry picked from commit 45ff59e69edfcced31cf6e73e381d0f6914)
XQuartz: Handled sanitization of namespace better
(cherry picked from commit 8cb23d672177da919257c885804cecd18c9af88)

random flailing
(cherry picked from commit 7fb9b2dc615a3bd1a3c087438af7a8b88265cfaa)

Death to TOG-CUP.

If you still care about 8bpp visuals that much, fix Composite to provide synthetic visuals.

Remove appgroup mentions from configure.ac

Nuke the MIT-SUNDRY-NONSTANDARD extension.

This extension provided bug-compatibility with pre-X11R6, but has been stubbed out in our server since 2006 to return BadRequest when you actually asked for it.

Finish deleting EVI
Death to APPGROUP.

commit f6617b4127125516583f321c961d70f762f728be
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 18 18:28:01 2008 -0400

Death to Extended Visual Information.

commit 3b93631e59ca4d312d318eac4015e0a79ad6351f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 11:31:54 2008 +0930

dix: remove coreOnly check. Core pointer must generate XI events now.

This flag was only used when an event is generated by Warp[Device]Pointer. Since the VCP now happily generates core events, this flag is obsolete.

commit e0eaf8e5e3fa7a11c087851df93f50f6907c4a5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 10:57:47 2008 +0930

Xext: Let XTestFakeInput update the sprite for XI events.

Since XI devices can have their own sprite now, we need to update the sprite coordinates too when processing an XI event.
Note: This doesn't deal with the device hierarchy correctly yet.

commit cb0168b4ac59cdce6f0a6d89dd9f30d93b5f3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 09:48:06 2008 +0930

Xext: xtest.c: death to tabs+spaces indendation, remove #define XINPUT

commit eebdf69e9a52e071e0467a1f99de135df4d1eabc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Apr 18 09:22:37 2008 +0930

xkb: mixing up src and dst in a memcpy is suboptimal.

commit aa6687322de85a2d1025a3ae851fb290a089b2d3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Apr 15 23:03:06 2008 +0930

Xi: when copying button classes, copy xkb_acts as well.

This should be the last piece in the quest for the class copy.
commit c14f5dc237a31b13d98ae2d0d6143bd91083cf13
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 20:21:45 2008 -0700

XQuartz:Forgot to commit xprEvent.[hc]...
(cherry picked from commit 70e543baf2508d636f01b2b7e8cb05172195b68c)

commit 22bb7608a025a4ec0f442637810b20e2cb0b0820
Author: Ben Byer <bbyer@apple.com>
Date:   Thu Apr 17 17:04:08 2008 -0700

 Added XKB support for Xquartz
(cherry picked from commit 56dc1215202746590dbe8758411f47e8876e1317)

commit 652479dba38470273313dc46f17e3bcb1bc5e383
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 15:49:13 2008 -0700

XQuartz: Moved some rootless-specific cruft into xpr
(cherry picked from commit 31625ce03b58317120c2ac7877e227e2322e1de8)

commit 2a1ba20af98c0e9a6a7f1a50d32058dce9759c21
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 15:23:00 2008 -0700

XQuartz: Use a mutex to ensure we only have one thread calling mieqEnqueue at a time.
(cherry picked from commit 7b087ec965bce9f440ab5233d6383aa4a7de969b8)

commit 55f80d754525398378de1ef28aa562bd29ee750f
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 14:21:31 2008 -0700

XQuartz: A little more debugging output from threadSafety
(cherry picked from commit f6fbd6bf838ab77c3a4635f0b2356b1bb060ff5b)

commit 0d61f6fca1eefeb4f68488e323d1c0508b9b7a711
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 13:17:58 2008 -0700

XQuartz: Fixed some missing prototypes
(cherry picked from commit 95056aafc562cfe58b116f5c36e4624018e79ff4a)

commit dbd4c031565d269ef90af23386ff045ec78688c
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr 17 13:12:56 2008 -0700

XQuartz: Added framework for asserting which thread we're in.
(cherry picked from commit 00beb982510e7a82d77e1f1d43e77c84d7bf74c2)
commit fa0645b452cbebd1800a63f1e95cb77fe4ab211
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 12:27:12 2008 -0700

removed Xquartz debugging code that leaked into master. Our Bad.

commit a3d40f0549f6c6f4fffc286bcaaad758fa92367
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Apr 17 11:56:48 2008 -0700

XQuartz: Include version info for CrashReporter
(cherry picked from commit b4992755c3e29086c5939683c38fa8fd7d2e6754)

commit 6d11712c2a35b243c19eea3b26622d18c2446dbe
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Apr 17 11:06:54 2008 -0700

XQuartz: Use strerror(errno)... cause I like text more than grepping header files
(cherry picked from commit 1b4c37d8f9b517fvec5b94ed4e4a5e86a31472a5)

commit dcf4f917cc9488de72711255bb030d9aa8f8bf
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Thu Apr 17 11:03:31 2008 -0700

merged darwinKeyboard.[ch] into quartzKeyboard
(cherry picked from commit 57bb07320908b74facea0a97822bb19ed6f960a9)

commit 582397cd024e68df65ab9dececd62c40a5a261b
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 02:31:53 2008 -0700

oops, missed a spot
(cherry picked from commit 19872a6aeb8ee9cb0e33e4b4ffdf794e9dbe7e0cf)

commit 0bd1c369c9e05d5a4da5e3fd7033aea8e68460ec
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 02:30:36 2008 -0700

formatting cleanup
(cherry picked from commit 769acad29348abf9e5b0bebfca6ae695d345f3077)

commit 700e14c22616b209867e4ea4d1811e53ca996164
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 02:21:33 2008 -0700

delete debugging spew
(cherry picked from commit f04f3a8b86a91d0cafeb86a0d71aeb0599d685f07)
commit a440eebf2541ae0bb06bf65281b5facflf2f04e00
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 02:21:11 2008 -0700

  add support for horizontal scrolling (buttons 6 and 7)
  (cherry picked from commit f525a4a432ebd0545ad1dd0a7ad84ad3e47e8b61)

commit 612e901ef6aa3edc54b39e55e8040eda0e5ab7b6
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 01:32:56 2008 -0700

  enable keyboard map debugging -- it's going to x11-debug.txt, anyway ... so no harm
  (cherry picked from commit ab6662c736e0654e2b4347091f0d9e87f26034216)

commit 5bdfbfbededcd9ff61cbb0b678cb7ce7889a5826
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 01:29:46 2008 -0700

  dixKeyboard: refactor slightly so that we're not cutting and pasting code from dix, kthx
  (cherry picked from commit a8a090b853e811b9843a5732572cbbe542224f32)

commit 58e42683c9e998f6b8a55d5653b9caec7b6acf96
Author: Ben Byer <bbyer@apple.com>
Date: Thu Apr 17 00:19:56 2008 -0700

  hack to Xquartz to prevent xmodmap from wiping out our valid modmap, per daniels
  (cherry picked from commit cab54466a61281cfafe12825017ec23d720cd75f4)

commit cd3470a0eefbd6b8cecc7e44227b33307c9e227ae
Author: Ben Byer <bbyer@apple.com>
Date: Wed Apr 16 22:48:54 2008 -0700

  kludge: miEqEnqueue wants a device, even if we're passing custom messages,
  so give it one
  (cherry picked from commit a494ff04b2a14470eaf5a23c7cf6dbdea182c6d1)

commit 966ae1781f3ca563e15a91b8cab6fab94e07fe9
Author: Drew Parsons <dparsons@debian.org>
Date: Mon Mar 10 22:54:49 2008 +1100

  Create dix/libXpdir.la for Xprint-specific build of libdix.la
  (cherry picked from commit 4e2c6dbabdbaaaca213fd08edd422de15d0900cc)

  required because of commit 7c0709a736c0f3aa011de67dd2c2962585ab146e,
  which made requestingClient in dix specific to Xprint only.
  Add to XPRINT_LIBS in hw/xprint/Makefile.am in front of
$(XSERVER_LIBS) to override definitions in libdix.la for standard xservers.

Follows 571206832d454771e3c638c7515767958365c19c (providing -DXPRINT to xprint subdirs).

Note it may be possible to restructure the code so that requestingClient is stored elsewhere than in dix. See discussions following http://lists.freedesktop.org/archives/xorg/2008-March/033844.html If this is done it may be possible to revert this commit (if not 571206...).

commit 571206832d454771e3c638c7515767958365c19c
Author: Drew Parsons <dparsons@debian.org>
Date:   Mon Mar 10 13:48:05 2008 +1100

Define XPRINT in XPRINT_CFLAGS (configure.ac)

-DXPRINT had only been set for Xprt in hw/xprint/Makefile.am
After commit 7c0709a736c0f3aa011de67dd2c2962585ab146e it is also required for ps/PsArea.c and PsFonts.c to ensure ‘requestingClient’ is defined, so make it a global Xprint definition in configure.ac.
(cherry picked from commit 28a6719fd486d9a9ccad0b057d9ea7c59c66055)

commit 9b30cc524867a0ad3d0d2227e167f423843ab4e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Apr 17 16:10:10 2008 +0200

Optimize dixLookupPrivate for repeated lookups of the same private.

This gives me a 20% speedup for EXA text rendering, though I still seem to burn quite a lot of cycles in here...

commit 886af8f3849a6f9cfecb63a9695107ce26d7a6955
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Wed Apr 16 16:20:19 2008 +0200

EXA: Avoid some fallbacks in exaCopyNtoN.

In some cases we can still do the copying in hardware even if the dimensions of the pixmaps are out of range. This is true when the boxes that we're to copy are all in the card's range.

commit dc10f0a0e243b7ba38d02a4e2c43027563aead7c
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Apr 17 11:13:47 2008 +0200

Fix composite on !darwin

2ffdb0eb641ab6949783b4eb574f77e7486ac929 changes the default value of
COMPOSITE to 'auto', but doesn't set it back to 'yes' as appropriate.

commit 8716d081fd6f1ddfd956c30aff7697c70507911fd
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Thu Apr  3 16:29:43 2008 -0700

XQuartz: Don't enable rootless accelerated functionality... crashy...
(cherry picked from commit cdb4c291d8c10c3a9ea59d8e79275a30d2ea82b4)

commit 2ffdb0eb641ab6949783b4eb574f77e7486ac929
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 16 21:54:00 2008 -0700

XQuartz: Don't use composite.
(cherry picked from commit 6d3d344b5b95b6dc4166556d03cf8e9576dc3f0)

commit 757a1bf3a3d72e17eeb362f825124c4ba40cc080
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Wed Apr 16 21:48:52 2008 -0700

Xquartz: Don't need to link against rlAccel since we don't use it
(cherry picked from commit 180ec128adeff11a9a90ceai189dc31ac5de8359f)

commit ab8c6a3c5acb2a3bf288f1d6339b09a125bba930
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Apr 14 19:12:00 2008 -0700

Update ac_define_dir macro in acinclude.m4 to 2008-04-12 version

commit b907258ebe62642af088f6e2970a45a68cf48e19
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 16 12:07:51 2008 -0700

Update dolt from upstream, fixing fallback to libtool.

commit e1e189f8538f2b77ae0cf0d846d3899061e4c4b7
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Apr 15 14:49:51 2008 -0700

Include pciaccess in the xorg-server.pc Requires line.

This pulls in the include path for pciaccess.h, which is needed by, among other things, xf86.h.

commit 9e7ced94a5e3a14762fe934aa69da91f0831cf5ca
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Apr 15 12:06:07 2008 -0700
XQuartz: Removed a call to RootlessReorderWindow from the Carbon thread (cherry picked from commit cb27d5ca8230707b276763e0ec20e586203144c9)

commit 51c8fd69ec9292f5e18cdec7f60e1716fbd6ae61a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 15 15:09:40 2008 +0930

dix: free the unused device classes when closing a device.

This also requires to NULL-ify all pointers while we're actually using them, otherwise we'd try to free them twice.

commit 48d33ab9b672b3b3ca308000c6bd573d1e368f9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 15 14:29:53 2008 +0930

dix: float attached devices _before_ disabling the master.

It also helps if we're actually providing the correct argument to AttachDevice...

commit 4cf9e5909d926ec322ed1c7df47f95bd872bb607
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 15 13:56:11 2008 +0930

Xi: fix up button count.

Some leftover code from the previously used alloc/free device classes left us with a incorrect button count. So a button release didn't come through if a different pointer was moved after the button press.

commit 35982bc109d424c464551ab22ec90af69908c884
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Apr 11 11:09:13 2008 -0400

Make DRI2 a serverlayout/serverflags option.

Add xf86DRI2Enabled() to export the value of the setting.

commit f133d85778462134f366389bde7673bf7845fa8
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Mon Apr 14 11:43:51 2008 +0200

EXA: Update pixmaps' accel_blocked field in ModifyPixmapHeader.

commit bb8868540f017b121d698da45e552fbb55a57cea
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Mon Apr 14 09:58:49 2008 +0200
EXA: Teach exaCompositeFallbackPictDesc() about x8r8g8b8.

commit 1a9d7205cd5640eb65f019336097d8f6301942ea7
Merge: 90f491cf8e 6866e84e3c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 14 16:25:58 2008 +0930

    Merge whot@wombat:~/potoroo/xserver into mpx

commit 3e12c5bb67f3049156475d5cbf4e899aad76bb
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Apr 14 11:45:12 2008 +1000

glx: silly nitpick...

    even though i and j are the same, we use i to dereference visuals everywhere else

commit 97565c0f394f16d042c614695c8b7b4ac354f2a3
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Apr 14 11:40:38 2008 +1000

glcore: make visualRating GLX_NONE - note GLX_NONE is not == 0

    Finally glxinfo returns the set of 3 visuals and glxgears works again for me on
    sw rendering

commit c61087c82784633e522bd9392172b43656bdf45e
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Apr 14 10:47:28 2008 +1000

glcore: zero fbconfigs before filling them in.

    I'm not sure this the complete proper solution, perhaps it should explicitly fill
    in ever field.

    This at least makes glxinfo on glcore return sensible information, it doesn't make
    gears work yet though.

commit 6866e84e3c607d00d88eab2249c2619d6707c1a4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 19:57:51 2008 +0930

    Xi: store feedback classes in devProviates system as well.

    This is a follow-up to cb48d880856fd196ab8e8de5eb1f14944a1b4fff.

commit cb48d880856fd196ab8e8de5eb1f14944a1b4fff
Xi: store unused classes in devPrivates.

Rather than freeing/allocating classes each time the device capabilities need to swap, store them in the devPrivates system. When a class is unused, it is pushed into the devPrivates, and later recovered when needed again. This saves us a lot of memory allocations/frees, admittedly on the cost of some memory.

commit fde3c836628b6cdec3e5d107d6b1b99bc88b86912
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 17:08:51 2008 +0930

Xi: copy the KeySyms.map over from the source.

commit 3c4c9938f31755e5a59995fdca138e99db76bbf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 16:52:14 2008 +0930

Xi: Fix pointer handling in KeyClassRec copy.

We don't free the class anymore, so just store the previous pointers, do the memcpy from the SD and then restore the pointers.
Plugs a memleak too, before xkbInfo was never freed.

commit 755f9e5d7898056cf3bead69ce25a10e23995582
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 16:49:25 2008 +0930

dix: Ignore focus for passive grabs if the event is a pointer event.

commit 6faf5b97b92953c331d6540ceb18fd0a77197f6a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 15:42:33 2008 +0930

Xi: fix up modifierKeyMap copying.

Setting it to NULL isn't correct either. The correct behaviour is to realloc it to the size necessary (or newly alloc it/free it). Otherwise we have a memleak.

commit 3106ba1116e3b9d893f66a93e4a91cc61e23226a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 11:48:06 2008 +0930

xkb: two fixes to avoid server crashes.
- map can be NULL in some cases, so don't try to dereference it.
- don't default to inputInfo.keyboard

This is firefighting, I presume something in the class copy may have gone wrong to get a NULL map in the first instance?

commit 415c6df0da1197d487456b4c48e2e28e7ded8b8e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 11:46:44 2008 +0930

Xi: copy feedback classes first, in some cases xkb relies on kbdfeed.

XkbInitIndicatorMap (in XkbInitDevice) calls XkbFindSrvLedInfo. This accesses the devices kbdfeed struct, which is all nice and dandy if it is NULL. When copying the device classes however, kbdfeed may not be NULL and thus XkbFindSrvLedInfo goes on its merry way to do whatever it does.

By copying kbdfeed first, we avoid XkbFSLI to reference the "old" kbdfeed struct of the previous SD.

commit 961f6660902163e99727c2d3c1a039f32b083859
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 09:31:16 2008 +0930

Xi: modifierKeyMap needs to be set to NULL when copying classes.

Otherwise we have a double reference to the same memory area.

commit bf6679c9a40a936d46008c886d204ed521a4971a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 08:28:07 2008 +0930

Xi: copy the XkbSrvLedInfo too when copying device classes.

commit 4219e94c2f7d431be433eceddfe79760a1ee31a1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Apr 13 08:27:31 2008 +0930

  xkb: Add XkbCopySrvLedInfo, deep-copies a XkbSrvLedInfoRec.

commit 1fa4de80f6c697b5e5879cc351fb3e9df6a9be
Author: Matt Turner <mattt88@gmail.com>
Date:   Sat Apr 12 20:39:18 2008 +0200

  Check for __x86_64__ when we check for __amd64__

  It seems Intel C Compiler neglects to define __amd64__, __x86_64__, or
amd64, but *does* define __x86_64__.

commit b1f3f42840ec01db417345a0740b59ad5e4471cb
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Apr 11 17:49:51 2008 -0700

Xquartz: Added applicationShouldHandleReopen:hasVisibleWindows to handle dock icon clicking
(cherry picked from commit 55d9973b053f25bb95b26e00351dc5531caf5b04)

commit eabcfce0a68d504d11be9479f09e66f574dd2f21
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 11 09:51:26 2008 -0400

Stop building mfb/afb/xf1bpp by default.

commit 0dab6fa3582b70ccd0f01459902415c28dcb81ff
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 11 09:47:51 2008 -0400

So long, and thanks for all the cfb.

commit 059b4876e6350aa1110648788cdfbb3f45b4d66d
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Apr 11 09:46:48 2008 -0400

Add dolcompile to .gitignore

commit 6d22a9615a0e6ab3d00b0bcb22ff001b6ece02ae
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Feb 22 11:01:51 2008 +1030

dix: Call DeleteInputDeviceRequest from CloseDownDevices (#14418)

The DDX (xfree86 anyway) maintains its own device list in addition to the one in the DIX. CloseDevice will only remove it from the DIX, not the DDX. If the server then restarts (last client disconnects), the DDX devices are still there, will be re-initialised, then the hal devices come in and are added too. This repeats until we run out of device ids.

This also requires us to strdup() the default pointer/keyboard in checkCoreInputDevices.

X.Org Bug 14418 <http://bugs.freedesktop.org/show_bug.cgi?id=14418>

commit 90f491cf8eb869f27c4278b26c1bb84432b12d63
Merge: cbe01b3083 b4380d8030
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 11 08:29:52 2008 +0930
Merge whot@wombat:~/potoroo/xserver into mpx

commit 3c337e18b933881e22b0d03312511f1d23a8640b
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Thu Apr 10 21:36:19 2008 +0200

Fixed configure.ac for autoconf 2.62.

commit 13dcde6bf994fae09e67c3edce9de42df61ef043
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Apr 10 11:08:49 2008 -0700

Fix dolt to error out on compile error, and not print errors on race to mkdir.

Both of these changes have been submitted upstream.

commit a7e3ad1c6b455bda7c4abb352a20845d1d4574a0
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Apr 10 10:33:11 2008 -0700

Remove NDEBUG (assert() disable) define from the X Server.

A few pieces of code were abusing this define for other purposes, which are
converted to ifndef DEBUG instead. There should be no ABI consequences
to this change.

The rationale is that having the define in xorg-server.h also disables
assert() drivers, which is unexpected, and also difficult to avoid since
xorg-server.h is included in their config.h, and you can't put a #undef in
config.h. As for removing it from the server instead of moving it to an
internal header, we probably shouldn't have unnecessary assert()s in
critical server paths anyway, and if we do we could #define NDEBUG in the
specific cases needed.

commit b4380d8030927c940ddaea83c4cf24e0b9eb7b96
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 19:25:43 2008 +0930

dix: don't free MDs classes on init.

The device classes aren't deleted anymore on a class change, so there's no
need to store the MD's original classes. We should however restore the MD to
 sane defaults when disconnecting the last device, consider this as TODO item.

commit 04df774ffdf727015e3721aae4ea13acc498cd1c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 19:22:59 2008 +0930
dix: Rework Enter/Leave semaphore system.

Instead of a simple counter, use bits to keep track of which device is where etc. When device enters a window (or sets focus), the bit matching the device is set, when it leaves again, it is unset. If there are 0 bits set, then Leave/Enter/Focus events may be sent to the client.

Same theory as before, but this should get around the insanity with Grab/Ungrab special cases. Those cases are basically untested though.

commit a88386ee277d136caaaeeec305f8753f23f9b6274
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 14:36:57 2008 +0930

Xi: only DeliverFocusedEvents if the event is not a pointer event.

A pointer device may have a focus class, but even if so, pointer events must be delivered to the sprite window, not the focus window.

commit 48249425275cc90242497aee9968e5f1ffe86698
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 14:36:10 2008 +0930

Xi: dont copy FocusClassRec if the master already has one.

Blindly copying will override the focus setting of the master. If there's XI applications running, they may set the SD focus, while leaving the MD's focus as it was. In this case, after a class swap we still want to get the MD's events to the same window as before.

commit bce6091c6b04ff2db704ae4f161179d21dcbec59
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 09:59:45 2008 +0930

dix: Extend IsKeyboardDevice() to not include pointer devices.

If a pointer devices has key classes as well, don't register it as a keyboard device. Let's see how much that change will break.

commit cc7dab2d0da4ca164eeec1a3296df1706585466
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 10 09:58:50 2008 +0930

dix: Dont deliver grabbed pointer events to a focus window.

If an pointer event is being processed during a device grab, don't deliver it to the focus window, even if the device has a focus class. Reason being that
some pointers may have a focus class, thus killing drag-and-drop.

commits:

df2545b98d888924209cb889a68737c15f1aa209
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 10 08:50:43 2008 +0930

xfree86: Sanity check before retrieving the paired device.

Some pointer devices send key events [1], blindly getting the paired device crashes the server. So let's check if the device is a pointer before we try to get the paired device.

[1] The MS Wireless Optical Desktop 2000's multimedia keys are sent through the pointer device, not through the keyboard device.

d5a4c6621aaf4e886f2c3b633e837ba359fedf921
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 10 08:29:05 2008 +0930

Xi: some extra checks for validity of kbd and mouse.

Floating SDs are paired with themselves, so the paired device may not be a proper keyboard or mouse. Put some extra checks in to avoid dereferencing a nullpointer later.

d8e0a6529303a52acc10905dd47c72a0d60979676
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 10 08:25:36 2008 +0930

dix: When floating, set sprite to NULL before calling InitializeSprite.

InitializeSprite won't create a new one if it already exists, with the result of overwriting the master's sprite. This master sprite is then assigned to the floating slave, and freed when the slave is reattached later.
Setting the sprite to NULL forces InitializeSprite to alloc a new one, and this one can be freed without further repercussions.

c87211eb0b3d10323dab681bcb18580405ea18ab2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 10 08:08:54 2008 +0930

Xi: When attaching, check for ptr -> ptr and keybd -> keybd.

Some pointer devices have key classes (e.g. MS Optical Desktop 2000). The previous test was performed as Error if ptr -> keybd or keybd -> ptr. This doesn't work with such devices. New test is Succeed if ptr->ptr or keybd->keybd.
commit 7909ebe7f163716520f843fae11ac7bdeffcb57c
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 9 10:43:25 2008 -0700

dolt: add FreeBSD support (this and ppc have been submitted upstream).

ccommit b4842d8dc3b1619033c5c123c8adc6e164098dc3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Apr 9 16:17:35 2008 +0200

dolt works on powerpc Linux.

commit 0d1746995d91b55e40f233f0c38b56bafe896d38
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Apr 9 13:37:59 2008 +0200

   Fix off-by-one error in ProcXResQueryClients().

   Fixes memory corruption reported at
   http://bugs.freedesktop.org/show_bug.cgi?id=14004.

commit 6d031cbdefd8072b61645955f01b470a3e6858ec1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Apr 9 14:36:26 2008 +0300

   configure.ac: Do the dolt

   Use dolt instead of libtool wherever practical. See:
   http://lists.debian.org/debian-devel/2008/04/msg00286.html

commit b19027fbaea4c3a146926e862983e0e3411fff3d
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Apr 9 14:27:58 2008 +1000

   quirk: add quirk for ACR 640x350 default mode is wrong

   RH #440186

commit 1f8188656a075dc7b1bb27a0795b5bd43610b8ec
Author: Ben Byer <bbyer@apple.com>
Date:   Tue Apr 8 20:37:25 2008 -0700

   add missing dix-config include
   (cherry picked from commit 126e9bc8c480b403dedc44c1e8c4fe1476340ed9)

commit cbe01b3083eb65c9d4259b1071683febefb11600
Merge: 5ffbcfec3d 389dae73cc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 9 10:46:46 2008 +0930

Merge whot@wombat:~/potoroo/xserver into mpx

commit 3f51f493b6daf2464e6c2ba5a924219b88a9e57e
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date: Tue Apr 8 17:02:56 2008 -0700

XQuartz: Fix issue where clicking on an X11 window might send that event to an X11 window in another space. (cherry picked from commit df21312c8b0e9ef0c809bfcc57cdf64f27db0d8a7) (cherry picked from commit 2d4194a8d124e7a9c7cd1b83635ba6957aa4ae1c)

commit 389dae73cc0f3693f49807fd2de146c454ba9783
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 9 08:26:00 2008 +0930

Xi: If device "to" has a class but "from" doesn't, free the class in "to".

commit 60c38d248c1a89392c2c6695c3802f4b54e4c00b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 9 07:46:53 2008 +0930

Xi: plug memory leak, free previous motion history before allocating new.

commit ea05cf0813b2b7c8cd2151cb935820753ae7997a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Apr 8 22:09:11 2008 +0930

Xi: check if source has a key class before copying.

commit 08073862f8c4e1219b6459708ffdf28e2bc35885f
Author: Hasso Tepper <hasso@estpak.ee>
Date: Tue Apr 8 13:00:38 2008 +0300

configure.ac: Fix monotonic test harder

This was only introduced in a later version of POSIX, so define that version to get it from more conformant systems.

commit 5ffbcf6c3d37d3b627a78a0f0dabf5948df82
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date: Tue Apr 8 14:42:00 2008 +0930

dix: Ensure Proximity events don't kill the server.

Add Prox events to the if-clauses with the other events that are usually sent from the input devices. Ensure that the event deliverers won't try to deliver...
events of type '0' (some extended events doesn't have an equivalent core-type)

Small modification by Peter Hutterer.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 32e4a88ae613c7200d84d5621344b418b656346b
Author: Peter Hutterer <whot@potoroo.wearablelab.ml.unisa.edu.au>
Date:   Tue Apr 8 08:42:58 2008 +0930

xkb: don't overwrite CtrlProc in the second run of XkbFinishDeviceInit.

XkbFinishDeviceInit is called once when the device is initialised, but also when a class copy causes the key class of a device to change. In this case, overwriting the CtrlProc of the KeybdFeedbackClass with XkbDDXKeybdCtrlProc sets up a nice recursive loop of XkbDDXKeybdCtrlProc calling itself until the cows come home.

commit 6271df6953bea462be7e9e01744e5dd46841e867
Author: Peter Hutterer <whot@potoroo.wearablelab.ml.unisa.edu.au>
Date:   Tue Apr 8 08:42:58 2008 +0930

xkb: don't overwrite CtrlProc in the second run of XkbFinishDeviceInit.

XkbFinishDeviceInit is called once when the device is initialised, but also when a class copy causes the key class of a device to change. In this case, overwriting the CtrlProc of the KeybdFeedbackClass with XkbDDXKeybdCtrlProc sets up a nice recursive loop of XkbDDXKeybdCtrlProc calling itself until the cows come home.

commit 726dcd9e4ebf09c0685450dca6e9fae7e773814
Author: Adam Tkac <atkac@redhat.com>
Date:   Mon Apr 7 10:20:02 2008 -0400

Fix Xvfb input when building against current X sources.

commit 0f87b41a432a6472a15ec0e9dee997e3bddb0f2
Author: Hasso Tepper <hasso@estpak.ee>
Date:   Mon Apr 7 14:09:04 2008 +0300

configure.ac: DragonFly BSD support

Add support for DragonFly BSD, which is just the same as FreeBSD for all of these cases.

commit 6b1a27023e48b661c4bb3b61181ac57608d8e448
Author: Owen W. Taylor <otaylor@fishsoup.net>
Date:   Thu Apr 3 14:50:05 2008 -0400
EXA: Fix TS origin computation when implementing RenderComposite with tiling.

commit fd06e8f8c1d82a9d91931e8532bee0fd9e9ca9ab
Merge: b46a009186 6c0cfe3d43
Author: Peter Hutterer <whot@potoroo.wearablelab.ml.unisa.edu.au>
Date:   Mon Apr 7 07:56:41 2008 +0930

Merge branch 'master' into dcdc_rework

Conflicts:

    Xext/xevie.c
dix/dispatch.c

commit 539bf3c2836727e7560c64144071b086f8ea32fe
Merge: 3ab33e7cd4 6c0cfe3d43
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date:   Mon Apr 7 00:10:16 2008 +0200

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 3ab33e7cd46c25dfc461b2a1b13e138225a94524
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date:   Sun Apr 6 23:23:47 2008 +0200

Remove stale code

The jstk code for Joysticks is not used by any module, was never actually compiled and uses an API that is deprecated these days.

No reason to keep it.

commit b46a00918691cbd5ca80b6d3acae7614f93e073b
Author: Peter Hutterer <whot@potoroo.wearablelab.ml.unisa.edu.au>
Date:   Sun Apr 6 09:02:57 2008 +0930

dix: sprite may be NULL, don't dereference it then.

In some rare cases (e.g. when the init fails) a device's sprite is NULL, dereferencing it to xfree the spriteTrace is a bad idea then.

commit 638a50552e3e2190eac9721deb72e7365bddd52e4
Author: Peter Hutterer <whot@potoroo.wearablelab.ml.unisa.edu.au>
Date:   Sun Apr 6 08:36:21 2008 +0930

dix: remove debug error message about XI->core type conversion.
commit 8f38feb3e464986dc523dabd3447ba13263a3a4a
Author: Peter Hutterer <whot@pororo.wearablelab.ml.unisa.edu.au>
Date: Sat Apr 5 20:37:09 2008 +1030

Xi: add comments for DeepCopyDeviceClasses, ChangeMasterDeviceClasses.

commit 6c0cfe3d43b177c4cfafe7e228f32c655f9a98459
Author: Julien Cristau <jcristau@debian.org>
Date: Fri Apr 4 19:01:40 2008 +0200

Fix the clock_gettime check for glibc-based non-Linux systems

We need to define _POSIX_C_SOURCE on glibc, not just Linux, so add a new
test for the __GLIBC__ macro.

commit cc7c045bae01d90d8f1b750080ba48a96e983c68
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Apr 4 12:58:12 2008 -0400

Fix PCI config space cycles from int10 emulator.

The top bit of 0xCF8 is an enable bit, not part of the domain. Sending
cycles to domain 128 instead of domain 0 is rarely the right thing to do.

commit d1de3dda8efe501d4192c8a99c34ab4265316c32
Author: Eric Anholt <eric@anholt.net>
Date: Mon Mar 17 14:22:39 2008 -0700

Fix clock_gettime presence detect on FreeBSD.

For non-Linux, _POSIX_C_SOURCE and friends restrict symbols defined rather
than enabling defines of symbols. Additionally, CLOCK_MONOTONIC was
apparently added to the standard around 2000 anyway, not 1993.

commit ec17900f52bbd25d07566834756e5c7e832e0463
Author: Kristian Høgsberg <krh@redhat.com>
Date: Fri Apr 4 10:46:45 2008 -0400

Convert __DRIconfigs after we've made sure createNewScreen succeeded.

commit 16a8ce75585ea360c39e0ffce4f7bb26a359b754
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Apr 3 16:44:32 2008 -0400

Only autoload RECORD if it was enabled.

commit d0395a753079f291a789ab86810b5f84f237491
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xi: realloc to->valuator instead of allocating it blindly.

commit 502689847b86be5619da7134646d55a1ac322a2c  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Fri Apr 4 15:01:53 2008 +1030

Xi: ALLOC_COPY_CLASS_IF should only alloc if to->field doesn't exist.

commit 035b1b6995e670ce5593e8aceb08f9ec812c70ea  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Fri Apr 4 15:00:06 2008 +1030

Xi: remove duplicate copying of kbdfeed and ptrfeed.

commit 52fc7aed18930fc9e6bcfdd5db28ae559978288  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Fri Apr 4 14:47:23 2008 +1030

Xi: only alloc memory for feedback classes if it doesn't already exist.

commit 4eb87c8693b57d9354832c76417797394656333e  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Fri Apr 4 14:20:18 2008 +1030

Xi: don't free device classes before copying them.

First commit in a series to come.

commit f0915fb3c4a9712200882440a64d11dc595a02bb  
Author: Dave Airlie <airlied@redhat.com>  
Date: Fri Apr 4 09:29:51 2008 +1000

quirk: add quirk for ACER EDID

commit 2e42b67b82db0f9128dd00e339b9dfdd9fe6d667  
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>  
Date: Wed Apr 2 18:05:34 2008 -0700

XQuartz: Change reporting of space change to debug log rather than stderr  
(cherry picked from commit ed15556a9fc4ebdb88f42961052fc8456082165f)

commit c737d04e758e03e32f692a31ed2a665ccba931  
Author: Ben Byer <bbyer@apple.com>  
Date: Tue Apr 1 00:40:46 2008 -0700

The AppKit thread should not be calling directly into the X server
functions to change state when the keyboard is reloaded; instead, pass it as an event.
(cherry picked from commit 7e653f806ff5508aace059312156f319a9ed4479)

commit 15b0084f1ab23042190d8beeb3f088b92dee5a10
Author: Ben Byer <bbyer@apple.com>
Date:  Mon Mar 31 23:31:25 2008 -0700

   formatting cleanup for X11Application.m (no code changes)
   (cherry picked from commit eb083d3f68f459d90417558da1ed00729b749950)

commit e9e2d88436597875f102085d216dc0a8fcee1450a
Author: Ben Byer <bbyer@apple.com>
Date:  Mon Mar 31 22:55:24 2008 -0700

   moved and renamed QuartzMessageServerThread to DarwinSendDDXEvent to make more clear what it actually does.
   (cherry picked from commit bee2b377efc930e25017636e5112093a3a6549c7)

commit c1be4e3379d8780dff20390939b657ca0973995a
Author: Ben Byer <bbyer@apple.com>
Date:  Mon Mar 31 21:04:37 2008 -0700

   shovelling code around ...
   (cherry picked from commit 2143182ba49195bbb2e9163ea6872fd68e7a4a85)

commit 985c631b2e1f113039e6e620f030505435fd9815
Author: Ben Byer <bbyer@apple.com>
Date:  Mon Mar 31 20:18:58 2008 -0700

   just a bit of juggling headers around -- we're preparing to call our XQuartz-specific event handlers directly as mieqHandlers
   (cherry picked from commit 4aedba5aa727e22316e8ca456f7218bea9ee0313)

commit 89f1d880e83e32b72d35c4dbd6795defa6efa847
Author: Ben Byer <bbyer@apple.com>
Date:  Mon Mar 31 19:47:28 2008 -0700

   nuke DarwinEventQueue
   (cherry picked from commit 1f0ec02202eeaffae480048b91bf02140ee29f8a)

commit 8944b77ec0c18476a25ba3179bcc45b338be22b8
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:  Wed Apr 2 17:47:42 2008 -0700

   continue with gutting darwinEvents.c
   (cherry picked from commit c34fcee7051b996633291dddc061b696ff737f3fb)
turns out we weren't actually using these files. oops
(cherry picked from commit bfec44d7b4af0d0a55c8209bc60ac93c5b58)

remove vestigal DarwinEQPointerPost etc
(cherry picked from commit a25704c423598d596fd7f2ed4290d4b860bd5d5f)

add logging of current thread ID to DEBUG_LOG macro
(cherry picked from commit 5848510cc5a8091b30230ab920d904ca6b159480)

Begin to move all of our Xquartz DDX-specific event handlers
to miEQ, in preparation to remove the DDX-specific code entirely.
(cherry picked from commit 3f4447b95f73a82b3aa0f7b0d1640aba5fb0d1bc)
XQuartz: Fixed missing close-paren in preference pane text.
(cherry picked from commit ea37e151dc6032d2a1a33cef809f2a7d507aae35)

commit b5a0a865c3045cc08c33388320d4ec3ab7065efb
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Apr 2 19:21:41 2008 -0400

Pick up dri2proto from the standard proto header include path.

commit 8cde0af3c57f0375ba8ba77af9df74b79d9496d
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Apr 2 19:06:40 2008 -0400

Send the GLX_EXT_texture_fromPixmap attributes to the client.

commit 7c20f65feaa3dd3170cde89d7113d85f377671bfb
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Apr 2 18:00:06 2008 -0400

Add @XORG_CFLAGS@ to satisfy xf86* includes.

Pointed out by Hasso Tepper.

commit b13ab156894074fb38cc812738bc7ae6ebd9614d
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Apr 2 12:38:36 2008 -0400

dri2: Unbreak glcore visual setup.

commit b31de6a59044f9f8230aa581e9ca8540289c168
Author: Xiang, Haihao <haihao.xiang@intel.com>
Date:   Wed Apr 2 16:29:30 2008 +1000

dri2: fix crasher if DRI2Connect fails

commit ebc56aca8bdfecc1918cac3c8380895dfdde48ce
Author: Hong Liu <hong.liu@intel.com>
Date:   Wed Apr 2 10:43:19 2008 +0800

Bug #15160: quirk Proview AY765C
prefer first detailed timing

commit 9500033b9ecdaf5a56a4355ffec94d74cb17ca17
Author: Goneri Le Bouder <goneri@rulezlan.org>
Date:   Tue Apr 1 20:19:40 2008 +0200

xfree86: don't crash in AutoConfig if the primary device is not pci
Only call matchDriverFromFiles() if we found a pci device.
Debian bug#472823 (http://bugs.debian.org/472823).

commit 37b1258f0a288a79ce6a3eef3559e17a67c4dd96
Author: Thomas Jaeger <thjaeger@gmail.com>
Date:   Tue Apr 1 15:27:06 2008 +0300

XKB: Fix processInputProc wrapping

If input processing is frozen, only wrap realInputProc: don't smash
processInputProc as well. When input processing is thawed, pIP will be
rewrapped correctly.

This supersedes the previous workaround in 50e80c9.

Signed-off-by: Daniel Stone <daniel@fooishbar.org>

commit a4d034941100c6ca3b7cc4e59952c2745b9306cc
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Fri Mar 28 20:47:44 2008 -0700

Add code to track 5 valuators for pointing device, in preparation
for supporting tablet input in Xquartz.
(cherry picked from commit 22c8849ea819eb70a14b2e06330b11b22aa63ebc)

commit 6648867d8bd1e86458d2ade77a3ee4567c3d6a97
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Fri Mar 28 18:27:02 2008 -0700

add debug statements so we can see if/when our Xinput stubs are getting called.
(cherry picked from commit 6e160bbe15dd2c2b8685847c06831cb6aebc6f74)

commit 19ff23ab0e72a27da25ed4470f75a0934d6f6c1d1
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Fri Mar 28 18:25:03 2008 -0700

Remove calls to InitValuatorAxisStruct -- these are now handled in dix by
InitValuatorDeviceClass.
Add InitProximityClassDeviceStruct call to prepare for tablet support.
(cherry picked from commit 1bd980a5b114f5320360943214f8f9f23b29c1e3)

commit 9f56fc580646a519875b5a1452738d8e6e1f860
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 31 17:34:07 2008 -0400

XSELinux: Add a request to get a client's context from a resource ID.
Implement DRI2 direct rendering and update AIGLX to DRI interface changes.

Get rid of glcontextmodes.[ch] from build, rename __GlcontextModes to __GLXcontext. Drop all #includes of glcontextmodes.h and glcore.h. Drop the DRI context modes extension.

Add protocol code to DRI2 module and load DRI2 extension by default.

EXA: Optimize the eviction scanning loop in exaOffscreenAlloc.

Reduce the cost of the inner loop, by keeping a set of pointers to the first and the last areas in the series, subtracting the cost of the first area from the score, and adding the cost of the last area while walking the list. This commit also moves the scanning loop from exaOffscreenAlloc into a separate function.

Idea by Michel Dänzer.

EXA: Improve the algorithm used for tracking offscreen pixmap use.

Replace the current score keeping algorithm with a rolling counter that's incremented in ExaOffscreenMarkUsed, with the previous value being stored in the area. exaOffscreenAlloc uses the difference between the counter value and the value in the area when deciding which area to evict. It now also takes the size of the areas into account, and favors evicting smaller areas.

The credit for these ideas goes to Michel Dänzer.
local changes if they want to.

commit b8ea912a25aad88aee77a68f8e20ac07276f0dab
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Mar 28 17:00:08 2008 -0700

  XQuartz: Fixed names of enums to be more consistent
  (cherry picked from commit c309a08806daf5d716a860c709e51eac2d745a)

commit bd28839eb866a9e6dc3ff80f13a67611da7eaf64
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Fri Mar 28 17:02:02 2008 -0700

  XQuartz:=20Another=20Expos=3C3=A3=20F9=20doesn=20raise=20all=20windows
  (cherry=20picked=20from=20commit=20b9cffa20debae73737c67bf75ab65db1bd74556)?=

MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit

commit 933ffcd7d2eaafe6f861f04bcb149918f
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 28 17:53:55 2008 -0400

  Compile fix.

commit 9e8451d869a4032ddb7debae6a62920a3a7b0b1acc1
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 3 17:38:53 2007 -0500

  Add E-EDID segment selection.

commit 0b4aef4d6df7a5525d303e035fbbf78c678eef
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 3 16:00:00 2007 -0500

  Refactor DDC2 code to allow for proper segmented addressing.

commit 88ece11d6c45c6f4b94f7fb2da64a46e879d7c27
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 3 15:47:39 2007 -0500

  Start E-EDID support in the DDC module.

  Since there's no way to safely know how many blocks xf86DoEDID_DDC2 would
  return, add a new xf86DoEEDID entrypoint to do that, and implement the
  one in terms of the other.
commit b5f98fcea2024c67e598947782913982072cf4fb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Mar 28 14:01:34 2008 -0400

XSELinux: Add xorg.conf option for permissive/enforcing/disabled.
Patch by Joe Nall.

The option goes in the "extmod" subsection.
TODO: Make it easier for extension modules to handle their own options.

commit 415e49b940bb2d08870db410ebb47d2add5d836
Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
Date:   Tue Mar 25 23:01:02 2008 -0700

XQuartz: Sanity-check the removal of the 256-color option
Fixes the 'one-time-preferences' bug in 2.2.0_rc1
(cherry picked from commit 38cbd13490fc21724e8eef0ec7e1a20a9cc2e39d)

commit c1d37efe9aaef2895b3437418f7e4bb2eb3400f
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Tue Mar 25 19:25:00 2008 -0700

xquartz: copy in new stubs from Xi/stubs.c to replace our old
Xinput stubs. Hey, it's a start.
(cherry picked from commit 566412b4aece24ae6af8c7e835986b685aa456a2)

commit c4a616a741e15865ce0ff98781c6f1dca4d62887
Author: Ben Byer <bbyer@bushing.apple.com>
Date:   Mon Mar 24 22:43:10 2008 -0700

prevent "fake mouse clicks" from generating spurious extra events
(cherry picked from commit bd85a24969427e41389688663ead2d4dd41e9999)

commit c747030a49dd289e873e2b686cd129d840e55468
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Mar 27 15:18:39 2008 +1000

quirk: fix LPL monitors properly.

no point having a h cm fix when we really want to copy the sizes from the
other place.

RH BZ 435216

commit 9df915b84d45d39aed7557c98883b20a66da2e96
Merge: 47eb658e80 333e7123dc
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date:   Tue Mar 25 17:50:50 2008 +0100
Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 333e7123dc484888d79e0f5a3977bd72f1eb341
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Mar 25 12:48:22 2008 -0400

Fix that last commit.

I can apply patches, really.

commit 47eb658e802775021e3efec109f95431cca188ca
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date:   Tue Mar 25 17:37:25 2008 +0100

Support to pass arbitrary options via HAL hotplugging

Parse "input.x11_options" and pass every key/name pair to the driver.
Remove check for input.capabilities, because that's part of the fdi files.

Thanks to Dustin Spicuzza <dustin@virtualroadside.com> for the patch.

commit e7a36425547103a98acabfc67d16e1ae0c2967f
Author: Sascha Hlusiak <saschahlusiak@arcor.de>
Date:   Tue Mar 25 12:32:33 2008 -0400

Fix getValuatorEvents to compute number of valuators correctly.

commit f028e245a7932362656701ce08cf6ba8e8949077
Author: David Nusinow <dnusinow@debian.org>
Date:   Thu Feb 28 19:45:21 2008 -0500

  Bug #10016: Implement WM_CLASS hints in Xephyr.

commit 862ff9ac92037e13629329eb6ba50ff6bd2c5f71
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 24 13:37:42 2008 -0400

  Bug #11510: Fix build without RECORD.

commit 87bdf3bd96c714a1c252d4240b5a1a4ff9dab06
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 24 13:33:38 2008 -0400

  Bug #11508: Fix build without XV.

commit 536f2ff5382aaaace3b55481e15366bb15d87801
Author: Adam Jackson <ajax@redhat.com>
Bug #13962: Re-arm the DPMS timer when re-enabling DPMS.

commit 4217ba0cf0e9bbea3774760e836ab372acf3237c
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Mar 22 17:31:08 2008 +0100

    xaa: use xf86ReturnOptValBool instead of xf86IsOptionSet

    The latter doesn't return the option's value, just whether it's present
    in the configuration.

commit 6b9d2bb17f87acbf275027af9c2982e91e5faed
Author: Julien Cristau <jcristau@debian.org>
Date:   Sat Mar 22 17:28:48 2008 +0100

    exa: use xf86ReturnOptValBool instead of xf86IsOptionSet

    The latter doesn't give you the option's value, it just tells you if
    it's present in the configuration. So using Option "EXANoComposite" "false"
    disabled composite acceleration.

commit 63859473965f911515bc6e8d87b32a65e41eb73
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Fri Mar 21 19:31:31 2008 -0700

    XQuartz: Disable 256 color option and fullscreen option
    (cherry picked from commit 7c1964338a33558d3f25e369dfca99e3ef9d10f9)

commit 93daa3a3bf1a981757024847882ce92b6bd4e83
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Fri Mar 21 19:11:59 2008 -0700

    Xquartz: Added separate preference tab for quartz-wm settings
    Added FFM and "Focus on new window" options
    (cherry picked from commit 6841d078b7eb0b0db948d26b4d5ec7747de8b)

commit c49e11268322712c211f29d51d664d3f8a59b00b
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Fri Mar 21 18:07:38 2008 -0700

    XQuartz: Initial framework for dealing with spaces on OS-X
    (cherry picked from commit 9831324998f9d1f05ff944c58c5bf60dca3e7355)

commit 4c76607b699431183ee7e88fa7818cb7644a5a02
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Mon Mar 17 23:57:41 2008 -0700
Rootless: Removed safeAlphaXXXX() in favor of using fb/pixman
(cherry picked from commit f03202ad15457c98be7ca78cc59bac88cf5f1966)

commit 87c64cfd6901083da5a9375d0bde65691d374b5b
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Fri Mar 14 17:31:54 2008 -0700

=?utf-8?q?Apple:=20Xserver=20half=20of=20the=20Expos=C3=A9=20bug-fix=20(requires=20updated=20libXplugin=20from=20Apple...=20coming=20with=202.2)

=20(cherry=20picked=20from=20commit=2037be23e8c1d8e5c7a1157e9d66ef3f30a4c472c5)?=
MIME-Version: 1.0
Content-Type: text/plain; charset=utf-8
Content-Transfer-Encoding: 8bit

commit 3bbd77ff98478153afe3251de9ba11d757218213
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 20 20:03:02 2008 -0400

XSELinux: Do a check for whether background "None" is allowed.

commit e323bb426ce8a072d119cb2720b773241259c137
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 20 19:42:09 2008 -0400

XSELinux: Correctly handle some permission bits that are used more than once.

commit da973e962d09854b571320dee7d9569060bc39e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Mar 20 09:18:29 2008 -0400

Fix RandR 1.2 driver interface conversion of two colour cursors to ARGB

This patch (and not setting HARDWARE_CURSOR_BIT_ORDER_MSBFIRST on big endian platforms) fixes it for me with the radeon driver and doesn't break intel.

Correct patch this time :)

commit f8c1eb29e28818895d744c4e1d6897353d51790b
Author: Alex Deucher <alex@cube.(none)>
Date:   Thu Mar 20 09:14:41 2008 -0400

Revert "Fix RandR 1.2 driver interface conversion of two colour cursors to ARGB"

This reverts commit 267352579612155adfd4743432d6569b2cdeebde.

Pushed the wrong patch.
Fix RandR 1.2 driver interface conversion of two colours cursors to ARGB

See bug 11796

Make Xevie private symbol names less generic

Makes it easier to figure out what you're seeing in the stack trace instead of wondering where in the server "ProcSend" is.

Apply __glXDisp_GetVisualConfigs message patch
From http://bugs.freedesktop.org/show_bug.cgi?id=13863

Problem was that the glxcmds.c __glXDisp_GetVisualConfigs function left garbage in the tail end of the message used for extensions.

[Xdwayfs] correctly route motion events targeted at GL drawable

Cleanup logic in xf86PrepareOutputs

Should have done this in the first place. Since we're checking for the absence of the get_crtc callback in the first place, we'll short circuit the later call.
and disable the output, so the ugly "continue" block is unnecessary.

commit ba85caacb565b9aa0aeace52a362350304b0566d
Author: Jesse Barnes <jbarnes@jbarnes-t61.(none)>
Date:   Mon Mar 17 14:13:09 2008 -0700

Make xf86SetDesiredModes aware of current output configuration

By adding a new output callback, ->get_crtc, xf86SetDesiredModes is able
to avoid turning off outputs & CRTC's if the current output<->CRTC mappings are the
same as the desired configuration.  This helps avoid flickering displays at
startup time, which speeds things up a little and looks better.

commit bee2ddf35f75086cee951142098637f2c756b96b
Author: Jesse Barnes <jbarnes@jbarnes-t61.(none)>
Date:   Mon Mar 17 08:33:01 2008 -0700

Fail CRTC configuration if !vtSema

Unless we check for vtSema before calling into the CRTC and output callbacks,
we may end up trying to access video memory that no longer exists, leading to a
crash.  So if we don't have vtSema, return FALSE to the caller, indicating that
we didn't do anything.

Fixes #14444.

commit db248ff8b40a0e113b6eb508a0fa1e74e752474d
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Mar 16 18:46:11 2008 +0100

  test for the presence of pci_system_init_dev_mem() before calling it.

  This avoids creating a dependency on -current libpciaccess for
  BSD systems other than OpenBSD (which don't otherwise need it).

commit aa231f28d56402d7daea6ebd3002fbf760f79497
Author: Donnie Berkholz <dberkholz@gentoo.org>
Date:   Fri Mar 14 18:41:25 2008 -0700

  Xephyr: Build fix: Port across XF86dri.c changes from Mesa.

commit a955c3b587b22b88f20eb6bedbbec4ad5fcb32ac
Author: Donnie Berkholz <dberkholz@gentoo.org>
Date:   Fri Mar 14 18:41:07 2008 -0700

  Xephyr: Distribute ephydriext.h in tarballs.
XkbCopyKeymap: Fix broken indentation

An astute observer will note that the entirety of XkbCopyKeymap is indented with spaces, and no tabs whatsoever, and not commit changes which break the otherwise consistent indentation. A non-astute observer will note the breakage when the commit mail comes through with clearly broken indentation. A polite, non-astute, observer will then fix it.

C'est la vie.

commit 88bec0915e3867f8dbf859a3dfbb771d0d07092d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 14 21:54:13 2008 +0200

mi: More meaningful assert crashes

When we fail an assert in miregion.c (which happens every now and then, though I haven't yet checked up why), at least generate a segfault, so we'll get a backtrace.

commit 57d48d94b8947c571925e6fd4e9bf041fb1b2ac
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Mar 14 14:37:42 2008 -0400

   Fix a stray use of ALLOCATE_LOCAL.

commit 824853772241acfc64bc37ac8b85254194741ae13
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Mar 14 14:24:21 2008 -0400

   RANDR 1.2: Fix initial mode aspect ratio match in a corner case.

   Actually more like in the mainline case, where the ideal mode happens to be the very first aspect match on the first monitor. But let's not split hairs.

commit 1b9878ffcfcc0e0db4a6e674827fe508ba77db4b
Author: Bart Trojanowski <bart@jukie.net>
Date: Thu Mar 13 17:42:16 2008 -0400

   Bug #14332: Fix PCI access cycles from x86emu.

   The address written to 0xcf8 contains the PCI slot address to send the config cycle to. However, we would ignore that and always send the
cycle to the device whose BIOS we were running. This breaks some integrated graphics platforms that have explicit knowledge about the system's host bridge, for example.

commit f7abe05b3306ed9a6f2cf5e3e45ed524d725d029
Author: Doug Chapman <doug.chapman@hp.com>
Date:   Thu Mar 13 17:40:34 2008 -0400

Bug #14091: Fix build (and runtime) on ia64.

commit 5d7437c29e686a081b20823450d78c4c2f4e0aec
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 13 17:37:12 2008 -0400

RANDR 1.2: Fix the RANDR 1.1 screen size estimation to approach reality.

While the ScreenRec's notion of size in millimeters would get updates, the RANDR 1.1 notion wouldn't, so your screen would appear to be square and probably at some ludicrous DPI.

commit 61c3f63a75d8b0ce47ffed4a0e30147fab2ae8f4
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Mar 13 17:34:54 2008 -0400

RANDR 1.2: Don't report a square resolution to RANDR 1.1 clients.

It can't possibly do anything useful, and older versions of Gnome (and probably others) get very confused by it. So do the drivers, for that matter.

commit 06c0372c3a1b45005eb6d50406f77f6e93f1de1e
Author: Mark Kettenis <mark.kettenis@xs4all.nl>
Date:   Wed Mar 12 21:45:37 2008 +0100

OpenBSD support for libpciaccess.

xserver and libpciaccess both need to open /dev/xf86, which can only be opened once. I implemented pci_system_init_dev_mem() like Ian suggested. This requires some minor changes to the BSD-specific os-support code. Since pci_system_init_dev_mem() is a no-op on FreeBSD this should be no problem.

commit 2036851125226065891f13583ade3ce559e7bd37
Author: Matthias Hopf <mhopf@suse.de>
Date:   Mon Mar 10 19:29:07 2008 +0100

Return randr interface version in xf86CrtcScreenInit()
Necessary to allow drivers to be run-time backwards compatible when using the modes/ functions w/o providing their own copy.

commit c7536f4b87e089a7e7c43026b189922fec70c565
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 11 13:11:04 2008 -0400

Silence REGION_INIT() warning.

Evaluating the address of a BoxRec as a boolean gives this warning:

i830_driver.c:2317: warning: the address of 'ScreenBox' will always evaluate as 'true'

which is pretty annoying. This patch compares the address to NULL to avoid the pointer->bool conversion and gets rid of the warning. Seems like a lame hack, but the warning is worse.

commit cc05255191413b3f376edbc600122ff085f45f7b
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 11 00:51:43 2008 -0400

Make WriteToClient take a const void * like any decent IO write function.

Enough with the casting. Doesn't break API or even ABI, but does make a lot of silly casts superfluous.

commit bc504ffba3dec2e3467bab8ba1ac25db6dd317e
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 11 00:35:31 2008 -0400

DRI2: Add DRI2AuthConnection().

DRI2 uses the same authentication scheme as XF86DRI, so implement this entry point so DRI2 protocol code can access it.

commit b2657ec5981122e7cc0bda0d8802aecd63cde9014
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Feb 6 16:51:57 2008 -0800

XkbCopyKeymap was mangling doodads and overlays

commit ab9b0b36ac8ae72fc48c0abd91a83de49a18313c
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 10 13:40:00 2008 -0400

Add the "amd" driver to magic driver selection.
Bug #14927: Fix the math for xf86NumDefaultModes.

GLX: Track changes to DRI_TEX_BUFFER extension.
We now just pass in the __DRIdrawable.

DRI2: Return event buffer head index in DRI2CreateDrawable.
And pass it to the DRI driver in AIGLX.

Fix DRI2 texture target for GLX_EXT_texture_from_pixmap.
Thanks to Dennis Kasprzyk for pointing it out and for reminding me to commit it.

Size xf86DefaultModes explicitly.
i.e., don't check for the end of the list by ->name == NULL, since that won't work now. Fix the consumers of xf86DefaultModes to use the new explicit size as well.
Fix segfault when a monitor exists but has no modes.

Thanks to Zhenyu Wang for finding this.

commits: a8d760f567b19268329c4682495caa591f08a854
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Sun Mar 2 20:13:11 2008 -0800

Get modes code building with old X servers again.

This change uses XORG_VERSION_CURRENT < 7.0 to mean "server newer than 1.2" since XORG_VERSION current went backwards at some point.

commits: ca616b902b2c5d0f046c7a042c11f045479e373a
Author: Jesse Barnes <jbarnes@jbarnes-t61.(none)>
Date: Thu Mar 6 13:47:44 2008 -0800

Allow RandR get output property to call into drivers

In order to report accurate values to users of the RandR property interface, it's sometimes necessary to ask the driver to update the value (for example when backlight brightness changes without the server's knowledge, due to hotkey events or direct sysfs banging).

This patch wires up the core server code with a new xf86CrtcFuncs callback, get_property, to allow for this.

The new code is available under the RANDR_13_INTERFACE define, which in turn depends on the RANDR_12_INTERFACE code.

Fix distcheck.
(cherry picked from commit 2a47accff8dccded4dfe031f9366c028ba927824)

commits: 8e562fe26ff77c03be0855af0b08e43f3ed0bd4b9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Mar 5 15:11:41 2008 +1030

Xi: remove false memset from DeepCopyDeviceClasses.

It's wrong, needs to be different, but I haven't had enough coffee to figure out what it needs to do yet.
commit d4101140f4e569f18554cf0cbf43138d08bd1277
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Mar 4 22:39:41 2008 -0500

xsellinux: Implement polyinstantiation support and related protocol.

commit cf984dce156958d4f8d98110e7add150628ee97e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Mar 4 16:03:04 2008 -0800

Make sure SIOGLIFCONF buffer is properly aligned for socket structures.

commit 27e7dacf7ef17712be31ff90f98ee3a5c5cf909
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 4 11:38:34 2008 -0500

Make xf86InitialConfiguration slightly smarter.

Old heuristic was to find the first monitor that expressed a preference, then attempt to get all other monitors to agree. This doesn't work particularly well when the two sets of modes don't precisely intersect, you get overlapping-but-not-identical output geometry and things go wrong.

New heuristic is:
- Exact user preference, if given
- Exact output preference, if the same for all outputs
- Best (largest) mode of modes common to all outputs:
  - with the same aspect ratio as all outputs (may be NULL)
  - with 4:3 aspect ratio
- Then the old heuristic to try to get something lit

Note that it is simply not doable to have a reliable initial output guess if you insist on trying to clone all outputs together. It's far too easy to end up with displays that simply don't have modes in common. We need to switch to right-of-placement someday, once we're not limited to CRTC size limits and we have working multi-GPU in RANDR.

commit 95df04b744c6a3498a9a9e2ea9bb03ee780e60f8
Author: Adam Jackson <ajax@redhat.com>
Date: Tue Mar 4 10:59:24 2008 -0500

Remove all mention of the vga driver from the config logic.

commit 7b4f3616f75a541b819d99c28bb6cb73761b6066
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Mar 4 18:29:15 2008 +1030
Xi: add deviceid to QueryDevicePointer request.

Why not, we had the padding anyway.
Suggested by Jim Gettys on the X.Org mailing list.

commit 056a2ce02ce85013e89055ee44a7aa3eabcdac09
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Mar 4 02:44:48 2008 -0500

XACE: Check the return value of the selection create hook call.

commit 4f2cd0ed96d3b10c78774c721c2fbbf0556dddd
Merge: 23ae68a4c7 4f2cd0ed96d3b10c78774c721c2fbbf0556dddd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Mar 4 18:11:10 2008 +1030

Merge branch 'master' into mpx

This merge reverts Magnus' device coorindate scaling changes. MPX core event
generation is very different, so we can't scale in GetPointerEvents.

Conflicts:

Xi/opendev.c
dix/devices.c
dix/dixfonts.c
dix/getevents.c
dix/resource.c
dix/window.c
hw/xfree86/common/xf86Xinput.c
mi/mipointer.c
xkb/ddxBeep.c
xkb/ddxCtrls.c
xkb/ddxKeyClick.c
xkb/ddxList.c
xkb/ddxLoad.c
xkb/xkb.c
xkb/xkbAccessX.c
xkb/xkbEvents.c
xkb/xkbInit.c
xkb/xkbPrKeyEv.c
xkb/xkbUtils.c

commit 72f2197545e734cd0aa785d05a57b2f0351a763
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Mar 4 02:02:54 2008 -0500

dix: Convert selection list to a linked list.
Fixes a bug where pointers were being invalidated after a realloc.

commit 0bd0f90d7c7928052197da7119177e5a1c9eee2c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Mar 4 03:47:36 2008 +0200

XKB: Fix initial map setting on startup

Due to an unwitting sense inversion when eliminating XkbFileInfo, we were
setting the complete wrong keymap on startup (non-XKB map if we had an XKB
map available, or the XKB map if we didn't have any available). Invert the
sense properly, and add two small bits that also went missing in that commit.

commit 613852ce6a821ce6f6382fc14629f517776a3701
Author: James Cloos <cloos@jhcloos.com>
Date:   Mon Mar 3 16:10:04 2008 -0500

Fix some documentation typos

commit 3f23139137e024e09d207be05a61968100cf53e8
Author: Jesse Barnes <jesse.barnes@intel.com>
Date:   Mon Mar 3 13:05:12 2008 -0800

Add cscope files to .gitignore

commit 708f07753ff22ade54e9ee8885e4198ff363b87
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 3 15:49:48 2008 -0500

RANDR 1.2: Inherit PreferredMode from the global configuration, if any.

If you don't do this, then Modes "800x600" in the Display subsection will
be dutifully ignored and the driver will start at whatever resolution it
feels like.

commit 605e6764dfdf3d9c9b17b9cfcd92fe89857e1a1c9
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 3 15:45:17 2008 -0500

Fix Motif menu drawing in Xnest.

See also Red Hat bug #229350, OpenSolaris bug #6366490.

commit 3b73d62791d925c465ee855f96981d151dd3c179
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Mar 3 15:43:22 2008 -0500
xf86DDCMonitorSet: Honor the DisplaySize from the config file.

We honor sync ranges and pixel clock settings from the config here, no reason to ignore DisplaySize.

commit 7c16b68ab879f5b4b1aedd6c6b2aadbe56193dd19
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Mar 3 15:09:11 2008 -0500

1.5 has branched, start 1.5.99.x.

commit f7ab2d3821e6bcce943f088e308fd58395a186d2
Author: David Nusinow <dnusinow@debian.org>
Date: Sun Mar 2 18:36:25 2008 -0500

Add missing file from previous commit.

commit b5ce0e1d0b861dc5521fc9dbd6287ed6da817726
Author: David Nusinow <dnusinow@debian.org>
Date: Sun Mar 2 17:12:02 2008 -0500

Bug #13860: Ensure that the DRI mode is in octal format.

commit c934366424b0d20e013e84eb94b226b20e7baa2
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun Mar 2 19:27:53 2008 +0100

use UTILS_SYS_LIBS to pass SYS_LIBS to utils/ioports correctly

commit 2bb9c1f36f685044b837f42076dec2ea7d22d034
Author: David Nusinow <dnusinow@debian.org>
Date: Sat Mar 1 18:44:58 2008 -0500

bug #10008: Make Xvfb.1 document the correct default depth

commit b0b9c811eda3e35a8f6d0813483f750602c55ff6
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sat Mar 1 20:24:50 2008 +0200

fix typo

commit 3d642905477f4b1e3223f1f5e0d0d37e959ec81
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sat Mar 1 16:18:18 2008 +0200

clean some "unused" warnings

commit e7a6f79754816976d92857d55840262cccf80a6
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Sat Mar 1 16:16:29 2008 +0200

    glcore: split mesa and X in build system

commit cdd46aa3cd2e720558186cdbe48d871ab385fcdd
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Sat Mar 1 15:57:57 2008 +0200

    configure: minor cleanup

        - dmx

        - darwin: remove from xorg options

        - xephyr: libxv is client lib

commit 8af2c39bce4dc4693d5a2597c9622fa17b6c272
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sat Mar 1 16:54:01 2008 +0100

    Fix big mistake in commit fd41f46ac62033a724bd1f4612f19448a21c1224.

    - When a mode is deleted, the name pointer is also free()'ed.
    - This leaves other modes with an invalid pointer.

commit ef60632e200853680282016e32a7a9fb01882852
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 29 18:00:27 2008 -0500

    dix: Modify callers of property and selection API to use new interfaces.

commit cc76ea6e3ac6a405f0c198c4e62be40a8d2b546
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 29 17:55:31 2008 -0500

    XACE: Add generic support for property and selection polyinstantiation.

commit 34bf308a9e66f1a2f48630a15b1802afad50ec24
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 29 18:00:23 2008 -0500

    dix: Refactoring of selection code to allow for polyinstantiation.
    Introduces dixLookupSelection() API.
    Removes NumCurrentSelections from API.

commit d5715f7beaad6816db27b01b67d7a3c69164d106
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Feb 29 16:16:12 2008 -0500

dix: Refactoring of property code to allow for polyinstantiation.
Introduces dixLookupProperty() API.

commit c0e1959f285d7a7d6f6f42d55912a5a595dec0f
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 29 16:45:11 2008 -0500

On second thought, revert that, it'll make large pixmaps painfully slow.

Need to just fix the callers.

commit 4a44fe7c8678360d0549ef0e0d63870f3623b1db
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Fri Feb 29 16:43:14 2008 -0500

Bug #10465: Use calloc() for allocatingPixmapRec's.

commit 5d5fcc7198ca54fa9dc24fe974763eff9fddabee
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Fri Feb 29 16:42:04 2008 -0500

Bug #10464: Set pixel value to 0 before FindColor()

commit 8f0a4282f0ac33625eda9466e3db0bcf64e403a
Author: Chris Wilson <chris@chris-wilson.co.uk>
Date: Fri Feb 29 16:39:29 2008 -0500

Bug #10463: Always initialize reference pixel before AllocColor()

commit b7eb92774a58639aff3f26bb28a3dcff910c3fb6
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jan 12 01:22:05 2008 -0500

EDID 1.4: Print additional CVT support data in the log.

commit 31014d88aff8de8a502cf0f26e4cede141e1a92f5
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jan 12 01:03:44 2008 -0500

EDID 1.4: Decode additional CVT support information.

Table 3.28: Display Range Limits & CVT Support Definition

commit d1c48955f80692a32ab6adcee1384e3d298f471a
Author: Adam Jackson <ajax@redhat.com>
Date: Sat Jan 12 00:30:58 2008 -0500
Fix CVT abuse in DDCModesFromStandardTiming.

CVT is enough different from GTF that it should not be used on monitors that aren't expecting it. This brings us closer to what the spec says the correct behaviour is.

commit 26c2e95fa5bf30726356cf4bdd0f3a771a179
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Jan 12 00:09:34 2008 -0500

Nuke a duplicate SYMFUNC( xf86CVTMode)

commit ca5625b911e65fd410247b3eff57f6dcfc1f79
Author: Adam Jackson <ajax@redhat.com>
Date:   Sat Jan 12 00:08:00 2008 -0500

Add xf86GTFMode().

   This should probably be shared like xf86CVTMode().

commit 4cb4817c1072e1d31333db47d95f71d08b0d1dc
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 11 23:38:48 2008 -0500

   Remove the duplicate copy of xf86cvt.c

commit e65e51a99b17a0510782775f010e9820ca567fcb
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 11 23:19:20 2008 -0500

   Constify the built-in mode tables.

commit 6828d8fc2b464e0755f46e3fdeb07be0c38b620
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 11 22:57:42 2008 -0500

   Clean up DisplayModeRec handling in many places.

   Use xf86DuplicateMode() instead of rolling our own, and change malloc+memset to calloc.

commit 85617b56e5e00e7b8c7d8ce5b49af289056921a7
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Jan 11 22:55:37 2008 -0500

   Remove some #if 0 guarding code duplicated in xf86Modes.c
Allow xf86DuplicateMode() to work correctly on read-only modes.

Before this it was meaningless to try to mark DisplayModeRec tables const, since the mode name would be emitted as a pointer to an anonymous string constant, and therefore would have to be fixed up by ld.so and so couldn't live in .rodata. With this change the standard mode lists can live in .rodata, and modes duplicated from them will have their names filled in on the fly.

Add several comments documenting our EDID failures.

GLX: Adjust to changes in DRI driver interface.

xselinux: Don't require device "read" permission for XQueryPointer.

These keyboard and pointer state polling calls are a real problem.

xselinux: Log messages to both libaudit and Xorg.0.log.

XACE: Adjust the location of the COMPOSITE creation hook.

Avoids incrementing the refcnt if the hook fails.
XACE: Call the creation hook to properly label COMPOSITE window pixmaps.

commit 27bcf40cda1d7c52b189cc76528f1f51be1d5eb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Feb 28 16:43:43 2008 -0500

XACE: Fix instances of DixUnknownAccess at hook callsites.

commit 453661a9e193a511cf5e54e6d330454163817316
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Feb 27 20:43:50 2008 +1030

Xi: swap the control attached to a ChangeDeviceControl request. Bug #14170

Just swapping the request's data isn't enough, we need to swap the actual control as well.

X.Org Bug 14170 <http://bugs.freedesktop.org/show_bug.cgi?id=14170>

commit aebd9dc2524497416b23c740a550d914275399
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Thu Feb 28 01:22:31 2008 -0300

Oops, there's one more parenthesis.

commit f616735f17a681e3add866bf199540327c322490
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 27 22:46:14 2008 -0500

xselinux: Prefix a few remaining error messages with "SELinux".

commit e40cc5305bec656108077ab13fccc8e6e82b3707a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 27 22:29:15 2008 -0500

xselinux: Don't throw BadAccess if DixUnknownAccess is passed in to a hook.

The avc will still appear, however, so that the callsite can be fixed.

commit 3b1df47bd400be9dca34b5e5d1ac2b117f8cc4ed
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 27 22:28:54 2008 -0500

XACE: Require "manage" permission for XKBSetNames.

commit 08afc70513e5496cc5cd8b76c8658c4292119e4b
quirks: another LPL panel with the cm/mm wrong

commit f6d51797a523ecc2d4a8f18b2681160fcd5d1d55
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Wed Feb 27 23:44:39 2008 +0100

EXA: Let the driver decide what repeat/extend types are supported.

commit 41ae6194bd29ab34cc166b3fd90eee64299ddf8
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Wed Feb 27 17:06:27 2008 +0000

More checking for failed contexts/drawables

commit 43e46a654fa7cf69f0c8bcb7f583008d96a98686
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Wed Feb 27 16:58:21 2008 +0000

Fix context sharing between direct/indirect contexts

commit d74b0327e8355546e6b41e8ce684f461d65fa9dc
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Wed Feb 27 09:48:10 2008 +0100

[Xephyr/GL] unbreak the build

Don't touch Xephyr DRI stuff when not compiling in a DRI environment.

commit 2257e20900460d85254734b595238e7ad5ee55c8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Feb 27 17:15:28 2008 +1030

dix: set dev->key to NULL after freeing it in CloseDevice. (Bug #12830)

Otherwise XkbRemoveResourceClient may try to dereference it lateron.

X.Org Bug 12830 <http://bugs.freedesktop.org/show_bug.cgi?id=12830>

commit 3f0681fb0b2d0744c2ef892883ae5359b43a4a9a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Feb 26 23:14:29 2008 -0500

xselinux: Stub out selection protocol requests.

commit 4632ea22580c31d44b0786321668d9e78f02900e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Feb 26 22:00:52 2008 -0500

xselinux: Rip out the selection code in advance of polyinstantiation support.

This resolves an issue where BadWindow errors were being thrown.

commit c8e979b3b800e4c58be454daa0213285d4ee6510
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Feb 26 21:34:22 2008 -0500

security: Register resource names in the server-side name registry.

commit d12b7b6632fb4cf41d2e28c7792ea503f25404a
Author: Dave Airlie <airlied@redhat.com>
Date: Wed Feb 27 07:08:00 2008 +1000

xf86Crtc: add higher level modesetting entry point.

For kernel modesetting work we need a bigger stick to beat the modesetting path

commit dcc077c753137ff37aa58231f1df3c4adb92b2c4b
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Tue Feb 26 12:13:06 2008 +0100

AIGLX: Switch to server context for calling DamageDamageRegion().

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=14518.

commit 23ae68a4c74a2ec90b4130c37b0d0aec3f4082ce
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Feb 26 15:12:36 2008 +1030

dix: before copying the classes the first time, set the VCK's classes to NULL.

XkbFinishDeviceInit does the following:
  xkbi->kbdProc= pXDev->kbdfeed->CtrlProc;
pXDev->kbdfeed->CtrlProc= XkbDDXKeybdCtrlProc;

If we directly copy the device classes for the VCK, pXDev->kbdfeed->CtrlProc at the time of copying is still XkbDDXKeybdCtrlProc. So at some point XkbDDXKeybdCtrlProc is called, and calls itself, and calls itself, and...

Setting the device's classes to NULL seems to fix things. The memory isn't lost, it gets stored into the devPrivates and freed at device closing time.

commit ce9fb2f8c4610016e49321018fc9b24729380afc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xi: MDs return the paired device's ID in attached field of ListInputDevices.

commit c46f7b62d2b9f35937c6e98325ed904895396a
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 18:14:08 2008 -0300

Fine, we don't need pciInit() anymore. Nuke, nuke, nuke...

commit a90505d54249ed9f54c6fe59143b846c9c7548f59
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 18:10:18 2008 -0300

Jesus, pciInit() was called 32 times in my machine without need!

xf86scanpci() will always call pciInit() before any other function, so there's no need to guarantee it after.

commit 81272f7ee9a346e1d102c2ce627a45f92268857
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 17:39:33 2008 -0300

Some doc clean up:
  clean up legacy things in os-support/bus/Pci.c.

  Put InitOutput() comment to its right place.

commit 7c582dd6de27d2f4fedf73319d2dea2bfb240efa
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 17:31:37 2008 -0300

remove lnxPciInit() unused function.

commit 9727db88d57089be6483104de435626cdbc1883a
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 17:08:07 2008 -0300

No more "-scanpci" given that we already have it in libpciaccess.

(Yeah, lets nuke dead code!)

commit f19f7b8e53ed6609fc1fdd272de5521417946209
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Mon Feb 25 17:07:07 2008 -0300

Clean some garbage caused when pciaccess was merged:
FindPCIVideoInfo() function isn't need anymore.

xf86scanpci() is being called only once so we don't need permanent (static) variables there.

restorePciState() is not used for now (until we find why multiple cards aren't working).

commit d61f481a4455dd2a94674d2b726429cf9dcece3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Feb 25 17:52:45 2008 +1030

Xi: remove GetPairedPointer handling.

obsolete, ListInputDevices provides this information now.

commit 27b21278939a06ab6a22c9902f202eaee6c5fae72
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Feb 25 17:00:42 2008 +1030

Xi: remove ungrab handling of ExtendedUngrabDevice request.

This can be done by UngrabDevice, no need for separate codepaths.

commit 4b50e71bf127c8e0f289e3b76c786f0398effe65
Author: Adam Jackson <ajax@redhat.com>
Date: Sun Feb 24 20:25:13 2008 -0500

Bug #13736: Fix %bx in VBEGetPixelClock to match spec.

Reported by Yannick Henault.

commit 6dc369028d3ca741de57ad78febf2f582e0696e
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Sat Feb 23 00:01:02 2008 -0800

XQuartz: Quit now properly warns the user
(cherry picked from commit ed3d7b3959c2a0cb63e37210455bce6cf195b807)

commit e6a4cde16dc99ea02ac93da1d1b9517b1073d159
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 22 18:36:29 2008 -0500

Use the client-side XKB headers for the config utilities

commit 347db49ebe4596db16455ea8a1a608cfa826c5c7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 22 16:05:33 2008 -0500
s/via/openchrome/ in the autoconfig logic.

Xorg's via driver is effectively dead anyway.

commit 69f782676797744815ff76b8a11b11178066f501
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 22 16:04:35 2008 -0500

    Match Xephyr DRI definitions to the ones in xf86dri.h

commit 060a66b6e2fedba43ed207b6fcf2cf117fe39fd
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 24 15:55:58 2007 -0500

    Normalize swapped dispatch for Fixes{ChangeSaveSet,SelectSelectionInput}

commit 24bebbeded44a9e184455b4fee7800257fee81efb
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 24 15:07:49 2007 -0500

    fbFillRegionTiled() is now dead code.

    Only ever called from the old PaintWindow* screen hooks, but those are
gone now. As a pleasant side effect, fb loses its #ifdef PANORAMIX.

commit ee21aba6be0078949204e315dfffdd99de60c2f1
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 24 13:13:19 2007 -0500

    Fix Xinerama's consolidated visual handling.

    Formerly the code claimed it could only handle up to 256 visuals, which
was true. Also true, but not explicitly stated, was that it could only
handle visuals with VID < 256. If you have enough screens, and subsystems
that add lots of visuals, you can easily run off the end. (Made worse
because we allocate visual IDs from the same pool as XIDs.) If your app
then chooses a visual > 256, then the Xinerama code would throw BadMatch
on CreateColormap and your app wouldn't start.

    With this change, PanoramiXVisualTable is gone. Other subsystems that
were using it as a translation table between each screen's visuals now
use a PanoramiXTranslateVisual() helper.

commit a4202b898f07dd733590ae5adb21e48775369781
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Feb 22 18:22:58 2008 +0100
XKB: Actually use the keymap we compile at startup

During XkbInitKeyboardDevice, we compiled a keymap and promptly threw it away; brief inspection revealed the embarassingly simple problem. Sorry.

commit c14fd2a5cb3f45d5c4502e09f55f5e3732c5e698
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Feb 21 15:33:02 2008 +0100

[Xephyr/GL] properly route expose event on GL drawables

When an expose event happens on an host GL window paired with an internal drawable, route that expose event to the clients listening to the expose event on the internal drawable.

commit 437c78ef9ff1177e04b3d6781b5805d89b2ab81a
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Feb 21 15:29:27 2008 +0100

[Xephyr/GL] don't crash when the host returns a NULL server string

commit f343265a289724c81017f089c024a7618267c4e3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 15 19:53:45 2008 -0500

XACE: Make the default window background state configurable per-window.

To recap: the original XC-SECURITY extension disallowed background "None" if the window was untrusted. XACE 1.0 preserved this check as a hook function. XACE pre-2.0 removed the hook and first abolished background "None entirely, then restored it as a global on/off switch in response to Bug #13683. Now it's back to being per-window, via a flag instead of a hook function.

commit 7c2f0a8bebf310707ca923d8c9fde84521e52c88
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 15 19:17:40 2008 -0500

Remove COMPOSITE ifdefs around WindowRec bitfield as it has no ABI effect.

commit 5cb9e15562a32c1f102d94d5e15d5fd298baff3f
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Feb 20 10:36:06 2008 -0800

EXA: Fix Render acceleration in copy and tiling cases.

Code shuffling in a634ec9b03494ba80aeeec28be19662ac96657cc23 broke this by leaving pSrcPixmap = NULL.
commit f14a62f823e257f92745bbcede11838f2ddd32ac8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Feb 19 21:44:10 2008 +1030

dix: set evlen to the size of the reallocated memory.

What a good idea this is... I'm very proud of myself.

commit 67a78e84a81571cedaf7fd214a21ce1bdc4fb3b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Feb 19 21:31:50 2008 +1030

Revert "xfree86: plug a memory leak in xf86LoadModules."

This reverts commit 3abce3ea2b1f43bd111664d4a57e5ccd282acab0 and 6cbaf15e6109ba77819c4070f5b46c78237ec460.

The memory returned to xf86LoadModule was allocated in doPostLoadModule, which calls the respective module's PreInit. As it turns out, input and output drivers store a pointer to the module elsewhere, so freeing it in xf86LoadModule is a bad idea.

For further reference: hw/xfree86/common/xf86Helper.c
    Input drivers: xf86InputDriverList[blah]->module = module;
    Output drivers: xf86DriverList[blah]->module = module;

Unloading the module would not look pretty then.

commit 5f5ec5db35e82ddd9659763875e5d6c63cf1b691
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Tue Feb 19 00:00:11 2008 -0800

XQuartz: unsetenv("DISPLAY") before startx if X11.app can't connect to it.
Also fix casting to silence warning.
(cherry picked from commit a5cbf78471ec6e6ad672dc00118fc7edbd6ddc7c)

commit 750d70267679ddee10590c80ec621d890bd3d4a7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Feb 3 10:25:15 2008 +1030

dix: Ensure enough memory for ClassesChangedEvent for a new device.

Before we enable the device through the driver, we size it up and make sure that the events in the event list contain enough bytes for a possible ClassesChangedEvent lateron.

commit 74628d639719815c1beff4cac84662fa41c55925
Author: Peter Hutterer <peter@cs.unisa.edu.au>
dix: change GetEventList to return length of list and set parameter in place.

Changing DDXs to use new prototype too.

dix: add InputEventListLen and SetMinimumEventSize

The latter is used to increase the amount of allocated memory for the event list. This will be needed for ClassesChangedEvents that can be of more or less arbitrary size (larger than 32 anyway).

xfree86: guard against NULL-pointer dereferences in xf86LoadModules.

Should have been part of 3abce3ea2b1f43bd111664d4a57e5ccd282acab0, but I forgot to git-update-index before I committed.

Thanks to Bill Crawford for pointing it out.

Move input event list initialisation and storage from DDX to DIX.

Rather than letting the DDX allocate the events, allocate them once in the DIX and just pass it around when needed.

DDX should call GetEventList() to obtain this list and then pass it into Get{Pointer|Keyboard}Events.

Xi: make SizeDeviceInfo public and re-use from CreateClassesChangedEvent.
xfree86: plug a memory leak in xf86LoadModules.

LoadModule() returns the only reference to a fresh piece of memory (a ModuleDescPtr). Sadly, xf86LoadModules dropped the return value on the floor leaking memory for each module it loaded.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 6dc71f6b2c7ff49adb504426b4cd206e4745e1e3
Author: Arjan van de Ven <arjan@infradead.org>
Date:   Mon Feb 18 17:52:37 2008 +1030

xfree86: plug memory leak in InitPathList.

All the failure paths were very diligent in freeing the "fullpath" temporary string, but the success case was not. All the content only got strdup(), so it's not live memory anymore.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 1bec6ad8977cefa49cc297a310f5eb0b7cd0b8bc
Author: Arjan van de Ven <arjan@infradead.org>
Date:   Mon Feb 18 17:46:04 2008 +1030

xfree86: plug memory leak in xf86LogInit()

xf86LogInit allocates a piece of memory, stores it in lf. LogInit() will then effectively strdup it, but lf is never freed again.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 6d9d18bf7708eb9e640ef732b5dc4e99a6d5feb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Feb 18 17:25:15 2008 +1030

dix: add support for WindowAccessAllowAll in device access checking.

AllowAll is the last check before the parent window is checked. This allows to override a DenyAll in the parent window in a simpler way than before (the previous method required all devices to be in the permit list).

commit 088067c891a78670d9509f48f56bf3ff9c16a30d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Feb 18 16:46:07 2008 +1030

Xi: even if ChangeDeviceHierarchy fails, we may need to send an event.
Changes are committed instantly, so if at least one change was successful, we must send an event to the client, even if subsequent ones fail.

commit 660739e6bc84eb74f43a277052ce163fae654417
Author: Benjamin Close <Benjamin.Close@clearchain.com>
Date: Fri Feb 15 13:36:34 2008 +1030

dix: Handle the case where a device cursor was removed correctly

In the case that the device cursor was the first in the list of cursors
the window knew about, unsetting the cursor could lead to a segfault
due to pPrev being NULL. Instead catch the condition and correctly remove
the node from the list. Since there is no cursor now set on the device,
we simply return success as the parent windows cursor will propagote
down later.

Signed-off-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit 24db28230120ecce2b65b25164b6e7b407970f9e2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Feb 18 16:16:19 2008 +1030

dix: set num_events to 1 by default. (no RawDeviceEvents anymore)

This should have been part of acb412d5399f865b5048fdd683147cea0f19f0c1.

commit 45d00433e7bfbab476dd02ec92a9fbee40af5dad
Author: Dan Nicholson <dbn.lists@gmail.com>
Date: Tue Jan 15 19:43:16 2008 -0800

glx: Use glapi sources from the mesa tree

With recent mesa HEAD, the glapi sources used only in the xserver glx
module are carried in the mesa tree. Previously, these were generated
separately and committed to the xserver tree.

The build is changed to symlink these files like the other mesa sources.
This reduces the chance for mismatches between mesa's glX API and the
xserver's glX API.

commit fbd776894658e7afb2c55dc8582b2a3efab78a3c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Feb 16 20:01:18 2008 +0200

XKB: Ditch XkbFileInfo

Sorry about the megacommit, but this touches on a lot of stuff.
Get rid of XkbFileInfo, which was pretty seriously redundant, and move the only useful thing it had (defined) into XkbDescRec. defined will be removed pretty soon anyway. Is the compat map pointer non-NULL? Then you have a compat map, congratulations! Anyhow, I digress.

All functions that took an XkbFileInfoPtr now take an XkbDescPtr, _except_ XkmReadFile, which returns an XkbDescPtr *, because people want to deal in XkbDescPtrs, not XkbDescRecs.

commit e5f002eddef1abe324033a3155f01d048536a48d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Feb 16 20:00:47 2008 +0200

XkbProcessOtherEvent: Don't depend on now-removed header

We don't do XKBsrv.h anymore.

commit 2d256f098ae05033ad76672d5ebdb97e6b995
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Feb 16 19:57:37 2008 +0200

XKB: Always set size correctly in XkbCopyKeymap's geometry routines

We were forgetting to set the sizes for sections and rows and a couple of other misc bits in XkbCopyKeymap's geometry. Sort that out, and add a couple of clarifying comments along the way.

commit ab79110a84b2d299eeca0605fa535debed99565
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Feb 3 23:48:57 2008 +1100

XKB: Remove support for pre-built keymaps

Don't load prebuilt keymaps anymore.

commit 1332343910a1880854bae21a790cff198855cd24
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Feb 3 23:43:18 2008 +1100

XKB: Remove usage of client-side types

Since we're no longer sharing with Xlib, don't pass Displays and XPointers everywhere.

commit 534fc5140b039a8c98ab715d0a6740d513b41209
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Feb 3 23:30:22 2008 +1100
XKB: Remove a bunch of mad ifdefs

We have SEEK_SET and size_t, seriously. Also use DebugF instead of ifdef DEBUG, and ditch a couple of random bits that were never used.

commit 0f12a448dcbbbf1f40aa98d09c9d25ee511c5bbf
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Feb 3 23:15:39 2008 +1100

XKB: Deprecate XKBSRV_NEED_FILE_FUNCS

There's no point in having the function definitions be conditional, so whatever.

commit 68bd7ac1930b5cffb6657b8d5f5bf8ae58ae8d9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Feb 3 23:12:15 2008 +1100

XKB: Move headers into the server tree

We need to start breaking the XKB API to enforce sanity, so drag whichever headers we need to do so into the server tree, as the client API is set in stone, being part of Xlib.

commit 37867626e314e74031378a8a4ff06f69b899a3b2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Feb 1 14:41:04 2008 +1100

main(): Remove uncredible failure

NO, NO, NO.

The only way this could possibly be worse is if you were viewing it in Comic Sans.

commit e4eb7e5842f0f56f07e9cf3b16249c172d0a975d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jan 30 23:24:14 2008 +1100

XKB: Delete xkberrs.c

Get rid of the XKB errors code to save a bunch of space.

commit a48cc88ea2674c28b69b8d738b168cbafcf4001f
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Feb 17 18:47:28 2008 +0100
Fix rotation for multi-monitor situation.

- The (x,y)-coordinates of the crtc were not being passed as xFixed values, which made it an obscure bug to find.
- Fix bug #13787.

commit 70c0592a97c7dc9db0576d32b3bdbe4766520509
Author: Maarten Maathuis <madman2003@gmail.com>
Date:   Sun Feb 17 11:21:01 2008 +0100

Resize composite overlay window when the root window changes.

- This allows some compositing managers to work, even after randr12 has changed the root window size.
- Thanks to ajax for figuring out the best place to put this.
- Example:
  - xf86RandR12SetMode() calls EnableDisableFBAccess().
  - That calls xf86SetRootClip() which in turn calls ResizeChildrenWinSize().
  - The final step is the call to PositionWindow().

commit b95059c20746a71e60ef152bb627e1d5c2210d75
Author: Jeremy Huddleston <jeremy@tifa-2.local>
Date:   Sat Feb 16 01:33:13 2008 -0800

  Added Xquartz.plist to EXTRA_DIST
  (cherry picked from commit 70f9495e0c1f1459507064b673fe57b1c90d3c2c)

commit d103820bb8635c63b34b85b45cad95ed9c152d90
Author: Jeremy Huddleston <jeremy@tifa-2.local>
Date:   Sat Feb 16 00:35:50 2008 -0800

  Fixed unescaped newline in EXTRA_DIST
  (cherry picked from commit 567c172c4d400fdfe69e7b096a3877fcee5c2de9f)

commit a7d936c4ac8e3d7227ecbfe0ddc6cc257b450458
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Mon Feb 11 16:09:03 2008 -0800

  XQuartz: Fixed EXTRA_DIST to include localization
  (cherry picked from commit 1b338c2a9330c85490a7c24d52adf24b124b70e6)

commit 0ff6a3ac0d10e80f8f737f228d549f9dd3effd
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Thu Feb 14 22:20:56 2008 -0500

  GLX: Implement support for TTM BO based TFP when available.

commit 879515b1399f87a47010532af70f34b9b09e2a9b
Author: Kristian Høgsberg <krh@sasori.boston.redhat.com>
Add GLX provider for DRI2.

commit b71dc54352bc56a889823040ec19c1d8e118a1f3
Author: Kristian Høgsberg <krh@sasori.boston.redhat.com>
Date: Mon Feb 4 11:58:24 2008 -0500

Add DRI2 module.

commit 005e31d3de04e7003f84a94d30f2b75a9636266e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Fri Feb 15 00:01:32 2008 +0000

AIGLX: Refactor code common between __glXDRI{drawableDestroy,releaseTexImage}.

commit cd78f0d0fc08e4e2339ed09dad1a12802de7729c
Author: Pierre Willenbrock <pierre@pirsoft.de>
Date: Thu Feb 7 21:28:28 2008 +0100

AIGLX: Fix crash after client using GLX_EXT_texture_from_pixmap died.

commit 3e0353c78571890f849a1db47b0540aacc6793bc
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 15 06:42:48 2008 +1100

Bah, macros are hard.

commit e38feeb1492d9a47379b2e4d77dbadd8c421d17f
Author: Maarten Maathuis <madman2003@gmail.com>
Date: Thu Feb 14 18:52:47 2008 +0100

Fix typo in commit b8b7cdf6df3d338c50db670ce4cfd245f9fa8844.

commit b8b7cdf6df3d338c50db670ce4cfd245f9fa8844
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 15 01:31:46 2008 +1100

Silence useless debug spew from XFree86-Misc extension.

commit 4573cb2ce4b859744118d9a33de3599f033cdd2b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 13 20:16:56 2008 -0500

security: Revise set of permissions granted to untrusted clients.

Bug #14480: untrusted access broken on 7.3.
commit e99aadbc2635e87543fe9980d8156c3ede83544f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 13 19:46:29 2008 -0500

xselinux: Add use to permission map for devices.

commit ae43d835bdaef96c3e73d7cee5b105f07340833d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Feb 13 19:39:49 2008 -0500

XACE: Change access modes for some device-related requests.

Opening a device is not really "reading" it.
Requests that globally configure a device should require "manage" access.

commit 921c298c4cdd2c879403ebdacebf48129058cad4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:48:19 2008 +1030

Xi: QueryDevicePointer doesn't have a shared field anymore.

commit b885588756450e2fa25fdd191e300e1e5dd37ec3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:47:31 2008 +1030

Xi: remove FakeDeviceData calls. And one leftover from GrabAccessControl.

FakeDeviceData needs more thoughtful integration.

commit c99a9a97290c51bf2843f42d5683888cea8a3ff6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:43:49 2008 +1030

Xi: remove raw device events.

Need to be better refined.

commit b35a9efa16d9e14378a95c11fa39171b78710996
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:41:49 2008 +1030

Xi: Remove files for GrabAccessControl.

commit b81c330f70c4a4c8f37216aa4856c7f8db93a375
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:32:54 2008 +1030

mi: remove RawDeviceEvent's ID changing.
commit acb412d5399f865b5048fdd683147cea0f19f0c1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 14 09:27:51 2008 +1030

dix: Don't generate RawDeviceEvents anymore.

These events have been removed from the protocol pending some more refinement and more thoughtful integration.

commit ba69904148ac755bec8fbd2a2eb86914f0ef7d4
Author: Adam Jackson <ajax@redhat.com>
Date: Sun Feb 3 22:49:23 2008 +1100

Simplify dlloader a bit more.

commit f750ce53ac450824d0c792d11e6f311cf8abc0
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 1 17:33:48 2008 +1100

Remove some braindamage from ModuleDesc.

Yay dead code elimination.

commit e91ff09568c5579818b6641e88e95c6fe122cbe7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 1 17:21:34 2008 +1100

Friends don't let friends call xf86AddModuleInfo.

That code only existed to leak memory. It can go now, thanks.

commit 0bdd20a0454c94f902fd487485125fb7510fcf5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 1 16:15:58 2008 +1100

Eradicate the VTInit code.

"This option should rarely be used." Never sounds like a better idea.

commit 24089b06243101b1b7f4f24d79fc07f6a93992d5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Feb 1 16:11:13 2008 +1100

Don't bother warning people about the keyboard driver rename, just do it.

commit 2aaf6ac134fa9f61984b1c03929c7b596c971cc8
Author: Adam Jackson <ajax@redhat.com>
Don't even attempt to parse -bpp in xfree86 DDX option parsing.

This hasn't been valid since 1999. Get with the times, man.

commit ef77e4c44197f03b5a802f3eee92476a43f788a86
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 16:03:01 2008 +1100

Remove useless commentary from environment and argument processing.

commit f3b3b37ec6197f8884417fbc26630d3a28f2e319
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 15:36:11 2008 +1100

Use strerror instead of errno values in user strings.

commit b740b865e4c156a40adc6b63fcf215156fc9151a
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 15:16:01 2008 +1100

Silence an error message in ConfigureWindow that never happens.

commit 89d3249c3e7611b22414bc84b10ca6aab4b9a77
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 15:11:27 2008 +1100

Silence FreeResource()

commit 238b816469355159eea98600ca900e3b0a8fa313
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 15:08:03 2008 +1100

X.Org Group -> X.Org Foundation

commit 9113fa3de36e84bbae2727cace82b1cf0d709a86
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 15:03:57 2008 +1100

Silence the harmless FreeFontPath error message.

commit 7c0709a736c0f3aa011de67dd2c2962585ab146e
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Feb 1 14:59:58 2008 +1100

requestingClient is an xprintism, hide it for other servers.
Redact all mention of PanoramiX from user strings.

Remove some MAX* #defines that never get used.

Simplify critical output flushing.

Disable Record by default.

Rip out useless indirection in the callback list management.

XACE: Move the selection access hook to its own function.

Revert "Bug #8937: Extension setup functions not called on server resets"

This reverts commit 5e946dd853a4ebc2722ae023429ce5797de3d7a6.

The devPrivates rework makes this workaround unnecessary.
XQuartz: Fixed layout of Applications->Customize menu

Now resizing it won’t produce weir overlaps of the widgets. Thanks to Pelle Johansson for his help showing me how to do this.
(cherry picked from commit ef3498e92d13c82633fdbe8120396bfbe1e7489a)

commit 3570ca1cb76f084272f7d88bd22c4cfdf03201a77
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Sun Feb 10 18:27:52 2008 -0800

XQuartz: Added option for setting quartz-wm click-through preference
(cherry picked from commit bf54e267c9a7b2b3b9a621da0575776a388b2cb)

commit 8004e160fa8cc75a3f1b7385fee64e5864b3b50a
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Sun Feb 10 16:34:40 2008 -0800

XQuartz: Converted interface to nib 3.x format
(cherry picked from commit 656aad95773bd70fc3504b68bf7e1d292891d93)

commit 0b0a09797302ac2171db5df20fc5110aafce8efbb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 7 15:48:04 2008 +1030

xkb: when copying the keymap, make sure the structs default to 0/NULL.

It actually does help if a pointer is NULL rather than pointing to nirvana when you’re trying to free it lateron. Who would have thought?
(cherry picked from commit 7a97ca667405a42d008265c3a870210cc1da97dd)

commit 7018f280406eb0ef899a4046de274cfdd582881b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 7 15:48:04 2008 +1030

xkb: when copying the keymap, make sure the structs default to 0/NULL.

It actually does help if a pointer is NULL rather than pointing to nirvana when you’re trying to free it lateron. Who would have thought?

commit 66f8001b61d12eaf4905ac71ccbb3f304914d00d
Author: Bart Trojanowski <bart@symbio-technologies.com>
Date: Thu Feb 7 21:26:54 2008 -0500

X86EMU: handle CPUID instruction

After trying to switch from X to VT (or just quit) the video-amd driver
attempts to issue INT 10/0 to go to mode 3 (VGA). The emulator, running
the BIOS code, would then spit out:

c000:0282: A2 ILLEGAL EXTENDED X86 OPCODE!

The opcode was 0F A2, or CPUID; it was not implemented in the emulator.
This simple patch, against 1.3.0.0, handles the CPUID instruction in one of
two ways:
1) if ran on __i386__ or __x86_64__ then it calls the CPUID instruction
directly.
2) if ran elsewhere it returns a canned 486dx4 set of values for
function 1.

This fix allows the video-amd driver to switch back to console mode,
with the GSW BIOS.

Thanks to Symbio Technologies for funding my work, and ThinCan for
providing hardware :)

Signed-off-by: Bart Trojanowski <bart@jukie.net>
Acked-by: Eric Anholt <eric@anholt.net>

commit de16a8c53046764dbdf26a87acc5e984ef00d818
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Feb 7 20:14:16 2008 -0500

    XACE: Correct some protocol error values in the colormap routines.

commit 31934132a490b18ae73010c44e0b23217d8dab2
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Feb 7 16:32:06 2008 -0500

    xselinux: Use the device name in debugging output.

commit 6dcb7d732bfeadc214228d685a13eef30248eb1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Feb 7 16:00:52 2008 -0500

    xselinux: Split devPrivate state into subject and object records.

commit 2259b144f0fd4855085a656111a0c64246733e78
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Feb 7 14:35:02 2008 -0500

    xselinux: Add getattr and setattr to the permission map for properties.

commit 9d5edebe9664f4ac35b82830e000a72d5ca9cbe4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 7 21:22:50 2008 +1030

Xi: finish XKB initialisation before copying the keymap.

commit 96eafa3d4f05997dac8be6a8d66a92410511824c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Feb 5 16:01:56 2008 +1030

    xkb: when copying sections, make sure num_rows is set too.
    (cherry picked from commit 41991fb991313202e8e6b513fe928ba14f8fcb87)

commit 5c3032727509576b7848a5f842e7a1bfabe980
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Feb 5 21:06:05 2008 -0500

    XACE: Push the dix "structure" includes down to the security modules.

commit bb1a577a6822f781f1e38d2434a13914e74f89aa
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Feb 5 20:07:08 2008 -0500

    XACE: Move the property access hook to its own function.

commit d3c36fe721edc55636438bc3e0e7a6c03f62784e
Author: liuhong <liuhong@devlinux-hong.sh.intel.com>
Date: Tue Feb 5 10:54:38 2008 +0800

    validate mode clock for probed modes

Some modes claimed in monitor EDID data may not be supported by
the monitor. So also validating the max clock for probed modes.

commit 4b5b6e7baab58072a983d2ee136965f404c3a74a
Author: liuhong <liuhong@devlinux-hong.sh.intel.com>
Date: Tue Feb 5 10:54:10 2008 +0800

    fix max clock unit

    max clock from EDID data is in MHz, while we need KHz to validate modes.

commit a56ef7aaa4b6ac13c8181f68fe7dad3ca89e6973
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
date: Sat Feb 2 23:04:46 2008 +0100

DIX: Move motion history update until after screen crossing and clipping

Cross screen and clip the coordinates before updating the motion history so that it will have the same contents as the events that are reported.

commit a0284d577aabea8406b72dd63773e341430ebe56
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date:   Sat Feb 2 23:03:51 2008 +0100

dix: Skip call to clipAxis for relative core-events

Relative events that generates both core and extension events will have its axis clipped and screen changed by miPointerSetPosition when the events are processed. For absolute and non core-generating relative events the axis must be clipped if we shouldn't end up completely outside the defined ranges (if any).

commit d9e23c4ff1607a62164b34717ef9af3d52ce2b94
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date:   Sat Feb 2 22:57:32 2008 +0100

Bug # 10324: dix: Add scaling of X and Y on the reported pointer-events

Restore the rescaling code for x and y axis when generating motion events.

commit f04c0838699f1a733735838e74cfbb1677b15dc4
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date:   Sat Feb 2 22:45:31 2008 +0100

Bug # 10324: dix: Allow arbitrary value ranges in GetPointerEvents

Don't use a possitive value as a marker for if a max-value is defined on the valuators. Use the existence of a valid value range instead. This will also make it possible to define arbitrary start and end-values for min and max as long as min < max.

commit 12e532403210c15a25200ef448bfe9701735ab20
Author: Magnus Vigerlöf <Magnus.Vigerlof@ipbo.se>
Date:   Sat Feb 2 22:44:31 2008 +0100

dix: Always add valuator information if present

Send valuator information for all event types, not only for
MotionEvents and absolute button events.

commit 41991fb991313202e8e6b513fe928ba14f8fcb87
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Feb 5 16:01:56 2008 +1030

    xkb: when copying sections, make sure num_rows is set too.

commit 521a7f26e088029707fb9a2bb80c9ddc734a3f8b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Feb 5 18:34:31 2008 +1030

    mi: Only UpdateSpriteForScreen if we actually changed the screen. (Bug #12650)

    X.Org Bug 12650 <http://bugs.freedesktop.org/show_bug.cgi?id=12650>

commit 10617dc0fb7166ccd5b2e92fa708390c2d7d0d27
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Feb 1 14:24:04 2008 +1030

    xfree86: stick two more checks in for num_valuators < MAX_VALUATORS

commit c68f063be639f39c2facbb496e8455e8e3771b41
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Fri Feb 1 14:13:29 2008 +1030

    xfree86: don't call xalloc from signal handlers when posting events.

    Reviewed-by: Peter Hutterer <peter@cs.unisa.edu.au>

commit e5e531ce96264518f278f572a4d0bfcd345aa618
Merge: 6c38682084 1692dfcf197
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jan 31 16:36:17 2008 +1030

    Merge branch ‘master’ into mpx

    Conflicts:

        dix/events.c

commit 6c38682084e24b18bac0ea75729b1183ae01600
Author: Benjamin Tissoires <tissoire@cena.fr>
Date:   Thu Jan 31 15:51:32 2008 +1030

    kdrive: AddInputClient takes a ClientPtr.
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 30 13:04:58 2008 +1030

dix: print out event type if a bogus pointer event occurs.

commit d954f9c80348de294602d931d387e5cd1ef4b9a5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 30 10:39:54 2008 +1030

xkb: don't update LEDs if they don't exist. (Bug #13961)

In some weird cases we call this function when there is no SrvLedInfo on the
device. And it turns out null-pointer dereferences are bad.

X.Org Bug 13961 <http://bugs.freedesktop.org/show_bug.cgi?id=13961>

commit df325be394e1f75c396b2768f81373f2989ae7c
Author: Coleman Kane <cokane@cokane.org>
Date:   Tue Jan 29 09:47:00 2008 -0800

Bug 13101: xorg-server has a typo in hw/xfree86/os-support/bsd/i386_video.c

X.Org Bug #13101 <https://bugs.freedesktop.org/show_bug.cgi?id=13101>
Patch #12360 <https://bugs.freedesktop.org/attachment.cgi?id=12360>

commit 94f412cb7e954fe872fed975487057cbdfbe953c6f
Author: Julien Goodwin <julien@studio442.com.au>
Date:   Sun Jan 27 12:30:16 2008 +1100

Loader: Fix verbosity confusion

'Loading foo' is verbosity 3, whereas 'already built-in' is verbosity 0.
This means that gdm's log would just be full of bare 'module already
built-in' messages.

commit 442838fcb3bf07ac57553ae5600d9e6c59a559bb
Author: Julien Goodwin <julien@studio442.com.au>
Date:   Sun Jan 27 12:27:26 2008 +1100

xorg.conf.man: Fix monitor/output confusion in monitor positioning

On the Intel driver at least, LeftOf/RightOf/Above/Below in xorg.conf refers
to output names, not monitor names. Fix nomenclature in xorg.conf.man.

commit 5b8641a5fde112c19e78ca2954878712e328d403
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jan 29 10:01:37 2008 +1030
xfree86: fix AlwaysCore handling. (Bug #14256)

Assume AlwaysCore being set by default, just like the other options.

X.Org Bug 14256 <http://bugs.freedesktop.org/show_bug.cgi?id=14256>

commit 975ab11799c819a81da1dfe83505194410dcb95
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Jan 26 09:39:54 2008 +1030

cfg: don't reset connection info on disconnect.

If dbus is restarted, we try to connect again and this is difficult if the
busname and/or busobject is not set.
(cherry picked from commit 210eeef495770c1883c842ff003c28ce25f279d4)

commit 7dde5a694a06efed0a9186f05d33f5be6f5dba71
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 13:54:47 2008 +1030

cfg: check connection != NULL before getting dbus' dispatch status.
(cherry picked from commit d23266522390a4ef7203ae7c062b2b920e45f9d7)

commit f0ba7707161b8866e6fde32d6f25be6afdec6cb48
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 13:45:22 2008 +1030

cfg: only shutdown libhal if the connection is valid.

Thanks to libdbus' extensive use of assert we won't just get an error, it'll
bring the whole server down for us.
(cherry picked from commit fb07fab2c07e7b0834724541dc47bfba02ba8574)

commit 2cb0ebec2b85d96289c23c17cfdcdf97ef6877d2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 11:48:13 2008 +1030

cfg: add a debug message, fix a whitespace error.
(cherry picked from commit 7732898aa70e076000f6e6aa9420482896ed996)

commit 4fc2d3cefe8d7868b025aa14af7ed4b730e8f2e49
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Mon Jan 28 12:18:43 2008 -0800

Rootless: RootlessEnsureFrame: Added check for !IsRoot
This was causing an issue with Apple-DRI and was reported here:
http://trac.macosforge.org/projects/xquartz/ticket/51
(cherry picked from commit 116800279d2ec783c63f43d3902627edde6a4eff)

commit 16b0614c8c441eb1692bde9e58fadf54a9c6f00f
Merge: 1a88aed5c8 e915a26397
Author: David Nusinow <dnusinow@debian.org>
Date:   Sat Jan 26 16:13:25 2008 -0500

Merge commit 'upstream/master'

commit 0ac175597712edf09ae676f536746a4d26625e30
Merge: 210eeeef495 e915a26397
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Jan 26 13:55:07 2008 +1030

Merge branch 'master' into mpx

Conflicts:

Xext/sampleEVI.c

commit e915a2639752bc0ea9e6e192e020cc2031c08063
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jan 25 19:22:19 2008 -0500

xselinux: Move the extension to extmod instead of being built-in.

commit 210eeeef495770c1883c842ff003c28ce25f279d4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Jan 26 09:39:54 2008 +1030

config: don't reset connection info on disconnect.

If dbus is restarted, we try to connect again and this is difficult if the
busname and/or busobject is not set.

commit f6a78ee143e3a3ad69538adf2b9675d724468ffa
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jan 25 18:04:10 2008 -0500

XACE: Remove the extension code entirely, XACE is completely static now.

commit 7724c30a751c653ca3e2e8a6752af27bc37de3f0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jan 25 17:28:17 2008 -0500

XACE: Stop using fake requestVectors in favor of a simple hook call.
commit f82329b0811469ddae5c44d6f6f6a838185c11a67c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Jan 25 16:20:46 2008 -0500

XACE: Don't need to actually register a protocol extension.

commit d23266522390a4ef7203ae7c062b2b920e45f9d7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 13:54:47 2008 +1030

config: check connection != NULL before getting dbus' dispatch status.

commit fb07fab2c07e7b0834724541dc47bfba02ba8574
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 13:45:22 2008 +1030

config: only shutdown libhal if the connection is valid.

Thanks to libdbus' extensive use of assert we won't just get an error, it'll
bring the whole server down for us.

commit 7732898aaa70e076000f6e6aa9420482896ed996
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 25 11:48:13 2008 +1030

config: add a debug message, fix a whitespace error.

commit 46794d0c9665f07913980830d038c88d00407612
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 24 19:49:13 2008 -0500

xselininux: Rename SelectionManager to more generic SecurityManager.

commit 466f6552190d1b83d66ebfd71e07921ed6210ee2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 23 16:11:31 2008 +1030

Xi: if deviceid is > 127 assume GE mask is for all devices (XiSelectEvent).

commit 379f057646588fa3211d7ba0ec8d77d2fc0ad246
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 23 16:08:37 2008 +1030

Xext: add GEDeviceMaskIsSet (GE mask checking per device)

If a mask was set for the NULL device, then we pretend the mask is set for all
devices.
Xi: Change window access right check to RecieveAccess in XiSelectEvent.

commit 94a6a65ae7414e8247aa1741ec5c7561e6f4bbe0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 23 15:43:48 2008 +1030

Xext: allow per-device GE masks.

Instead of a single mask per client we allow the storage of a mask per client per device.

commit 6ffeecabb7f3f3173864e0f0af21a99bdc5b5044
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 24 18:11:49 2008 -0500

xselinux: Use a privileged bit in the state instead of passing an index to the permission checking function.

commit 7ba8e97cebafef4d614a6a38314830ec0f925471
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 24 19:09:58 2008 -0500

xselinux: Implement "get context" protocol requests.

commit f0bf9a5231d4f612ac916355118484d055715f32
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 24 19:02:35 2008 -0500

xselinux: Whitespace fixups.

commit 734e115871ce98badb8800383c423493802ae3d3
Author: Hong Liu <hong.liu@intel.com>
Date:   Wed Jan 23 21:04:32 2008 +0800

Bug #12439: add a quirk to use +hsync +vsync for the probed detailed mode.

Samsung 205BW quirk is somehow reworked.

commit cc22b05ea060e08568d0f0abdaccf67bd32662e94
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Jan 22 18:57:11 2008 -0500

There is no such thing as /dev/cpu/mtrr.
commit 1a88aed5c82c7c131e3d473ef7b8766a418fd1b
Author: David Nusinow <dnusinow@debian.org>
Date: Mon Jan 21 21:16:13 2008 -0500

Add tags/TAGS to .gitignore for ctags usage

commit be6c17cf9efebc0bbcc3d9a25f8c5a2450c2161
Author: Matthias Hopf <mhopf@suse.de>
Date: Mon Jan 21 16:13:21 2008 +0100


commit ba315ae5ddd00763147a4b0cdcacba7691793dfc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jan 21 23:43:53 2008 +1030

Xi: add XACE hooks for device creation (ChangeDeviceHierarchy)

AddInputDevice checks for permissions already, so all we do is modify a few
callers to let AID sort it out.

commit 94a21d7d757ce58254accbd5dd3a86810aadeec9f0
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat Jan 19 13:17:45 2008 +0100

AIGLX: Fix GLX_EXT_texture_from_pixmap fallback with EXA.

Use pScreen->GetImage to obtain the pixmap contents instead of dereferencing
pPixmap->devPrivate.ptr directly.

commit e9fa7c1c88a8130a4a8f772e1b2b186b8b777986b5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Jan 18 14:41:20 2008 -0500

CVE-2007-6429: Don't spuriously reject <8bpp shm pixmaps.

Move size validation after depth validation, and only validate size if
the bpp of the pixmap format is > 8. If bpp < 8 then we're already
protected from overflow by the width and height checks.

commit 6492d513c0022d70f838d1b2561442c7a41e401f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 21:44:22 2008 +1030

dix: if a client has a core grab, return the grab device on QueryPointer.

The correct thing would be to return the ClientPointer. However, if the client
for some reason has a core grab on another device (e.g. as result of a passive
grab), return the coordinates of the grabbed device instead.

This makes the use of nautilus a bit saner.

commit cd2ad4c2ed58b49cee085174e77c242048159321
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 20:11:55 2008 +1030

dix: remove some superfluous lines in ProcChangeActivePointerGrab.

commit 8a925d201efac52ef663ea3ff46acc5046178666
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 20:06:29 2008 +1030

dix: free the genericMasks when ungrabbing.

This finally plugs a memory hole created by grabs registering for generic
events.

commit 8949d81a3c79eef351d7c018c76692dcca74b63e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 19:45:54 2008 +1030

include: mark CoreProcessPointerEvent, CoreProcessKeyboardEvent as deprecated.

ProcessOtherEvent does all the work now.

commit d323fd64206dddb4221daa7cf7504daf62c5e7d90
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 19:17:42 2008 +1030

dix: remove inputInfo.pointer reference in EventSelectForWindow

If the window being changed is set as the motion hint window for any device,
the device's motion hint window is set to NULL. Which is kinda what the old
code did, except that it did it with only the VCP.

commit 883811e2bed9c6fceb706e0fb83dgc97518b6f0c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 18 18:48:46 2008 +1030

dix: remove inputInfo.pointer reference in TryClientEvents.

Unfortunately, this requires a change in the TCE API, and thus a change in all
callers. Tough luck.

commit 6e17184486c4309ec8b47c7cf11ef60bb360ac
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Xi: Check for DestroyAccess when trying to delete a master device.

commit 23f3f0e27de90b7b3a375f2a5dd094e6f53552b5
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Sun Jan 13 14:00:25 2008 -0800

XQuartz: Moved SetFrontProcess haco to set_front_process
So it is done by the other thread...
(cherry picked from commit 7429379eb1001ee3dc769daa8fe6b3aef1b9cc8a)

commit 8e133d96740d010a4fd969a8188e6e71fb2cafe2
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date: Thu Jan 17 15:29:06 2008 +0100

Fix for CVE-2008-0006 - PCF Font parser buffer overflow.

commit 6de61f82728df22ea01f9659df6581b87f33f11d
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date: Thu Jan 17 15:28:42 2008 +0100


commit 7dc1717ff0f96b99271a912b8948dfce5164d5ad
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date: Thu Jan 17 15:28:03 2008 +0100


commit dd5e0f5cd5f3a87fee86d999c073ffa7cf89b0a27
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date: Thu Jan 17 15:27:34 2008 +0100

Fix for CVE-2007-6427 - Xinput extension memory corruption.

commit bbde5b62a137ba726a747b838d81e92d72c1b42b
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date: Thu Jan 17 15:26:41 2008 +0100

Fix for CVE-2007-5760 - XFree86 Misc extension out of bounds array index

commit e85130c85f727466fc27be1cfa46c88b257499fb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Jan 5 10:47:39 2008 +0200

Xephyr: One-time keyboard leak fix
Don't leak the originally-allocated keysym map.

commit 0137b0394a248f694448a7d97c9a1a3efcf24e81
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Jan 5 10:43:53 2008 +0200

XKB: XkbCopyKeymap: Don't leak all the sections

Previously, we'd just keep num_sections at 0, which would break the
geometry and lead us to leak sections. Don't do that.

commit b99a43dfe97c1813e1c61f298b1c83c5d5ca88a2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Jan 5 10:38:16 2008 +0200

OS: IO: Zero out client buffers

For alignment reasons, we can write out uninitialised bytes, so allocate
the whole thing with xcalloc.

commit a6a7fadbb03ee99312dfb15ac478ab3c414c1c0b
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Jan 16 20:24:11 2008 -0500

Don't break grab and focus state for a window when redirecting it.

Composite uses an unmap/map cycle to trigger backing pixmap allocation
and cliprect recomputation when a window is redirected or unredirected.
To avoid protocol visible side effects, map and unmap events are
disabled temporarily. However, when a window is unmapped it is also
removed from grabs and loses focus, but these state changes are not
disabled.

This change supresses the unmap side effects during the composite
unmap/map cycle and fixes this bug:

http://bugzilla.gnome.org/show_bug.cgi?id=488264

where compiz would cause gnome-screensaver to lose its grab when
compiz unredirects the fullscreen lock window.

commit e46f6ddecc082b2d507a1e8b57ea30e6b0a2c83
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jan 16 14:24:22 2008 +0100

Yet another Xv extension byte swapping fix.

commit b0bf4308acb706abc87c51658c2251fa86231c35
dix: print out an error when core type can't be converted.

Helps a bit in tracking down bugs.

commit 2a988ed75b7634d7cb6e83bb7aa89bc8768d3a58
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jan 15 19:14:46 2008 +1030

xkb: don't do core key repeats, XI only is the path to light.

commit 4fd0885978be286a68b689824f1d910f929a52b0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jan 15 18:58:42 2008 +1030

Xi: remove some leftovers from ProcessOtherEvents.

Core handling not needed anymore here.

commit 32aa252e988be8cbfd4f7e373fb7b7736ef1f5f2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jan 15 15:22:39 2008 +1030

dix: Process an input event as a single event, instead of two separate ones.

This is a significant shift in how input events are perceived. The common approach was to treat a core event as a different entity than the XI event. This could result in the XI event being delivered to a different client than the core event. This doesn't work nicely if they come from the same device.

Instead, we treat an input event as a single event, that is delivered through two separate APIs. So when delivering an event, we first try the XI event, then the core event. If the window wants neither, we go to the parent and repeat. Once either core or XI has been delivered, the processing stops.

Important: Different to the previous method, if a client registers for core button events, the parent window will not get XI events. This should only cause problems when you're mixing core and XI events, so don't do that!

Generic events don't fit into this yet, they cause me headaches.

commit 7a0d16ef0a103bcb25fa8a20322685f017aa5a3
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Tue Jan 15 03:27:16 2008 -0200

Removed some warnings.
Fix Xephyr compilation without GLX.

commit 315d6a2b1d2a3de308e98d548afe780c59a784fc
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Tue Jan 15 02:59:56 2008 -0200

dix: Emulate core events within CheckDeviceGrabs and ComputeFreezes.

This should restore the correct passive grab processing. When checking for
passive grabs, the core event is emulated and we check first for XI grabs on
the window, then for core grabs. Regardless of which event activates the grab,
the XI event is stored in the device's EQ.

When replaying the event, we take the XI event and replay it on the next
window, again including the emulation of the core event.

commit 0969a9f7497e10794a6534321c10a0e1ac680ad7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jan 15 11:31:12 2008 +1030

xf86Cursors: fix memset for non-square cursors

commit e6ea3147bfb686798dac381e8900f9f18beb88e
Author: Bernardo Innocenti <bernie@codewiz.org>
Date:   Sun Jan 13 19:50:37 2008 -0500

exa: make the prototype for exaGetPixmapFirstPixel() public

This fixes a warning in amd_drv which is using it.

Signed-off-by: Bernardo Innocenti <bernie@codewiz.org>

commit a83a0c5a144da67dab96a857b849f5692b73245d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jan 13 16:14:29 2008 +1030

dix: remove obsolete comment.

Pairings don't exist anymore and the documented issue is a non-issue now.

commit 180a5aba4de3104fed8bc4e7d42a1e3a51575318
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Jan 12 21:24:34 2008 -0800
XQuartz: Fixed copy-paste error with login_shell commit
(cherry picked from commit 6deec3acc6f8010b5b53a1e55a0a2c4080ba69d2)

commit 6fd4a5e2e4d0be0ba0773df831687e11e1262c72
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Jan 12 11:56:00 2008 -0800

XQuartz: Corrected copyright X.org Project -> X.org Foundation
(cherry picked from commit f21631444816fc12b8a534c2cf79e6ac6c2af7e9)

commit f72255639e065d795f7767683e851b1b5b2d9480
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Jan 12 11:35:48 2008 -0800

XQuartz: added 'login_shell' option to defaults
so the user can choose something other than /bin/sh
(cherry picked from commit b549c18cebd3435d70f6285523948974c455a1)

commit ec24a6b5aa732ec6999a27889d9a33cf80123886
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sun Jan 6 18:29:54 2008 -0800

XQuartz: Fixed switching into XQuartz via expose.
(cherry picked from commit 627ed60ce5d7499761028edf379ebd95250d3e04)

commit 6844bd2e63490870bab3c469eecc6030354ef2865
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 9 19:52:00 2008 -0800

More Xv extension byte swapping fixes

commit 38bf01bd1ec925614a6e67a38aa3cefc7b8fe3bca
Merge: 4e85c7c322 0883e838e2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jan 10 13:38:46 2008 +1030

    Merge branch 'master' into mpx

commit 0883e838e25227f0af84d2a90979175724166d16
Author: Peter Harris <peter.harris@hummingbird.com>
Date:   Wed Jan 9 14:52:33 2008 -0500

    xf86misc.c: Avoid use of swapped values

commit 59a63d72a1407a8aaf9878eff7ee7a66f65a42b
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 9 18:42:58 2008 -0800
Fix reference to old versions of XFree86 to not say "Xorg 4.2 or earlier"

commit 4e85c7c322fa14e4229fa294b8e3d3a4d304
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jan 9 17:36:39 2008 +1030

Xi: keep a counter of buttons down to avoid duplicate press/release events.

If two devices are attached to the same master device, pressing button 1 on
each of them leads to two button presses from the same device. Some apps
really don't like that.

So we just put a counter in place and only send the first press and the last
release.

commit e070c2cbe06fbbafce8d417e8b29231c2fde50
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Dec 7 20:18:49 2007 +1030

mi: change infamous "Tossed event ..." error for something more explanatory.

Few whitespace errors fixed.
Two ErrorF's prefixed with [mi].
(cherry picked from commit 117458d2db49efd3f04432ff45871b44c7d4ad57)

commit c31aead0fe9fe424120ce221cd9f76eb6d29a5b5
Author: Richard Purdie <rpurdie@openedhand.com>
Date:   Tue Jan 8 12:12:06 2008 +0100

[Kdrive] make XCalibrate 'orientation aware'

commit 30375cd6d1439a3390b41714fe116aecc94743ca
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon Jan 7 20:57:30 2008 -0500

Don't log DPMS enabling as being from xorg.conf if it's not

commit 981bb9f1e33e4564d1b59c00e808cc43a2e9497b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 18 13:57:07 2007 +1030

dix: set the correct number of valuators in valuator events.

(first_valuator + num_valuators) must never be larger than the number of axes,
otherwise DIX freaks out. And from looking at libXI, anything larger than 6 is
wrong too.
(cherry picked from commit 9f6ae61ad12cc2813d04405458e1ca5aed8a539e)
commit 20ace6321ae464d821c67a82c7023f74ae038176
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jan 7 20:08:56 2008 +1030

dix: don't try to confine cursor on screen restructure if there is no cursor.

   Stops segfaulting when using xrandr. Yay.

commit 57a491e6d3ebecc464c0c861b02c9ddcb1cc62c3c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jan 7 20:06:32 2008 +1030

dix: init GrabPrivateKey to correct value.

   Merge detritus from last pull.

commit 260505e3c5a18044e97d31ea3bce0955e46335c8
Author: David Nusinow <dnusinow@debian.org>
Date: Sun Jan 6 16:37:13 2008 -0500

   Log enabling of DPMS even when it's not set in xorg.conf

commit 7e7622165940934e56ae96ae785a8f88e91a5cf
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 6 16:23:09 2008 +0100

   Fix the name of the XFree86-Misc extension in the xorg.conf manpage.

commit 59df687835c68eda147de47edfe9bc415c0efb4f
Author: Julien Cristau <jcristau@debian.org>
Date: Sun Jan 6 16:57:45 2008 +0100

Document the AllowEmptyInput, AutoAddDevices and AutoEnableDevices flags

   Add documentation for the new AllowEmptyInput, AutoAddDevices and
   AutoEnableDevices server flags in the xorg.conf manpage.

commit 7d226d6a251cb90765be2b50a1973986e5b7605b
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Sat Jan 5 03:14:07 2008 -0800

   XQuartz: Cleanup for strict-prototyping
   Also fixed DarwinEQEnqueue to match changes to the callback
   And also use dpmsstubs.c rather than copying the code into darwin.c
   (cherry picked from commit 4c5c30a4beb7a427b00b180971f548876ad3c11d7)

commit 11967dce11cd953d123d53bb3389aa257c5158e8
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Fri Jan 4 22:54:26 2008 -0800

XQuartz: Fixed copyright in About box for 2008. Happy New Year!

commit aca75f389e2b08096c3caecf03b12a58075cf12c
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Fri Jan 4 12:23:09 2008 -0800

XQuartz: Flush the debug log for easier debugging
Also cleaned up formatting in xpr's eventHandler
(cherry picked from commit 16861d6d4239c7f3918332ef07752f1e211af2b23)

commit 57468a696e1259c1e1c185fc60230e1d195defb7
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Fri Jan 4 12:37:55 2008 +0000

Fix Line drawing with CapNotLast set in PolySegment.

commit 39cb782f28be4efb2621fd8c614f2367eb834412
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jan 3 23:16:06 2008 -0500

XACE: DeleteCallbackList zeroes out its argument so don't do it twice.

commit 7f376f23db463a65176de632ca6094acb55db951
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jan 3 23:08:49 2008 -0500

devPrivates rework: Free callback lists after use.

commit de18703d2a259999e391d11b4e82ee018fb87372d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Jan 3 23:07:24 2008 -0500

dix: Fix bug+leak in callback manager DeleteCallbackList function.

commit 20eb26f9d149993ae360a2c6d1b536b68c9f4069
Author: Alex Deucher <alex@samba.(none)>
Date: Thu Jan 3 22:53:36 2008 -0500

Fix potential crasher in xf86CrtcRotate()

xf86CrtcRotate() is called by randr 1.2 drivers via xf86CrtcSetMode() or xf86SetDesiredModes() during ScreenInit() at which point pScrn->pScreen is not set. If a user specifies a rotation in their config file pScrn->pScreen is dereferenced and boom.

commit 249b9b30c11e03bb113b37cf4712bf88deb6f05
Xi: remove file for the obsolete ChangePointerKeyboardPairing request handling.

commit e4a214e40d35aa957c83b86b4e4abc86c22fbede0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jan 4 13:49:48 2008 +1030

dix: don't free device's devPrivates manually, dixFreePrivates does it.

Merge detritus from last pull.

commit cd0603c2dc5ee000ebce66056bc1a72f99bf617
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 3 21:41:02 2008 -0500

   Bug #13765: Heap corruption in XC-SECURITY extension code.

commit e46d559739e020dc7f6fc6ce0d1fb39c57aab4b1
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 22 15:09:12 2007 -0800

   XQuartz: Cleaned up color map configuration.
   8 bit color still doesn't work, but the -depth command line argument now works properly. 
   (cherry picked from commit 6765949c27c053d22882f54337cdf09203aa5383)

commit 17a9714a6789a389d52dbb40fd1eed1e24c04d64
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jan 3 14:46:54 2008 -0500

   Bug #13794: Update MBE extension devPrivates to new interface.

commit b2da44c76d68a76f20e90bceb268ebf65e132b49
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jan 3 18:51:44 2008 +1030

dix: DoChangeKeyboardControl shouldn't be using inputInfo.keyboard.

commit 9cc41b88df3bb3f1e0a7cb5c224146e651a2cda4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jan 3 18:47:28 2008 +1030

   Xi: ProcXSetClientPointer should directly check for the client from the id.

   The window ID includes the client ID anyway, so we might as well just look up 
   the client directly instead of trying to get the window first and the client 
   from the window.
This also fixes a possible issue with XACE. If the client had permission to write on the client but not on the window, the previous approach would have failed.

commit 521fde28d86d091495da3558d26ab4a938250ffe
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Jan 3 18:43:18 2008 +1030

xfixes: switch a few inputInfo.pointer to PickPointer

commit 37194b13554f0d36343cf73324b128b15bb6a338
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Jan 3 18:36:33 2008 +1030

Xi: switch to using "rc" (instead of "err") as returncode.

All the rest of XI uses rc and returns rc in case of error, so make mpx-related stuff comply. This stops the rest of XI sending the error manually.
This is just a cosmetic change to be in line with the rest.

commit c7e9b67c547c97b2c943eab555b4fe2844e8a91f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Jan 3 18:09:56 2008 +1030

dix: free ClassesRec when a BadAlloc occurs during CoreKeyboardProc.

commit 8da83836b60f7cd75d08482f4311fa0e2ab4e1d
Merge: eace88989c ae869fc766
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Jan 3 17:04:54 2008 +1030

Merge branch 'master' into mpx

Conflicts:

XTrap/xtrapddmi.c
Xext/security.c
Xext/xprint.c
Xext/xtest.c
Xext/xvdisp.c
Xi/exevents.c
Xi/grabdevb.c
Xi/grabdevk.c
Xi/opendev.c
Xi/ungrdev.c
Xi/ungrdevb.c
Xi/ungrdevk.c
dix/cursor.c
dix/devices.c
dix/dixutils.c
dix/events.c
dix/getevents.c
dix/main.c
dix/window.c
hw/xfree86/ramdac/xf86Cursor.c
include/dix.h
include/input.h
include/inputstr.h
mi/midiscr.c
mi/miinitext.c
mi/misprite.c
render/animcur.c
xfixes/cursor.c
xkb/xkbaccessX.c

commit ccf6636d2ca8acdaaeb8da34db507a10a082b0de
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 2 19:28:33 2008 -0800

Kill xf86getpagesize even harder (dummylib & ioport)

commit dfd682b582636a36345144bcf835e3ee46718d90
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 2 19:27:22 2008 -0800

X.Org bug 4947/Sun bug 6646626: Xv extension not byte-swapping properly

X.Org Bugzilla #4947 <https://bugs.freedesktop.org/show_bug.cgi?id=4947>
Sun bug 6646626 <http://bugs.opensolaris.org/bugdatabase/view_bug.do?bug_id=6646626>

Don't use swapped data after swapping it. When done swapping data,
send the swapped data, not the address of the pointer to it, to the client.

commit f6666dccc3b1ac60f850ea53c357a9ef61672a52a
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 2 19:19:55 2008 -0800

Add dixAllocatePrivate stub to dummylib for utils

Normally not necessary, except when building non-optimized/debug causes
the inline functions from private.h to appear in os-support/libxorgos.la

commit 73f422996016107d5f53492e4197bb05ed9c4bb9
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Fix names/types of new $vuidMouse{Get,Set}ScreenPrivates macros

commit 895073f6b41d9313cfe748232c492c5e9f76b443
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Jan 2 18:09:26 2008 -0800

Restore include & typedef needed by dtrace

commit 306fde4082044dfebedd9af41e660baf3ce438
Author: Brian <brian@i915.localnet.net>
Date: Tue Jan 1 09:27:44 2008 -0700

regenerated to add framebuffer object tokens (bug 13800)

commit 5c362c2eb2cfdflf6d667a3e64a0a7bc4942c950
Author: Brian <brian@i915.localnet.net>
Date: Tue Jan 1 09:07:48 2008 -0700

regenerated, adds GL_MAX_3D_TEXTURE_SIZE (see bug 13811)

commit 85365ddf16e2b954d8249b380df53337420ed684
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 28 17:35:54 2007 -0500

EDID 1.4: If given a native pixel format, use it when inferring virtual.

commit 312b30cb03e439644ea10e08fa93268116333f0d
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 28 17:18:30 2007 -0500

EDID 1.4: First detailed mode is always preferred.

... so act like it in the modelist generator, not just the parser.

commit 9dbb73033ae60e7ab85f1469a696e2a52f0cb0fe
Author: Colin Harrison <colin.harrison@virgin.net>
Date: Sat Dec 29 00:02:16 2007 +0200

Rootless: Fix lvalue error from devPrivates change

Instead of trying to use an invalid expression as an lvalue, use the function
call instead.

commit 36ffo5771b0699aa80ad718e24097bc25cb4f00
Author: Jurij Smakov <jurij@wooyd.org>
Date: Fri Dec 28 23:59:53 2007 +0200

GL: Add GLX compile flags lost in modular X server changes

RISC chips that trap on unaligned loads and stores need to define __GLX_ALIGN64. This used to get added to the cflags in the old *.cf files but it no longer does in the modular X server.

Also, Alpha needs to pass -mieee to the compiler as well.

This is a simple backport of a patch that debian, and probably other distributions, have been applying forever. To the best of my knowledge the patch was written by Jurij Smakov. See Debian bug number #388125.

I just checked and this has been rotting for more than a year in freedesktop bugzilla as #8392.

Signed-off-by: David S. Miller <davem@davemloft.net>
commit bae459cfc4f17a5ec5f2810e9f913e3ad2d8b8d4
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 28 16:50:18 2007 -0500

Don't carp on EDID 1.4 blocks anymore.

Also whine more loudly when we get something other than 1.x.

commit 70b2d6cfeb3bcb7b862a2ae29f6ef7cb84d69486
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 28 16:39:00 2007 -0500

Check the gamma value, not its address.

commit 592d814ee09e86e283116a7a1052762ce8398e8e5
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Dec 28 16:37:23 2007 -0500

EDID 1.4: Additional semantics for display feature bits.

First mode is _always_ preferred in 1.4; the bit that used to mean this now means that the preferred mode is also the native pixel format. The old "is GTF" bit now means "is continuous-frequency" instead.

Section 3.6.4, Table 3.14: Feature Support, Notes 4 and 5.
EDID 1.4: Alternate color encodings for digital inputs.

Section 3.6.4, Table 3.14: Feature support.

EDID 1.4: Allow for gamma definition in extension blocks.

Section 3.6.3, Table 3.13: Display Transfer Characteristics (Gamma)

EDID 1.4: Additional aspect ratio semantics for screen size fields.

Section 3.6.2, Table 3.12: Horizontal and Vertical Screen Size or Aspect Ratio.

EDID 1.4: Extended support for digital interfaces.

Section 3.6.1, Table 3.11: Video Input Definition.

EDID 1.4: Decode CVT 3-byte codes and add them to the mode pool.

Section 3.10.3.8: CVT 3 Byte Code Descriptor Definition.

EDID 1.4: Trivial support for new detailed sections.

Nothing actually decoded yet, but at least we print what they are.
New in EDID 1.4:
- Color Management Data (0xF9), Section 3.10.3.7
- CVT 3 Byte Code Descriptor (0xF8), Section 3.10.3.8
- Established Timings III Descriptor (0xF7), section 3.10.3.9
- Manufacturer-specified data tag (0x00 - 0x0F), section 3.10.3.12

commit bac3ecde39cc914ab515991234b7dc2138005b84
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Dec 28 13:33:39 2007 -0500

EDID 1.4: Allow for sync range offsets.

Table 3.26: Display Range Limits & Timing Descriptor Block Definition

commit 3b23dd9fd43a28033d0af7b02088b0c6ca433158
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 28 13:29:45 2007 -0500

xselinux: Fix whitespace warnings.

commit 643c52be32c187a0fd9a031b1e31d97cd551339
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 28 13:26:26 2007 -0500

xselinux: Remove "X" prefix on remaining functions and strings.

Should be evident from the context.

commit f4bc333fc1e8d9fa9911771d2072df4df741c553
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 28 11:56:54 2007 -0500

xselinux: don't FatalError on an invalid class mapping, just disable support.

commit f3780ecec528ed3ead809ba6a388fa0f8aab2a775
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 20 20:32:07 2007 -0500

xselinux: Implement swapped protocol request logic.

commit 1bbf64ab115e2a1121d6f9c0830b1b977f025178
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 20 20:31:34 2007 -0500

xselinux: Remove unnecessary structure definition.

commit 938da5ee389975f910721f1c2cebc2dcec793117
Add HDMI and DisplayPort connector types.

commit 24105cf6582201a94bc39aeac5a795297018aeb5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 28 15:49:50 2007 +0200

Input: Don't reinit devices

If a device is already initialised (i.e. the virtual core devices) during
IASD, don't init them again. This fixes a leak.

commit 941058f8da0d725f909dc97f68c32ce244a9dc0a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 28 15:48:57 2007 +0200

KDrive: Xephyr: Don't leak screen damage structure

commit b2f6cd290c43b88f0d08fb29f8657618a067d2a0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 28 15:48:25 2007 +0200

OS: Don't leak connection translation table on regeneration

commit 190a0506243b39cd8dfc0e12068e3a3f416330f1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 28 15:47:57 2007 +0200

Config: HAL: Don't leak options on failure to add device

This showed up in Xephyr in particular, which denies new device requests.

commit f44fd3f9e41bf467360ace93ef5b532d8f61fb2c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 28 15:47:21 2007 +0200

Config: D-Bus: Don't leak timers

TimerCancel doesn't free the timer: you need TimerFree for that.

commit ae869fc7669764729e13fdd70149ed636753f2a3
Author: David S. Miller <davem@davemloft.net>
Date:   Tue Dec 25 22:42:50 2007 -0800

[SBUS]: Fix build, use getpagesize() instead of xf86getpagesize().
xf86getpagesize() was removed, but this one call site was not fixed up.

Signed-off-by: David S. Miller <davem@davemloft.net>

commit 009f1e4e55200425de2fe0dbce1f0ac0f431fb4cf
Author: Fatih Ac <fatih@pardus.org.tr>
Date:   Tue Dec 25 23:09:49 2007 +0200

  Config: Don't forget to add xkb_rules option

commit 389e8917f66a489455f1d5c70f44c262717538ad
Author: Fatih Ac <fatih@pardus.org.tr>
Date:   Tue Dec 25 22:59:24 2007 +0200

  Config: Fix a memory leak

commit 743008a4812d6b046211ebcf4eab202687b458d5
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 25 14:27:14 2007 -0500

  Report serverClient resources in the X-Resource extension.

commit beb29c605b8c66e1a18b89668aa421c1519645f6
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 21 02:09:01 2007 -0800

  XQuartz: *REALLY* use CFStringCreateWithCString
  I need sleep! Why am I making these stupid mistakes... sorry for pointless commit spam. ugg.
  (cherry picked from commit b16351fc6457aadbe3328472d1d6c25789032940)

commit 5dd895efa305954e2695aa22a9e49acfb65b4d5e
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 21 02:06:47 2007 -0800

  XQuartz: Use CFStringCreateWithCString
  (cherry picked from commit 79782b0e14761dctf3d6635b8ee161b74f06763a)

commit 2c24231fc2027cf5034bb1b663632687f586726
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 21 01:57:43 2007 -0800

  XQuartz: Reduce code duplication in X11.app
  (cherry picked from commit b81809cd91a9f90b7f2de77b1d6f514cee87c32d)

commit f3042a63be0748bb60567144276d2c61b75ba0b7
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 21 01:24:06 2007 -0800
XQuartz: Handle Pseudorami init in miinitext
(cherry picked from commit a585c94fedd4ecbc87524703c01bb128fc2aa951)

commit fa9680a7305d7f906da1bdb40a0863ef66316e6
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 20 19:38:20 2007 -0800

XQuartz: Added localization.
(cherry picked from commit 7a5cc7bfbb296a2c41a580b63324c448f7131db)

commit 603a8b73d46d59e5f9f0be39be8317f3fadfe7e6
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 20 18:29:57 2007 -0800

XQuartz: Cleaned up command line arguments.

commit 4cf3002b6020024f2fc2ed0cc40a872a066e482d
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 20 18:08:40 2007 -0800

XQuartz: Kill off server-main.c and launcher-main.c
Now using xinit
(cherry picked from commit 5d6ae3d299f72df714117948b3d31dcbdd6c0bc)

commit 1f74bef1ad1399323fc0d2e309b808bf32c622e4
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 20 17:33:38 2007 -0800

XQuartz: Don't fork to exec app_to_run.
Plus other housecleaning...
(cherry picked from commit ae302db472f127be082d05b418ede332fae8ccc5)

commit 2d15d439844d4016f169664a338595c11b91b77
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 20 15:46:40 2007 -0800

XQuartz: Use X11ControllerMain()
(cherry picked from commit a9ae932543374aa2540f5a12cc85ef82c85b0e0c)

commit 1393a97ea97b5f7d7b90e3e8c58b5996b600e0c6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Dec 20 16:23:35 2007 -0500

xselinux: Send AVC messages to audit system instead of log file/stderr.

commit 42802a8e6b3d3795acc4f8b7597ea5a48619b5cd
Author: Jeremy Huddleston <jeremy@yuffie.local>
Xquartz: General Cleanup

General code cleanup, whitespace, dead code removal, added missing prototypes.
Made Xquartz come to foreground later in startup, so it doesn't appear for Xquartz -version
(cherry picked from commit 36922e8ff4316c93843aa3fe959cf8df3c7d5892)

commit 7ef7727b800fa4715b80a82850d65b88fde5fe6c
Author: Dave Airlie <airlied@clockmaker.usersys.redhat.com>
Date: Thu Dec 20 10:11:26 2007 +1000

entity sharing: make 'shareable entity non-fatal.

Just because the entity isn't shareable, we should bring down the server.
Just ignore the extra screen and keep going.

commit 50e80c39870adfdc84fdbc00dddf1362117ad443
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Dec 19 16:20:36 2007 +1030

include: never overwrite realInputProc with enqueueInputProc. Bug #13511

In some cases (triggered by a key repeat during a sync grab) XKB unwrapping
 can overwrite the device's realInputProc with the enqueueInputProc. When the
 grab is released and the events are replayed, we end up in an infinite loop.
 Each event is replayed and in replaying pushed to the end of the queue again.

This fix is a hack only. It ensures that the realInputProc is never
 overwritten with the enqueueInputProc.

This fixes Bug #13511 (https://bugs.freedesktop.org/show_bug.cgi?id=13511)
(cherry picked from commit eace88989c3b65d5c20e9f37e9b23c7c8e19335)

commit d0308b64655360517d83e07e866d103c3f2b389d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Dec 19 18:18:10 2007 +1030

Xi: specify correct struct when calculating size of GetDeviceControl reply.

This doesn't change much, as the struct previously given has the same size as
the ones now anyway. Still, we should be pendantic.

Thanks to Simon Thum for reporting.

commit 66b00029e587cec628d0041179a301e888277f8e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Dec 19 18:10:50 2007 +1030
Xext: remove redefinition of Bool.

Thanks to Simon Thum.

commit eace88989c3b65d5c20e9f37ea9b23c7c8e193355
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Dec 19 16:20:36 2007 +1030

include: never overwrite realInputProc with enqueueInputProc. Bug #13511

In some cases (triggered by a key repeat during a sync grab) XKB unwrapping can overwrite the device's realInputProc with the enqueueInputProc. When the grab is released and the events are replayed, we end up in an infinite loop. Each event is replayed and in replaying pushed to the end of the queue again.

This fix is a hack only. It ensures that the realInputProc is never overwritten with the enqueueInputProc.

This fixes Bug #13511 (https://bugs.freedesktop.org/show_bug.cgi?id=13511)

commit bcad2a5a24f30cfd9e3ca31915ed5a55ed094285
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Dec 18 20:19:26 2007 -0500

XACE: Too many arguments to selection access hook.

commit 7721d3e9217b41aeb3a0e5ea5f5b53cbb07db
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 18 19:14:26 2007 -0500

Reference cvt and gtf in the xorg.conf man page.

commit 51fab1eb30691c503f1b4de98b465f2bc2e1394e
Author: Sam Lau <sam.lau@sun.com>
Date:   Tue Dec 18 11:38:47 2007 -0800

Sun bug 6278039: Xevie checking wrong size in swapped XevieSelectInput requests


commit 97c82ce0510808ea9d8a37a0a121e750f6dd8158
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Dec 17 23:11:29 2007 -0500

XACE: Restore the old background None behavior in response to bug #13683.

From the X11 protocol spec:
"If background None is specified, the window has no defined background."

This means that toolkits and apps cannot rely on the "transparent" nature of the current implementation! At some point before the next release, XACE will switch back to a solid background as the default.

commit 9f6ae61ad12cc2813d04405458e1ca5aed8a539e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 18 13:57:07 2007 +1030

dix: set the correct number of valuators in valuator events.

(first_valuator + num_valuators) must never be larger than the number of axes, otherwise DIX freaks out. And from looking at libXI, anything larger than 6 is wrong too.

commit 6a5c3e04fa43b98ccff0d9ad86dd781602f88d0b
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Dec 17 14:59:12 2007 +1000

mi: set the private key to a unique non-zero value

commit a18d28a5efb6021d6c800506cece28a73545aad
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Dec 17 13:49:16 2007 +1000

damn then my cut-n-paste ate my end of lines...

commit d096bad01bf7c7e15b5a2c582718f3333e063ddc
Author: Dave Airlie <airlied@redhat.com>
Date:   Mon Dec 17 13:45:15 2007 +1000

Xquartz ate my DMX - thanks

commit bf20c4374aeab5160a0dc372df9b49f1b6c805f078
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sun Dec 16 01:14:32 2007 -0800

Xquartz: Removed launchd plist and x11-exec. The relevant code is now in xinit. (cherry picked from commit 767b49d9da5d00e59ac1f0d70146798da631cb)

commit 58c2898b62fb0d8e0f175de7cc208dc29d93788
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date:   Sun Dec 16 01:21:45 2007 +0100

xfree86: permit access to io port 0xffff on the hurd

commit b4ef8885e1697b83a0dce9f7fe79155f19241798
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 15 14:00:19 2007 -0800

Xquartz: Fixed launchd detection

commit ff5abc72fccc459d7eac663e5f8e4d40b28749841
Author: Otavio Salvador <otavio@ossystems.com.br>
Date:   Fri Dec 14 17:59:29 2007 -0200

registry: XREGISTRY_UNKNOWN needs to be defined even if XREGISTRY isn't enabled

In case XREGISTRY isn't enabled, XREGISTRY_UNKNOWN is used but it's
not being available. It's now always available.

commit a3f7f7b60e391e6106f5db40b3fe5fbc67ccd836
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Dec 13 20:45:14 2007 -0800

clarified debug message to indicate that we're sleeping
(in case we get reports about slow launch times, this will
help clarify what's happening)
(cherry picked from commit 2eea3483cf893f8f81bacd434b31408dfb38cb06)

commit e0e59b3bbcc4d8e7ac3934a6f6a9e4a15b328c475
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Dec 13 20:44:33 2007 -0800

we need to link against CoreServices, not ApplicationServices
(cherry picked from commit ba4d2096e7953ef5b971682f0e28535da968acb1)

commit 062d9234e233fc4c1c617f59093da973c9d3e2ce
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Dec 13 20:40:27 2007 -0800

fixed bug in x11-exec that prevent icon from showing up
(cherry picked from commit e1f4a0e20d3a52d98954c4b28d0ec4d44564bc32)

commit 95c02adea80a14e18bb51876bc1418eccdade31d
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 14 15:21:40 2007 -0800

Xquartz: Fixed cpprules include

commit 86730337001ba4db6d77f4e42406695e32784b157
Author: Otavio Salvador <otavio@ossystems.com.br>
Date:   Fri Dec 14 08:46:35 2007 -0200

kdrive/ati: use operating system input devices
commit e110255501e2f699709e6978f5e52d3be96333c8  
Author: Otavio Salvador <otavio@ossystems.com.br>  
Date: Fri Dec 14 08:45:09 2007 -0200

    kdrive/vesa: use operating system input devices

commit 863ba390e9df0d37cdf03bf5ebe7fde6288f5  
Author: Otavio Salvador <otavio@ossystems.com.br>  
Date: Fri Dec 14 00:03:13 2007 -0200

    kdrive/fbdev: use operating system input devices

commit ca59d3f7dbb5f3724ff45ea57912c0b1098a73d6  
Author: Arkadiusz Miskiewicz <arekm@maven.pl>  
Date: Thu Dec 13 00:09:08 2007 +0200

    Xprint: Clean up generated files

      Remember to clean generated wrapper files.

commit 5b02a6ca5b31db69d08f2f452494e0393a6260d9  
Author: Bartosz Fabianowski <freebsd@chillt.de>  
Date: Fri Dec 7 02:38:14 2007 +0000

    Input: Fix proximity events with valuators

      Initialise num_events to 1, so we always send a proximity event, and then
      optionally valuator events. Also make sure mieq can deal with valuator
      events sent after proximity events.

commit a14a143832be844b4b890b0160cc9c8293e28c  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Dec 14 00:57:16 2007 -0500

    Bump server version for devPrivates rework / XACE.

commit a2df51f8e95a814c54b806814020155ac8bd177d  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Dec 14 00:53:54 2007 -0500

    Bump video driver ABI and extension ABI for devPrivates rework.

commit 86b2e59bfb79bd042a13c35fb4c0eccc576f629  
Merge: 1c1a4be970 cb0d7e2c26  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Dec 14 00:32:24 2007 -0500
Merge branch 'master' into XACE-SELINUX

Conflicts:

configure.ac

This is the last pull before merging to master.

commit 1c1a4be970be061484bb8dccc945eb08144c656
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Dec 13 19:51:40 2007 -0500

devPrivates rework: more cleanup from previous merge operation.

commit cb0d7e2c2692a332e2bd5495478ebf9a6c6d601d0
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 13 16:23:46 2007 -0800

Xquartz: Don't hardcode libexec dir
(cherry picked from commit 67b479ef80cb740a24981335eb8d596744168a62)

commit c39212fd7353fc1a07a30bade90f78356c748e2d
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Dec 13 15:56:31 2007 -0800

Xquartz: Don't hardcode LaunchAgents dir
(cherry picked from commit 07a12d71f80cb740a24981335eb8d596744168a62)

commit 82e1aff9fbc1d15e3451707e3cbbf4b13e6da94
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Dec 13 15:57:39 2007 -0800

Modified X11 plist to use x11-exec
(cherry picked from commit 07a12d71f80cb740a24981335eb8d596744168a62)

commit 1a5910588a60aa0fe136595e2457d897d9e54ac88
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Dec 13 15:55:28 2007 -0800

created x11-exec wrapper, which uses LaunchServices to find
(and then exec) X11.app
(cherry picked from commit fc04c9759b30d062111d4a7f3f411ed0f18cbde4)

commit c8feb73f5841e7812d8dfdb91f1064e2033d028c
Merge: 9a7ce57363 a125ce4a84
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Dec 13 18:38:25 2007 -0500
Merge branch 'master' into XACE-SELINUX

Conflicts:

Xext/EVI.c
Xext/bigreq.c
Xext/cup.c
Xext/dpms.c
Xext/fontcache.c
Xext/mitmisc.c
Xext/xcmisc.c
Xext/xf86bigfont.c
Xext/xtest.c
configure.ac
dbe/dbe.c
hw/darwin/darwin.h
hw/darwin/darwinEvents.c
hw/darwin/iokit/xfIOKit.h
hw/darwin/iokit/xfIOKitCursor.c
hw/darwin/quartz/fullscreen/fullscreen.c
hw/darwin/quartz/fullscreen/quartzCursor.c
hw/darwin/quartz/quartz.c
hw/darwin/quartz/quartzCommon.h
hw/darwin/quartz/quartzCursor.c
hw/darwin/quartz/xpr/dri.c
hw/darwin/quartz/xpr/dristruct.h
hw/darwin/quartz/xpr/xprCursor.c
hw/darwin/quartz/xpr/xprFrame.c
hw/xfree86/modes/xf86RandR12.c
include/cursor.h
miext/rootless/rootlessCommon.h
miext/rootless/rootlessScreen.c
miext/rootless/rootlessWindow.c
render/picturestr.h

Trying to pick up the pieces from the darwin churn here...

commit efcde0d7010f4e6ec833842cb010a07068edf7ab
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Dec 13 15:38:41 2007 -0500

Correct the documentation comments in xf86Modes.c

Most of those functions do not, in fact, work with circular mode lists,
and by this point the API isn't really "proposed" anymore.

commit 1768af38c737f4c14d32f587b51a8ec3d3d6ed5f
Author: Adam Jackson <ajax@redhat.com>
Add infrastructure for validating modes by memory bandwidth.

commit 4359193aaa522599c502d012b9c163e993c01d79
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Dec 13 10:59:48 2007 -0500

Explain a confusing #ifdef.

commit 8cedbb0a53d47b12f03edbb726db9d5879c8a63a4
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Dec 13 10:57:35 2007 -0500

Clean up some #if 0.

commit 9a7ce573636e349ee2967991c7cc1407e80ae524
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Dec 12 20:44:59 2007 -0500

xselinx: Add new protocol for setting device create context.

commit a125ce4a84f5fb5934fefebd7cfb22a83180874d
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Dec 12 12:20:54 2007 -0800

Fix dist by including modeline2c.awk.

This was broken by commit cb44b6121c4b7b9dd7ff4f52aaab914c82ff013, which removed modeline2c.pl from EXTRA_DIST without adding modeline2c.awk.

commit 671592343701d8174a70ff1ffbb9c818784ea3af7a
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Dec 12 10:59:15 2007 -0800

Get rid of xf86DefModes.c.

It's out of date and not included in the build. Instead, xf86DefModeSet.c is built from vesamodes and extramodes using modeline2c.awk and *that's* what gets built.

commit d86ef72ecc0a0129a722ffaca93dfc7c0c60e842
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Dec 7 20:40:21 2007 +1030

dix: when getting a bogus event, at least print out the type.

commit eab0ce49015fe96f6d985316f9c5fa28a7eb1fe
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Mon Dec 10 20:57:24 2007 -0800

Xquartz: Pre-process Xquartz man page
(cherry picked from commit dec2633c41dd0adf73264a1df251a6522d6ae76a)

commit 1ff945a8e43e622b39b360ee49efd6ae3b77be67
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Mon Dec 10 20:47:48 2007 -0800

Xquartz: Make Alt work with Xmodmap again
(cherry picked from commit 0e017177dcca7185716ca760dcce9dddec7bfe9)

commit 7d61893b49569a72bcdb63f1a8ec9ce4ef4e354f
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Mon Dec 10 20:33:30 2007 -0800

Xquartz: Removed Xplugin.h from EXTRA_DIST
(cherry picked from commit a746383eca77c9b9ea2c6ba0c1c8fe39c0f7d536)

commit 8f2eff643bf421bc4233fbaa2409b75d9f80d147
Author: Ben Byer <bbyer@bbyer.local>
Date:   Sat Dec 8 23:34:40 2007 -0800

remove Xplugin.h, because we should use the one in /usr/include
(cherry picked from commit 3e881032f35f774f9638678d7e3f77c81f62976)

commit 7b573ed43672b1fac7b4e6df85a657942ab4c9a6
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sun Dec 9 12:02:04 2007 -0800

Xquartz: Added missing link to libconfig.a
(cherry picked from commit 14ec1cf1cb7ebc183c05e13f9c2b4b4eed679ff3)

commit cd13c4ba57a1bdfb419cb492a96a72dcecf2681e
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 13:18:17 2007 -0800

.gitignore: added hw/xquartz/bundle/org.x.X11.plist

commit 020b0e92b039d6dadaea0bbdb890b6a01037bf9b6
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 11:49:37 2007 -0800

Xquartz Added quartzKeyboard.h to EXTRA_DIST
(cherry picked from commit 37c9781fd672229ceab101b080762e15512943f)

commit 5e016fa9b2bf28971ed1794f4706ce6538b1d411c
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Added darwinEvents.h to EXTRA_DIST
(cherry picked from commit 45e5247564c423a2bf02cfec1993155858c91a14)

commit 6bb5dacc1710cbededbb9b28ba89a184ecd0931c
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 01:41:37 2007 -0800

Xquartz: Actually add quartzForeground.[hc]
Sorry for the commit spam... I'm tired and was overly quick to commit... forgot to include a neccessary file.
(cherry picked from commit e564b7aeeab63e4c943445275af680b3b5898a94)

commit 02df03667052fa6a4e040f9b1a005dc48e9b39c4
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 01:28:26 2007 -0800

Xquartz: Actually, it should be org.x.X11 for case-sensitive FS
(cherry picked from commit c5cc98d5d461c8a22f0f3942a607ac90e1e37e)

commit 740cc54f081393d4ffe1a3e91e9e504daee3fe9
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 01:24:58 2007 -0800

Xquartz: Use org.x.X11 instead of com.apple.X11 for preferences
Fixed inconsistency so preferences get read from the correct source.
(cherry picked from commit a74c38bd9f28735acd602d359d7ca6357aed1e93)

commit 41a0aeeae9b7b2f8cc2468fd1f3ee11287d34828
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Sat Dec 8 00:13:47 2007 -0800

XQuartz: Fixed "Multiple Dock Icons"
BAM!
(cherry picked from commit d0dca8a88506f50b51f41f99a2f1feb6954c8a31)
(cherry picked from commit 0502955a2af487b51bf22916ac02e497c2d96aba)

commit a1b0346853720e98963910b82603c5cda72bb7f9
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Dec 7 23:26:11 2007 -0800

XQuartz: Cleaned up configure, X11.app path in launchd script
Don't hardcode X11.app's path in the launchd plist.
Only install the launchd plist if we --enable-launchd.
(cherry picked from commit 6b74c535dc331d1d621b2541492a3336f69d70a2)

commit 1157cfcc5a4e2a7299a4e48df04a1ce8d5093906
Author: Ben Byer <bbyer@bbyer.local>
Date:   Fri Dec 7 21:55:42 2007 -0800

Just a couple of small uninitialized pointer fixes
(cherry picked from commit d12b650362da100ceaeceb7e859cd4ef1908d4407)

commit 0ad1c359c5b0be63748f5c630ec97be88a8cc92ce
Author: Jeremy Huddleston <jeremy@dhcp-38-248.EECS.Berkeley.EDU>
Date:   Fri Dec 7 18:54:58 2007 -0800

Darwin: Use __APPLE__ instead of __DARWIN__
(cherry picked from commit 54654815fa5e59b25cfd1fa72610120b72c10175)

commit 85ed0bb44011312dfaa9f2dc31642a0f89ec0bd3
Author: Brice Goglin <bgoglin@debian.org>
Date:   Sat Dec 8 02:53:27 2007 +0100

Add a missing linebreak after LoadModule: "foo"

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=454742

commit 4fc288a13f825db942c9dcd64f4ab0d0265652faf
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Dec 7 17:28:37 2007 -0800

Check for <sys/sdt.h> as well when determining to enable dtrace probes

Avoids auto-detecting dtrace is present on systems with the ISDN trace tool
named dtrace installed, but not the dynamic tracing facility named dtrace

commit 67907904f094c803d5af6fa2ce23c01f9a5a521
Author: Ben Byer <bbyer@bbyer.local>
Date:   Fri Dec 7 01:51:53 2007 -0800

fixed pathname in GL/apple/Makefile.am
(cherry picked from commit b6357ec6d837226009c0d2b69026027da36656e)

commit 56f5066d477836a975122f4e5748c0f4fb790175
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Dec 6 20:51:32 2007 -0800

ALLOCATE_LOCAL is dangerous on Darwin due to memory layout differences
from Linux, so let's define NO_ALLOCA.
(cherry picked from commit 7caf51d1a5a86ae884e0087795636222c082962c)

commit c238ef06a270c0c1d48cdb9175b6d5815c7c2a49
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Dec 5 21:36:34 2007 -0800
Darwin: Dead coded removal
Kill off assert macro
(cherry picked from commit d6493abedeb2caf03b2bc3a6440b637df67eff081)

commit 3a058456e0ce531b21ae2b37be8868b8e0d56e56
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Dec 7 20:23:36 2007 +1030

    mi: unify ErrorFs, prepend [mi]

commit c5acf401dad6fca47f2bb870185c1d08ae947a5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Dec 7 20:19:43 2007 +1030

    mi: unify last two ErrorF's in mieq.c

commit 117458d2db49e6d3f04432ff45871b44c7d4ad57
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Dec 7 20:18:49 2007 +1030

    mi: change infamous "Tossed event ..." error for something more explanatory.
            Few whitespace errors fixed.
            Two ErrorFs prefixed with [mi].

commit 8a8239f2e21795602ffcf5281833b350e6b2a286
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Dec 5 21:23:36 2007 -0800

    Darwin: Renamed DarwinModeBlah to QuartzBlah
            (cherry picked from commit 08ebf86d379b1ddf08df65d29aea5df66de4327)

commit 540439a966c3cfc68a7e4b7fd5bcab1b20725f
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Dec 5 20:55:06 2007 -0800

    .gitignore: Added Xcode user files

commit bc65a243930e4b02f06a861495420b0a120eae8c
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Wed Dec 5 19:43:49 2007 -0800

    Darwin: Flattened quartz into darwin, renamed darwin xquartz
            Leaving xpr unflattened since we want modularity to replace that with xpc (XPluginComposite) at some point
            (cherry picked from commit 48e6a75fbd0fee86e364f02ace83f265a32a2b2)

commit e00f7061b22001989edf5bd38c2d0cc1566fdd19
Darwin: Cleaned up keyboard interface headers
(cherry picked from commit 141f69dc3d8d6e7d8ff65607f43700ac11243041)

commit cb44b6121c4b7b9dd7ff4ff52aaab914c82ff013
Author: Andrew Oakley <andrew@ado.is-a-geek.net>
Date:   Wed Dec 5 20:23:05 2007 -0500

Fix commit aa0dfb3f42f19bb351ca7f1a9507ff5ec4590e96
From bugzilla bug 13467:

Currently the xserver fails to build without this (now deleted) file, as the
Makefile tries to distribute it. The patch simply removes the reference to
modeline2c.pl.


Signed-off-by: James Cloos <cloos@jhcloos.com>

commit 320abd7d7d1d906807448fa01ad3377daf707f46cc
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Dec 5 19:37:48 2007 +0000

XKB: Actions: Don't run certain actions on the core keyboard

Don't run VT switches, terminations, or anything, on the core keyboard: only
run actions which affect the keyboard state. If we get an action such as VT
switch, just swallow the event.

commit 85dd8efac1bc0715f03c99d261b1c5d0980623e1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Dec 5 19:36:59 2007 +0000

WaitForSomething: Ignore EAGAIN

If select ever returns EAGAIN, don't bother complaining.

commit b7f3618f3933a810778093fd47564a1e3bf3fde6
Author: Rich Coe <Richard.Coe@med.ge.com>
Date:   Wed Dec 5 19:36:37 2007 +0000

OS: Connection: Keep trying select while it gets interrupted (bug #9240)

If we got interrupted (EINTR or EAGAIN) during select, just try again, rather
than shutting clients down on either of these errors.
commit d8b2cad3771a09860e7be1726f67e684cf7caeec
Author: Rich Coe <Richard.Coe@med.ge.com>
Date:   Wed Dec 5 19:31:07 2007 +0000

OS: Connection: Don't shut down disappeared clients (bug #7876)

If a client disappears in the middle of CheckConnections (presumably because its appgroup leader disappears), then don't attempt to shut it down a second time, when it's already vanished.

commit a8e27a108abea73b2888da4e0604008f4b02045
Author: Kanru Chen <koster@debian.org.tw>
Date:   Mon Dec 3 12:46:45 2007 +0000

Config: HAL: Fix XKB option parsing

Actually combine the XKB options into a string, rather than just repeatedly writing a comma.

commit 2d723bbd0d36f6d7763b4df3298d40720f97fdd0
Author: Peter Harris <peter.harris@hummingbird.com>
Date:   Mon Oct 29 18:05:19 2007 -0400

Add missing swaps in panoramiXSwap.c

commit 0fccb24aa978b838cf0fb008e9695837e612c529
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Nov 30 20:35:26 2007 +0200

ProcessOtherEvent: Don't do double translation of button events

We already deal with the button mapping in GetPointerEvents, so don't do the remapping again in ProcessOtherEvent.

commit c6cfcd408df3e44d0094946c0a7d2fa944b4d2d1
Author: Hong Liu <hong.liu@intel.com>
Date:   Wed Dec 5 17:48:28 2007 +0100

Bug 13308: Verify and reject obviously broken modes.

commit 8d0efe4c2a48047680af40e5f6d639f426902e07
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Tue Dec 4 17:59:13 2007 -0800

Darwin: Rework build system to more accurately reveal code infrastructure and facilitate future modularity. (cherry picked from commit e8399fd4d66a2b77b770c277e2fa424229a721b2)

commit cc98a8e2415f12c7a90fd846d1ec858068e8c796

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Darwin: RIP dumpkeymap, cr, and fullscreen
Taking out the trash.
We don't need dumpkeymap since we'll be getting keymaps straight from the OS. Xmodmap should be sufficient for any user-needed changes. If this is not the case, please let us know, so we can address any problems you have.
cr isn't being used and xpr is much better.
(cherry picked from commit e41af2967e885466c4d194fa4c3b358e6be37c30)

commit 13af2d1efcc83d1412a4c727afddd97577b00f32
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Dec 4 17:36:21 2007 -0500

Restore xf86getsecs() as not having an ANSI equivalent.

commit 447cd5d411875b62eb1a501bf00e604225b74d26
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 4 19:09:37 2007 +1030

dix: update comments about inputInfo.pointer.

commit f44d7dcb5f6fca3ddf45e75d0bd0b47ec785e48
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 4 19:07:46 2007 +1030

dix: change the filters to be per-device.

If we have one global filter, one pointer may change the filter value and affect another pointer.

Reproduceable effect:
blackbox and xterm, start dragging xterm then click anywhere with the other pointer (attached to different mastered device!). The button release resets the filter[Motion_Filter(button)] value, thus stopping dragging and no event is sent to the client anymore.
Having the filters set per device gets around this.

commit 0931f40bf1bd6e00b8d95968d761a495b2e9a46c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 4 17:08:56 2007 +1030

dix: comments, whitespaces, copyright fixes.

Removing my copyright message for now, should eventually be in line with the rest of the messages.
commit 09c0c1a3cc4807813774a3c0e28a7ba9a87bb5c7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 4 16:51:52 2007 +1030

dix: remove #ifdef XINPUT.

No escaping XINPUT anymore.

commit f8d7729df388c142624def36ba6d8e3b15922018
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Mon Dec 3 20:20:05 2007 -0800

Darwin: Combine launcher and server X11.app
This should hopefully eliminate confusion some people have over which X11.app is which.
Now BOTH are in /A/U/X11.app and we intelligently determine whether to execute our app_to_run
or launch the server. If arguments are given, we launch the server. Otherwise if we can
connect to an X DISPLAY, we execute app_to_run. Otherwise, we launch the server.

(cherry picked from commit e7026216ccaa8e4fb073800ba947c9909d4faada)

commit 678f786715d76e972f8a77807c9caf3e90c24418
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Dec 4 12:24:47 2007 +1100

xf86crtc: oh mon could be NULL, so check before quirks

commit a9df4bb555fd91707a68794c2dce24fb06e6cf64
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Dec 4 12:17:29 2007 +1100

xf86Crtc: pass correct parameter.

quite how this has worked I've no idea.

commit fe25f897c62bb324660217e15dbd3091c808dbba
Author: Adam Jackson <ajax@redhat.com>
Date:   Mon Dec 3 18:34:40 2007 -0500

xf86getpagesize -> getpagesize elsewhere in os-support/

commit b84f2833a681585162b8dabfb02ff62e7e0ef4d6
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 3 14:52:17 2007 -0800

xf86getpagesize() -> getpagesize() in os-support/solaris/sunbios.c

commit aa0dfb3f42f19bb351ca7f1a9507ff5ec4590e96
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Author: James Cloos <cloos@jhcloos.com>
Date: Mon Dec 3 16:57:58 2007 -0500

Remove Perl dependency from the build
From bugzilla bug 13467¹:

The modeline2c script is the only part of the Xorg server that requires Perl.
[This] is a simpler replacement that works with any normal AWK.

¹] http://bugs.freedesktop.org/show_bug.cgi?id=13467

Bug was posted by Joerg Sonnenberger <joerg@NetBSD.org>.

commit 60086d90168265795e07a60939e9e2fe95c6e15c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Dec 3 11:30:58 2007 -0800

Use pkg-config to get -I, -L & -R flags needed for OpenSSL

Still just uses -lcrypto instead of the full library list from --libs

commit b77ca7cc9ec23184c4ab367baf1b3ed0acf27c269
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Dec 3 11:29:54 2007 -0800

Use _X_EXPORT instead of __attribute__((visibility("default")))

commit 1fab797cbfe1a4804b7ea6b47e1ca9d4e4324e4
Author: Adam Jackson <ajax@redhat.com>
Date: Mon Dec 3 14:12:58 2007 -0500

Death to libcwrapper.

This has been deprecated since 1.1. Since we're breaking ABI again anyway, remove it entirely.

commit 28b93d74a11a064d68a214fcaa7b0aed684a38
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Dec 3 14:32:53 2007 +1030

ephyr: miPointerWarpCursor needs the device parameter.

Thanks to Mitchell Quille for spotting it.

commit 004876355b43fb4d3c2bc5653a7dc1bdf3f985ee
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Nov 30 13:56:04 2007 +1030
dix: Remove RegisterPairingClient and UnregisterPairingClient.

commit f4dc521b38560c8f93b614316a3a5511941a93a9
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Sun Dec 2 18:21:40 2007 -0800

   Darwin: Added {/System/}Library/Fonts to DEFAULT_FONT_PATH
   (cherry picked from commit b0069b04ddaa2df6d4cf86f96f8a2a257e47e)

commit 0fff01f5660fb3bb9284f97c45dc76154435d02b
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date:   Sun Dec 2 14:15:36 2007 -0500

   Fix swapped Xv dispatch under Xinerama.
   
   Same-endian dispatch was properly calling through the Xinerama wrapping,
   but other-endian dispatch wasn't.

commit fa47910045c3700d8d668b5e214e5ffce1e8dc3e7
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Dec 2 12:39:05 2007 -0500

   Clean up many #if 0.

commit 83ba1e167c1473ac7d85239a6ee5ed629353cb16
Author: Ben Byer <bbyer@bbyer.local>
Date:   Sat Dec 1 18:28:19 2007 -0800

   added missing call to xcb_connect()
   (cherry picked from commit dc2fb323ee11f081d447605be151024f9e2487f9)

commit 9ad4560b3cb3d42e647d6227746d4d037616d57cf
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Sat Dec 1 16:23:23 2007 -0800

   Darwin: Alt is Mode_switch Switching to Mode_switch to maintain compatibility with Tiger X11.
   (cherry picked from commit 8a76e99e0ebabf7375f3a9c75c4f7921a79024da)

commit f83d758dcc4878849a851c8466f6fa16b2b7cd8e
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Nov 30 16:11:15 2007 -0800

   Darwin: properly implemented xcb check for stale sockets
   (cherry picked from commit f543cb8fbb3d9213cb03396f4252ab9821319993)

commit f54b28eeba119c42d0fcccfebe295306dd670221a
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date:   Fri Nov 30 16:09:23 2007 -0800
Darwin: Undo focus-hack which didn't work right.

commit f30abe30c5f6ea10e680aa12f3f3e87ee8ce1a0201
Author: Dave Airlie <airlied@linux.ie>
Date: Fri Nov 30 13:52:06 2007 +1000

edid quirk for MAX 0x77e monitor

From RH bugzilla 306441

commit 6216abe0c1a94efa4b2f0d14e88278f128304cd2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Nov 30 11:34:24 2007 +1030

dix: avoid activating the VCP/VCK twice.

This may set dev->key-xkbinfo to NULL, causing a segfault in xkb code lateron.
Spotted by David Huggins-Daines.

commit 9eb8ea9e615eb8b568711eeeca36aa84aa781ad3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Nov 30 11:32:59 2007 +1030

dix: only freeze the paired MD on a grab, not all other devices.

commit 8a079be0dd0f2ece37b68988c8de4ac8895522b088
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Thu Nov 29 02:19:22 2007 -0800

Darwin: #ifdefs around dix-config.h include and NDEBUG/assert.h workaround.
(cherry picked from commit d2b768890f0878ae4e3fecd7f7219e82b79256133)

commit 38397560612424b5b348f34c1a0bea8c47a574be
Author: Jeremy Huddleston <jeremy@yuffie.local>
Date: Wed Nov 28 23:07:41 2007 -0800

Darwin: Removed support for darwinSwapAltMeta
(cherry picked from commit 3d153c8fa40986d194b7701f5eafa0080e32399a)

commit 89c3dfe413a17af4f27b20e23623dc5777670feb
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Nov 29 19:55:24 2007 +1100

modes: use xf86RandR12Index to stop illegal access

xf86RandR12Index set to -1, and if initialised it gets 0 or higher.
This allows the server to start with xinerama turned on with only one head
commit 725710fd0bce990b2c35e4c76128ef1c668013299
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Nov 29 19:40:53 2007 +1100

randr: make randr code not segfault when xinerama set

commit e4fe0a3cb789b8757f1c80f606dfe32bceda582
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 29 09:55:24 2007 +1030

xb: swap a LookupKeyboardDevice over in favour of GetPairedDevice

The former always returns the VCK, which is obviously wrong if we have
multiple devices.

commit 23b8ca8a373d919225de9739af7b064f650eceec
Author: Adam Jackson <ajax@redhat.com>
Date:   Tue Nov 27 13:20:40 2007 -0500

RANDR 1.2: Only enable unknown outputs if there are no connected outputs.

Otherwise you end up with a confusing initial geometry, and xscreensaver
and friends get very angry.

commit edebe76cfdb31072d18a6fcd3ee8f1d95006855f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 27 10:22:44 2007 +1030

Xi: set DeviceXXXState's length fields to the correct size of the struct.

Setting it to the size of a pointer is an interesting but equally wrong
approach. Luckily Xlib never used this field anyway so nobody got hurt so far.

Spotted by Simon Thum.
(cherry picked from commit 0f2398d06ce591724e388b3270800c5e22b3de2d)

commit 0f2398d06ce591724e388b3270800c5e22b3de2d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 27 10:22:44 2007 +1030

Xi: set DeviceXXXState's length fields to the correct size of the struct.

Setting it to the size of a pointer is an interesting but equally wrong
approach. Luckily Xlib never used this field anyway so nobody got hurt so far.

Spotted by Simon Thum.
Darwin, Rootless: Makefile cleanup
(cherry picked from commit 9e6d8a035b712b219833653ac637b89703a9b0c3)

commit 8503072e1c2b89dca786d4afb72aa60a170d2fbd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 16:52:41 2007 -0500

registry: add missing include statement.

commit 996b621bec1bbc4f2b21970c75eaec62053bc6c6cb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 15:59:44 2007 -0500

registry: swap out the DTRACE XErrorDB stuff for the new registry call.

commit 54cb729ecc2d366c1af836eb3d2ffce8e864e9b79
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 15:59:01 2007 -0500

registry: Add a call for DTRACE compatibility.

commit decd5a7c605e42c99b6a4523c8e1833b859d9b24
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 15:26:49 2007 -0500

registry: Rebase registry to use the server config file of protocol names.

commit 9b0e72c8d960d056276f5fa93f3cc2872825711e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 15:26:04 2007 -0500

registry: Add a great big list of protocol names, like the XErrorDB that ships with Xlib. This is considered temporary, until server-side XCB can solve the problem programmatically.

commit c0f9e204ba0218466973868c5eafed0f78e6b8b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 26 15:24:15 2007 -0500

registry: rename the SERVERCONFIGdir and relocate it to /usr/lib/xorg by default.

commit a344920ae86c1970e4cc34ee91e2f2008d490c49
Author: Adam Jackson <ajax@redhat.com>
Allow Virtual to be specified globally in the Screen section.

The Display subsections are optional, and it's confusing to need to create them just to set a Virtual size.

commit c6c284e64b1f537a3243856cf78cf3f2324e4c2b
Author: Matthias Hopf <mhopf@suse.de>
Date:   Mon Nov 26 15:38:20 2007 +0100

Initialize Mode with 0 in xf86RandRModeConvert.

Asking for trouble if non-initialized values contain random data.

commit a4edfbeb022f9635c2e9b9eb229cb622834dc68c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Nov 24 16:16:48 2007 +1030

mi: only call UpdateSpriteForScreen if the screen actually changed.

If we call it unconditionally, we flip the dev->spriteInfo->sprite permanently when using XTestFakeInput (once in CheckMotion as called from the processInputProc, another time in UpdateSpriteForScreen when we actually warp the cursor). USFS also updates to the screen's root window unconditionally, which is not really what we want if we haven't changed screen at all.

commit bf3198c8c56289244c58d36c688642479fd3481
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Nov 24 15:00:57 2007 +1030

dix: fix typo

commit 5dabe448bda68a483bf444a4adfed2b25b30f600
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Nov 24 15:00:43 2007 +1030

dix: Add special treatment of NotifyUngrab for enter/leave events.

In some cases (e.g. using x2x) the previous model broke, with a window ending not counting down to 0 anymore. Special treatment for NotifyUngrab seems to help here.

Current solution: If a NotifyGrab is to be sent ignore it. If a NotifyUngrab enter is sent, only adjust the semaphore if it is on 0. Likewise, do the same for a NotifyUngrab leave if the semaphore is on 1. This seems to work alright so far.
commit 33b94da6327d3423b4ebc1a58d5894c9904e67c9
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Nov 23 16:01:11 2007 -0800

Re-add call to XFixesExtensionInit for static servers.

This reverts a portion of bcbaf2a0ce34b6c5e41d2831b88b87dbd0617a89b which
removed the call to XFixesExtensionInit and some cpp lines.

commit f6401f944d327cc5d9a7ee0bbdf4f7fc8eaa31e8
Author: Matthias Hopf <mhopf@suse.de>
Date:   Fri Nov 23 16:12:49 2007 +0100

Don't segfault if referring to a relative output where no modes survived.

commit fa19e84714aa84a2f2e817e363d6440349d0b619
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Nov 20 16:54:50 2007 +0100

Fix initial placement of LeftOf and Above.

commit 184e571957f697f2a125dc9e9da0c7dfb92c2cd9
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Nov 20 13:05:26 2007 +0100

Adjust offsets of modes that do not fit virtual screen size.

Fixes memory corruption if a too small "Virtual" was specified in xorg.conf
for the selected multi-monitor configuration.

commit a80e64f1503a4d8b111e4a6608d296422c69e3e8b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sat Nov 17 22:50:07 2007 +0100

XKB: Generate correct key repeat events (bug #13114)

Make sure we send the correct event for the type of device when we're
sending key repeat events, which stops repeats being sent to incorrect
windows.

commit 63351df00ec320aa3ce27d4d2ee6bcbdb58aa2d92
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Thu Nov 22 18:02:07 2007 -0800

Darwin: Fix compilation/linking problems

commit bf4ef4da759e01e6794ed28a4988a2c8ee049bf
Author: Jeremy Huddleston <jeremy@tifa.local>
Darwin: Remove the PaintWindow optimization which snuck back in.

commit 2082e7aa878fe1221fd50895a9de1f408b3157a8
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 17:18:48 2007 -0800

Rootless: Remove the PaintWindow optimization which snuck back in.

commit a751bc12bee1d4d2ed35e3a0c6d9c8e9bf30a82
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 13:53:00 2007 -0800

Rootless: Imported changes made in xorg-server-1.2-apple branch

commit 59c7ca6586e7c20e28ad407ca9a0883c4d621d64
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 13:29:15 2007 -0800

Darwin: Added missing Makefile.am

commit 23596291c30a85e38c00aef2e01b46561e2916e
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 13:17:44 2007 -0800

Darwin: More syncing with xorg-server-1.2-apple

commit 4e18c626350c7c2e0fb540aa64a98957699f3abe
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 12:21:59 2007 -0800

Rootless: Pulled in changes from fb{Blt,Fill} into rl{Blt,Fill}
(cherry picked from commit 3f857e129d7ce492191e0c51b8e53aef6179366)
(cherry picked from commit 70374a58937d7a6f01c210bd6ac66caba63e895a)

commit ed9524d36e42a310bb128284f2b507f76b8c40d9
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 01:07:02 2007 -0800

Darwin: Copied over missing file (Localizable.strings) from xorg-server-1.2-apple

commit 4d9ce1f197b12548e0716dab3557e48311519e325
Author: Jeremy Huddleston <jeremy@tifa.local>
Date: Thu Nov 22 00:35:09 2007 -0800

Darwin: Misc cleanups to line up with xorg-server-1.2-apple
commit 5e950123daa167c9ffe289b3bd89e3bd288da0e3  
Author: Jeremy Huddleston <jeremy@tifa.local>  
Date: Wed Nov 21 23:32:00 2007 -0800

Darwin: Removed cvs tags from Xquartz man page

commit 3a2f714eea475a13cde65921e24c7ee3f70f6c3c  
Author: Jeremy Huddleston <jeremy@tifa.local>  
Date: Wed Nov 21 23:30:37 2007 -0800

Darwin: Removed .svn dir

commit 691da031319dc59b9496101358c267f317abfd1e  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date: Thu Nov 22 17:44:39 2007 +1030

Xi: allocate motion history for master device.

We're still missing out on the actual content of the history but at least this way we don't segfault.

commit 602de4f70b6f4a4ab9b3514f3a01917bd5d4ad640  
Author: Jeremy Huddleston <jeremy@tifa.local>  
Date: Wed Nov 21 16:53:10 2007 -0800

Darwin: Use UTF8String since lossyCString is deprecated  
(cherry picked from commit 1786f9464af51ff606a612acec6fe420fa9688a28)

commit 13666e287c347aab2a5e9d8ee5f6bb29b9b85171  
Author: Ben Byer <bbyer@bbyer.local>  
Date: Sun Nov 18 17:44:12 2007 -0800

Darwin: Added some DEBUG_LOG sauce to the XP_EVENT handling code  
(cherry picked from commit ec84a4cef66a2b46ed71f9758c434ea629d2f70)

commit 829b6641bd64c352e1e8a7c619f84dedb807a09  
Author: Ben Byer <bbyer@bbyer.local>  
Date: Sun Nov 18 17:43:40 2007 -0800

Darwin: Disabled ALT_IS_MODE_SWITCH  
(cherry picked from commit fd181254f85543558190140787dc7b41f6cf90db)

commit 8486f8af91b477c7beb8438a0e9a72d0c11d1d63  
Author: Ben Byer <bbyer@bbyer.local>  
Date: Thu Nov 15 02:25:50 2007 -0800

Darwin: Added a lightweight debugging facility to support troubleshooting  
(for example) the stuck modifier key issue
Darwin: Patch to avert (some) damage / rootless crashes, courtesy of Ken Thomases
(cherry picked from commit 148a87ff20aa5e7a6d8396f10aa14fa1a31505c4a)

Darwin: These changes are necessary, yet not sufficient, to get 8-bit indexed
color mode working in Xquartz.
(cherry picked from commit a415f62f5289fae99ea9b0038d21fad7695b1336)

Darwin: Fixed the call to xp_init so that we now receive Motion notifications even
if X is not the active application.
fixes <rdar://problem/5167664> xeyes dead until window activation
(cherry picked from commit c7573379a85a1480cc51650075078e41dafa56af)

Darwin: fix for spurious "Are you sure you want to quit?" message
(cherry picked from commit 30cbfc786e4fedda3fe070bacceabed9212d00b)

Darwin: Adding "fake RandR" support from old X11.app
(cherry picked from commit 633490c4e8dad30af7ecbe1bef076c22ad5f5da9)

Darwin: Initial support for Spaces -- if you use Expose to drag an X11
window to another Space, it will work correctly (as opposed
to just leaving a ghost window). We accomplish this by listening
for the notification from Xplugin that our window has been moved,
and then we ask X11 to move the window to the new location.
(cherry picked from commit 2d50ea8013e7c1639d570e227b53b037fb567565)

commit b39ede01a6588697b65f831e8ab1dbb24cbe7b24
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Oct 31 23:46:50 2007 -0700

   Darwin: Swap modifier keys for buttons 2 and 3 -- now Option-click is the middle click
(cherry picked from commit 0aa61293b62aeb69a93b2035d0aef8644343eed3)

commit 606a8dc73d91a198d72d249934dc027a23f4c338
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Oct 31 03:39:47 2007 -0700

   Darwin: Trap Deactivate messages and release modifiers to avoid "stuck shift lock" (etc) bugs
(cherry picked from commit 2b189a99330eb465fa0d17020f1db1e38829151)

commit 4c18ef4331aaeec268431a3ba50991f0312b82870
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Oct 31 03:22:18 2007 -0700

   Darwin: Workaround for a bug where the holding down Command to make a "fake"
button 2 click would actually result in a Command-2 chord.
(I.e. it wasn't releasing Command before clicking the fake button.)
(cherry picked from commit 0d5dd5df4a4c5ce3f54dfe53720a39d524dc8e37)

commit f9269bebae27bbc9d0e03e02943166b83946623d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 22 17:30:14 2007 +1030

   DeviceIntRec: move lastx/lasty from valuator into DeviceIntRec.

   We free the ValuatorClassRec quite regularly. If a SIGIO is handled while
we're swapping device classes, we can bring the server down when we try to
access lastx/lasty of the master device.

commit 7f2972d47a5d74fe92268c6d609b1eb6ad845824
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Wed Nov 21 21:59:59 2007 -0800

   Darwin: Really add launcher this time

commit bcbaf2a0ce34b6c5e41d2831b8b87dbd0617a89b
Author: Jeremy Huddleston <jeremy@tifa.local>
Date:   Wed Nov 21 19:51:14 2007 -0800

   Darwin: Dead code removal, Code cleanup, Added launcher
Imported changes from xorg-server-1.2-apple to make master more current wrt
file layout, build system changes, and dead code removal.

commit 9ed43eff4820152079f89a12bb3b2f5819bd99f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 21 17:16:27 2007 +1030

Xi: allow clients to specify pure client id in SetClientPointer.

If no window was found with the given ID, try if there's a client with the ID.
Allows us to set the CP for apps that don't open windows (e.g. x2x).

commit 33f15689922ad9f1193f803bc1636c82c23ab99e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 21 16:06:44 2007 +1030

xtest: switch an inputInfo.pointer over to PickPointer.

Couple of whitespace fixes too.

commit e5dd7a95791748e57cab75e0d8ba9d37f72edccf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 21 15:59:31 2007 +1030

Xext: Scruffy the janitor don't like no "register" keywords.

commit a55ec1a9f4b62139de5e5462d79d47b330c27c79
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Nov 20 18:31:03 2007 -0800

Restore checks for __i386 where needed for Sun compilers on Solaris

commit 2f387d913aa76f1b6d21d8e2698be165301c6bc1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Nov 20 18:27:12 2007 -0800

Enable use of /dev/urandom on Solaris as well

commit 4363d70c6b420648b501126d1fdebf9ac7ae09f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:58:55 2007 -0500

registry: Fix some mistakes in the reversion of prior commits.

commit 140a4660aca1c283613d5b62f51668b44b45baf6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:49:30 2007 -0500

Revert "registry: Register XTrap extension protocol names."
This reverts commit b38a919993364aa80cfd99721e319e1458d9fb760.

Moving all the names into dix/registry.c

commit ed8a39c48ab9dac085fc58b9641364b5608f3f4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:47:52 2007 -0500

Revert "registry: Register XKB extension protocol names."

This reverts commit a5cf3f21f712e46dbf9bca289e67be75f2b531d3.

Moving all the names into dix/registry.c

commit 17b0c729b553e2f0f8f82497698b282a47db3326
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:46:43 2007 -0500

registry: Remove registry code from XInput extension.

Moving all the names into dix/registry.c

commit e86852aff62a861823b8e419434e0401b8dec8e0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:44:56 2007 -0500

Revert "registry: Register XFixes extension protocol names."

This reverts commit 106758893b68033f14f69c4ee6591fb6a149ba37.

Moving all the names into dix/registry.c

commit 5269da2bde3cf4feb12fa2bd87bff6ee6d8730a1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:43:38 2007 -0500

Revert "registry: Register XvMC extension protocol names."

This reverts commit 853ea337bdad17f8f6ec7d940de14ce2cbbb93e.

Moving all the names into dix/registry.c

commit 03a86c8d5e20a6e47f3c294f0087f205cf2a72dd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:42:19 2007 -0500

Revert "registry: Register Xv extension protocol names."
This reverts commit 12766c5b5ffdad95255a63b2c8421ee773fd43b5.

Moving all the names into dix/registry.c

commit edcf490cdb965e2a5bfc0169c01732d2924da3ae
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:41:10 2007 -0500

registry: Remove registry code from XTest extension.

Moving all the names into dix/registry.c

commit 5fe1ed50f37691a5273bf2897479781de808ff5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:39:48 2007 -0500

registry: Remove registry code from SELinux extension.

Moving all the names into dix/registry.c

commit 9a8af33718d085656a672e4c27df200485c84154
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:38:24 2007 -0500

Revert "registry: Register Resource extension protocol names."

This reverts commit 5c8b1a91726817816d20faefad21c7a68ab634cc.

Moving all the names into dix/registry.c

commit e6023e0208fae8f19e566f9df1a8aa20494f40ab
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:36:49 2007 -0500

Revert "registry: Register XPrint extension protocol names."

This reverts commit f077578e42eee424b0e534774574c84af9d6f85b.

Moving all the names into dix/registry.c

commit 277345fb7065d74c3b0d076382affb78cbe67569
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:35:57 2007 -0500

registry: Remove registry code from XF86Bigfont extension.

Moving all the names into dix/registry.c
commit bf27edd365f44d130eeacbe0e9d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:34:14 2007 -0500

Revert "registry: Register EVIE extension protocol names."

This reverts commit 48891d5696f56711f23743cb03be39cf6b26c522.

Moving all the names into dix/registry.c

commit 687427179420b18a55a1a02b8a9f2a32ea8eac8d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:32:54 2007 -0500

registry: Remove registry code from XC-MISC extension.

Moving all the names into dix/registry.c

commit 4b0274e8f712e51b18618a2a0bdbe03b17b9736b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:25:15 2007 -0500

Revert "registry: Register SYNC extension protocol names."

This reverts commit 9f597f6c87e0b14cc382d8e5929e42f822db4329.

Moving all the names into dix/registry.c

commit 4c7cf5aa4c802dcde895c723879a80a87620e0f7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:23:57 2007 -0500

Revert "registry: Register SHM extension protocol names."

This reverts commit 2c9646ad4e65bb061d910e9e2b1a8a978f21fa17.

Moving all the names to dix/registry.c

commit 67e882e306f67a215c6c89868cc1d3649747bd93d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:22:59 2007 -0500

Revert "registry: Register SHAPE extension protocol names."

This reverts commit 4e274e90e16b1d954391e1af3e2074f10f70ee7.

Moving all the names to dix/registry.c
commit 8583bf78ad056ffe2d83b54e5e9a0a217e425a7b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:21:09 2007 -0500

registry: Remove registry code from XC-SECURITY extension.

Moving all the names to dix/registry.c

commit 55744d8e5d7bf1ff27cd25de54e14e799dd1a70a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:19:44 2007 -0500

Revert "registry: Register MIT-SCREEN-SAVER extension protocol names."

This reverts commit 58c3240fcbec23aad122e1c340f6bb6d3b18f779.

Moving all the names into dix/registry.c

commit 36ef45928c783292ceff18acfd83ae057826c989
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:18:01 2007 -0500

registry: Remove registry code from MIT-MISC extension.

Moving all the names to dix/registry.c

commit 816e6e612e4bc3cea1e67e7ea79d5b640458011f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:15:37 2007 -0500

Revert "registry: Register Multibuffer extension protocol names."

This reverts commit 3877fa7d9fe00ed634077e38a198ae4b91a2bb4.

Moving all the names into dix/registry.c

commit 40a0da044e911ea51de003f3621331ffbe2842bc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:13:43 2007 -0500

registry: Remove registry code from Fontcache extension.

Moving all the names into dix/registry.c

commit 46412baf60ed639ddc1d5fb601ff73a75e39737f7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:11:06 2007 -0500
registry: Remove registry code from EVI extension.

Moving all the names into dix/registry.c

commit 460e43032f05aad3f0f552901a52d199f61c7f4f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:08:18 2007 -0500

registry: Remove registry code from DPMS extension.

Moving all the names into dix/registry.c

commit 76e89d45b497d4afa4e60e1d0ec50b62f54f6bb88
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:06:40 2007 -0500

registry: Remove registry code from TOG-CUP extension.

Moving all the names into dix/registry.c

commit ce93c5772da52ab88faef7e5b661b681d5b60b1e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 18:03:57 2007 -0500

registry: Remove registry code from BigRequests extension.

Moving all the names into dix/registry.c

commit 0756d1271209e6ae14cc641d0cc095271b43150
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:59:40 2007 -0500

Revert "registry: Register APPGROUP extension protocol names."

This reverts commit b504678ba5407a6fd8d47d051305f7c3d5606dfe.

Moving all the names into dix/registry.c

commit 5aff37d1d69be4983727856a29628bd782d50b90f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:57:06 2007 -0500

Revert "registry: Register RENDER extension protocol names."

This reverts commit 8964c6d8e14ae47798762191e359b2bf138ca32e.

Moving all the names into dix/registry.c
commit e585a2db495b50a53e15cc3c368ca0858fc9d23
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:55:47 2007 -0500

Revert "registry: Register Record extension protocol names."

This reverts commit ea09c9acc8f0d5577f54c864ff88b7f03d93b2f4.

Moving all the names into dix/registry.c

commit d4577e485367468227e031eb434b739ef7b5e9a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:51:27 2007 -0500

Revert "registry: Register RANDR extension protocol names."

This reverts commit c827db57e4d9ca14c82b099dcefc9b7a0c0b5ba0a.

Moving all the names into dix/registry.c

commit a541e826c9310d3051e53834833c6c3a08654148
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:50:26 2007 -0500

Revert "registry: Register WINDOWSWM extension protocol names."

This reverts commit 4c3285c883cc50a91bc5262bbce9d073d816f860a.

Moving all the names into dix/registry.c

commit 993595430bd0580ab4d936be6b70fb91b8bb1d16
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:48:46 2007 -0500

Revert "registry: Register XF86DRI extension protocol names."

This reverts commit b7786724080fd3928ef7b8e294346661d7ff090b.

Moving all the names into dix/registry.c

commit 6b73c215c9d612534af290230b2e914d42d819cd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:47:30 2007 -0500

Revert "registry: Register XF86VidMode extension protocol names."

This reverts commit 960677e876c068400fb45e1764bb5470cd8c389f.
Moving all the names into dix/registry.c

commit 8e2cd7a804664bbd2d03789dcd5c93223122e929
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:45:30 2007 -0500

Revert "registry: Register XF86Misc extension protocol names."

This reverts commit 2cd1b32b77e0ceeaceb3f01c4ac13a97c557668c.

Moving all the names into dix/registry.c

commit 0356153a58cef87d655bccacde3ce7ee48f592386
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:43:18 2007 -0500

Revert "registry: Register XF86DGA extension protocol names."

This reverts commit 3815284e899b61731b6a63c4ba14c5d773e24eb6.

Moving all the names into dix/registry.c

commit de93c1e9df14577e158b6dc3ccce7ee48f592386
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:40:57 2007 -0500

Revert "registry: Register DMX extension protocol names."

This reverts commit 32f3f5a1e7654f8bb43ea16b9227b3994e616739.

Moving all the names into dix/registry.c

commit 2d3e0cdef4bd7ab069bad7244ede7c2d489e92b17
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:39:56 2007 -0500

Revert "registry: Register APPLIEDRI extension protocol names."

This reverts commit 3464b419230c6d17e940d967b567c5d2cb22d232.

Moving all the names into dix/registry.c

commit 546d46224e355d4f00232da5538548e3c8853e40
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:37:48 2007 -0500

Revert "registry: Register XINERAMA extension protocol names."
This reverts commit b9f5ab98c8dea36dcce1ad15fd2e059a77e77c39.

Moving all the names into dix/registry.c

commit fd2d83d5bf5b35c8a2b05f725486be166783921e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:34:48 2007 -0500

Revert "registry: Register APPLEWM extension protocol names."

This reverts commit eee46b4681ec55297604b0425705f2b18381f7ca.

Moving all the names into dix/registry.c

commit c934e1af27189571c1e7dd838872e380c3580eeb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:32:35 2007 -0500

Revert "registry: Register DBE extension protocol names."

This reverts commit 2e1e5be1d9067816525aa13a1d818e8ca6899599.

Moving all the names into dix/registry.c

commit b9ab6f300a46aa8879b11eac51857357cc379c2f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:31:00 2007 -0500

Revert "registry: Register DAMAGE extension protocol names."

This reverts commit 20db50b4c44a14f7eeac2b1de17ada68482521da.

Moving all the names into dix/registry.c

commit 26586a7ad5e999b34996d147fb43998deea89178
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 17:27:37 2007 -0500

Revert "registry: Register composite extension protocol names."

This reverts commit 166ef972febc00c665e1d5aeb68e75d7bbcf9879.

Moving all the names into dix/registry.c

commit fae39db7957c0ebdc7af36f8d8f484473beb6d38
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 15:21:31 2007 -0500
devPrivates rework: put back some changes that were mistakenly removed during merge conflict resolution.

commit 709e1a70e8c6a9e132b0d92f78a12be72b3ee51
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Nov 20 15:18:02 2007 -0500

   Remove some duplicate include statements.

commit be09cbe5a330f62ce47ffbc49e83b5e1637b7d0
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Nov 20 15:39:49 2007 +0100

   kaa: update kaaCreatePixmap to support the new usage_int

commit 5b0dfb73ca4699cc4b33720f10416de7440081b7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 19 21:01:22 2007 -0500

   devPrivates rework: put back a comment that was mistakenly removed during merge conflict resolution.

commit 2d17f47cc7d6b174857617d31ad1b437d8e97d94
Merge: 60be452c2e ea9c63e93b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 19 18:10:46 2007 -0500

   Merge branch 'master' into XACE-SELINUX

   Conflicts:

       hw/xnest/Pixmap.c
       include/dix.h

commit 60be452c2e88342f92a76ba5ec7d90b5b0211aaf
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 19 16:55:09 2007 -0500

   xace: restore the old SaveScreens function and introduce new API, since the old version is called from drivers...

commit a95bb52b4366d85fe049130c60af5e9e727c565b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 19 16:34:38 2007 -0500

   devPrivates rework: add missing include of dix/privates.h
DEFAULT_DPI was undefined here.

commit db9ae863536fff80b5463d99e71dc47ae587980d
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date: Sun Nov 18 11:57:01 2007 -0500

Bump DEFAULT_DPI to 96.

75 is just nonsense.

commit ee2d4626dca6e0d4fc6f524e5de4bdefa2ed43df
Author: Tormod Volden <bugzi06.fdo.tormod@xoxy.net>
Date: Sun Nov 18 11:56:31 2007 -0500

Bug #12932: Use DEFAULT_DPI in randr1.2 instead of hardcoded 96.

commit a46c30c3be33fffb304a885503c8aaa78396ed3d9
Author: Jernej Azarija <azi.stdout@gmail.com>
Date: Sun Nov 18 11:44:36 2007 -0500

Bug #12531: RRModesForScreen can fail to allocate.

commit fac7c7e4e1809e865b9b3cf5b7eb69ba9d3a3759
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date: Sun Nov 18 11:39:26 2007 -0500

Document the requirement for interleaved code and declarations.

commit bad96e5a864e40fbd47265d7fb6eaa67c55fac11
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sun Nov 18 15:02:24 2007 +1030

dix: getevents.c remove trailing whitespaces.

commit 75e5e9f88c5f974d996dd81e672cd3709d361a44
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sat Nov 17 13:46:01 2007 +1030

Xi: add missing XI_DeviceClassesChangedMask to XI filters array.

commit d15339a92c4d689d2ab8a86e4f10107f3e45eff8
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date: Sat Nov 17 22:12:10 2007 -0500
Bug #9725: Don't look in root's $HOME for config files, that's just confusing.

commit 748cfbc820f8cdeb544c54a6db495feef2e2457b
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date:   Sat Nov 17 21:23:05 2007 -0500

Disinfect mi/ of mfb.

commit a969db091cab16a448f82782e85b3dd19c81627a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 17 22:34:47 2007 +0100

XKB: Don't ring the bell when we don't have a BellProc (bug #13246)

commit c89b543198d5ec56ff025bdd6bb7229523478e58
Author: Ben Skeggs <skeggsb@gmail.com>
Date:   Sat Nov 17 18:20:49 2007 +1000

exa: set driverPriv to NULL before it might get used later with garbage

commit 514ba4ca727f0b1076bc67500617722203d34daa
Author: Adam Jackson <ajax@aspartame.nwnk.net>
Date:   Fri Nov 16 19:53:11 2007 -0500

Bug #1612: Use a stronger PRNG.

Currently just reads from /dev/urandom, and only on Linux.

commit 12dd6e9911de187e0ebee86434e8c24a67c990f9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 16 17:23:09 2007 +1030

dix: reset MD's devPrivate classes to NULL before device initialisation.

XkbInitKeyboardDeviceStruct may call FatalError if it fails. FatalError then
        cleans up all the devices, resulting in a segfault if the pointer is
        uninitialised.

commit be3321c2e9fad228a99ee5feff47680a477be9e39a4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 16 12:12:41 2007 +1030

dix: Free both current classes and original classes when closing an MD.

commit 3c39dd19ec2a53b8854279e3b03131098031473a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 16 12:12:14 2007 +1030
Xi: Deep-copy full list of FeedbackClasses.

All feedback classes are linked lists and the whole list has to be duplicated, not just the first entry.

Xkb stuff still missing.

commit 497862df2fcd67531fbe0f876c20a09884ee74df
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 16 11:20:22 2007 +1030

dix: explicitly float all attached SDs before closing down devices.

Some drivers flush on shutdown, if our SD is still attached we'd be trying to route an event through a non-existing device.

commit 9de1ebe2a80164507cbe2ef688f284225e0ec808
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 16 10:45:28 2007 +1030
dix: Fix up class restoring when last SD disconnects.

Old code was fundamentally broken, fixes now are:
- free the MDs current device classes
- copy the device classes instead of flipping the pointers
- check for the old MD, not the new one.

commit 20fd4783247b1b93d9675dc36768dd1ed59ba2d3
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 17:01:33 2007 -0500

Small static cleanups on dix/

commit 70e50fa51f05663f289e3ea4521e737e8e24bca
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 17:00:37 2007 -0500

Allocate RRCrtcRecs with calloc.

commit 8d0cd1cd2c57ee5a2fc4d577d8182d66369f0617
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Nov 15 12:16:36 2007 -0800

Fix a really dumb typo.

commit f797c96845a3fab37cda6839ebecf9ac5401fd6e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Nov 15 12:12:02 2007 -0800
Save pixmap allocation hints into the PixmapRec.

commit 6bc50de02108f822977fc7545da81fce95ea7ff4
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 15:03:58 2007 -0500

Simplify system resource range setup.

osRes only existed to get copied into Acc. Waste of effort.

commit e1ff14a9246e12d42ce8ca5afbe3b957333a5620
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 14:45:49 2007 -0500

Delete some dead code in X -configure.

commit 01cfba75229f4b9bf1e4fe80814931acdacde14c
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 14:27:03 2007 -0500

Nuke the debugging allocator.

This has never been hooked up in the modular build, and can not possibly have built since before 6.7. Clearly no one's using it.

commit c67b9c5fc33002b13a2360929a37f24169710f64
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 14:24:36 2007 -0500

Clean up some garbage in driver enumeration.

commit 0706e5e790060fb046cfaaf295b78806b7841c6
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 14:15:09 2007 -0500

Eliminate some redundancy in autoconfiguration.

We already synthesize Monitor and Module sections for you, no need to specify them explicitly in the fake config buffer.

commit 2c01a49bf0a407bd5510bb9ceb4ef86a2cc36be9
Author: Adam Jackson <ajax@redhat.com>
Date:   Thu Nov 15 13:32:59 2007 -0500

Don't sleep(1) at exit on any platform.

commit 83926cbef6288b89e801c5e60b3f40e923e16e
Xi: Only alloc modifierKeyMap if <slave device>-maxKeysPerModifier > 0

Sometimes (e.g. on my debian ppc box) maxKeysPerModifier of the SD is 0. So we try to malloc(0), bringing the whole server down with a FatalError because it looks as if the malloc failed. This is bad, so only alloc if we actually have something to alloc.

commit 070195dbf88eb121e65f802e023aa37ed1f2c2ac
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 16:27:18 2007 +1030

Xi: fix up sloppy class copying causing segfaults.

commit 53539688cab990a7df1851d64f3ee4e11920a86b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 16:23:48 2007 +1030

dix: SetKeySymMap should alloc the map if dst doesn't have one already.

commit b40646dec104fb03ea7cc0b27fae573aeccaab486e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 15:43:44 2007 +1030

dix: Add FreeDeviceClass and FreeFeedbackClass for centralised xfree.

Ensures that we only have one way of freeing a device class to avoid leaks in ChangeMasterDeviceClasses and other places.

commit 4c9cc82fc4461d180ae2c2fbe50e7f98b0777f91
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Thu Nov 15 01:46:11 2007 -0200

For some reason "-nozap" appeared twice. Weird.

commit 18833d648fd7e1a5e962b93636bbbb38aca9e454
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 12:13:59 2007 +1030

Xi: reset xkb-stuff to NULL after copying (DeepCopyDeviceClasses)

Having two devices point to the same xkb stuff causes SIGABRTs.

Also, don't init a MD's xkbInfo unless the SD has an xkbInfo.

commit 1635832c1635374033686d3a943b77adbd60bb98
Revert "xkb: disable xkb key repeats (temporarily)"

This reverts commit 2b1d946392ce28b96941341778b2h526aa0fb126.

commit b05246696d14bd35aa53b49302707b51206c72a6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 11:31:43 2007 +1030

Xi: free XkbSrvLedInfos as well when freeing an MD's device classes.

commit c758e5a664a52045ad419340044beeb6774a336
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 10:47:20 2007 +1030

dix: Make sure core MDs copy their initial classes before they are used.

Anything in dev->key, dev->valuator etc. of a MD must always be a copy of the original class. The initial classes of an MD (the ones set up before an SD is attached) as well, as we may have to restore them if no SD is attached anymore.

commit a08665d4d3b0a7d567a90bb9bbfe4abafdf6f3887
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 10:42:29 2007 +1030

   mi: don't call SwitchCoreKeyboard, we switch during event processing now.

commit 64711a094893e83764bbeda538c6e877ebe2af79
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 15 10:41:34 2007 +1030

   Xi: When switching MD classes, make a deep copy instead of pointer flip.

   Turns out it's really really hard synchronising device state across multiple duplicated events if they all share the same struct. So instead of doing so, when the SD changes deep-copy all it's classes into the MD. The MD then has the same capabilities, but the state can be set separately. This should fix xkb, key state, repeat etc. problems.

   Updating the device state allows us to remove the SwitchCoreKeyboard from the event gathering, it's all done during event processing now.

commit 3dde66f96b9b8431381871cf8526dda3ec57a0d4
Author: Adam Jackson <ajax@redhat.com>
Date:   Wed Nov 14 15:10:59 2007 -0500
Start 1.4.99

commit e3897ca7099fc007b4134a8fabd4c707f99f2ac7
Author: Adam Jackson <ajax@redhat.com>
Date: Fri Nov 9 13:55:32 2007 -0500

Add -pogo option for init/teardown performance testing.

commit ececac794451b79387f1297b91a1d3b52ee6d1b
Author: Adam Jackson <ajax@redhat.com>
Date: Thu Nov 8 17:25:36 2007 -0500

Don't sleep(1) at server exit.

commit 1603130236c55ddabc3854d4ba62d544debcf1f5
Merge: f207e69d62 f7dd0c72b8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Nov 14 13:35:50 2007 -0500

Merge branch 'master' into XACE-SELINUX

Conflicts:

Xext/xace.c
Xext/xace.h

commit f207e69d62bc04c7f254347b03e6d8fa8b569d66
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Nov 14 12:23:29 2007 -0500

xselinux: adjust receive hook to use new synthetic_event class.

commit cc4586df600af571815d5cdda2028c0d074c8469
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Nov 14 14:27:52 2007 +1030

Xi: toggle the public.devPrivate as well when switching device classes.

The master needs to have the same devPrivate as the slave, in case a client issues a request that goes down to the driver.
Example: if a driver wants to ring the keyboard bell, it'll pick a keyboard. The KeyClassPtr will direct it to the matching method in the driver, but because the MD doesn't have the devPrivate set the driver segfaults. Even if all drivers were updated to not dereference the nullpointer, nothing would actually ever happen.

To avoid this, we flip the master's public.devPrivate to the last SDs...
devPrivate.

commits:

commits:

commits:

commit c703849e79391bb1bb01a994bb8d5cf2eb64e48b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 14 10:50:18 2007 +1030

dix: Attach spriteInfoRec to same memory block as the DeviceIntRec.

No need to alloc a separate one, we never do anything special with it anyway.
commit 51239f87ce42ad564ceee1761980391947294511
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 13 11:26:16 2007 +1030

dix: Send MappingNotify when keyboard maps change.

If a slave device is attached to a master device, then we need to send a
mapping notify to the client.
Mapping notify needs to be sent if
- different slave device but on same master
- different master

This gives you funny behaviour with the ClientPointer. When a
MappingNotify is sent to the client, the client usually responds with a
GetKeyboardMapping. This will retrieve the ClientPointer's keyboard mapping,
regardless of which keyboard sent the last mapping notify request. So
depending on the CP setting, your keyboard may change layout in each app...

commit 2b1d946392ce28b96941341778b2b526aa0fb126
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 13 09:51:33 2007 +1030

xkb: disable xkb key repeats (temporarily)

Haven't quite figured out yet how to make these repeats work. Because we share
the class between devices, the key state is already set when we process the
master device's event, causing a repeat on each event.

commit f7dd0c72b8f861f4d5443a43d1013e3fe3db43ca
Author: Matthias Hopf <mhopf@suse.de>
Date:   Mon Nov 12 15:11:03 2007 +0100

Only clear crtc of output if it is the one we're actually working on.

Upon recreation of the RandR internal data structures in RRCrtcNotify() the
crtc of an output could be NULLed if the crtc was shared (cloned) between two
outputs and one of them got another crtc assigned.

commit 70b4087c4dd1904d9d655f4a9b9dfceaa1f377fa
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Nov 12 13:10:39 2007 +1030

dix: don't unconditionally update valuators during key events.

Master may not have valuators, device may not have valuators.

commit 23365d28651f7942fda6b889cbdbd019470a4274
Author: Peter Hutterer <peter@cs.unisa.edu.au>
dix: allow grab modifier device to be NULL.

This can happen if we check for a passive core grab and our device is a floating slave device. Doesn't really change anything as SDs can't send core events but it stops the server from segfaulting.

commit 5a7a65a3c978a65e8ff39d0cc9878527ec42ade9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:  Mon Nov 12 12:37:39 2007 +1030

mi: avoid SIGABRT by setting master_event to NULL.

commit a05f43bf3e9629df98e93c366d4327f20ed81e6c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:  Mon Nov 12 11:35:18 2007 +1030

dix: When the last slave is removed, set master to the original classes.

DeviceClassesChangedEvent is sent to the client, where device == new slave.

commit 45f884d79c0eabaa1eb24d7db76c1177f6b710c9
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:  Fri Nov 9 14:45:27 2007 -0500

xselinux: add new synthetic_event security class, and fix registry code.

commit b092856baba5bd43b23950f23236b5cc3ce78c1e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:  Fri Nov 9 14:45:02 2007 -0500

registry: Register XC-SECURITY extension protocol names.

commit 7a81bafec9bc7048560b17483e6addf58469a05d0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:  Fri Nov 9 23:10:24 2007 +1030

Xi, dix: Add ability to change MD classes + send event when doing so.

Each time a different slave device sends through a master, an DeviceClassesChangedEvent is enqueued. When this event is processed, all classes of the matching master device are changed, and the event is sent to the clients.

Next time the master is queried, it thus shows the evclasses of the last slave device. The original classes are stored in the devPrivates.
TODO: if all slave devices are removed, the master's original classes need to be restored.

commit c0a05805783ee3d38fbcc0fb45f4aa3c511785f0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 9 23:07:10 2007 +1030

Xext: add simple macro to easily check a generic event's type.

commit f48087b6c33c1f84bf2cfc0744b1c38697321c07
Author: Kristian Høgsberg <krh@temari.boston.redhat.com>
Date:   Fri Nov 9 05:49:26 2007 -0500

Regenerate GLX dispatch code for recent gl_API.xml changes (#12935).

commit f2a3728868376a3646832d4a3a29549ce0b8f5d
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Nov 8 18:49:05 2007 -0800

Patch to rootless code that should fix many crashes. Credit to Ken Thomases at CodeWeavers for the patch. From his description:

Fix a display bug with the X server. The Generic Rootless extension installs overrides for certain GC (graphics context) operations. Within these overrides, they temporarily uninstall themselves, perform their work, and then reinstall themselves. Except sometimes they would return early and wouldn't reinstall themselves when they should. Now they do in all cases.

Fix a bug in RootlessCopyWindow where early returns could leave the screen's dispatch table entry for CopyWindow unwrapped. We think that this is another case (hopefully the last) of the rootless drawing bug.

commit 338c1aebdbf3964e542947140f7c50d58542cf12
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 03:56:44 2007 -0800

formatting fixes

commit bd269d0d783d418ef99363478fd849fd89eed76
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 03:55:08 2007 -0800

Fix for off-by-one error in menu bar height calculation -- props to Nicholas Riley!

commit b4d14484056e6f4a7374fc1acf3f223be4bd116f
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 03:10:52 2007 -0800
Undo some last-minute breakage in xpr.h

commit 05d5b9baa05a4ba14a4383d8a981bc327d99290c
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 02:28:49 2007 -0800

removed debugging output

commit 9a8abcf6a6d0d0cde17be02a3443a7e116eb07d07
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 02:22:39 2007 -0800

Fixed focus problem (clicking on an X11 window that sits behind an Aqua window would not always bring it to the top of the stack.

commit b34d2ff3c8002f7e4980c138f57e9a828cd79c37
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 01:56:37 2007 -0800

formatting changes.

commit 50dad9b2cb3b40810fbb79253adc0265a838a497b
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Nov 7 01:35:48 2007 -0800

Fixed Spaces issue, correctly -- dragging an X window from one Space to another in Expose mode now works.

commit ce7cfbe261b7fd4fdcd09d1a4a61344d1555a71f2
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Nov 8 20:10:51 2007 -0800

Fixed check to refer to DarwinApp, not all Darwin targets

commit d68bd5510437c1fd3850e020f7ced90901fae8e1b
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Nov 8 20:08:49 2007 -0800

fixing GLX in Xquartz

commit a6ac9002956767fefa37a95513e21ac5246d15
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Mon Nov 5 20:25:10 2007 -0800

formatting cleanup

commit 67e96be13c913b45be31db121ce216295cd9496d20
Author: Ben Byer <bbyer@bbyer.apple.com>
Fixed logic error that prevent JIS (Japanese) keyboard layouts from being detected.

commit 154fb6417e5d0bae5191984beac5ce045ce754bb
Author: Ben Byer <bbyer@bbyer.local>
Date: Sat Nov 3 05:34:19 2007 -0700

Initial support for Spaces -- if you use Expose to drag an X11 window to another Space, it will work correctly (as opposed to just leaving a ghost window). We accomplish this by listening for the notification from Xplugin that our window has been moved, and then we ask X11 to move the window to the new location.

commit 5bbc46b702f62d7c91d41aabcc27eeb553f6959
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Nov 9 11:33:27 2007 +1030

dix: grabbing an attached SD sets it floating for the duration of the grab.

commit 676b26ca3e9b142cf007af3f439aa1993f2247c4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 8 17:54:17 2007 +1030

Xi: notify the clients when the device hierarchy has been changed.

commit cb75f09146a3e17b1a67b636bfbf7229c65c83b35
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Nov 9 11:29:18 2007 +1030

dix: calloc root window's Generic Event mask, stops segfaults.

commit 169f83e366f678ac5441ad21beb84c9b8c65d28e
Author: Ben Byer <bbyer@bbyer.local>
Date: Sun Nov 4 19:14:10 2007 -0800

Disable deferred updates in xp_init to fix performance problems
-- thanks to Eric Gouriou for pointing out the issue

commit 1c6cb353f77747c101ce47716ff1fa055fbf85a4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Nov 8 16:46:49 2007 -0500

Restore the XC-SECURITY option in configure.ac, but disabled by default.

commit 9d03cad1446c27b397c198c6247e71e46bc9e6d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Remove SecurityPolicy file and associated references in the manpages.

commit 8b5d21cc1d1f4e9d20e5d5eca44eb1e60a419763
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Nov 8 16:32:42 2007 -0500

Rework of the XC-SECURITY extension. The gen-auth protocol has not changed, but the XC-QUERY-SECURITY-1 authorization method and the SecurityPolicy configuration file have been removed. The semantics of the trusted vs. untrusted split have been changed. This will be documented in a future commit.

commit 476a9d85f819f454a6901c2eb028d1c563c341
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Nov 8 09:11:05 2007 +0100

Xephyr: do not AM_CONDITIONAL inside a shell if branch

commit 59b304d8a24fece0942e06feb217823f0c73d6f82
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 8 15:44:18 2007 +1030

dix, mi: stop segfaults when a floating device emits events.

For pointers: don't try to set master->valuator fields if there is no master. For keyboards: check if device is valid before trying to access the fields in miPointerGetScreen (btw. this disables DGA events for floating keyboards).

Also stop the hideous number of ErrorFs if we request the paired device for a floating dev.

commit 3063f0c6679bdbe13f360c8a88b9871da9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 8 11:51:03 2007 +1030

mi: change the device id to the master devices' when duplicating the event.

Move the event duplication into a CopyGetMasterEvent(), makes the code a bit better to read.

commit 0e9ef65fa583bf2393dd0fda82df6f92387b425
Author: Keith Packard <keithp@koto.keithp.com>
Date: Wed Nov 7 16:33:10 2007 -0800

Don't frob timers unless SmartSchedule is running
commit 180220f284823c486e7001ef00f1279dc548e9c7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 8 10:00:35 2007 +1030

Xi: return BadDevice for slave devices on ProcXSetClientPointer

Also clean up to return error codes instead of sending the error manually.

commit 184a7b8917a15bb2c719153b9b016c03aab42101
Merge: a8808ac3d0 0b729051c0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Nov 8 09:34:35 2007 +1030

Merge branch 'mpx' into mdsd

Conflicts:

Xi/opendev.c

commit e94ab0b502160376d1956345196f7e1c7e2e886f
Merge: 26e1fc7b42 9bee1c6912
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Nov 7 19:04:24 2007 +0100

sync with 'master'

commit 9bee1c6912817f65bb8cf4078f0ad016d9d51cb
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Nov 7 18:56:45 2007 +0100

EXA: Disable problematic optimization of dest pixmap migration by default.

Also add some code comments about these optimizations.

commit 26e1fc7b42de850d69fb89703ffdd36480b997
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Nov 7 18:48:23 2007 +0100

Xephyr: don't use Xv or GL when those are disabled.

commit 950f9995d11aff2c51139b34fb27eba594f2bd20
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Nov 7 18:43:16 2007 +0100

Xnest: fix lib dependancy to make libtool happy

This fixes an undefined symbol error happening when compiling
the server with the --disable-xv configure switch.
Basically, xnest was linking against @XSERVER_LIBS@ and @XNEST_LIBS@ and the order of the libraries given to the linker at the end of the process was bogus.

* configure.ac: make XNEST_LIBS contain the $XSERVER_LIBS re-ordered in such a way that the linker finds the symbols of all the libs contained in $XNEST_LIBS.
* hw/xnest/Makefile.am: don't link against @XSERVER_LIBS@ anymore because XNEST_LIBS contains the right thing.

commit 0b729051c04da7068f1e6dd319190bd0a362b2c0
Merge: b7ee005d32 d7c5e8bfc1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 7 15:37:23 2007 +1030

Merge branch 'master' into mpx

Conflicts:

Xi/extinit.c
Xi/grabdev.c
Xi/setmode.c
Xi/ungrdev.c
dix/devices.c
dix/events.c
dix/getevents.c
include/dix.h
mi/midispcur.c
mi/misprite.c
xkb/xkbActions.c
xkb/xkbEvents.c
xkb/xkbPrKeyEv.c

commit e717409bae355df9a617a226f12bb8c54ae77e5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Nov 6 21:36:13 2007 +0000

DIX/getevents: Document GetMaximumEventsNum() a little better

Note that the number returned by GMEN can _never_ change, and be a little more explicit about the figure for repeats.

commit 66fe554a59bb7de37354b618945cd5f30d78250d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Nov 6 18:57:09 2007 +0000

COPYING: Collapse 'canonical license' into one statement
For a few of us, the license statement is identical, and the only variant is the copyright. For these, aggregate the copyrights, and only list the license once. Put this at the top, and note that this is more or less our agreed canonical license.

commit fda832772b3e630037bf1b822534996154a50861
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Nov 6 15:05:06 2007 +0000

.gitignore: Ignore build directories

Ignore directories people might use for building.

commit 512bac25ec0e980968b93a2ebe88bd89bf99b697
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Nov 6 14:52:03 2007 +0000

DIX: XKB: Set xkbInfo to NULL as well as freeing it (bug #10639)

XkbRemoveResourceClient wants to access xkbInfo if it exists, so make sure we NULL it after freeing it. It doesn't make much sense to move the RemoveResourceClient call first, as there's not much point in notifying clients while we're shutting the server down anyway.

commit a8808ac3d093f33b39de109107d396fe0a02c4fc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Nov 7 11:42:58 2007 +1030

Xi: don't call CheckMotion for slave devices.

This essentially disables enter/leave for slave devices, but re-enables them for master devices. Which is a good thing after all.

commit 15944b8f02752eedd61be34a6a29dd6b82a0ac97
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Nov 7 11:33:24 2007 +1030

mi: duplicate event before processing it, so master has original values

Event values may get changed in the event processing stage, so we need to duplicate it to pump different events through for slave and master device.

commit d7c5e8bfc1aecd23a4cbb2eab08656587aac2e8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Nov 6 16:26:09 2007 -0500

Modified performance patches from Arjan van de Ven <arjan@infradead.org>
Subject: [PATCH] fix some performance gaps in Xace

The XaceHook function is used in several hotpaths.
The problem with it (performance wise) is twofold:
* The XaceHook function has a big switch() statement for the hook number in it
* The XaceHook function uses varargs to reassemble the final dispatch arguments again

Both are expensive operations... for something that is known at compile time

This patch turns the hotpath XaceHook call into a direct call to avoid the switch and varargs; this gives me over 10% performance gain on the x11perf benchmark.

commit aaa50b64113b122aaebd463b78e3fb7a8d70500
Merge: 868e303630 ddc4e8ede0
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Nov 6 16:25:40 2007 +0100

resync with 'master'

commit 868e303630d8b84070c2f1fd8d6da2c8f045b029
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Nov 6 16:24:46 2007 +0100

Xephyr: fix a crash when using xrandr twice

* hw/kdrive/ephyr/ephyr.c:
  (ephyrScreenFini): don't forget to free shadowfb data (if necessary) upon server is reset.

commit ddc4e8ede036f3996f8e584b0012c396c5df42fb
Author: Elvis Pranskevichus <el@prans.net>
Date:   Tue Nov 6 09:40:14 2007 +0000

Config: D-Bus: Fix dbus_bus_request_name failure check

The code in connect_hook incorrectly checks for dbus_bus_request_name failure. The dbus_bus_request_name error indicator is -1, not 0. This leads to subsequent assertion failure in libdbus.

commit a52c9b2a59f27266557ff9d5d208492e04135a6
Merge: c7e18beb3e 58332894c0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 5 19:08:36 2007 -0500

Merge branch 'master' into XACE-SELINUX

Conflicts:
dix/dispatch.c  
dix/property.c  
hw/xfree86/common/xf86VidMode.c  
include/xkbsrv.h  
render/glyph.c  
xkb/xkbActions.c  

commit 58332894c061ae96d6a457f65266660f5f65e88b  
Author: Adam Jackson <ajax@redhat.com>  
Date:   Mon Nov 5 17:17:25 2007 -0500  

Export the server ABI versions from xorg-server.pc  

commit c7e18beb3c87eb1ada9b21c4ffacd11c1939e087  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Mon Nov 5 15:13:13 2007 -0500  

xselinux: Register SELinux extension protocol names.  

commit 632c33c5c18b3e091c4fcee98280af4d583e99640  
Merge: 4113f040c5 dda10c9066  
Author: Dodji Seketeli <dodji@openedhand.com>  
Date:   Mon Nov 5 17:52:33 2007 +0100  

pull 'master'  

commit 4113f040c587fc536adc693d7ee5a4c0a60b75d4  
Author: Dodji Seketeli <dodji@openedhand.com>  
Date:   Mon Nov 5 17:33:01 2007 +0100  

GL: fix crash at mesa destruction time  

   * GL/glx/glxglcore.c:  
     (_glXMesaScreenDestroy): delete the same amount of visuals  
     that those which were created in createMesaVisuals().  

commit dda10c9066a660b647384179f82e1da8e063264f  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Mon Nov 5 16:28:35 2007 +0000  

Remove all traces of external RGB database (and Speedo)  

Remove all references to an external RGB database (which hasn't been enabled  
for a very long time). Also get rid of some references to Speedo fonts.  

commit 6ff79ea5f7d3ff0c3b14e39849514784ccd40190  
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Mon Nov 5 16:46:49 2007 +0100

Xephyr: fix some DRI build breakage

commit 5e363500c86042c394595e1a6633581eb8fcd1bb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:38:28 2007 +0000

OS: Remove ALLOCATE_LOCAL from os.h

Remove ALLOCATE_LOCAL_FALLBACK and DEALLOCATE_LOCAL_FALLBACK from os.h, and remove the include of Xalloca.h as well.

commit 83e5d9e75d0fa1135e29d8b59cae98c3291681
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:36:54 2007 +0000

DIX: Remove last alloca call

Replace with heap allocations.

commit 1179ddea94eafe6606162e9a1b0f2bf752ae4dd0
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:36:36 2007 +0000

EXA: Remove usage of alloca

Replace with heap allocations.

commit 1eb6a1d0d2817cd0ce96fb27db3ceb2df0ff024af
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:18:35 2007 +0000

XTrap: Remove usage of alloca

Replace with xalloc/xfree.

commit 934281126f6e602fa4bd0c2e29d8c9f4f532b8
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:18:22 2007 +0000

Xext: Remove usage of alloca

Replace with heap allocations.

commit fb32bb9839b615f7297fbc2050bc216682f01c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:17:54 2007 +0000
Xi: Remove usage of alloca
Replace with xalloc/xfree.

commit 683ee1776d172035c465aa8fc84ccd53bb8ba7fd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:14:25 2007 +0000

afb: Remove usage of alloca
Replace with heap allocations.

commit ca75261beedc3e00767b3812a81b7dac4437f4a1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:14:04 2007 +0000

cfb: Remove usage of alloca
Replace with xalloc/xfree.

commit 914922fd6100a409a36fd1c64511ed6bdc344bef
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:12:59 2007 +0000

DIX: Remove usage of alloca
Replace with heap allocations.

commit 3b77689266e729411229ec83d2a90578ebc1d82f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:12:34 2007 +0000

EXA: Remove usage of alloca
Replace with heap allocations.

commit 34cdf06e4ccb243664005cc33009d8759a7f6e4d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:12:22 2007 +0000

fb: Remove usage of alloca
Replace with heap storage.

commit 733d42065f2c24505b3874ce51e18f6063c2b67e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:11:59 2007 +0000
XFree86: Remove usage of alloca
Replace with heap allocations.

commit caf545063457591f888e1f7bcd25dbd0342f44343
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:10:55 2007 +0000

KDrive: Remove usage of alloca
Replace with heap allocations.

commit d57060f16714f5667722001bd1a4500059dd59e1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:10:21 2007 +0000

DMX: Remove usage of alloca
Replace with heap allocations.

commit def6f74f2d7342f85f3df2053e0b9c1ac483b51d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:10:03 2007 +0000

Xvfb: Remove usage of alloca
Replace with heap allocations

commit 259f4c36d581896ce605741b9e557a589013a9b8
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:09:49 2007 +0000

Xprint: Remove usage of alloca
Replace with heap-based allocations.

commit 1c84337af0ac40498a53aa36289e2f6f5ff8b1c6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:09:32 2007 +0000

Xwin: Remove usage of alloca
Replace with heap allocations.

commit f7d5c292e44113ea8eb32e67e91cd02e520df5e3
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:09:14 2007 +0000
mfb: Remove usage of alloca
Replace with heap-based allocations.

commit be9ee17f960cc3d8a8f999cab1579e83d9ae520
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:08:51 2007 +0000

mi: Remove usage of alloca
Replace with heap allocations.

commit 3633ae6efb57c5405c26e8ae132b9371e5f920de
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:04:27 2007 +0000

Damage: Remove usage of alloca
Replace with heap allocations.

commit 2761c10331a1160bc483fd0367d654733df8598
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:03:26 2007 +0000

OS: Remove usage of alloca
Replace with heap allocations.

commit 2d738efb959912d8a89864e41190e0064fa77906
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:01:11 2007 +0000

RandR: Remove usage of alloca
Replace with heap allocations.

commit 3c1d2fddef0ed61d86fa7d35cb0a61535d9b2816
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 14:00:40 2007 +0000

Record: Remove usage of alloca
Replace with xalloc/xfree.

commit e0491f470e130147191388168e878e3a7348afaf
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 13:59:51 2007 +0000
Render: Remove usage of alloca

Replace it with heap-based allocations.

commit 59774af86b851c7fb8989ce6ec013522549000b8
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 5 13:59:15 2007 +0000

XKB: Remove usage of alloca

alloca has no way to return failure, and instead can possibly arbitrarily
overflow the stack. Let's avoid that one.

XKB: Remove usage of alloca

commit 6e4f5cf83f35ffebb51633ab30b1826e63e37223
Author: Ben Byer <bbyer@bbyer.local>
Date: Mon Nov 5 05:53:34 2007 -0800

changing ALLOCATE_LOCAL to xalloc to prevent stack overflow

commit b1764ddf133cdfdf979db62ee2491124a4798b55b
Author: Ben Byer <bbyer@bbyer.local>
Date: Mon Nov 5 05:44:54 2007 -0800

pulling more patches over from xorg-xserver-1.2-apple branch

commit 10fde62fe88302f7d3b2546239b1679be249567c
Author: Ben Byer <bbyer@bbyer.local>
Date: Sun Nov 4 18:59:41 2007 -0800

more CVS tags

commit 27ecb89250398f45564fe454e20bffd66f62c8e4
Author: Ben Byer <bbyer@bbyer.local>
Date: Sun Nov 4 18:53:41 2007 -0800

Removed CVS tags.

commit f2e310132fbe1520c1b5f3da4faa2d2d47835e72
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Oct 31 14:15:35 2007 -0700

Add CreatePixmap allocation hints.

These hints allow an acceleration architecture to optimize allocation of certain
types of pixmaps, such as pixmaps that will serve as backing pixmaps for
redirected windows.
Config: HAL: Touchpads are pointers too

Treat touchpads -- not just mice -- as pointer devices.

XFree86: Input: Save/restore errno around SIGIO (bug #10683)

Make sure errno is saved and restored from the SIGIO handler, so errors from system calls in input handlers don't break the interrupted code.

Always duplicate mode name when duplicating a mode.

If the originating mode didn't have a name, we would end up with the name of the original mode being setup correctly, but with the name of the copy still being NULL.

Restore build of xf8_16bpp.

It doesn't link against cfb, so don't conditionalize its build against cfb.
Fix crash in xf86InitOrigins()

In a multihead setup, if only the first screen can be initialized, but the second screen is mentioned first in the ServerLayout section, the xf86InitOrigins() function will crash because the screen referred to in the e.g. "RightOf" part is non-existent.

commit 5b41d4e60be35cfb96bedec0931fd5922823b4b9
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Oct 28 09:37:52 2007 +0100

Don't filter modes away during VBE mode list construction.

Pass all VBE modes back up to the driver, on the assumption that it knows how to filter modes intelligently.

commit c095da04fe7c73b6503ef5b93549fb13796c51b22
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Oct 28 09:37:52 2007 +0100

Fix magic number in fbdevhw

The transformation between fbdev and xfree86 mode timings needs to be invertible, otherwise Xen and other framebuffers that don't have real pixel clocks won't initialize.

commit f4fe66f6767d1941317dc0280ac359421a152587
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Oct 28 09:37:52 2007 +0100

Disable explicit commenting in Monitor section.

commit 22f0e3a8b04e574047a51c8f928a007787303294
Author: Adam Jackson <ajax@redhat.com>
Date:   Sun Oct 28 09:37:52 2007 +0100

Avoid PS/2 protocol probing for /dev/input/mice

The kernel will always upconvert to ExplorerPS/2 for all readers of /dev/input/mice, so don't waste time on startup trying to figure that out.

commit b97518666dc32710f6e69ee33ee56881dcff1bbc
Author: Adam Jackson <ajax@redhat.com>
Fix accidental ABI usage in RANDR 1.2 drivers.

Due to RANDR 1.2, xf86findOptionValue and xf86nameCompare are now ABI. Make sure they're exported from the server.

Move SIGUSR1 notification as late as possible.

If we inherited a signal mask from the parent process that ignores SIGUSR1, then we will send SIGUSR1 to the parent to indicate when we're ready to accept connections. Unfortunately, we send this notification way too early, right after creating the sockets rather than just before entering the main loop.

Move it to just before Dispatch() so we're not lying quite so much.

Enable MIT-SHM in Xdmx.

The extension is entirely DIX-level, no new DDX changes needed.

reduce wakeups from smart scheduler

The smart scheduler itimer currently always fires after each request (which in turn causes the CPU to wake out of idle, burning precious power). Rather than doing this, just stop the timer before going into the select() portion of the WaitFor loop. It's a cheap system call, and it will only get called if there's no more commands batched up from the active fd.

This change also allows some of the functions to be simplified; setitimer() will only fail if it's passed invalid data, and we don't do that... so make it void and remove all the conditional code that deals with failure.

The change also allows us to remove a few variables that were used for
housekeeping between the signal handler and the main loop.

Signed-off-by: Keith Packard <keithp@koto.keithp.com>

commit 692654b430061a9481e6fa588bcb44a3c3ca150
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Oct 29 18:13:58 2007 -0400

Set up visuals for the existing X visuals.

This makes the root visual a GLX capable visual again and adds a GLX visual for the COMPOSITE ARGB visual cleanly (as opposed to the hack we had before).

commit a5546a99ac4da61ae0d49c55bcb38bce9a96aa
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Oct 29 18:06:41 2007 -0400

Change the GLX module to initialize after COMPOSITE.

This changes the module initialization order so that the GLX module initializes after COMPOS1TE. The reason for this change is to be able to initialize a GLX visual config for the COMPOSITE ARGB visual.

commit 8ead41388e36e21ea6fa0408c847f174911eab0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 6 18:57:00 2007 +0930

xfree86: wrap keyboard devices for XKB.

Call ProcessOtherEvents first, then for all keyboard devices let them be wrapped by XKB. This way all XI events will go through XKB.

Note that the VCK is still not wrapped, so core events will bypass XKB.

(cherry picked from commit d627061b48ae06d27b37be209d67a3f4f2388dd3)

commit e717cf08e99746761d74289c426bbd84176f4435
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 27 21:32:47 2007 +0300

XKB: Cope with all events in XkbProcessKeyboardEvent

Cope with Xi and pointer events in the (now increasingly misnamed) XkbProcessKeyboardEvent. If it's the wrong type, call through the wrapping chain to get out; else, process it.

commit 9db8846fa53d91193bfe541b224c2326440011d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 27 21:31:39 2007 +0300

XKB: Don't update indicators on all devices, add missing include file

Don't get XkbUpdateIndicators to update the indicators on all our devices: we already deal with that ourselves.
Add exevents.h include to get more (proto)types.

commit ee3aa948eb8ed181d037294ed87df6ceec81684e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Sep 26 18:04:59 2007 +0930


Instead of hardcoding CoreProcessPointerEvent, actually try to unwrap properly and then call the unwrapped processInputProc. Seems to be a better idea, especially since it makes stuff actually work...
(cherry picked from commit 8f9bf927e1beecf9b9ec8877131ec12c765e4d84)

commit d3588a0aaee33fbd233082f881c0d37152c6d4d8b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 11:44:03 2007 +0930

xkb: xkbHandleActions: let wrapping take care of event delivery.

This is hopefully better than hardcodey calling CoreProcessPointerEvent.
(cherry picked from commit 32d0440c7f6e604807cb14dd32349df6f22c903b)

commit 352c5a311200bf4911153fe9ef16126c5877a57bb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Sep 12 17:40:11 2007 +0930

dix: don't compress motion events from different devices (EventEnqueue)

(cherry picked from commit 8840829ab93c4eb62eb58753c015da5307133fe5)

commit 8d3d027062c105b50863dce43b8070ec560bc12e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 6 18:52:02 2007 +0930

dix: add XI event support to FixKeyState.

FixKeyState needs to be able to handle XI events, otherwise we get “impossible keyboard events” on server zaps and other special key combos.
(cherry picked from commit 5ee409794ee604fcf84886f70429fc2d6b1ff4f1)

commit 99e826e867c1c5520153c539ba07a884aee88d0c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
xkb: enable XI event processing for xkb.

XI events can now take the same processing paths as core events, and should do
the correct state changes etc.

There's some cases where XKB will use_KeyPress as type for an event to be
delivered to the client. Stuck warnings in, not sure what the correct solution
is yet.

(cherry picked from commit 6334d4e7be18de5f237c12a6dc20f75aa23477d0 with some
additional compile fixes and non-MPX adaptations)

commit 91077bfc50d54be37c217e377c55b6bf886a2fab
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 21 18:24:30 2007 +0930

Save processInputProc before wrapping it and restore it later, instead of
using a hardcoded ProcessKeyboardEvent. Otherwise we lose the ability to
process DeviceKeyEvents after the first key press.

This should be the correct fix now.
(cherry picked from commit 4d5df14f2c4a3108a8c8adfcf4766c0d1a9daad2)

commit 8b9481a113b56078191c2298bf590905978f6289
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Sep 4 17:44:51 2007 +0930

xkb: Store the action filters per device in the XkbSrvInfoRec.

Using a global array for action filters is bad. If two keyboard hit a modifier
at the same time, releasing the first one will deactivate the filter and
thus the second keyboard can never release the modifier again.
(cherry picked from commit bfe6b4d2d9952a80f8db63eecc974ef894e5c226)

commit 493b83bd097372ae0023da9919da83af39e3fc1c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Oct 27 21:33:52 2007 +0300

XFree86: Remove ridiculous SIGIO debugging

YOU PRESSED A KEY
AND AGAIN
YOU RELEASED A KEY
AND AGAIN
YOU PRESSED A KEY
AND AGAIN
... not so much.

commit a3d48de5f2b7eacf3193c60f0fb461912201210b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Oct 27 21:35:31 2007 +0300

XKB: Add more bits to xkbsrv.h

Add the device private index, given we use that in a macro here, and also the
prototype for xkbUnwrapProc, since that's also useful.

commit e29e69960d67aa4b7a4d1551af509dbac193f438
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Oct 27 21:34:22 2007 +0300

Xi: Include XI protocol header in exevents.h

Make sure we have all the types we need to use this header.

commit df57ae1639ba4f1719883c5bf868394e4748a022
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 28 15:46:26 2007 +0200

configure.ac/XFree86: Only build XF86Misc and XF86VidMode when appropriate

Don't build XF86Misc or XF86Vidmode in hw/xfree86/dixmod when it's been
explicitly disabled in configure, or we don't have the proto modules
installed.

commit 3b7af72fe315c7c26c89838c0c5dace58765d0f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Oct 26 20:32:10 2007 -0400

xselinux: Add a SetDeviceContext request and stubs for more requests.

commit 2251572062b2c25643671b8d5070de1c3f7ae976
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Oct 26 15:13:50 2007 -0700

    Restore the CompositeGlyphs -> ps->Glyphs -> miGlyphs callchain to allow acceleration architectures to wrap
above miGlyphs.

commit 497aba894904b08b15bb19916e2a163f96212a7d
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Oct 26 11:25:57 2007 -0400

    Weed out some unused fluff from __GLXcontext.
commit 0e749ceab421d72b48e18292e5ca0e337ba5f5ce8
Author: Bernardo Innocenti <bernie@codewiz.org>
Date: Sat Oct 20 20:31:57 2007 -0400

Include stddef.h for size_t.

This is required by a buggy version of the openssl/sha.h header which is distributed with Fedora 7.

commit 80d8a3e1767609a92b0b85a7e92cea5f0748038a
Author: Kristian Høgsberg <krh@redhat.com>
Date: Fri Oct 26 10:19:57 2007 -0400

Quiet glx visual debug info.

commit 27b13eeb56a5cbac00b381309604505002e77228
Author: Matthias Hopf <mhopf@suse.de>
Date: Fri Oct 26 13:15:07 2007 +0200

Nuke superfluous ",", added missing include for xf86i2c.h.

commit 6d59bb5709a99ab60b482bbf3393ebfda79407
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Oct 26 09:12:15 2007 +0300

XFree86 Misc/VidMode: Remove ridiculous debug ErrorFs

When we're building with --enable-debug, don't emit an ErrorF every time a function gets called.

commit 5f9095f0d29bac0190d82c87a09cf32d6a34c17c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 25 19:02:03 2007 -0400

registry: Remove synthetic bit from event types in lookup function.

commit 8c6923018c7d71cd15d9cfe4ef9e8528ef5ec7c2e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 25 19:01:29 2007 -0400

xace: Add a "manage" access check when setting the Redirect event bits.

commit 7d14ca59c5b942c09feaa2429c394cde9d8d3fd1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 25 19:00:50 2007 -0400

xselinux: Don't include the client in the receive hook audit messages.
commit f62277d421023b3150d3a1accc00a8206ab2bde3  
Author: Kristian Høgsberg <krh@redhat.com>  
Date:   Thu Oct 25 18:48:39 2007 -0400

   Clean up unused pVisual part of __GLXcontext.

commit 30bcaa966d6b00f1630609a78db18dee683cc43d  
Author: Kristian Høgsberg <krh@redhat.com>  
Date:   Thu Oct 25 18:48:06 2007 -0400

   Make glx destroy path handle cases where the X window goes away first.

commit 40de9f9ef18930811dd5ae355c83275af887a9183  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Thu Oct 25 12:35:01 2007 -0400

   xselinux: Label the default device directly with the process context.

commit b633d54b94d746d26e13014634d9f63bbb7e8f7d  
Merge: 4b05f19cb9 48ca5961ca  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Thu Oct 25 12:19:30 2007 -0400

   Merge branch 'master' into XACE-SELINUX

Conflicts:

   GL/glx/glxscreens.c  
   hw/xnest/Screen.c  
   render/glyph.c  
   render/glyphstr.h  
   render/render.c

commit 242f56f7222243938e908d1ee53c2999783  
Author: Naoki Hamada <nao@tom-yam.or.jp>  
Date:   Thu Oct 25 18:45:50 2007 +0300

   Input: Fix key down test (bug #12858)

   Fix the botched previous key_is_down test, which would give false positives.  
Also move key_autorepeats to a separate inline function.

commit 4b05f19cb9e42d8c8eff5ca4e463f5bc2a05433d  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  

   xselinux: Introduce a type transition when labeling events.
commit 0d2ef187e77b12713d2a9661932fa01dba58a945
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>

xselinux: Add audit message fields for selection and event names.

commit 48ca5961caeae62f2980017a6bdc96a1b4c747727
Author: Matthias Hopf <mhopf@suse.de>
Date:   Wed Oct 24 20:31:51 2007 +0200

Prefer configured DisplaySize to probed DDC data, if available.

Based on patch by Hong Liu <hong.liu@intel.com>.

commit 0388a59a6ef212c497cc3f64d677b1ca5b410982
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 20:59:21 2007 -0400

Revert "registry: special case minor number when looking up core requests."

This reverts commit 31110d6837ee52fd654729d9e5c4b0c5395abab0.

This is handled properly by StandardMinorOpcode().

commit 46521f529841e032e198e5df87974088548a68de
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 20:58:48 2007 -0400

xselinux: Add basic support for selection access control and redirection.

Probably not fully baked yet. It's difficult to test since so few apps actually follow the ICCCM with respect to cut & paste.

commit b7ee005d327372c1e414ee6c526f9f7ae14bc86
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 24 10:26:12 2007 +0930

dix: Don't interfere grabs the interfering device is of different type.

A pointer device should be able to send events while the client has a core grab on a keyboard device, and likewise.

commit 02508614b9f882ba1559fb4581dce812118f8d89
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 24 10:09:18 2007 +0930

dix: check for core passive grabs on inferiors when replaying events.
commit 825f09dffd94cfcd0562a01c5181998503851461
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 17:12:57 2007 -0400

xace: Still more changes to selection code. Removed the SelectionPtr from
the hook - the hook only needs the Atom to control access to the selection
object. Upgraded the SelectionCallback to take a client argument and
additional type codes so that it can be used for redirection.

commit 660557593ea961948722298ea8ffba83891c9914
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 14:46:37 2007 -0400

xselinux: Remove synthetic bit when looking up event type.

commit d7db549db41a27aeaf28cfe9fbf7973be741f88b2
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 14:08:54 2007 -0400

xselinux: Unregister callbacks on server reset.

commit 9e0a468af19d8e46330bceff37e9adc5e11d3ae67
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 23 13:35:30 2007 -0400

xace: try to pretend events were sent when a denial occurs.

Probably need to redo the error return paths in these functions
at some point.

commit d502521c3669f3f22b94c39a64ab63bdf92c6a97
Author: Pierre Willenbrock <pierre@pirsoft.dnsalias.org>
Date:   Tue Oct 23 16:45:13 2007 +0200

EXA: Fix off-by-one in polyline drawing.

commit a8a148919b84a293e3e7a49409ab833590357ed6
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Oct 23 16:23:28 2007 +0200

Superfluous ','.

commit 75f05086d04a90c3dcdd31bf79d7033708e3e0
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Oct 23 15:39:23 2007 +0200

Get rid of unnecessary GNU extended variadic macro.
dix: Create new sprite for floating devices.

Floating devices get sprites, but still aren't spriteOwners. This prevents
them from getting rendered, and also stops segfaulting.
(not really solving the problems with keyboards though)

commit d808d653d1fc16f1d5af76ab00fa862fb80fa3ba
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon Oct 22 21:30:04 2007 -0400

  Define PCI_TXT_IDS_DIR more cleanly

commit 29e0e180729a4f0cc020985a4de4c8bc4b9c7f5f
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Mon Oct 22 13:38:16 2007 -0700

  Leave hardware-specified preferred modes alone when user preference exists.

  Instead of removing the preference bit marking the hardware declared mode
preference, leave it in place and just move the user preferred mode to the
front of the list while marking it with the USERPREF bit which will cause it
to be selected by the initial mode selection code.

commit fbe19c66c36acfb484809111cf02579a3ba2f0f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Oct 22 18:28:03 2007 +0200

  GLX: Fix leak of X pixmaps associated with GLX pixmaps.

commit c6d36b1bee44a9cbb690dfff62a4683d7f6bf30c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Oct 22 18:28:03 2007 +0200

  GLX: Don't crash on unused client array members when switching to/from console.

commit be9b0e558d6172ef01ed880d47da897d2ceb25fa
Author: David Nusinow <dnusinow@debian.org>
Date:   Sun Oct 21 23:49:14 2007 -0400

  Add a note as to why the text file based PCI ID scheme is present at all
Fix compilation issue on FreeBSD (bug #12841)

Hide getline call by checking for glibc. If not, use fgetln instead. Even though this section is now #ifdef'ed for linux only, this should help make it more portable if non-linux folks end up wanting it.

commit 7f5e71fa7347fb4ec2657ccc453831c04a0f288d
Author: David Nusinow <dnusinow@debian.org>
Date:   Sun Oct 21 23:46:54 2007 -0400

Make PCI text file directory configurable

commit ce7f6fe1268fefef4f89aa21c7b44d73ecd98efe24
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Oct 19 19:40:04 2007 -0400

xselinux: properly update sizes when dynamic arrays are resized...

commit 4b14c9a9cd2033d38c4ba364d41ab4c4b198ab
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Oct 19 16:34:54 2007 -0700

Replace calls to Glyphs screen hook with CompositeGlyphs and remove dead code.

Not all of the DDX/miext Glyphs hook implementations have been removed, but they should be.

commit a3a95d3475dc91ed2e8a55bf484a6b3f2b5ac32a
Merge: a358b87f45 7e1cada6c6
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Oct 19 15:44:17 2007 -0700

Merge branch 'master' into glyph-pixmaps

Conflicts:

configure.ac

commit 12e889d202ac9849f534c51167cbed91c32027a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Oct 19 18:43:38 2007 -0400

xace: Bug fixes, name changes to selection access hooks and fields.

commit 7e1cada6c6b9fa41ef3ead00bf7725d626dda193
Author: Eric Anholt <eric@anholt.net>
Disable debian pci-id-list autoconfig code on non-linux.

It contains static paths, fails to build on non-glibc, and apparently just exists to support distributions managing binary drivers and open-source drivers together. Also restores previous code for fallback to vesa if nothing is detected.

commit 89c6108531e603bdc81faf2ea86f0f318a2e94a39
Author: Kristian Høgsberg <krh@redhat.com>
Date: Fri Oct 19 16:21:54 2007 -0400

Fix software GL to provide a list of supported fbconfigs like the DRI case.

commit 74e84b8d891632141a60e2d29463ab46f622df3f
Author: Matthias Hopf <mhopf@suse.de>
Date: Fri Oct 19 17:28:15 2007 +0200

Only issue XF86_APM_CAPABILITY_CHANGED for video change ACPI events (not e.g. brightness etc.).

commit 6fdf3ddfe2707755ce0fc9cbe354fd472bb52
Author: Matthias Hopf <mhopf@suse.de>
Date: Fri Oct 19 17:20:21 2007 +0200

Fix ids of ACPI events according to ACPI spec.

commit d9caa469b9b4eb6125b890820853062fc2e4441
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Oct 19 15:26:09 2007 +0930

Xi: allow VCP/VCK to be OpenDevice'd as well.

All devices deserve to be equal. Except master devices, they are a bit more equal than the others.

commit 155e2c559ed0dbf31b6d39d48648a3ee22b37635
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Oct 19 14:37:07 2007 +0930

Xi: advertise as XInput v2 capable

commit 5ba738935f0d786e4670adf3b05ad42fc5e710fd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Oct 19 14:36:37 2007 +0930

Xi: remove ChangePointerKeyboardPairing in favour of ChangeDeviceHierarchy.
Xi: set master device's id in ListDevices Reply.

Xi: return all master devices as type IsXPointer/Keyboard when listing devs.

Slave devices are reported as IsXExtensionPointer/Keyboard.

Introduce a new "GlxVisuals" option that controls which visuals are added.

Right now we default to "all" which gives us a situation much like before, but when the "typical" option is implemented, we can change the default and reduce the number of visuals the GLX module bloats the X server with.

Add code to set up GLX visuals and add one for the first double buffered FBConfig.

Separate handling of GLX visuals and GLX FBConfigs.

XIDs for GLX visuals and FBConfigs used to be interchangeable and the list of GLX visuals was identical to the list for FBConfigs. This patch splits handling of these two data types and allows the X server to pick and choose the FBConfigs that are exposed as visuals.

Drop VisualConfigPriv support from the DRI module.

No DDX driver uses this, and this patch stops the DRI module from...
poking around GLX module data structures.

commit 7d74690536b64f7b8e8036507ab7790807349c50
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Oct 14 15:39:21 2007 -0400

Simplify and clean up GLX visual initialization.

Instead of the fragile setup where we filter the modes common between the
DDX generated GLX visuals and the DRI driver generated fbconfigs, we now
just take the fbconfigs returned by the DRI driver to be our supported set.

commit ab4bce02a9457dd9c86b774fc74caf3dd6b287ca
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Oct 18 15:22:42 2007 -0700

Add a quirk for Philips 107P5 which lacks the preferred bit on detailed timing.

Also fix the prefer-large-75 quirk if the prefer-first-detailed bit was set,
though it's not the case for the existing prefer-large-75 consumer.

commit 55a96aa6b0995fda6660b7e78c85b955a62b9735
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 18 14:11:11 2007 -0400

xselinux: add basic event labeling.

commit e974bc1233608ec09fbd40b12217925e4d2205aa
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 18 12:33:39 2007 -0400

xselinux: add hooks for send and receive access.

commit 06eb830169af0d631a31e8846c7d2533c49ea378
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 18 12:31:14 2007 -0400

xace: Fix bug in AddPassiveGrabToList(), was using wrong GrabPtr.

commit 6107a245035366fe762756b6a05ac0e3a5482bb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 18 12:24:55 2007 -0400

dix: Add client parameter to AddPassiveGrabsToList().

commit ce50b1d3369686cfece5a138bd84ef1107a249d
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Oct 18 17:44:48 2007 +0200
EXA: Skip empty glyphs.

commit 5d74416740de883b7ef0994afea4bbd4d3901be0
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Oct 18 17:44:14 2007 +0200

EXA: Don't attempt to move in pixmaps that can't be accelerated.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=12815.

commit 31110d6837ee52fd654729d9e5c4b0c5395abab0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 18 10:30:44 2007 -0400

registry: special case minor number when looking up core requests.

commit e3fd90ae9c3ddf65d78e62614e311b73505d7ead
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 18 10:29:10 2007 -0400

registry: Add "X11: " prefix to core protocol names.

commit aa340b2c7cbe9ddab53c6ff08c8ba16558209187
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Oct 17 19:27:16 2007 -0400

xselinux: add hook for device accesses.

commit 503f918f55d0cb29585d83b022bb8dc29f446c5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Oct 17 19:14:15 2007 -0400

xselinux: Move functions around; add some more comments.

commit 50b27e1ad2a98d36728de8157492ef5c59c132cd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Oct 17 16:09:40 2007 -0400

devPrivates rework: update new GL/glXext code.

Need to merge so this type of thing stops happening.

commit c3f7b862550fa8f46633162f83db8c27e46fc672
Merge: af4d9e0ac1 feac075952
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Oct 17 15:00:54 2007 -0400
Merge branch 'master' into XACE-SELINUX

Conflicts:

    os/access.c

commit af4dde0ac19ecec1d0ad988eb25b15401e7c6b36
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 17 14:13:02 2007 -0400

    xselinux: Remove config file, this has been moved to the policy.

commit baabae623b3658196b67a710dc72663c2105bf31
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 17 13:54:56 2007 -0400

    xselinux: Started reworking extension using new XACE hooks.

commit db66e66dbf26b91c655f1659859c022cc31f0db6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>

    xace: Add an access_mode field to the extension structure.
    This allows the same callback to be used for both extension hooks.

commit e3a8cbe523bae8b771ad3c8ad497f4444f6d05d5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>

    xace: add creation/labeling hook to CreateRootWindow().

commit feac0759522cbdc3e61ccfa373df735903c5cb27
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Wed Oct 17 11:42:28 2007 +0800

    Make config file preferred mode override monitor preferred mode.

    Add a new even-more-preferred bit to each mode which is used to make config
    file preferences selected instead of the monitor preferred mode.

commit f2da10f7bc22db6ad2f18b793afec10d04b97c51c
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Wed Oct 17 10:50:22 2007 +0800

    KDRIVE_LOCAL_LIBS includes some system libraries, not just internal x server libs

commit 9aadde377991bfbd88524d02106bec3dedd6e7c9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
mi: don't call UndisplayCursor for non-sprite-owners.

Segfaults are bad.

commit 8b7c4249d82d07e852d8d8c15c7ab9977dd1f31c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 17 10:41:58 2007 +0930

mi: call processInputProc for master devices after slave event processing.

More work is needed to sort out grabs though.

commit ae9fc10adece8f9bf0492d14d435f8f11e0163b27
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 17 10:41:04 2007 +0930

Xi: don't send core events for slave devices.

commit de70c4d4e60eb6e7bf3e74d5fd1ac3de554def1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 17 09:52:30 2007 +0930

mi: fix some macros to allow multiple cursors for master devices.

Macros defaulted to inputInfo.pointer for devices that weren't spriteOwners.
Changed to take the device's master device now.

This includes sticking in a number of checks and warnings that cursor
rendering won't be called for floating devices.

commit 773f6491c1ce8819038e753d08c32ba213f80f8f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 16 19:11:36 2007 -0400

xace: update the DeleteProperty prototype to include the client argument.
This should have been part of 8f23d40068151d85cde239d07031284f0b2c4dc.

commit 9dde53ed1793d3e7b483c9a94a97182ad1777dfb
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date:   Tue Oct 16 19:55:56 2007 +0100

Fix walking of GLX providers.

commit 70a5d33e9e41c077a8cd92abd43376e2956d3aed
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Oct 16 12:46:07 2007 +0200
Always check the return value of \_\_glXGetDrawable first.

Fixes spurious GLX protocol errors because \_\_glXGetDrawable doesn't set the error code in case of success. Maybe it should, though.

commit 1d9ebbac8c589cae7e4952083692b6d148def9bc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 18:46:12 2007 +0930

\texttt{dix}: Make \texttt{InitCoreDevices} use \texttt{AllocMasterDevice}.

Also change naming a bit, append "pointer" and "keyboard" to master devices instead of -ptr and -keybd.

commit 299573f4617c3b5599bb65069e96d0502777b9471
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 18:40:15 2007 +0930

\texttt{dix}: add \texttt{AllocMasterDevice} for creation of new master devices.

Devices are initiated pretty much the same as the core devices.

commit 5fe9b9f23f17b84c3afaa82f75a7c517c9f8e0d3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 18:23:48 2007 +0930

\texttt{xfree86}: NIDR: don't call \texttt{PairDevices} explicitly.

set isMaster to FALSE explicitly.

Pairing isn't necessary, attachment should be done in \texttt{EnableDevices}.

commit 5eb033835e92ea951cc385fd709af9656b3772d8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 18:03:52 2007 +0930

\texttt{mi}: don't exclude inputInfo.pointer from rendering.

commit b697c4ed145968d3c3281bb85e628f1b068b09fc
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 17:47:06 2007 +0930

\texttt{dix}: \texttt{CheckPassiveGrabOnWindow}: only get paired device for non-keyboards.

commit caa69d8f7b92b80669df02e1001409d7c653e7e4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 17:38:13 2007 +0930
dix: fix detritus from adding lastSlave field.

commit 90d077e537ac4cb7d79d67af93f3984a3e8d65fe8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 17:37:33 2007 +0930

dix: GetPointerEvents: get state from master device before applying valuators.

We need to get lastx/y from the master device before we start applying acceleration etc. Otherwise we get jumping cursors, which is reasonably bad.

commit b6ccf721b0a582150858d68f91967fb4e319c340
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 17:35:06 2007 +0930

include: add "lastSlave" field to DeviceIntRec.

Set to the last slave device that routed events through the master.

commit e6bd8ae0608bd8379e5ac962f69ed0b3c54f9734
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 15:59:30 2007 +0930

dix: set the device's sprite when using AttachDevice

Sprite is set to the master device's sprite.

commit 271d4c3d6255318aabb9ad1ea444f534ed456f0b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 15:50:07 2007 +0930

xfree86: remove XI86_SHARED_POINTER flag.

Not needed anymore. By default, all devices are slaves of first master device.

commit c7b878b904067b81c97db7851a9b454e2b6baee0e1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 15:07:31 2007 +0930

dix: don't treat VCK/VCP separately in DevHasCursor, IsPointer/KeyboardDevice.

commit e9f149f56747f7eaa0f714dce97b067b007c47e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 14:24:20 2007 +0930

Fix up detritus from removing GetPairedPointer/Keyboard.

commit 840bde3d32f3627d6fc3d7d8b6564a61a8014933b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 13:09:35 2007 +0930

dix: GetPairedDevice: return dev paired with master for slave devices.

commit 6c259a08d917f94fd7381453b625b07826d3ef9c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 16 13:09:19 2007 +0930

include: remove unused GetPairedPointer/Keyboard declarations.

commit fe97f7c54a1b42acd5426966b6cde9e83e89548f3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 22:46:08 2007 -0400

registry: Add some missing #include's.

commit 9ecbbf198f44ec398897736e173e7e8c56bf6f94
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 08:00:06 2007 +0930

dix: adjust PickPointer and PickKeyboard to get the first master device.
Simplifies it a lot, since we always have at least one master device
available at all times, so less mucking around.

commit 0c5f65ecd3ad11fadb1cab3cb1d0eb4f33bb4e35
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 07:57:24 2007 +0930

dix: don't allow slave devices as ClientPointer

commit 9ccc9ab6f29f68298b68cdhb5e9b4bd57a969f05a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 07:53:00 2007 +0930

dix: don't call CloseDevice on VCP/VCK separately.

commit e4fd981b48723b77a6c1a528638a771b9c35472
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 07:52:11 2007 +0930

dix: check for isMaster before calling DeviceCursorCleanup.

commit 7503d1340726e0a529f0304d177ed2ceb8fbc91
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 07:50:13 2007 +0930
dix: don't check VCK and VCP separately when looking for device ids.

Both are part of the device list again, so we cover them there.

commits:

- **commit 032e906711202d376af95b37bb0cdf14a3648256**
  Author: Peter Hutterer <peter@cs.unisa.edu.au>
  Date:   Tue Oct 16 11:57:42 2007 +0930


- **commit 853ea337bdad17f8f6ec7d940de14ce2cbbf93e**
  Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
  Date:   Mon Oct 15 22:13:02 2007 -0400

  registry: Register XvMC extension protocol names.

- **commit 58c3240fcbec23aad122e1c340f6bb6d3b18f779**
  Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
  Date:   Mon Oct 15 22:09:47 2007 -0400

  registry: Register MIT-SCREEN-SAVER extension protocol names.

- **commit 3e07e73fefc100e491d1e465cb162373d1d82425**
  Author: Peter Hutterer <peter@cs.unisa.edu.au>
  Date:   Tue Oct 16 11:34:29 2007 +0930

  dix: remove pairing/attachment from InitAndStartDevices.

  If we enabled in the correct order, this has all been done already.

- **commit 4e274e90e16b1d954391e1af3e2074fb10f70ee7**
  Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
  Date:   Mon Oct 15 22:04:20 2007 -0400

  registry: Register SHAPE extension protocol names.

- **commit 9f597f6c87e0b14cc382d8e5929e42f22db4329**
  Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
  Date:   Mon Oct 15 22:01:20 2007 -0400

  registry: Register SYNC extension protocol names.

- **commit 38baac71dadb8c7e882e3e39133615cfd894a6b**
  Author: Peter Hutterer <peter@cs.unisa.edu.au>
  Date:   Sun Oct 14 04:21:42 2007 +0930

  dix: Set bidirectional pairing, don't allow pairing with already paired devs.
commit 70efd3d06a15093661933bda4ec21e306dece4a4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Oct 16 11:30:32 2007 +0930

dix: fix up Activate/Enable/Disable device.

Set isMaster for VCP/VCK.
Init sprites for master pointer devices.
Pair master kbd's with master pointers (1:1 pairing!).
Attach other devices to VCP/VCK.

commit b504678ba5407a6fd8d47d051305f7c3d5606dfe
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 21:54:25 2007 -0400

registry: Register APPGROUP extension protocol names.

commit 204f2dc89ef662b57400b128c30c15e8cf32f323
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sun Oct 14 04:13:06 2007 +0930

include: add "isMaster" field to DeviceIntRec.

Set to TRUE for master devices.

Also fixing up comment for paired field in spriteInfo, will be set bidirectional from now on.

commit bd7d5255ce4865b684f7d8bf80ba9872a1af22d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Oct 16 11:18:31 2007 +0930

dix: add AttachDevice, needed to attach a slave device to a master device.

For now, we don't allow attaching slaves to other slaves, and we don't allow pairing slaves with other slaves.
Pairing is for master keyboard->master pointer only.
Attaching is for slave device->master device only.

commit 6ec35a8cf539c900b334dd6df146b394f54e3706
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 21:46:56 2007 -0400

registry: Register BigRequests extension protocol names.

commit 1254cc399c53eadcc32eeabf69990ed2526c7ae0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 21:43:06 2007 -0400
registry: Register Fontcache extension protocol names.

commit e987648cf2c21dcbdf77dd9a71793090a48e4f521
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 21:38:56 2007 -0400
egistry: Register EVI extension protocol names.

commit be156f6b8fb09eba9941d6f7c485bf5fb25fe7a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 01:53:54 2007 +0930

dix: Set core devices to ProcessOtherEvents, set sendCore and XKB.

Even the virtual core devices should send through ProcessOtherEvents.

commit ce9bf9a19185a36ac2f7ae75acd320ab8d03d247
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Oct 14 01:50:40 2007 +0930

include: add "master" field to DeviceIntRec.

"master" points to the device this device is attached to. Event sent by the
device will also be routed through the master.
master and spriteOwner are mutually exclusive.

commit f6226d3bfe1515058e2092e8662ae87825501209
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 21:35:12 2007 -0400

registry: Register TOG-CUP extension protocol names.

commit 7e182a5d89d618e20dcc7785013169073322d39
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 21:13:39 2007 -0400

registry: Register MIT-MISC extension protocol names.

commit 32f6171862461d17ebea58a2fb6ddd16ac71358c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 21:10:14 2007 -0400

registry: Register XF86Bigfont extension protocol names.

commit 12766c5b5fdab95255a63b2c8421ee773fd43b5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 21:00:46 2007 -0400
registry: Register Xv extension protocol names.

commit 35ae03871af88b2f420dd83448011a077852d7a0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 20:50:26 2007 -0400

registry: Register XC-MISC extension protocol names.

commit 32fe282d5b8306514d641e15bc6d9fd4ab360977
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 20:45:18 2007 -0400

registry: Register XTest extension protocol names.

commit 3877faf7d9fe00ed634077e38a198ae4b91a2bb4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 20:35:13 2007 -0400

registry: Register Multibuffer extension protocol names.

commit 16764a2d299e7c0c98002aadd52ab4a1a36758c3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 20:29:23 2007 -0400

registry: Register DPMS extension protocol names.

commit f077578e42eece424b0e534774574c84af9d6f85b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 19:43:02 2007 -0400

registry: Register XPrint extension protocol names.

commit 5c8b1a91726817816d20faefad21c7a68ab634cc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 19:35:04 2007 -0400

registry: Register Resource extension protocol names.

commit 48891d5696f56711f23743cb03be39cf6b26e522
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 19:32:01 2007 -0400

registry: Register EVIE extension protocol names.

commit 2c9646ad4e65bb061d910c9e2b1a8a9781f21fa17
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 19:18:03 2007 -0400
registry: Register SHM extension protocol names.

commit 8964c6d8e14ae47798762191e359b2bf138ca32e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 19:10:51 2007 -0400

registry: Register RENDER extension protocol names.

commit c827db57e4d9ca14e82b099d96c9b7a0c90b5ba0a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 19:06:01 2007 -0400

registry: Register RANDR extension protocol names.

commit 20db50b4c44a14f7eeac2b1de17ada68482521da
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:56:59 2007 -0400

registry: Register DAMAGE extension protocol names.

commit b38a91993364aa80cfd99721e319e1458d9fb760
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:50:06 2007 -0400

registry: Register XTrap extension protocol names.

commit 106758893b68033f14f69c4ee6591fb6a149ba37
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:31:40 2007 -0400

registry: Register XFixes extension protocol names.

commit ea09c9acc8f0d557f54c864ff88b7f03d93b2f4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:25:12 2007 -0400

registry: Register Record extension protocol names.

commit 2e1e5be1d9067816525aa13a1d818e8ca6899599
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:18:57 2007 -0400

registry: Register DBE extension protocol names.

commit 4c3285c883cc50a91bc5262bbc9d073d816f860a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Oct 15 18:04:47 2007 -0400
registry: Register WINDOWSWM extension protocol names.

commit 3815284e899b61731b6a63c4ba14e5d773e24eb6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 17:57:59 2007 -0400

registry: Register XF86DGA extension protocol names.

commit 2cd1b32b77e0ceebb3f01c4ac13a97c557668c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 17:37:58 2007 -0400

registry: Register XF86Misc extension protocol names.

commit 960677e876c068400fb45e1764bb5470cd8c389f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 17:30:00 2007 -0400

registry: Register XF86VidMode extension protocol names.

commit b7786724080fd3928ef7b8c294346661d7ffd90b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 17:15:34 2007 -0400

registry: Register XF86DRI extension protocol names.

commit eee46b4681ec55297604b0425705f2b18381f7ca
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 17:06:22 2007 -0400

registry: Register APPLEWM extension protocol names.

commit b9f5ab98c8dea36dce1aad15fd2e059a77c77c39
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 16:18:37 2007 -0400

registry: Register XINERAMA extension protocol names.

commit 3464b419230c6d17e940d967b567c5d2cb22d232
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 15:45:12 2007 -0400

registry: Register APPLEDRI extension protocol names.

commit 32f3f5a1e765f8bb43ea16b9227b3994e616739
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:    Mon Oct 15 15:32:17 2007 -0400
registry: Register DMX extension protocol names.

commit 166ef972febc00c665e1d5aebe68e75d7bce9f879
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 15:22:02 2007 -0400

registry: Register composite extension protocol names.

commit a5cf3f21f712e46dbf9bca289e67be75f2b531d3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 14:27:32 2007 -0400

registry: Register XKB extension protocol names.

commit 5277a6ff589b5ddb475b90e1aaaf5dbd9172d9711
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Oct 15 13:38:35 2007 -0400

registry: Register Input extension protocol names.

commit 8b50788b7d9ec08a588a78eb49096b698c6f4916b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Oct 15 13:10:10 2007 -0400

   Fix byte swapping for GetFBConfigs.

commit c922d2ebe29f08f463ee76293dc9042712fb21c
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sun Oct 14 20:40:18 2007 +0300

glx: drop duplicate GetDrawableAttributesSGIX declarations.

       They are officially autogenerated in indirect_dispatch.h now.

commit 3d4eb17b38dc1468493f3686dc5ea3623ef9a73
Author: Ben Byer <bbyer@bbyer.local>
Date: Sun Oct 14 18:07:03 2007 -0700

   mass change from #ifdef i386 to #ifdef __i386__ to conform to ANSI

commit ec0fc012e91e703bb399a380df2912f71957a220
Author: Kristian Høgsberg <krh@redhat.com>
Date: Sun Oct 14 14:59:12 2007 -0400

   Fix GLX byteswapping.

commit 927757e1028f45f7fd94b9a2ab35567e0f34b2a8
Merge: ccda4b66bd 17ffe34ad5
Author: Kristian Høgsberg <krh@redhat.com>
Date: Fri Oct 12 19:28:39 2007 -0400

Merge branch 'master' of git://git.freedesktop.org/git/xorg/xserver

commit ccda4b66bdc179e661b24ad8ec72bb7db75b2b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Aug 27 14:43:48 2007 -0400

Implement ChangeDrawableAttributes so we can support GLX_EVENT_MASK.

We never need to actually send out the clobber event, so this should be sufficient for GLX 1.3.

commit 695eb882e88abe99a3a76d8da48c3214c7dd1f08
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Aug 27 14:23:50 2007 -0400

Implement GLX pbuffers.

commit 516c181f57367847c3f317f8f8f5cc3211026f4c
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Aug 23 21:40:01 2007 -0400

Add dispatching for GLX_SGIX_pbuffer.

commit d7ded953c4d263e3dd3374dc03ee19e80c05bc6
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Aug 23 19:07:52 2007 -0400

Implment GLXPixmaps.

commit 526f40434c86548830c4f72940462b6253fe9790
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Oct 12 18:18:00 2007 -0400

NULL is not a valid argument to CreatePicture, please use serverClient as the client argument if no real client is creating the object.

commit 2b0847c7aa9f5b6b10f062dfs601032b2430a9b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Aug 8 10:07:03 2007 -0400

Implement damage reporting for AIGLX.

commit 600028305cc047e824b18369a026f89e9eb7e437
Author: Kristian Høgsberg <krh@redhat.com>
Move hyperpipe and swapbarrier extension funcs to screen private struct.

This gets rid of a couple more global arrays and gets the two extensions more in line with the general extension mechanism.

commit 781515bb637de4fd79e3c83817cb6ff8f2d8a4f
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed May 30 23:25:03 2007 -0400

Convert GLX module to use screen private indexes like everything else.

commit 72a3d68a2f5abcd09fef1a55e976e1a5731d4b02
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Thu May 10 11:16:50 2007 -0400

Update the AIGLX DRI loader to use the new DRI interface.

This lets us drop a bunch of workarounds and use the new DRI extension mechanism.

commit 17ffc34ad5e9a8e2269afe05f20970f1895e01
Author: Matthias Hopf <mhopf@suse.de>
Date:   Fri Oct 12 15:33:31 2007 +0200

Drivers include miscstruct.h which requires pixman.h.

commit ea0e2a21c2cb14e19852e61a4521b3c240253af
Author: David Nusinow <dnusinow@debian.org>
Date:   Thu Oct 11 22:31:24 2007 -0400

Fix another compiler warning

commit a5089af726b6a4f833b95a31274743c994277e20
Author: David Nusinow <dnusinow@debian.org>
Date:   Thu Oct 11 22:24:31 2007 -0400

Fix a warning about the control logic in xchomp()

commit cdf29ff45a3eb45573e9d0cb8f82e6ee97953fb5
Author: David Nusinow <dnusinow@debian.org>
Date:   Thu Oct 11 22:23:34 2007 -0400

Remove some unused variables

commit 336709f7fa14497aab40e668cad179e244ee8f1
Author: David Nusinow <dnusinow@debian.org>
Separate choosing driver from the file-based implementation

This clears the implementation out of the way to prepare for development of a symbol-based resolution scheme

commit 3aa41bcb8215c037512ddbd68a3f7bca3d3b80a1f
Author: David Nusinow <dnusinow@debian.org>
Date:Thu Oct 11 21:29:13 2007 -0400

Remove obsolete error message define from parser

commit e3e12221111886c4063d2da5d70d3830c56d39e2
Author: David Nusinow <dnusinow@debian.org>
Date:Thu Oct 11 21:27:07 2007 -0400

Don't bother validating the Device section of the conf file

All the previous tests can now be recovered from if not specified.

commit 28ef7f59416677be380561709197b04df0479bef
Author: David Nusinow <dnusinow@debian.org>
Date:Thu Oct 11 20:56:46 2007 -0400

Re-enable validation of the screen section of xorg.conf

This also fixes a problem where the server can't find the device section when it is specified in the screen section.

commit ea2d4dc468dcebe6d38e676469ec51ed1d43490b
Author: David Nusinow <dnusinow@debian.org>
Date:Thu Oct 11 20:26:02 2007 -0400

When there's no xorg.conf, use the video driver autoloading function

commit fc092334ac0a323b80a9602cb8bf60ca9dee3bfa
Author: Eric Anholt <eric@anholt.net>
Date:Thu Oct 11 16:48:56 2007 -0700

Bug #10304,12784,11603: Add quirks for several physical size issues.

A lot of EDID writers apparently end up stuffing centimeters (like the maximum image size field) into the detailed timings, instead of millimeters. Some of them only get it wrong in one direction. Also, add a quirk to let us mark the largest 75hz mode as preferred, which will often be used for EDID 1.0 CRTs.
commit 6adeba17301a309be2f34cd51eca84a13d5503fd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 11 14:17:17 2007 -0400

dix: Add a new "registry" mechanism for registering string names of things.
Supports protocol requests, events, and errors, and resource names.
Modify XRES extension to use it.

commit 45cc03726b49f6ad4afe6c3fb4ad65d1051928b4
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Oct 11 18:23:25 2007 +0200

Make mode checking more tolerant like in pre-RandR times.

commit 8f23d40068151ad85cde239d07031284f0b2c4dc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 10 19:56:03 2007 -0400

xace: move the property deletion hook inside the DeleteProperty function.

commit 473bc6ec4c59e1a962b0b897e449a69aa5064ab0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 10 19:43:12 2007 -0400

xace: remove the special-cased "ignore" functionality from the property code.

There will be no more faking of Success to hide things. XACE does not
provide polyinstantiation.

commit 7e9e01a4a34fa45521067d43c5bbff942dd5d51a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 10 19:40:22 2007 -0400

dix: pass a valid ClientPtr to SetFontPath in all cases.

commit 8825d36a38ec76ff8af409e853061be2bd33430d
Author: David Nusinow <dnusinow@debian.org>
Date:   Tue Oct 9 22:49:07 2007 -0400

Allow the user to not have a screen section

If none is present, a default one will be created. This will be attached
to either the first device section in the xorg.conf (allowing you to
specify something like using EXA without having a screen section) or a
default screen section if none is present in the file.

commit 8665cf3327b713f334b0483593a924c197f892f2
Author: David Nusinow <dnusinow@debian.org>
Date: Tue Oct 9 22:45:15 2007 -0400

Don't require that the screen explicitly attach the device section

This will allow the screen to not explicitly have a device section. If
this is the case and there is a device section in the xorg.conf, the first
one will be used. If there is no device section at all, a default one will
be created that loads the automatically determined module.

commit 37898b824fde94735495e3494aa2b9a681d477b9
Author: David Nusinow <dnusinow@debian.org>
Date: Tue Oct 9 22:11:58 2007 -0400

Use the best guess heuristic as a fallback for autoloading

This prevents breaking the current behavior

commit 847fbbf4d25132e6c1f99fcf82fe757dbca94a34
Author: David Nusinow <dnusinow@debian.org>
Date: Tue Oct 9 22:07:49 2007 -0400

Fix autoloading of drivers for pci-rework

commit 6033d8150be3a115b90226eaa42f237bb0cf3369
Author: David Nusinow <dnusinow@debian.org>
Date: Tue Oct 9 21:17:27 2007 -0400

First pass at improved video driver autoloading

This is what we're currently shipping in Debian. Enables the ability for
drivers to ship a text file listing PCI ID's they support, and have the
server read them on startup when no driver is specified. This works, but
isn't the final solution.

commit 81d7b81146224f2b83278f5e21b3f9a36f30bd56
Author: David Nusinow <dnusinow@debian.org>
Date: Sat Aug 25 15:00:30 2007 -0400

Load intel instead of i810 when autoconfiguring

commit fdef7be5c8d5989e0aa453d05b86d0a6952e960
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Oct 9 18:44:04 2007 -0700

Sun bug 6589829: include zoneid of shm segment in access policy for MIT-SHM

commit 49c8285e38e0e71c9ea43df63add08a4f2564ed1
Author: Christian Weisgerber <naddy@freebsd.org>
Date:   Tue Oct 9 15:25:16 2007 -0700

FreeBSD/alpha server build requires libio (missed in modularization).

commit 042e16458b751ad0fcfa1ebb6d74d7d48036b22a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 9 23:07:51 2007 +0930

dix: change a few inputInfo.keyboard over to PickKeyboard()

commit 6aab6a6e2ae0ef5f6dedae09cf2c86f382e3a8a
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Mon Oct 8 13:25:38 2007 +0200

EXA: dude, don't validation driver hooks twice !

commit d42909b23a9be64a26aa349c1d6dcd8b228bffa7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Oct 5 13:04:10 2007 +0930

dix: when disabling a device, make sure all paired devices are re-paired.

We re-pair them with the VCP, not a real device! If we would do otherwise,
somebody may change our keyboard focus and thus get us typing where we don't
want to type.

commit ff2351246da30b56a3a8f90654993c41b8eb3921
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Oct 5 12:19:03 2007 +0930

dix: When pairing, only check for access right if client is set.

If the pairing client is not set, then the pairing is initiated internally
(e.g. when a new keyboard device is configured). In this case we _must_ pair
regardless of who is the pairing client.

commit 4611f9568cdad9f9c00f4b7ca4c77c8c6f07e94f8
Merge: ab11bad547 3549a12823
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Thu Oct 4 13:07:50 2007 +0200

updated from 'master'

commit ab11bad54707941eb41be62c025b983760ce3900
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 13:05:29 2007 +0200

**Xephyr: remove a potential crasher**

* hw/kdrive/ephyr/hostx.c:
  (hostx_has_dri): be more defensive.

commit 06c8977966e76255ce7798f4839ef6e3530264a8
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 13:01:24 2007 +0200

**Xephyr: better handling of the -nodri option**

* hw/kdrive/ephyr/ephyr.c:
  (ephyrInitScreen): try and detect when the host has no
  DRI support. In that case, switch to the -nodri behaviour.
  When in the -nodri case, make sure not to skip glx visual
  initialisation.

commit ea94f59e99b8824b1a638c63e06ca16f0ef6d43869
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 12:54:26 2007 +0200

**Xephyr: don't disable glx visual init by default**

* hw/kdrive/ephyr/ephyrinit.c:
  (ddxProcessArgument): disabling visual init here
  is bad because it gets disabled even when we want
  to use software GL, leading to Xephyr :1 -nodri
  crashing in mesa.

commit a7f210e6fcda14eae4de64186904c6c676c758ee
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 12:51:08 2007 +0200

**Xephyr: fix a compiler warning**

commit 5d6eac1251f1e17baa74d0893bb225b775e8ec2e
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 12:47:05 2007 +0200

**Xephyr: remove an unused variable**

commit 8018733ce39c283a931df424dcd711e7ae9bcd8cf
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Oct 4 12:06:19 2007 +0200

**Xephyr: better compilation without GLX**
* hw/kdrive/ephyr/ephyrininit.c: protect GLX related code with GLXEXT macro

commit 3549a1282365e69e70c7c2546c7a7d25923ccee31
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Oct 4 11:38:01 2007 +0200

EXA: Disable 1x1 pixmap fill optimization for drivers that handle pixmaps.

This reverts commit 1365aeff5499a051375e43a9fcbf54733ac93929.

It defeated the optimization for drivers that don't provide a CreatePixmap hook. The optimization makes no sense for drivers that do anyway, so disable it for them completely.

commit 604ebb5a6de372e6a8a96e0ee997db7929126860
Merge: 1365aeff54 4ba76a7e2b
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Oct 3 16:13:16 2007 +0200

Merge Xephyr-XV/GL stuff into master

commit 4ba76a7e2b62d26f43c0e670de571afb75ec92f4
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Oct 3 13:03:34 2007 +0200

Xephyr: port XV/GL stuff of the new multiscreen architecture

  We can now launch GL or XV apps in any of the Xephyr screens we want.

  * hw/kdrive/ephyr/hostx.c,h:
    (hostx_get_window):
    (hostx_create_window): make these functions be screen number aware.
  * hw/kdrive/ephyr/XF86dri.c : fix some compiler warnings.
  * hw/kdrive/ephyr/ephyrdri.c:
    (ephyrDRIQueryDirectRenderingCapable),
    (ephyrDRIOpenConnection),
    (ephyrDRIAuthConnection),
    (ephyrDRICloseConnection),
    (ephyrDRIGetClientDriverName),
    (ephyrDRICreateContext),
    (ephyrDRI_DestroyContext),
    (ephyrDRICreateDrawable),
    (ephyrDRIGetDrawableInfo),
    (ephyrDRIGetDeviceInfo): in all those functions, don't forward
the screen number we receive - from the client - to the host X.
We (Xephyr) are always targeting the same X display screen, which is
the one Xephyr got launched against. So we enforce that in the code.

* hw/kdrive/ephyr/ephyrdriext.c:
  (EephyrMirrorHostVisuals): make this duplicate the visuals of the host X
default screen into a given Xephyr screen. This way we have a chance
to update the visuals of all Xephyr screen to make them mirror those
of the host X.
(many other places): specify screen number where required by the api
change in hostx.h.
* hw/kdrive/ephyr/ephyrglxext.c: specify screen number where required
by the api change in hostx.h
* hw/kdrive/ephyr/ephyrhostglx.c: don't forward the screen number we
receive - from the client - to the host X.
We (Xephyr) are always targeting the same
X display screen, which is
the one Xephyr got launched against. So we enforce that in the code.
* hw/kdrive/ephyr/ephyrhostvideo.c,h: take in account the screen number received
from the client app. This is useful to know on which Xephyr screen we
need to display video stuff.
* hw/kdrive/ephyr/epyhyrvideo.c: update this to reflect the API change
in hw/kdrive/ephyr/ephyrhostvideo.h.
(ephyrSetPortAttribute): when parameters are not valid
- they exceed their validity range - send them to the host anyway
and do not return an error to clients.
Some host expose buggy validity range, so rejecting client for that
is too harsh.

commit ab88cb8d2e7c1410f9ed2be928b38f176b132e11
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Oct 3 18:08:33 2007 +0930

  Xext: add missing geint.h to Makefile.am (un-breaks make dist)

commit 9f2b493e34e9388110f31e631901d3f6da4f0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 15:35:41 2007 +0930

  xkb: remove some warning comments.

  Obsolete with 340911d7243a7f1095d79b5b2dca81b145c2474.

commit 1eebb03a3190947a8102f2ddc73766cf98d34c84
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Oct 3 15:18:17 2007 +0930

dix: ignore passive grab if the client already has a grab on the device.
In some cases a button press may activate a passive core grab. If the client owning the passive grab already has a core grab on another device, don't actually activate it. Otherwise the client gets two simultaneous passive core grabs, and may never ungrab the device again (only if the other grab uses GrabModeSync).

Reproducable: fire up gnome-session, open up gnome-terminal. Click with the ClientPointer onto the window decoration, then click with another pointer onto an application icon in the panel. Drag the icon out, release the button and voila - you just lost your second mouse.

commit 0b485067823620b5dbd9ef2b3e13bd35ad5a4410
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 3 14:22:55 2007 +0930

dix: send NotifyGrab/NotifyUngrab focus events regardless of semaphore state.

This is just papering over a problem. The whole focus system needs to be revised.

commit 05106ac9839102c0e4a3ce5d9d83d19abf129f8a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Oct 3 11:33:10 2007 +0930

dix: change Enter/Leave semaphore handling to accommodate for NotifyGrab.

This is a half-assed attempt at getting rid of some enter-leave problems. When a grab is activated, the events didn't get sent before, leading to interesting results. This commit papers over it but doesn't actually fix it properly. The whole enter/leave (focusin/out) structure needs to be ripped out and changed for multiple devices.

commit 1365aeff5499a051375e43a9fcbf54733ac93929
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 3 12:00:16 2007 +1000

exa: direct access to the pixmap sys ptr is bad if the pixmap isn't mapped

commit 566dd3b7d789ba60d0ad333b3f729cfb02ff33cd
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 3 11:59:52 2007 +1000

exa: add new flags to denote driver handles all pixmap migration/hiding

commit 1df1fee82d3565f6d8efb91ce25a81c23a10a4b5
Author: Dave Airlie <airlied@redhat.com>
Date:   Wed Oct 3 11:56:04 2007 +1000
exa: make sure we set fb_ptr to NULL

commit a358b87f45ce75e5d0136c904a07dfe394174387
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Oct 2 13:13:51 2007 -0700

  Just link against libcrypto instead of relying on openssl pkg-config.

  Also fix incorrect library inclusion by kdrive which broke the build.

commit 439edc768eea17667846ce573c843b8377e0dfb4
Merge: c8ccf469dc 93ae6fe18c
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Oct 2 12:14:04 2007 -0700

  Merge branch 'glyph-pixmaps'

Conflicts:

  configure.ac
  exa/езжа render.c

commit 59cebcd2e9302d15a52588ecafbb2d2c5ae3a6c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 2 13:39:25 2007 -0400

  xace: add creation hook for new input devices.

  Unfortunately, more information is needed to properly label the device.
  This will come from the configuration file, the hotplug messages, etc.
  It will either have to be passed into this function,
  or this hook moved down into the callers.

commit b77d272d7555c1e0f176ee74b8717030a6d6c7b0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Oct 2 13:21:53 2007 -0400

  xace: add hooks + new access codes: XTEST extension

commit c8ccf469dc2d7609b23faa8b4999c436263051e
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Tue Oct 2 08:59:40 2007 -0700

  Do not build hw/xfree86/os-support/bus/ix86Pci.c on Linux.

  Linux has custom PCI bus support functions, so this generic code is
  unnecessary.
commit dc84db1bf5b6fcfaed4e7162eb6c7a3a509e14bd
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Sep 19 15:46:09 2007 +0200

Xephyr: glx fixlet

  * hw/kdrive/ephyr/ephyrhostglx.c:
    (ephyrHostGLXQueryVersion): properly query the host for its glx version.

commit 6a435b00003fb00930299a0e0810c93a7e23a72
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Sep 19 15:35:51 2007 +0200

Xephyr: check presence of extensions in host X

  * hw/kdrive/ephyr/hostx.c,h:
    (hostx_has_xshape),
    (hostx_has_glx),
    (hostx_has_dri): added these new entry points
  * hw/kdrive/ephyr/ephyrdriext.c:
    (ephyrDRIExtensionInit): check presence of DRI and XShape extensions before trying to use them.
  * hw/kdrive/ephyr/ephyrglxext.c:
    (ephyrHijackGLXExtension): check presence of glx extension before we use it.

commit 2b217fc055300d4c709dd27c4e8ec8166183993b
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Sep 19 15:00:43 2007 +0200

Xephyr: cleanup XF86dri.c a bit

commit f731b9da7dbafad50dd5a1e8da28ce86ffab19b7
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Tue Sep 18 18:41:18 2007 +0200

Xephyr: add -nodri and -noxv switches.

  * hw/kdrive/ephyr/ephyr.c,ephyrinit.c:
    add -nodri and -noxv to disable either DRI or XV.
    When -nodri, mesa GL (non acceleretated) works.

commit 50674391388b3cfe9887782a3ad81b4f240f3db67
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Tue Sep 18 18:37:49 2007 +0200
Kdrive: use fbcmap_mi.c instead of fbcmap.c

* hw/kdrive/src/Makefile.am: use fb/fbcmap_mi.c
and not fb/fbcmap.c. This allows kdrive to take advantage of
extensions redefining the entry points of micmap.c stuff.
For instance it allows Xephyr to have a working GL, which is not
possible otherwise, because GL redefines mInitVisualsProc
to initialise its visuals.

commit a5bd536869f646e4024befa84f6e677b990310bc
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Sep 18 18:28:25 2007 +0200

fbcmap_mi.c: add a missing api

* fb/fbcmap_mi.c:
(fbSetVisualTypesAndMasks): added this entry point that was missing.
This is useful so that servers using this entry point can use fbcmap_mi.c,
and be obliged to stick to fbcmap.c. Note that fbcmap.c does implement this
entry point. Up to now, kdrive based server could not use fbcmap_mi.c because this
entry point was missing. The will allow Xephyr to properly use GL.

commit 6307ee77091041af2d34e93bc164352d4438a808
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Sep 18 18:22:44 2007 +0200

GLX: allow skipping of visual init wrapping

* GL/glx/glxvisuals.c: added boolean to disable
calling init_visuals(). This gives a chance to Xephyr
to take over visuals manipulation and avoid a crash at
server shutdown in __glX MesaScreenDestroy(), due to the fact
that mesa might sees more visual than what it has actually created in
init_visuals(). It might see more visuals because Xephyr can augment
the number of visuals, dynamically.
* os/utils.c: the boolean is actually defined here.

commit ffe9ce6a843443606ad9367eca1645bf5e0635e5
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Mon Sep 17 22:13:51 2007 +0200

Xephyr: fix a clipping issue xephyr-dri

* hw/kdrive/ephyr/ephyrdri.c:
(ephyrDRIGetDrawableInfo): force the back clipping rects
to equal the front clipping rects.
* hw/kdrive/ephyr/ephyrdriext.c:
(ProcXF86DRIGetDrawableInfo): properly overclip the clipping rects we
got from the client. This bug fixes a clipping rect that was too small in height, basically. Also fix a possible mem corruption.

* hw/kdrive/ephyr/hostx.c:
  (hostx_set_window_geometry): remove a useless XSync

commit 79782726617d4b5a4f9b376f21936d035fc870e1
Author: Dodji Seketeli <dodji@openedhand.com>
Date:  Mon Sep 17 18:15:03 2007 +0200

Xephyr: properly clip GL drawables in Xephyr

commit 3816d64e50a59e0ef276ddd6cb250cab98a49392
Author: Dodji Seketeli <dodji@seketeli.org>
Date:  Sun Sep 9 15:20:51 2007 +0200

Xephyr: oops, forgot to add ephyrdriext.h

commit cf58781eee7d91a3bbca701a2c4523a36f8e0abb
Author: Dodji Seketeli <dodji@openedhand.com>
Date:  Sat Sep 8 00:33:59 2007 +0200

Xephyr: make accelerated glxgears work in Xephyr

* hw/kdrive/ephyr/ephyr.c:
  (ephyrInitialize): cleanup ephyrDRI extension init.
  remove functions that belongs in ephyrdriext.c .
* hw/kdrive/ephyr/ephyrdri.c:
  (ephyrDRICreateDrawable): create the drawable on the host X peer window, not on the host xephyr main window.
  (ephyrDRIGetDrawableInfo): get drawable info of the host X peer window.
* hw/kdrive/ephyr/ephyrdriext.c: make ephyr DRI extention wrap a bunch of screen ops so that it can update the host X peer window whenever DRI bound drawable are moved in Xephyr.
  Also code the building blocks of the management of the host X window peer.
* hw/kdrive/ephyr/hostx.c,h:
  (hostx_create_window): added this new entry point
  (hostx_destroy_window): ditto
  (hostx_set_window_geometry): ditto

commit 6d1e44d3d53b451d466d43197be589d0eccc4b9f6
Author: Dodji Seketeli <dodji@openedhand.com>
Date:  Tue Sep 4 18:28:16 2007 +0200

Xephyr: fix a host X hang.

* hw/kdrive/ephyr/ephyrdri.c:
(ephyrDRIGetDrawableInfo): quickly hook this into getting the drawable info from the host X server. For the time being, this only gets the drawable info of the Xephyr main window in the host. It should really get the info of a the peer drawable in the host X. So there should be a peer drawable to begin with.

* hw/kdrive/ephyr/ephyrdriext.c: (ProcXF86DRIGetDrawableInfo): some cleanups. Properly get the the drawable info otherwise there is a host X hang.

* hw/kdrive/ephyr/ephyrhostglx.c: do not (ephyrHostGLXQueryVersion): do not use C bindings of the glx protocol calls. Some of those actually access DRI context directly, resulting in the context having three clients. Instead all XF86DRI proto forwarding request should be coded by hand and only forward the protocol requests

commit a39b57d2f784f14e3198c8506f5eb865bacc2440
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Fri Aug 31 16:53:18 2007 +0200

Xephyr: add more logging to GLX forwarding

* hw/kdrive/ephyr/ephyrhostglx.c: added more logging.

commit 9e192d2118246ad715e23cf5626a038274eb1eaa
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Fri Aug 31 14:43:39 2007 +0200

Xephyr: better error handling in GLX forwarding

* hw/kdrive/ephyr/ephyrglxext.c: fixed various logging functions (ephyrGLXGetStringReal): make sure all the string is sent to clients including the ending zero.

* hw/kdrive/ephyr/ephyrhostglx.c: (ephyrHostGLXGetStringFromServer): better error handling. (ephyrHostGLXSendClientInfo): ditto. (ephyrHostGLXMakeCurrent): ditto

commit 4dd4be99df38b70d43b02d9cb19e09e0ed94462b
Author: Dodji Seketeli <dodji@seketeli.org>
Date: Thu Aug 30 23:54:49 2007 +0200

Xephyr: Make glxinfo work on the ATI R200 free driver.

* hw/kdrive/ephyr/ephyr.c: (EphyrDuplicateVisual): when duplicating the visual, copy the color component masks and the class
from the hostX
(EphyrMirrorHostVisuals): don't mix blue and green mask.
* hw/kdrive/ephyr/ephyrdri.c: add more logs.
  (ephyrDRICreateDrawable): actually implement this.
for the moment it creates a DRI drawable for the hostX window,
no matter what drawable this call was issued for.
(ephyrDRIGetDrawableInfo): actually implemented this.
for the moment the drawable info queried for its attrs is the
Xephyr main main window.
* hw/kdrive/ephyr/ephyrdriext.c:
  (ProcXF86DRIGetDrawableInfo): properly hook this dispatch
  function to the ephyrDRIGetDrawableInfo() function.
* hw/kdrive/ephyr/ephyreglxext.c: add a bunch of GLX implementation hooks
  here. Hijack some of the xserver GLX hooks with them. Still need to
  properly support byteswapped clients though.
* hw/kdrive/ephyr/ephyrhostglx.c,h: actually implemented the protocol
  level forwarding functions used by the GLX entr points in
  ephyreglxext.c. Here as well, there are a bunch of them, but we are
  far from having implemented all the GLX calls.
* hw/kdrive/ephyr/hostx.c,h:
  (hostx_get_window_attributes): added this new entry point
  (hostx_allocate_resource_id_peer): added this to keep track of
  resource IDs peers: one member of the peer is in Xephyr, the other
  is in host X.
  (hostx_get_resource_id_peer): ditto.

commit 8c78df0ea36abc7d46c4f59670289f4280f75507
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Aug 30 22:31:47 2007 +0200

Xserver: fix potential crash

  * dix/extension.c:
    (AddExtensionAlias): don't crash when failed to add
    extension alias.

commit 024abe825cd702334266f6b8da289907bbd05970
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Tue Aug 28 15:59:45 2007 +0200

Xephyr: add logging in the DRI extension

commit 1dd589410c6c5e8b62b4d15ec681b01452ec68c6
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Tue Aug 28 15:58:55 2007 +0200

mirror the visuals of the host X at startup.
* hw/kdrive/ephyr/ephyr.c: make Xephyr mirror the visuals of the host X upon startup. This is important for GLX client apps.
* hw/kdrive/ephyr/hostx.c,h: add a hostx_get_visuals_info() to get the visuals of the host X.

commit 26da625055a3876e93a7a005520657b971748c4e
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Tue Aug 28 15:55:05 2007 +0200

proxy the glXGetFBConfigSGIX call

* hw/kdrive/ephyr/ephyrglxext.c:
  (ephyrGLXGetFBConfigsSGIX): proxy the GLXGetFBConfigsSGIX call.
  It is a vendor extension to get the visual configs as a list of name/value pairs.
  (ephyrHijackGLXExtension): hijack the VendorPriv_dispatch_info dispatch table to register our implementation of GLXGetFBConfigsSGIX
  (ephyrGLXGetFBConfigsSGIXReal): added this where the real implementation of GLXGetFBConfigsSGIX is. It support bytes swapping.
  (ephyrGLXGetFBConfigsSGIX,ephyrGLXGetFBConfigsSGIXSwap): these are the dispatch entry points. They just call ephyrGLXGetFBConfigsSGIXReal.
* hw/kdrive/ephyr/ephyrhostglx.c,h: reorganize the proxies to get visual params from the host so that they clearly support the different methods of doing so.

commit 5af73f98c46dfe5640185ca90feb20c39c6e06fa
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Fri Aug 24 16:30:50 2007 +0200

EPHYR: Add an experiment proto proxy extension.

* hw/kdrive/ephyr/Makefile.am: add the proxy extension to ephyr. The proxy extension is an experimental extension that forwards protocol packets targeted at a given extension to the host X.
* hw/kdrive/ephyr/ephyr.c: init proxy ext.
* hw/kdrive/ephyr/ephyrhostproxy.c,h: added this new file as part of the proxy extension.
* hw/kdrive/ephyr/ephyrproxyext.c,h: ditto
* hw/kdrive/ephyr/hostx.c: add the hostx_get_get_extension_info() entry point.

commit c06fa924b4781a35b86e4a78d95ff3e9d95b02d1
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Aug 23 11:53:02 2007 +0200
XEPHYR: more GLX/DRI proxying work.

* hw/kdrive/ephyr/XF86dri.c: re format this correctly. Make function decls honour the Ansi-C standard.
* hw/kdrive/ephyr/epyhrdri.c: protect glx/dri related extension initialisation with the XEPHYR_DRI macro. Initialize the GLX ext hijacking at startup.
* hw/kdrive/ephyr/ephyr GLintxext.c: ditto. reformat.
* hw/kdrive/ephyr/ephyrglxext.c.h: add this extension to proxy GLX requests to the host X. started to proxy those needed to make glxinfo work with fglrx. Not yet finished.
* hw/kdrive/ephyr/ephyrhostglx.c.h: put here the actual Xlib code used to hit the host X server because Xlib stuff cannot be mixed with xserver internal code, otherwise compilation errors due to type clashes happen. So no Xlib type should be exported by the entrypoints defined here.

commit 0b8545144975bf7ed43c2564d01c697144eb1244
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Aug 16 17:30:13 2007 +0200

Implement ReputImage and StopVideo

* hw/kdrive/ephyr/ephyrhostvideo.c/h:  
(ephyrHostXVStopVideo): add this entry point.
* hw/kdrive/ephyr/ephyrvideo.c:  
Basically add ReputImage and StopVideo implementations. Now, when other windows obscur the video window, the reclipping seems to be well handled using StopVideo and ReputImage. To do this, I was obliged to save the frame in PutImage, so that I could resend it on ReputImage.

commit 810dc55866d1c2343512354646c7ab309ea1fad2
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Aug 16 17:11:22 2007 +0200

Ephyr-Xv: add a new line to a log

* hw/kdrive/ephyr/ephyrvideo.c:  
(ephyrQueryImageAttributes): add newline to log.

commit 47e6df89e48249828e828502e98951eee7f85bc
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Thu Aug 16 17:07:36 2007 +0200

Xephyr-Xv: fix a crash when host X support several ports
* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrXVPrivQueryHostAdaptors): properly set port private luke. This fixes a crash when the host Xv supports multiple ports.
  Make sure number of ports cannot be zero.

commit a38ad562a6f50e9d76a37917b936035215ea460e
Author: Dodji Seketeli <dodji@seketeli.org>
Date: Wed Aug 15 19:40:10 2007 +0200

  make xephyr talk DRI protocol with hostX

* configure.ac,include/dix-config.h.in: define the XEPHYR_DRI macro. define it when --enable-xephyr and --enable-dri are both turned on.
* hw/kdrive/ephyr/XF86dri.c: copy this from mesa source to enable Xephyr to talk DRI protocol the host X. In mesa, this is used by libGL.so to talk DRI protocol with the server.
* hw/kdrive/ephyr/ephyr.c: finally initialise the DRI extension in the ephyrInitScreen() function.
* hw/kdrive/ephyr/ephyrdri.c,ephyrdriext.c: safeguard the compilation using the XEPHYR_DRI macro.

commit e4239a48075c77e6a8d2d5cb21f58dd67687482f
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Tue Aug 14 22:48:41 2007 +0200

  Initial dri forwarding big bricks.

* hw/kdrive/ephyr/ephyrdriext.c: added this to implement a DRI extension into Xephyr. Normally the DRI extension is only present in the xfree86 server, but I have ported it to Xephyr. The extension calls functions that declared/defined in ephyrdri.h ephyrdri.c that forwards the DRI calls to the host X. It does not work yet, as this entry is just to put the big bricks in place.
* hw/kdrive/ephyr/ephyrdri.c,h: declaration & definition of the DRI client API that would hit the hostX server.
* hw/kdrive/ephyr/GL/internal/dri_interface.h: added this, otherwise inclusion of /usr/include/X11/dri/xf86dri.h won't compile

commit e01d3dd98d1b596e75d25f94dd89c7d41223011d
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Aug 9 10:55:10 2007 +0200

  Support clipping region in PutImage.

* hw/kdrive/ephyr/ephyrhostvideo.c,h:
  (ephyrHostXVPutImage): make this support clipping region.
The clipping region is propagated to host using XSetClipRectangles. This changes the API of ephyrHostXVPutImage.

* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrPutImage): propagate the clipping region to the new ephyrHostXVPutImage() entry point.

commit 39d3895469f07304d72800d8dcef6c7732f13d5f
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Wed Aug 8 14:27:32 2007 +0200

make EphyrXVPriv be a singleton

* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrInitVideo) make the EphyrXVPriv object be a singleton instance, otherwise a new object is created at each generation.

commit 4ed083095a13ec92bb4c8e705f26500f8312c138
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Tue Aug 7 14:16:13 2007 +0200

add [Get/Put]Video and [Get/Put]Still support

* hw/kdrive/ephyr/ephyrhostvideo.c,h:
  (ephyrHostXVAdaptorHasXXX): fix these.
  (ephyrHostXVAdaptorHasGetVideo): added this
  (ephyrHostXVAdaptorHasGetStill): ditto
  (ephyrHostXVPutVideo): added this
  (ephyrHostXVGetVideo): ditto
  (ephyrHostXVPutStill): ditto
  (ephyrHostXVGetStill): ditto

* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrPutVideo): implement this
  (ephyrGetVideo): ditto
  (ephyrPutStill): ditto
  (ephyrGetStill): ditto
(ephyrXVPrivSetAdaptorsHooks): advertise GetVideo and GetStill when the host X supports it.

commit 6f7961bc218169aa0d10cfad0952adb7fac2f00
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Mon Aug 6 18:38:54 2007 +0200

advertise only the hooks implemented by host X

* hw/kdrive/ephyr/ephyrhostvideo.c,h:
  (ephyrHostXVAdaptorHasPutVideo): detect if host X has the PutVideo call.
(ephyrHostXVAdaptorHasPutStill): detect if host X has the PutStill call
(ephyrHostXVAdaptorHasPutImage): detect if host X has the PutImage call
* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrXVPrivQueryHostAdaptors): make sure to create atoms for attribute names otherwise subsequent calls to get/set attribute from clients won't work.
  (ephyrXVPrivSetAdaptorsHooks): don't hardwire advertising of the PutImage call. Instead, advertise the calls advertised by the host.

commit 1de89239bdfa68ded2ef25fbb7d08369f527f7a9
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Sat Aug 4 01:13:38 2007 +0200
don't crash when hostX reports an error.

  * hw/kdrive/ephyr/ephyrhostvideo.c:h:
    (ephyrHostXVLogXErrorEvent): add this to log X error events. Heavily copied from libx11
    (ephyrHostXVErrrorHandler): new x error handler that logs the error but does not exits.
    (ephyrHostXVInit): add this to be called at the beginning of xvideo lifetime. It sets an xerror handler that does not exit.
  * hw/kdrive/ephyr/ephyrvideo.c:
    (ephyrXVPrivIsAttrValueValid): this validates an attribute value.
    (ephyrSetPortAttribute): before setting an attribute, validate the new value so that we don't send a buggy request to host X.
  * hw/kdrive/ephyr/*.c: fix case in ephyrvideo code.
  * hw/kdrive/ephyr/ephyr.c: fix a typo

commit 207714b60d18e94bbe2d755a431dbb29e5677f7
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Fri Aug 3 01:10:39 2007 +0200
first implementation of putimage

  * hw/kdrive/ephyr/ephyrhostvideo.c:h:
    (EphyrHostXVPutImage): first implementation. does not support clipping regions yet.
  * hw/kdrive/ephyr/ephyrvideo.c:
    (DoSimpleClip): clip using a clipping box. Does not support regions yet.
    (EphyrPutImage): first implementation.
Uses a simple clipping rectangle, no region yet.

* hw/kdrive/ephyr/hostx.c:
  (hostx_get_window): added this to get the main
  window of the host x.

commit aa478e09e25a1cb19b808e7e52b2ee155e34f03b
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Thu Aug 2 12:49:36 2007 +0200

make properties setting/query code work and hopefully complete.

* hw/kdrive/ephyr/ephyrhostvideo.c.h:
  (EphyrHostXVQueryImageAttributes): add this call. It calls
  XvQueryBestSize xserver entry point. It uses the protocol
  level machinery because Xvlib does not expose that entry point
  as a C function.
  (EphyrHostXVQueryBestSize): added this wrapper around XvQueryBestSize().
  (EphyrHostGetAtom, EphyrHostGetAtomName): added this to get
  an atom or atom name from the host server

* hw/kdrive/ephyr/ephyrvideo.c:
  (EphyrSetPortAttribute): convert the atom into an host server
  server atom before attacking the host server with it, because in
  its current form, the input atom is only valid in xephyr.
  This fix makes this call work.
  (EphyrGetPortAttribute): ditto.
  (EphyrQueryBestSize): implement this.
  (EphyrQueryImageAttributes): implement this.

commit 24c837c0be6f85a917582156ab61d6e9c69301f9
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Tue Jul 31 23:18:52 2007 +0200

implement setportattribute and getportattribute calls

commit b8cd313be467fd14b8e5c9ba68e1a2029c1e888b
Author: Dodji Seketeli <dodji@seketeli.org>
Date: Mon Jul 23 12:43:43 2007 +0200

make xvinfo work

* hw/kdrive/ephyr/ephyrhostvideo.c:
  (EphyrHostXVAdaptorGetVideoFormats): properly get visual class instead of
  returning the visual id.
  (EphyrHostXVQueryEncodings): properly copy the fields because simple casting does
  truncate some fields.
  (EphyrHostAttributesDelete): XFree the whole array instead of trying to free invidial members.

* hw/kdrive/ephyr/ephyrvideo.c:
  (ephyrInitVideo): fix a typo
(EphyrXVPrivQueryHostAdaptors): set XvWindowMask mask to adaptors type.
use host adaptor name. Don't forget to set nImages field.
(EphyrXVPrivRegisterAdaptors): report an error when KdXVScreenInit() fails.

commit aa2fae7b75f741e57bc4a9b754b5ea7518d78f47
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 23:56:13 2007 +0200

misc fixes.

*(EphyrHostXVQueryAdaptors): return the queried adaptors list
* (EphyrHostXVQueryPortAttributes): return port attributes number

commit 2bf7f3c223fd32cd4922f98eadda2e3f06d9e119
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 17:55:12 2007 +0200

link and init xv

commit 66b28532e533ff5688705c5286425e68d6403cee
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 12:08:39 2007 +0200

initial commit of xv support work

commit 1e8f8b36a56a884092ee01a0bb3f40436e30fa42
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 18:22:20 2007 +0200

works with no adaptors

  Debug the early code to make work when the host has no video adaptors

commit 50ff2377cac50ae25218e5b30612f88b6046a6
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 18:20:59 2007 +0200

  add -verbosity <level> option to command line

commit 8426eb2433f964ea19848f24dc99eb4588d10d1a
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 17:55:12 2007 +0200

link and init xv

commit 50a64c84e1556ef78efcc7f8655e0c5e023ef4d
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Sat Jul 21 12:08:39 2007 +0200
initial commit of xv support work

commit 95fadbd4d322ec99f42ba78ec8a18a064903e8a7f
Author: Dodji Seketeli <dodji@seketeli.org>
Date: Mon Jul 16 17:37:21 2007 +0200

Add basic Exa driver entry point validation.

In exaDriverInit(), quickly check if the programmer forgot to set some mandatory driver hooks, in that case display a meaningful error message.

commit e5e6514fa0fd132e0cc1b15594119e6e8755f43
Author: Andrew Christian <andrew.christian@nokia.com>
Date: Tue Oct 2 13:25:51 2007 +0200

Xephyr: add "multiscreen" support

* This patch adds multiscreen support to Xephyr. For instance, the command line: "Xephyr -screen 320x240 -screen 640x480" will launch with two "screens" - namely two main windows.
The first main window represents a screen that has the number :4.0, with a geometry of 320x240 pixels, and the second one represents a screen that has the number :4.1 with a geometry of 640x480.
The command line: "DISPLAY=:4.1 xclock" will launch the xclock program on the second screen, for instance.

* This patch was edited by Dodji Seketeli <dodji@openedhand.com> for:
- better style compliance with the rest of the Xephyr code
- make sure Xephyr could be launched with no -screen option. By default that creates a default screen of 640x480 pixel like before
- display full titles on the windows - with instructions to grab keyboard and mouse - like before.

commit 81692b628f41cb64329f3cc0503fb216a2b8e3
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Tue Oct 2 13:11:28 2007 +0200

Fix #12650: "windows not receiving mouse events in multiple screens context"

* dix/events.c, include/dix.h:
  (UpdateSpriteForScreen): added this to update the mouse sprite context when we switch from a pScreen to another.
* mi/mipointer.c:
  (miPointerWarpCursor): as we are switching to a new pScreen, don't forget to update the mouse sprite context.

commit f965a5f3454a95ddffbfaf9b291feff46305adf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 2 16:20:27 2007 +0930

dix: Ignore devices when deleting passive core grabs.

commit dc90d500085dd74e90073be008fc514bd97b160a
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Oct 2 14:05:07 2007 +1000

exa: increase minor version number for pixmap allocation hooks

commit f15af2ae60bb8503c336bc3c3ba0560bd314a34bc
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Aug 31 16:33:33 2007 +1000

exa: only setup offscreen allocator if driver doesn't provide CreatePixmap

commit ffb58f4fa8d86e87f831430b8627f27d85f971a9
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Oct 2 14:03:39 2007 +1000

exa: add hooks for drivers to take over pixmap allocation

This adds hooks for the driver to access Create/DestoryPixmap and ModifyPixMapHeader.

It allocates a 0 sized pixmap using fb and calls the driver routine to do work of allocating the actual memory.

ModifyPixMapHeader is mainly required for hooking the screen pixmap which isn't create by normal methods

commit 2b075e97ec913ebe19290181e36bb169410b820b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 2 13:28:40 2007 +0930

mi: switch core keyboard on XI events, not only on core events.

We only get core events through the EQ in exceptional cases, so make sure we actually swap the core keymap for XI events as well. Gives us back the ability to have multiple keyboard layouts simultaneously.

commit 31555af0005a0bc4d7ef785214696ac84681e29f
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Oct 2 13:32:57 2007 +1000

exa: add a pixmap private pointer for drivers to retrieve.
commit 45ec6cd1fb242363c91ad8af1fd4a27a7f02621a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 2 13:19:07 2007 +0930

xfree86: fix DGA to use the correct devices.

DGAStealXXXEvent modified to take in device argument.

The evdev driver only sends one valuator when only one axis changed. We need to check for DGA either way (xf86PostMotionEventP), otherwise we lose purely horizontal/vertical movements.

Note that DGA does not do XI events.

commit 122ae65ed90195c584a770027b4d14ef65f72492
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 2 10:50:59 2007 +0930

xfree86: xf86DGA: some cleanup to use the correct devices instead of VCP/VCK.

commit 54ce7436b2579bb20728eab7c8d460b531c378af
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Oct 2 10:49:46 2007 +0930

xfree86: update all pointers when calling xf86SwitchMode

Center the frame around the first pointer found and then update all pointers on the same screen to move to the edges (if necessary).

Note: xf86WarpCursor needs to be modified, is using deprecated miPointerWarpCursor and will kill the server when called with inputInfo.pointer.

commit 113011221a4fc7bd70bc592930b35f20d55809f1e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Oct 1 21:42:01 2007 +0930

Xi, xfree86: Remove leftovers of the XI wrapper code.

commit 50551ec693f40b91652fe4814e9fe2e1f9ab6517
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 28 15:04:33 2007 -0400

xace: remove obsoleted DRAWABLE_ACCESS hook.

commit 8b548657204000e18c7a38706a0071ae2f93159f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 28 13:34:18 2007 -0400
xace: add hooks + new access codes: XKB extension.

Removes "LookupKeyboardDevice" and "LookupPointerDevice" in favor of inputInfo.keyboard and inputInfo.pointer, respectively; all use cases are non-XI compliant anyway.

commit 5c03d131815cfe2f78792277ab8352e69e830196
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 28 08:02:00 2007 -0400

xace: add new hooks + access controls: XInput extension.

Introduces new dix API to lookup a device, dixLookupDevice(), which replaces LookupDeviceIntRec and LookupDevice.

commit a511c445debbd13e8e48146ecd2d7e97793f788
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Sep 28 18:46:41 2007 +0930

Remove generation of core events, long live XI!

Let the drivers only generate XI events and put those into the event queue. When processing events, generate core events as needed. This fixes a number of problems with XKB and the DIX in general.

The previous approach was to put core events and XI events as separate events into the event queue. When being processed, the server had no knowledge of them coming from the same device state change. Anything that would then change the state of the device accordingly was in danger of changing it twice, leading to some funny (i.e. not funny at all) results.

Emulating core events while processing XI events fixes this, there is only one path that actually changes the device state now. Although we have to be careful when replaying events from synced devices, otherwise we may lose events.

Note: XI has precedence over core for passive grabs, but core events are delivered to the client first.

This removes the wrapping added in 340911d7243a7f1095d79b5b2dcfa81b145c2474

commit be466d8d808e4e4067a7963617bc3f506768f2d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 22:23:05 2007 +0930

dix: GetPairedKeyboard() always returns a valid keyboard (VCK if necessary).
We need it unconditionally in a few places, and the rest checked for NULL and then set it to VCK anyway. So, fixing up all callers to appreciate the defined return value.

commits 53434edc3d306137d019d95189ecdf0dbf75205
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 22:14:09 2007 +0930

dix: take paired keyboard instead of VCK (CoreProcessPointerEvents)

commits 2d93e69690d2c5d4a89a795ede6423796528e5df
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Sep 27 16:47:06 2007 -0700

Rework local client id finding code to be more uniform

commits c7ead3a68e5839cb92129e35b21f55007fba8445
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Sep 27 16:13:28 2007 -0700

xorgcfg needs $(DIX_CFLAGS) for pixman-1 include path

commits 62a9fb4cda988a896909a5620a68c51e46d0e403
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Sep 27 16:12:29 2007 -0700

Fix PCI rework build on Solaris (copy what BSD does)

commits cfe549d1ba28396c44af94133d8c1d323e3c7086
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Thu Sep 27 22:36:52 2007 +0200

EXA: Added back the maxPitchPixels initialization code.

This doesn't add real value yet, but it will be useful once I add code that splits large render operations into smaller parts if necessary.

commits c11a27ef85674f1e77ffaf083646b848e1dc0b8
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Thu Sep 27 14:54:40 2007 +0100

Add the FB_ACCESS_WRAPPER checks

commits e0bb33b3d2e4f54cf20853cde9a1664a7dbd0dc7
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Thu Sep 27 14:50:28 2007 +0100

Fix bug #12286
commit 6d5c1e0d896666bcb2b3c1de7bfa424f140be364
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:04:41 2007 +0200

EXA: Remove bogus pitch checks.

exaCreatePixmap should handle all cases correctly.

commit 598698678b07cb3a9406a9ee98bd3186366949e7
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:07:09 2007 +0200

EXA: Punt for all fallbacks in exaFillRegion*.

Now that PaintWindow is gone, all callers already handle fallbacks.

commit 006f6525057970a74382132237b2131286ad147c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:08:41 2007 +0200

EXA: Make sure tile offsets passed to drivers are never negative.

Thanks to Björn Steinbrink for pointing out the problem on IRC.

commit da7d9aa1fb60e13a59c9f842fed7aefc5b97c195
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:08:40 2007 +0200

EXA: Tile offscreen pixmap coordinate offsets are always 0.

commit d6f4764bf5f3a601a0034ded039857e8ea5563b2
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:08:40 2007 +0200

EXA: Remove some clearly bogus code from exaCopyNtoN.

Not sure what I was thinking when I wrote this... it would cause the box
coordinates to be off for exaCopyNtoNTwoDir or fallbacks.

Thanks to Tilman Sauerbeck for pointing out the problem on IRC and testing the
fix.

commit c7d6d1f589d729fa689d22d82fe30afbc6e1cacb
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Sep 27 13:08:40 2007 +0200

EXA: Punt on fallback case not handled correctly in exaFillRegionTiled.
Fixes http://bugs.freedesktop.org/show_bug.cgi?id=12520.

commit 1d938a80d4fa58d1791c146b6b5c2dfe148dce7
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Sep 26 19:42:46 2007 -0700

Remove unused pciAddrHostToBus functions from ix86Pci.c

Matches linuxPci.c changes made in 8279444a54f38c5e2e5d4c2d936a10d74990e0be
Fixes compiler errors:
"ix86Pci.c", line 194: too many struct/union initializers
"ix86Pci.c", line 204: too many struct/union initializers
"ix86Pci.c", line 214: too many struct/union initializers

commit de06a47d4ad9c845b098438d9492a5f42483a2ad
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 11:45:03 2007 +0930

dix: GetMaximumEventsNum() needs to return 3 + MAX_VALUATOR_EVENTS.

Raw events can be generated for pointer events, so 2 + MVE isn't enough.

commit 32d0440c7f6e604807cb14dd32349df6f22c903b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 27 11:44:03 2007 +0930

xkb: xkbHandleActions: let wrapping take care of event delivery.

This is hopefully better than hardcodey calling CoreProcessPointerEvent.

commit 27612748e0ec20f3a23839f0a12e39f598dd722c
Merge: b61461425e 3bb114f2603
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 26 07:47:29 2007 -0400

Merge branch 'master' into XACE-SELINUX

Conflicts:

dix/devices.c

commit 3bb114f2603fc2adecc7f5f8f20fe4870af8df1f1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Sep 25 07:55:17 2007 -0400

Input: Properly swap DevicePresenceNotify events.
commit 31a7994ac7365562ef1d00e0a7b25f967a961a4e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Sep 24 13:33:01 2007 -0400

Input: Return errors to the dispatcher instead of sending them ourself.

Also fixed two "unused variable: stuff" warnings.

commit 56ff3c381d32687242d094395fcf2216339bab2a
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Wed Sep 26 16:47:54 2007 +0200

EXA: Removed duplicated exaGetDrawablePixmap() calls.

commit aa0325db7e8ab11d9418cae14f11c488f443ccaa
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Wed Sep 26 15:26:42 2007 +0200

Xephyr: fix compiler warnings

* hw/kdrive/ephyr/ephyr_draw.c:
  (ephyrDownloadFromScreen),
  (ephyrUploadToScreen): fix compiler warnings

commit 8f9bf927e1beecf9b9ec8877131ec12c765e4d84
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 26 18:04:59 2007 +0930


Instead of hardcoding CoreProcessPointerEvent, actually try to unwrap properly
and then call the unwrapped processInputProc. Seems to be a better idea,
especially since it makes stuff actually work...

commit 3342b5ad47be25c6838321c0aafc28c329c308b5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 26 18:03:21 2007 +0930

Xi: fix the wrapper code for processInputProc wrapping.

Followup to [1].
If a core grab causes the device to freeze, it overwrites the processInputProc
of the device. [1] would then overwrite this while unwrapping, the device
does not thaw anymore.
Changing this to only re-wrap if the processInputProc hasn't been changed
during the event handling.

[1] 340911d7243a7f1095d79b5b2defa81b145c2474
xfree86: pass in the XKB event processing proc instead of the XI one.

We need to pass ProcessPointerEvent or ProcessKeyboardEvent to XkbSetExtension, otherwise we lose the xkb layer.

dix: unify ErrorFs. prepend all with [dix].

dix: GetPointerEvents: remove unused variable compiler warning.

Xi: unify ErrorFs. Prefix all with [Xi].

Wrap core event handling through ProcessOtherEvents.
When processing events from the EQ, _always_ call the processInputProc of the matching device. For XI devices, this proc is wrapped in three layers. Core event handling is wrapped by XI event handling, which is wrapped by XKB. A core event now passes through XKB -> XI -> DIX.

This gets rid of a sync'd grab problem: with the previous code, core events did disappear during a sync'd device grab on account of mieqProcessInputEvents calling the processInputProc of the VCP/VCK instead of the actual device. This lead to the event being processed as normal instead of being enqueued for later replaying.

commit b2a4883bd89d406713d4f808e72721ecc1456d67
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Sep 26 09:20:11 2007 +0930

dix: add comments to PlayReleasedEvents()

Also stick another warning in, more changes needed for XGE if panoramix is active.

commit 275dc77c2972147407584323b866b8acc1654ea0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Sep 25 21:40:08 2007 +0930

dix: add comments to ComputeFreezes() and syncEvents struct.

commit ae8b417d6f1291a21f5a0d0159f3e6089eea0578a
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Sep 24 22:06:52 2007 +0200

EXA: Added pitch limitations.

Drivers can now specify the max pitches that the accelerator supports.

commit b61461425eb15fcef2a58330d74fe5a5a1f226fc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Sep 25 09:56:00 2007 -0400

xace: add hooks + new access codes: XV extension.

May need to revisit this extension in the future, depending on observed use.

commit 9bd04055a2175ec16756d3bf73ae03b5e163a28a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Sep 25 09:33:51 2007 -0400

xace: change prototype of VALIDATE_DRAWABLE_AND_GC macro to allow access mode to be passed to dixLookupDrawable.
[EDID] Ignore reserved bits in deciding monitor vs detailed timing descriptor.

Even though they're defined to zero by the spec, we've seen an EDID block where the (empty) ASCII strings were stuffed in a byte early, leading to the descriptor being considered a detailed timing instead.

commit 988f446fe00ac2b92c484a4440613dd82191feadd
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Sep 24 20:23:35 2007 -0700

dix: cosmetic change. Remove "pointer" variable, might as well use pDev.

commit 5d9f6cf51becdeb1d2be9bdeec4bb5d0c4d0e8b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Sep 13 23:33:07 2007 +0930

dix: cosmetic change. Remove "pointer" variable, might as well use pDev.

commit c4db4d1f7fa2ba802a208beee6b3ade83921f5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Sep 13 23:27:07 2007 +0930

include: remove register keywords.

commit 1c25c46f3d5f98be8dbf36684aad4302b220e163
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Sep 13 23:22:27 2007 +0930

dix: fix compiler warnings about unused variables.

commit 68e0c4988e359e3e9da933946bc703cf8530bdbe
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 12 20:48:48 2007 +0930

dix: fix "possible use of uninitialized variable" warning.

The device passed through to UnrealizeCursor isn't used anyway, so setting it to NULL is enough.

commit b484451eab261a919fe94c0f56877f7571fc9e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 12 18:34:51 2007 +0930

dix: don't try to access "time" field for GenericEvents in PlayReleasedEvent.

GenericEvents can't be parsed to keyButtonPointer, and there's no guarantee that it has a time field anyway. PlayReleasedEvent needs to store the millis when we know it (core events, XI event) and just re-use them for GenericEvents.
Yes, this is a hack. But it looks like the time has zero significance anyway.

commit 1c38eac442a3ab9e8469e944f382251957996c5a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 12 18:09:57 2007 +0930

dix: fix comment for DeliverDeviceEvents.

DDE is not always called, grabbed or focused devices go through
Deliver{Grabbed|Focus}Event first.

Thanks to Eamon Walsh for spotting it.

commit 06188ce90d2a8146140773f9367f23404b464282
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 12 18:00:03 2007 +0930

dix: Make EnqueueEvent aware of GenericEvents.

GenericEvents can be > sizeof(xEvents), so we need to make sure we're
allocating and copying enough memory for the event.

commit 8840829ab93c4eb62eb58753c015da5307133fe5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Sep 12 17:40:11 2007 +0930

dix: don't compress motion events from different devices (EventEnqueue)

commit 27ad5d74c20f01516a1b73be283f8982fcf0fe
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Sep 23 17:17:03 2007 +0300

Input: Generate XKB mapping changes for all core-sending devices (bug #12523)

When we change the mapping on a core device, make sure we propagate this
through to XKB for all extended devices as well.

commit 0e800ca4651a947ceef239e6fe7bf64aab92257c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Sep 23 12:43:31 2007 +0300

GetKeyboardEvents: Reject out-of-range keycodes (bug #12528)

We can only deal with keycodes between 8 and 255, so make sure that we never
accept anything out of this range.

commit e1860f241b7322c54c109cf5727df45b54b73916
Author: Alex Deucher <alex@botch2.(none)>
Document xf86_crtc_clip_video_helper better.

commit 19d30c1c771c0f5c9dfc0f4efb084dd2e528d992
Author: Alex Deucher <alex@botch2.(none)>
Date: Sat Sep 22 17:51:27 2007 -0400

Revert "Fix possible crash if Xv window is outside of either crtc"

This reverts commit 92355314103d2193ca20786915eaf608922a36dc.

This changes ABI. False means there was a memory failure of some kind, not that the video shouldn't be displayed

commit 92355314103d2193ca20786915eaf608922a36dc
Author: Michel Dänzer <daenzer@debian.org>
Date: Sat Sep 22 14:25:02 2007 -0400

Fix possible crash if Xv window is outside of either crtc

commit edd88170836ec985ab1a59179de69d50644b8dfff
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Sat Sep 22 13:02:08 2007 +0200

EXA: Check ABI compatibility earlier.

If the driver isn't compatible to the server, all bets are off anyway wrt the contents of the fields that we're validating, which can lead to bogus error messages.

commit abe0a51f3f790f8c055289465e130177c4b647cc
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Fri Sep 21 17:07:36 2007 -0700

So, like, checking return codes of system calls (signal, etc) is good. Also, only restore an old signal handler if one was actually set (prevents the server from dying on OS X).

commit eb82b19aa71333b46e927516cc228f25d3e05e4d
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Sep 20 19:55:48 2007 -0700

XDarwin: build fix for X11.app

commit 5b08932bfb7e4612733f8fd2acc9682c6856d90
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Sep 20 19:27:31 2007 -0700
XDarwin: pulling in Indirect GLX fixes from downstream

commit 742d5d6adc4d4a1b6fcee3443d7931e107462f7
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Sep 20 18:03:51 2007 -0700

XDarwin: Fixes to quartzKeyboard.c to prevent a crash using certain non-US keyboards

commit 374bd88d1025835fe36ca0ff6620eb1d3b0a06b0
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Thu Sep 20 16:50:49 2007 -0700

XDarwin: Merging misc changes from downstream.

The only functional changes in this patch are a removal of use of Xtrans internals -- replaced by xcb, which doesn't seem to be used elsewhere in the server? Pity.
Also, a fix to make all X11 windows pop to the front of the display when the X11.app icon is clicked -- currently takes two clicks, not sure why.

commit 3a965fdadccee7beff09a28e9c0ef4b4975eae38
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Sep 20 16:22:24 2007 -0700

Don't segfault on shutdown if we never managed to connect to dbus.

commit 50fa8722d35c12e5f0322cebe25fafa99c39d4f50
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Sep 20 14:00:33 2007 -0700

Set noCompositeExtension to TRUE when failing to initialize the extension (e.g. when Xinerama is enabled).

commit a247886b082cea93fa8f8980616a9c388ba70111
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Sep 20 13:06:38 2007 -0400

xace: add hooks + new access codes: XF86-Bigfont extension

commit f6532a81eeec5f096e27285687964b77c17987f72
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Sep 20 12:17:17 2007 -0400

xace: add hooks + new access codes: APPGROUP extension

commit 82f7195a628cc7ec94abc0cfe5bace2be8af443bc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Sep 20 09:17:09 2007 -0400

xace: modifications to ChangeWindowAttributes special case: separate Receive and SetAttr. Refer to 963e69b8efc39369915e7f0c6f370ac0d5d2b60f

commit 661b1328cf992d8855552677a94d60de1d8ce942
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Sep 20 08:41:26 2007 -0400

xace: add hooks + new access codes: SYNC extension

May need to revisit this extension in the future, depending on observed use.

commit 90bacdef723e1e49c72775144916750758d3568c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Sep 20 06:53:51 2007 -0400

xace: add hooks + new access codes: MIT-SHM extension

commit 12a18cc8903fac53c3c77b23dd8093187594a4f3
Author: David Nolden <david.nolden.git@art-master.de>
Date: Fri Sep 14 22:42:19 2007 +0200

  compilation-fix in debug mode

commit e93cff52fed9074aa007c2e6ec6b578f69ae3cb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 19 14:48:20 2007 -0400

xace: add hooks + new access codes: DOUBLE-BUFFER extension

commit 082c0f7fb34458ebb303cf875d1d75686eca25e6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 19 13:59:35 2007 -0400

devPrivates rework: move devPrivates field in drawable structure types to just below the DrawableRec. Wish there were a better way to do this but it has to be in the same place for all drawable types.

commit 5b36b64192517e2470766ce7ff1d4c04e936fad
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 19 11:11:54 2007 -0400

xace: add missing argument to hook call.

commit 963e69b8efc39369915e7f0c6f370ac0d5d2b60f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 19 11:11:41 2007 -0400
xace: add special-case for just setting the event mask on a window, this should only check "receive" permission, not "setattr" permission.

commit c140d20f4ade973496dcb6d06453402ef0e0e85c
Author: Ben Byer <bbyer@bbyer.local>
Date: Wed Sep 19 05:58:22 2007 -0700

XDarwin: mass change from using xorg-config.h to dix-config.h cuz we're not using the X.org ddx anymore

commit bcb5e3e6276ce9ae7a4dae7434cf2247764ada078
Author: Ben Byer <bbyer@bbyer.local>
Date: Wed Sep 19 04:46:10 2007 -0700

XDARWIN: More fixes to Makefile.am

At least on my system (10.5 with the latest and greatest modules),
Xquartz now builds out of the box. It doesn't quite work yet, but hey -- you have to start somewhere. ;)

commit 97c150b61bbe436453b05d3c07cd2173870aac40
Merge: 57907e0943 547ad2125e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 19 07:25:55 2007 -0400

Merge branch 'master' into XACE-SELINUX

Conflicts:

    afb/afbptwin.c
    afb/afbscrinit.c
    afb/afbwindow.c
    cfb/cfb.h
    cfb/cfballpriv.c
    cfb/cfbscrinit.c
    cfb/cfbwindow.c
    configure.ac
    fb/wfbrename.h
    hw/xfree86/xf4bpp/ppcIO.c
    hw/xfree86/xf4bpp/ppcPntWin.c
    hw/xfree86/xf4bpp/ppcWindow.c
    hw/xfree86/xf8_32bpp/cfbscrinit.c
    mfb/mfb.h
    mfb/mfbptwin.c
    mfb/mfbscrinit.c
    mfb/mfbscrinit.c
    mi/miexpose.c
Note: conflicts caused by devPrivates rework vs. paintwindow changes.

commit 5e209b21f3d6b3268fa7dab1e8df892d8352cc08
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Sep 19 03:44:46 2007 -0700

XNEST: removed obsolete hack to build under Darwin

commit 378c7ebeef444c9ae62ebf05c7111088a0c4bc1
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Sep 19 03:43:40 2007 -0700

XVFB: Removed obsolete hack to build on Darwin

commit 7813392d1c9a38d01cfff17732278bb7798eee5d
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Sep 19 01:52:58 2007 -0700

XDarwin: changes to Makefile.am to use new conditionals

commit 170fc77d9e73151f5c1c1f0f04598b3497db4284
Author: Dodji Seketeli <dodji@openedhand.com>
Date:   Wed Sep 19 09:54:09 2007 +0200

taxserver: don't force DTRACE detection by default

this fixes a breakage caused by 7a4ec34e256bf36b041c011a083916ad75a1d8bc.
When running a non DTRACE aware system that is not darwin*, DTRACE was getting
required. Now it is not anymore.

commit 9b4f5157179a0d20756c16ea1f5130b171f72bb1
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Tue Sep 18 21:40:32 2007 -0700

XDarwin: We build many many different targets, let's break them out into autoconf conditionals

commit 7a4ec34e256bf36b041c011a083916ad75a1d8bc
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Tue Sep 18 20:37:09 2007 -0700

XDarwin: Disable dtrace support on Darwin 9 (since it doesn't work ... yet ...)

commit 3c19ec47b434d4ca84db58363cc053cc0b6aa413
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Tue Sep 18 20:15:44 2007 -0700

XDarwin: changed XF86BigFont support default from yes to auto so XDarwin can disable it
commit 547ad2125ece93bbe01f6d09a3bafl76ebd16bb3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Mon Sep 17 20:33:56 2007 +0200

EXA: Make sure driver hooks get correct offscreen offsets from exaCopyDirty.
This should ensure the driver UploadTo/DownloadFromScreen hooks can always
work as intended.

commit 56cc24fbb21f7fd41f9e9e8f969aa85021b9f53
Author: Alan Hourihane <alanh@tungstengraphics.com>
Date: Mon Sep 17 20:33:56 2007 +0200

EXA: Don't crash in ExaCheckPolyArc.
See https://bugs.freedesktop.org/show_bug.cgi?id=12286.

commit 7ac89060e02c7a803018afd580720f8326561fd8
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Mon Sep 17 20:33:55 2007 +0200

EXA: Don't crash in exaGetImage when swapped out.

commit 3876c6c80534a6f7412ec806a2ba9ada22c5e505
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Sep 17 18:47:45 2007 +0200

EXA: Fixed compiler warnings.

commit d5738ff2e0f93df4729c075ce31a1041d580e50e
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Sep 17 16:59:03 2007 +0200

EXA: Added missing exaPrepare/FinishAccess calls in ExaCheckPushPixels.

commit a0dafd95e1e13a2f1b77ab9f82fd365a7be19de5
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Mon Sep 17 16:45:20 2007 +0200

Removed hw/xwin/winpntwin.c from Makefile.am.

winpntwin.c was removed in e4d11e58ce349df6af2f73ff341317f9b39684c.

commit 7bd65577018a574970b767b67967b65fcd5c2bf0
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Sat Sep 15 14:01:57 2007 +0200

Initialize output->pendingProperties.
Merge remote branch 'origin/master' into paint-window

Conflicts:

mi/miexpose.c

Remove the PaintWindow optimization.

This was an attempt to avoid scratch gc creation and validation for paintwin because that was expensive. This is not the case in current servers, and the danger of failure to implement it correctly (as seen in all previous implementations) is high enough to justify removing it. No performance difference detected with x11perf -create -move -resize -circulate on Xvfb. Leave the screen hooks for PaintWindow* in for now to avoid ABI change.

Try again to fix drawable and tile offsets in miPaintWindow

Many coordinate spaces are hard. Let's go drinking.

miPaintWindow draw to window for background.

Instead of drawing to window pixmap for everything, draw to window for background as that works for Xnest and Xdmx; draw to pixmap for borders which neither of those X servers use.

Fix build on FreeBSD after Popen changes.
Rewrite miPaintWindow to draw to window pixmap.

miPaintWindow was drawing to the root window, or (sometimes) drawing to the window after smashing the window clip list. This is losing, and easily fixed by just drawing to the window pixmap.

Replace a non-ascii char with the corresponding groff escape in exa.man.pre

Because our "popen" implementation uses stdio, and because nobody's stdio library is capable of surviving signals, we need to make absolutely sure that we hide the SIGALRM from the smart scheduler. Otherwise, when you open a menu in openoffice, and it recompiles XKB to deal with the accelerators, and you popen xkbcomp because we suck, then the scheduler will tell you you're taking forever doing something stupid, and the wait() code will get confused, and input will hang and your CPU usage slams to 100%. Down, not across.

xserver: test presence of strlcpy in configure

* configure.ac: define HAVE_STRLCPY when function strlcat is present this serves at least to unbreak libxtrans code compilation.
(exaDDXDriverInit): pExaScr->hideOffscreenPixmapData does not exist anymore, so don't set it.

commit 321e0a21600e418bbeb164043a9a21a0ff80cbe9
Author: Ben Byer <bbyer@bbyer.local>
Date:   Sun Sep  9 16:28:41 2007 -0700

fixed cut-and-paste typo

commit 0ff273fd1e2ea7242b3e6c5effb2a623ef32ec6f
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Sep  6 18:52:26 2007 -0700

  XDARWIN: fixes to make Xquartz build again

commit f8637137ab43818d45d249b337820cbf427a05ec
Author: Ben Byer <bbyer@bbyer.local>
Date:   Thu Sep  6 05:39:57 2007 -0700

  XDARWIN: build fix for quartz/pseudoramiX.c

commit e8093e15c7df7a3d5a9717bc9d7d7517b0743f29
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Sep  3 13:52:29 2007 +0200

  EXA: Exclude bits that will be overwritten from migration in exaCopyNtoN.
  
  Also plug a region leak in exaPolyFillRect.

commit e81af8ba643df3be53b0a46d9d4a0eaf21557e9e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Sep  3 13:14:29 2007 +0200

  EXA: exaFillRegion{Solid,Tiled} improvements.
  
  Use region to exclude bits that will be overwritten from migration.
  
  Also make exaFillRegionSolid use the same logic as exaFillRegionTiled.

commit 5f7da4da8de7449e1c2a4c679632a0b2a5858b7e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Aug 31 16:59:28 2007 +0200

  EXA: Use exaShmPutImage for pushing glyphs to scratch pixmap in exaGlyphs.

commit be922b30486abce3a8c13996d579b211a7b56f0e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Aug 30 13:59:07 2007 +0200
EXA: exa(Shm)PutImage improvements.

Improve exaShmPutImage performance and reuse its core in exaPutImage as it seems faster than the previous code when the driver doesn't provide an UploadToScreen hook.

Make sure all damage records are notified of the damage incurred by actual ShmPutImage calls.

Remove superfluous manual damage tracking for actual PutImage calls.

commit ea92ea415665e294a1ba233e9a1d39b6daa0cee1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Aug 30 13:54:18 2007 +0200

EXA: exaGetImage improvements.

Use the new migration infrastructure to cache FB bits we need in the system copy, for the benefit of repeated calls.

commit aa2ed73e0ec881947e969b67269e3206da4de359
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Aug 30 13:50:42 2007 +0200

EXA: Remove superfluous manual damage tracking.

These should all be covered by damage wrappers.

commit a634c9b03494ba80aeecc8be19662ac96657cc23
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Aug 30 13:48:03 2007 +0200

EXA: RENDER improvements.

Exclude bits that will be overwritten from migration.

Use exaGlyphs even when Composite can't be accelerated, to avoid PolyFillRect roundtrip via offscreen memory.

Initialize mask pixmap in exaGlyphs in FB in addition to system if the driver provides Composite hooks to avoid migration overhead.

Remove manual damage tracking where superfluous.

commit 1f457ff3db24178eefecfbbf177aaaf6554adb204
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu Aug 30 13:44:20 2007 +0200
EXA: Improvements for 1x1 pixmaps.

Initialize system and FB copy in exaFillRegionSolid and adapt exaGetPixmapFirstPixel to the new migration infrastructure.

This should mostly eliminate migration overhead for these, whether they are used for acceleration or fallbacks.

commit 489bc7551ffcc7360ba9648ca5c98b59c7e7a1fd1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Aug 30 13:37:53 2007 +0200

EXA: exaImageGlyphBlt improvements.

As we can't actually accelerate anything interesting here, just migrate out once and call fbSolidBoxClipped instead of taking a round trip via offscreen memory with exaSolidBoxClipped.

Reuse pending damage region for extents and to prevent any actual migration of pixmap contents when we're overwriting the whole pending damage region.

Remove superfluous manual damage tracking.

commit 2e0895a4ba27c1308713022820444c8f57f7a69f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Aug 30 13:30:03 2007 +0200

EXA: Improvements for trapezoids and triangles.

Only migrate once in exaTrapezoids/Triangles instead of every time in exaRasterizeTrapezoid/AddTriangles. Adapt manual damage tracking to new infrastructure.

Also move definition of NeedsComponent() closer to where it's used.

commit 6c9d7ed61bc4a19d21c53717b8af3d90b5d82ca9
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Sep 6 13:10:16 2007 +0200

EXA: Hide pixmap pointer outside of exaPrepare/FinishAccess whenever possible.

We finally want to catch all cases where the pixmap pointer is dereferenced outside of exaPrepare/FinishAccess.

Also fix a couple of such cases exposed by this change.

commit 962eddd7a2863a8475f5fd8107d3112df08d1172
EXA: Support partial migration of pixmap contents between Sys and FB.

The initiator of migration can pass in a region that defines the relevant area of each source pixmap or the irrelevant area of the destination pixmap. By default, the pending damage region is assumed relevant for the destination pixmap, and everything for source pixmaps.

Thanks to Jarno Manninen for reassuring me that my own ideas for this were feasible and for providing additional ideas.

commit f27931bdd26fc9a1e6bb5173b5537e32c51a98b3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Aug 29 19:41:52 2007 +0200

Add DamagePendingRegion.

DamagePendingRegion returns a pointer to the region of a drawable that will be damaged by the current operation for damage records that chose to get damage reported only at the end of the operation.

commit 5c7ee3f47fa0c067102a17dee3f75a51cc0bdb3a
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Aug 24 19:24:18 2007 +0200

EXA: Track valid bits in Sys and FB separately.

Also consolidate exaCopyDirtyToFb/Sys.

commit 8cfcf9973c765f11d1b45b95b8091e7e01d7f01
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Sep 5 20:10:09 2007 +0200

EXA: Migrate out pixmap in exaPrepareAccess.

Also fix exaFinishAccessGC not to use the same index for tile and stipple.

commit e510a77ba4d65d5d6ead514cd698f1b1e3f8a2b6
Author: Dave Airlie <airlied@linux.ie>
Date:   Tue Jul 17 17:16:51 2007 +1000

EXA: Add a couple of missing exaPrepare/FinishAccess calls.

commit 72b347e681f5667b68257822e7cecc02ab4e9eb6d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Sep 7 14:31:19 2007 +0930
dix: Enabling devices must not overwrite existing sprites/pairing.

EnableDevices is (amongst others) called after a VT switch. We must not create
a new sprite or re-pair the device, otherwise we lose the input device setup
that we had before the VT switch.

This requires the devices to be in exactly the same order as before
the VT switch. Removing a device while on a different VT is probably a bad
idea.

commit 57907e0943da0c3fd3bf6c128d210b544629ce72
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Sep 6 16:55:51 2007 -0400

devPrivates rework: register an offset for every resource type, use
signed values so -1 actually works correctly, and provide a macro for
adding an offset to a pointer.

commit 84eb7e62248ddc2761aff8cefe33d1b7147477528
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Thu Sep 6 13:36:37 2007 +0100

Fix Xdmx build

commit 35ec8b89f4cdf5ec48b292d47b2dad42d2fb9534
Author: Ben Byer <bbyer@bbyer.local>
Date:   Thu Sep 6 05:34:14 2007 -0700

DDX changes for XDARWIN

Creating a real DDX section for XDARWIN instead of
stuffing it into the XORG section in a half-assed manner.

commit d627061b48ae06d27b37be209d67a3f4f2388dd3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Sep 6 18:57:00 2007 +0930

xfree86: wrap keyboard devices for XKB.

Call ProcessOtherEvents first, then for all keyboard devices let them be
wrapped by XKB. This way all XI events will go through XKB.

Note that the VCK is still not wrapped, so core events will bypass XKB.

commit 5ee40979c4e604f6c848b6f70429fc2d6bb1ff4f1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Sep 6 18:52:02 2007 +0930
dix: add XI event support to FixKeyState.

FixKeyState needs to be able to handle XI events, otherwise we get "impossible keyboard events" on server zaps and other special key combos.

commit 6334d4e7be18de5f237c12a6dc20f75aa23477d0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 6 18:49:57 2007 +0930

xkb: enable XI event processing for xkb.

XI events can now take the same processing paths as core events, and should do the correct state changes etc.

There's some cases where XKB will use KeyPress as type for an event to be delivered to the client. Stuck warnings in, not sure what the correct solution is yet.

commit 49dbe9a757a3d7a0b9ab318242c6cc0c8d4dd1f0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 6 17:27:28 2007 +0930

dix: close virtual core devices after other devices.

If a device is paired with the VCP, deleting the VCP before the device will segfault the server when the sprite should get updated.

commit 03680a384aa423ece75b658f00b96db2628c39fa
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Sep 6 15:43:47 2007 +0930

dix: don't change the device struct while processing core events.

The device state needs to be changed while processing the XI event. Core events are always processed after XI, so by then the device is already set up properly. However, we now rely on DeviceButtonMotionMask to be equal to ButtonMotionMask. It already is, but stick a big fat warning in so nobody attempts to change it.

This commit disables XKB for the VCK, thus essentially for all devices. Temporarily anyway.

commit f3f614cd01ae56d84d61b4f5c907c6edd7c8c6d3
Author: Ben Byer <bbyer@bbyer.local>
Date: Wed Sep 5 20:34:00 2007 -0700

Revert "configure.ac: exclude pci-access dependency from XDarwin"
This reverts commit 20c6677d1b5f8d77325dd878ffa3df1d0fb01864.

commit bf1641b94c0fa54b786e18eaeff3839d8790b9f2
Author: Ben Byer <bbyer@bbyer.local>
Date:   Wed Sep 5 20:33:43 2007 -0700

XDARWIN: Add launchd support

This adds a bit of glue to configure.ac to support launchd detection;
on OS X (or other platforms which choose to implement launchd), this allows
the system to automagically start the Xserver as necessary to serve clients.

commit 71c21dea748ea0dcadf758679c40ee39192d170f9
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 18:45:50 2007 -0700

    added HAVE_LAUNCHD check to configure.ac (mostly for OSX)

commit 81c28f2d2b13a83770eadcfd7829d35d319d637f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Sep 5 17:46:23 2007 -0700

    Fix key repeats during VT switch.

    Add keyc->postdown, which represents the key state as of the last mieqEnqueue
call, and use it when we need to know the posted state, instead of the
processed state (keyc->down).  Add small functions to getevents.c to query and
modify key state in postdown and use them all through, eliminating previously
broken uses.

commit e332335241af28ef0aba66b102d0cbc4e5c73ac68
Merge: 7381e9149e accd71bda6
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 15:51:23 2007 -0700

    Merge branch 'master' of ssh://git.freedesktop.org/git/xorg/xserver

commit 7381e9149e3cbb7e672070781a16c3f096202be9
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 15:51:11 2007 -0700

    added an exclusion for setting XORG on darwin

commit accd71bda6f958ea6892ad3a10879232d3457774c
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Wed Sep 5 14:19:19 2007 -0700
Deliver correct event when releasing keys on VT switch.

In commit 41bb9fce47f6366cc3f7d45790f7883f74289b5a, the event delivery loop for Xinput enabled keyboards was changed and accidentally used the wrong index variable, causing random events to be delivered when returning from VT switch.

In addition, in commit aeba855b07832354f59678e20cc29a085e42bd99, SIGIO was blocked during delivery of these events, but not for the entire period the xf86Events array was being used. Block SIGIO for the whole loop to avoid other event delivery from trashing the key release events.

(cherry picked from commit aa7ed1f5f35cd043bc38d985500a0a32e857e84)

commit 8b77dc7e808f61f1ed10fe05cf898bb47459a76d
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 14:48:38 2007 -0700

XDARWIN: build breakage fix

commit 20c6677d1b5f8d77325dd878ffa3df1d0fb01864
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 14:31:01 2007 -0700

configure.ac: exclude pci-access dependency from XDarwin

XDarwin doesn't need any of this pci stuff since it doesn't talk directly to hardware, so it doesn't make sense to require it when building on OSX/Darwin.

commit ff01e44e33fd072958fb0157dae072f1b1c88944
Merge: 8ba8c16af7 47300ed2be
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 13:56:08 2007 -0700

Merge branch 'master' of ssh://git.freedesktop.org/git/xorg/xserver

commit 8ba8c16af773ec83a0b1c0661a23d746b401944e
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Wed Sep 5 13:46:30 2007 -0700

build fixes for XDarwin

commit 47300ed2be59d0ba7ea9345b954bf3104877c095
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Sep 5 12:34:29 2007 -0700

Fix server version reporting to be the server package version.

Previously, the server version reported by xdpyinfo and Xorg -version would
bear some vague resemblance to a X.Org katamari version, but in the presence of modularization (and client-server relationships with different katamari versions on each side) those numbers don't really make sense. Instead, just report the package version.

When branching a stable branch, master's version should be immediately updated to the endpoint of the stable branch plus a snapshot of 1 (for example, 1.4.0.1 after server-1.4-branch). The stable branch should then be changed to RC0 at that time (1.3.99.0, for example).

This scheme was partially attempted for server 1.3, but lacked the appropriate master updates, thus why it had to be revisited now. While here, we can also remove a lot of versioning complexity since everything is based on the package version.

commit 6c89d1237c4fdec961b30a8eaaee964af5d5665e
Author: Dodji Seketeli <dodji@openedhand.com>
Date: Wed Sep 5 17:46:49 2007 +0200

Kdrive: unbreak kdrive linking

* configure.ac: re-sort Kdrive libs so that symbols get properly resolved.
   Basically, all some libs are present in both $KDRIVE_LIBS and $XSERVER_LIBS, and some libs orders are not correct. So I made sure Kdrive servers don't have to link against $KDRIVE_LIBS *and* $XSERVER_LIBS. They just have to link against $KDRIVE_LIBS now.
* hw/kdrive/*/Makefile.am: update those makefile to reflect the change in configure.ac

commit 0003ccfcdfiae1b473aa024342304b84256d378b9
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Sep 5 11:18:36 2007 -0400

xace: add new fields to resource access hook to allow parent resource objects to be passed in at create time. Also added a missing devPrivates initializer.

commit 28e48cd8e64e4c412a49d7177daad6d3c93c28e08
Author: Ben Byer <bbyer@bbyer.local>
Date: Wed Sep 5 04:43:17 2007 -0700

Another pathname fix for event_status_driver.h

commit b6c0697fd67323893a9ad3676c33f1ec48e15e
Author: Ben Byer <bbyer@bbyer.local>
Date: Wed Sep 5 04:40:03 2007 -0700

fixed path for event_status_driver.h

(The path currently used is deprecated on Tiger and invalid on Leopard.)
commit c4ff050836f0eeef8390b7197f1de39af2997811
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Sep 5 16:19:45 2007 +0930

    Revert "Input: Fix stuck modifiers (bug #11683)"

    This reverts commit 6b055e5d9751e3679ff98065e43225ec8a960053.

    MPX relies on the XI event being delivered before the core event. Device grabs
break, amongst other things. I guess stuck modifiers need to be fixed some
other way.

    Conflicts:

            dix/getevents.c

commit bfe6b4d2d9952a80f8d8ec3ee9c74ef894e5c226
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Sep 4 17:44:51 2007 +0930

    xkb: Store the action filters per device in the XkbSrvInfoRec.

    Using a global array for action filters is bad. If two keyboard hit a modifier
at the same time, releasing the first one will deactivate the filter and
thus the second keyboard can never release the modifier again.

commit cc5c926267be099d793e6dfe17916f217e73c64d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Aug 30 15:51:22 2007 +0930

    randr: RRPointerScreenConfigured needs to move all pointers.

    Previous version only moved the VCP, causing "bogus pointer events" lateron.
Now we run through the device list, updating each pointer separately if
necessary.

Also stick a big warning into RRPointerMoved, not sure what device we need to
work on here.

commit 136fde2c7b5ed590bc6c63d11ede31e92dc679a2
Author: Ademar de Souza Reis Jr <ademar@mandriva.com.br>
Date: Tue Jul 3 13:44:28 2007 -0300

    Add Xserver man section about catalogue:<dir> FPE

catalogue:<dir> FPEs were introduced in libXfont 1.2.9

commit eb6a933dc60bec5601260794eeb973e946af37b6
Add xorg.conf man section about catalogue:<dir> FPE
catalogue:<dir> FPEs were introduced in libXfont 1.2.9

commit 205183a733237ea418a25c7423b689fcca8e628
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Sep 4 16:19:22 2007 -0700

Fix driver build by including an appropriate Requires.private line on pixman.

We'd previously been substituting PIXMAN_CFLAGS, but we've got a better tool
now, plus I deleted the PIXMAN_CFLAGS substitution without noticing.

commit d67e210f3458b62d7da6032aabfdad0004d661c1
Author: Gerte Hoogewerf <g.hoogewerf@gmail.com>
Date:   Tue Sep 4 16:09:38 2007 -0700

Add stub symbols to make xprint build.

commit f7f79724fdea0cc6fda09e56431d9f37d49335
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Sep 4 15:10:49 2007 -0700

Increase despair by fixing xprint build after my _DEPENDENCIES changes.

commit e89d16be07e45e48791359788a9e8eb1ee09bc7
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Sep 4 14:49:49 2007 -0700

Revert part of 529acb175440969af9d7fa38aabb8d7dea0dc2661 because libtool is smart.

commit b5984518763b5e21eff806a0a9abc5f7757fa10
Merge: 4062db4020735a3c0d0
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date:   Tue Sep 4 22:40:31 2007 +0200

Merge branch 'master' of git+ssh://herrb@git.freedesktop.org/git/xorg/xserver

commit 4062db4020c671fc0921a3a4e7fe5d8dc1be2e1d
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date:   Tue Sep 4 22:39:14 2007 +0200

typo in comment

commit ce9e83d913511fe619da42f805d7bcd1a2a60d90
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Sep 4 14:01:55 2007 -0400

xace: add hooks + new access codes: Damage extension

commit 735da3dcd09f59c40f68eca8c9a91c2e826cd1b9
Author: Egbert Eich <eich@freedesktop.org>
Date: Tue Sep 4 16:42:57 2007 +0200

Fixing xf86I2CGetScreenBuses(), now dereferencing the correct pointer.

commit 7c5de093d499de63d39fe038d86da0a085262017
Author: Egbert Eich <eich@freedesktop.org>
Date: Tue Sep 4 15:07:17 2007 +0200

Fixing sig11 in xf86I2CGetScreenBuses().

Dererferencing a pointer once too often caused a
sig11 in xf86I2CGetScreenBuses().

commit 9adea807038b64292403ede982075fe1dcfd4e9a
Author: Hong Liu <hong.liu@intel.com>
Date: Tue Sep 4 08:46:46 2007 +0100

bgPixel (unsigned long) is 64-bit on x86_64, so -1 != 0xffffffff

This patch should fix bug 8080.

commit 529acb175440969af9d7fa38a9b8d7dea0dc2661
Author: Eric Anholt <eric@anholt.net>
Date: Sun Sep 2 15:16:01 2007 -0700

Fix Xorg build by listing circular dependency libraries twice.

One of these I introduced by listing dix and mi in the same library list to
simplify other servers. The other had been hacked around using libosandcommon,
which is now gone.

commit c56930e6ca90a61d2f4cbd845f7d0a51a66f83cb
Author: Eric Anholt <eric@anholt.net>
Date: Fri Aug 31 18:27:41 2007 -0700

Remove backend.[ch] from neomagic to fix distcheck.

commit f98dfec79dadb70fa7bba84c7335f92b3a73dc02
Author: Keith Packard <keithp@koto.keithp.com>
Date: Sat Sep 1 21:14:22 2007 -0700
[COMPOSITE] Composite used for pixmap population on redirect. (Bug #7447)

compNewPixmap copies bits from the parent window to the redirected child pixmap to populate the pixmap with reasonable data. It cannot always use CopyArea as that only works across matching depths. Use Composite when the depths do not match.

commit 1afdf8b0a92437dffe84fa98b6083b3d8fd55e27
Author: Adam Jackson <ajax@redhat.com>
Date:   Fri Aug 31 22:11:13 2007 -0700

[RANDR] Don't mark Xinerama as active if no crts are enabled. (bug #11504).

Clients expect any Xinerama-enabled screen to report at least one monitor, but with RandR, there may not be any enabled crts. In this case, tell the client that Xinerama is not active.

commit 0dc2bb6101704d0fd25f36e2c3df79687f11f5b
Author: Marius Gedminas <mgedmin@b4net.lt>
Date:   Fri Aug 31 21:36:37 2007 -0700

[RANDR] Compare only milliseconds of config time. (Bug #6502)

The timestamp transferred in the X protocol is a 32-bit number of milliseconds.

The timestamp stored in the server is a structure that contains two fields: months (!) and milliseconds.

When the server passes the config timestamp to the client, it discards the months part and sends only the milliseconds part.

When the server receives the config timestamp from the client, it tries to guess the "months" part by looking at the current time and then maybe adding or subtracting one. The guess is wrong after the server has been running long enough (several hours).

I have added two ErrorF calls around the 'if' statement that returns RRSetConfigInvalidConfigTimestamp in randr/randr.c and my Xorg.0.log has this:

randr request got good config time: 0:-2103495671

for the first few successful xrandr calls, and

randr request failed with RRSetConfigInvalidConfigTime: client passed 1:-2103495671, server has 0:-2103495671
when it fails. The server has been running for 8 and a half hours.

The obvious fix would be to ignore the months field and only compare the milliseconds.

commit 07630d897ef37cad8b79d073d9edc891d5a7bdd
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 31 15:16:01 2007 -0700

   Bug #7364: Require renderproto 0.9.3 on 64-bit, and fix build with it.

commit ca82d4bdff235c9b68d51d68636bab40eaf9889
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 31 13:00:23 2007 -0700

   Bug #7186: Fix an excessive request size limitation that broke big-requests.

   MAXBUFSIZE appears to be a leftover of some previous time. Instead, just use maxBigRequestSize when bigreqs are available (limiting buffers to ~16MB). When bigreqs are not available, needed won't be larger than the maximum size of a non-bigreqs request (256kB).

commit a02db0d500cac20d0f0f0f107d27c064a175018421
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 31 12:24:07 2007 -0700

   Convert servers to using _DEPENDENCIES to ensure proper rebuilds.

   This cleans up server Makefile.ams a little bit, but also means that people messing with configure.ac need to be careful with whether they put libraries in the _LIBS or _SYS_LIBS targets. Hopefully the comment in configure.ac will clarify the issues.

commit c9ceb4878063ca22487e708d9f86e367f2cecc8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Aug 31 11:03:54 2007 -0400

   xace: add hooks + new access codes: Composite extension

commit fd04b983db6a70bf747abe02ca07c1fbbae6343
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Aug 31 09:55:27 2007 -0400

   xace: add hooks + new access codes: Render extension

commit 3f42af8c0ef1e5379bc836f589e0cbee43c02ac5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
config: Use [config/dbus] consistently for error messages.

commit 0fcde83d94507eadd9f99d4e6a63584b221c989c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Aug 30 18:20:20 2007 +0930

    config: return BadValue to caller if add/remove doesn't have parameters.

    If message iterator cannot be created, the caller didn't supply any
    parameters. Return BadValue, instead of dying a horrible death while being
    stuck in an endless loop.

commit 87495fc7064d5e0a7575a4172df0fa
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Thu Aug 30 21:57:41 2007 +0100

    Allow yres_virtual to be greater for some kernel fbdev drivers.
    (temporary fix for older fbdev drivers)

commit 1005b29cc6939851b40397cc9cd0de9476ad3046
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 30 14:48:24 2007 -0400

    xace: Correct some access modes.

commit d8ab2353cbd7694b556b7b9d550104dc8c460a1b
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 30 10:39:53 2007 -0700

    Remove dead xf86GetPciSizeFromOS and xf86GetPciOffsetFromOS.

commit c2d80529fc7f514d80cf3cbed6f580cb999aca1b
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Aug 30 10:20:55 2007 -0700

    Remove the now-dead PciAvoid symbol.

commit 53f346b158fa8e10de5a8777fa6d8d86f918878b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 30 13:20:04 2007 -0400

    xace: add hooks + new access codes: SHAPE extension

commit 766c693ef3637ee6fc402df594060ed2c1346761
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 30 13:06:28 2007 -0400
xace: add hooks + new access codes: MIT-SCREEN-SAVER extension

commit cda92bfbf12107865e93e03c71b901ef51466dc31
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 30 11:48:45 2007 -0400

xace: add hooks + new access codes: X Fixes extension.

Required a new name argument to the selection access hook to handle
XFixesSelectSelectionInput.

commit 47ab4d648b31ea1d5800e0bc84cf5f25025bfffe3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 30 11:40:39 2007 -0400

devPrivates rework: convert CursorRec and CursorBits over to new interface.

commit 1d11e4bc4ccb169fb23fc18583f0b648f0a6a4e0
Author: Egbert Eich <eich@freedesktop.org>
Date:   Thu Aug 30 12:50:21 2007 +0200

Fixing a misleading comment which could suggest a GPL violation.

The author of the int10 code looked at the VBIOS POSTing code
in DOSEMU to get some initial idea on how to POST a VBIOS.
To give credit to the DOSEMU Team for this inspiration a comment
was added to the code which could suggest that code from the
GPLed DOSEMU was directly incorporated into this code.
This patch should clarify the situation.

commit 45efe85003195bd45501630cef08349abb180c3a
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Aug 29 16:05:51 2007 -0700

Remove stale changelogs from kdrive.

commit 5aa0f00190157114780ab5f7268b396459ed1cad
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Aug 29 16:05:23 2007 -0700

Add more generated files to .gitignore.

commit 87295b66a972a2bd194a79af6aa4f715018fcded
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Aug 29 15:54:32 2007 -0700

Bug #9629: Remove badly-licensed neomagic kdrive files.
Licensing issues of these files include:
- They claim to be licensed under the GPL, yet we haven't allowed that in the xserver repository in the past.
- They refer the user to the top of the tree for GPL license text, yet it isn't there.
- They claim to be derived from the (MIT-licensed) ati kdrive code, yet don't follow the licensing terms of those files.

commit 4795df62456b73c6790f271e0a20a83c60496490
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Aug 29 14:40:10 2007 -0400

xace: add hooks + new access codes: TOG-CUP extension.

commit e39694789e31e221fe8dec44ace9c697daf7acad
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Aug 29 14:16:46 2007 -0400

xace: drop map-window checking hook, add new hooks for controlling the delivery of events to windows and clients.

This is tentative. It's likely that an additional last-resort hook will be necessary for code that calls TryClientEvents or WriteEventsToClient directly. It's also possible that new xace machinery will be necessary to classify events and pull useful resource ID's out of them.

The failure case also needs some thinking through. Should event delivery "succeed" or should it report undeliverable?

Finally, XKB appears to call WriteToClient to pass events. Sigh.

commit 41355a53c29bbf879da06ea562294ffcc7ef89ff
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Aug 28 15:10:20 2007 -0400

xace: add hooks + new access codes: core protocol input requests

commit adf46b57ce6c69ab13a38b09a8104e802d54d052
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Aug 28 10:08:38 2007 -0700

Replace BSD custom PCI code with a stub implementation thanks to pciaccess.

Note that pciaccess doesn't yet have Net/OpenBSD support, but the relevant code should go there instead of disconnected code in the X Server.

While here, remove the now-disabled INCLUDE_XF86_NO_DOMAIN from the headers,
and un-disable xf8StdAccResFromOS for those OSes without domain support which will need it.

commit 4017d3190234e189a0bbd33193a148d4d3c7556b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:  Tue Aug 28 09:28:25 2007 -0400

devPrivates rework: since API is already broken, switch everything over to new system.

Need to update documentation and address some remaining vestiges of old system such as CursorRec structure, fb "offman" structure, and FontRec privates.

commit 85547073265ae9bc4ae3af920a6d321461ca0c5
Merge: 860a09cfb8 7d54399efed
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:  Tue Aug 28 07:25:21 2007 -0400

Merge branch 'master' into XACE-SELINUX

Conflicts:

include/miscstruct.h
mi/mibstore.c
mi/midispcur.c
os/Makefile.am

commit 3fe67d23edaae3ddde20cd5f349aa5dfde1d26a3
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Aug 27 19:02:41 2007 -0700

Remove the BusAccWindows resource code which is now unused.

This was a bunch of poorly defined resource ranges per OS/platform combination which were supposed to represent what regions could potentially have resources allocated into them.

commit 9e2112b2b56af099a7f380ece9b5c1d25b20ccee4
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Aug 27 18:50:34 2007 -0700

Remove unused xf8GetBlock and xf86GetSparse entry points.

commit 801c359574d08ff2d6ac75a3325ff522bc862e30
Author: Eric Anholt <eric@anholt.net>
Date:  Mon Aug 27 15:46:05 2007 -0700
Fix fbdevhwstub for pci-rework.

commit 7d54399cfdaa7f54e28828267a76b89c4e8e798f
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Sun Aug 26 22:11:45 2007 -0700

Add XSERVER_LIBPCIACCESS to xorg-server.h when using libpciaccess

commit affda73a1d6e291516880dfbcb74b661374524c6
Author: Eugeniy Meshcheryakov <eugen@univ.kiev.ua>
Date:   Mon Aug 27 00:41:03 2007 +1000

Xprint: fix handling of TrueType font name

Debian bug #272368
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=272368
In certain locales, some characters from some TrueType fonts were not
appearing in the Xprint postscript output due to the font not being
identified in the postscript output.

commit 6f44a2c8a8d6e8f95681ebc7b2dd5ad9c3a02c6e
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Jul 29 14:16:10 2007 -0400

Refactor PictureInitIndexedFormats.
The plural version is now static, which is fine since it was only ever called
from within picture post-init anyway. The body of the work is now done with
a one-shot (public) function that operates on a single format at a time.

commit ae7f71a8b3d6756161e55d998d6eed37d2695c98
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Aug 25 15:08:20 2007 -0400

Implement core protocol backing store exclusively in terms of Composite.

Composite's automatic redirection is a more general mechanism than the
ad-hoc BS machinery, so it's much prettier to implement the one in terms
of the other. Composite now wraps ChangeWindowAttributes and activates
automatic redirection for windows with backing store requested. The old
backing store infrastructure is completely gutted: ABI-visible structures
retain the function pointers, but they never get called, and all the
open-coded conditionals throughout the DIX layer to implement BS are gone.

Note that this is still not a strictly complete implementation of backing
store, since Composite will throw the bits away on unmap and therefore
WhenMapped and Always hints are equivalent.
Fix bug in debugging info related to pci-rework merge

Remove files made obsolete by pci-rework.

Bump video driver ABI for pci-rework.

Merge branch 'pci-rework'

exaPolyFillRect: pGC->alu doesn't matter with a single rectangle.

exaGetImage: Don't migrate pixmap out of FB with no DownloadFromScreen hook.

Based on the assumption that GetImage is relatively rare, so the overhead of the migration is probably bigger than any potential savings.

EXA: Improve ShmPutImage.

Share as much code with exaPutImage as possible, and fall back to fbShmPutImage when that fails.
Export fbShmPutImage to modules.

To be used by EXA.

EXA: Only mark offscreen memory as used when it really is.

We would most likely crash somewhere in Mesa if we tried to continue in this case.

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

```plaintext
hw/xfree86/common/xf86.h
hw/xfree86/common/xf86Init.c
hw/xfree86/common/xf86pciBus.c
hw/xfree86/int10/generic.c
hw/xfree86/int10/helper_exec.c
hw/xfree86/loader/xf86sym.c
hw/xfree86/os-support/bus/Pci.c
hw/xfree86/os-support/bus/Pci.h
hw/xfree86/os-support/bus/linuxPci.c
hw/xfree86/os-support/linux/int10/linux.c
```
Avoid leaking a Pixmap for every glyph

commit 3305d17195e3a0a5555300555bd7703312fa489f
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Thu Aug 23 22:48:19 2007 +0200

Fix indentation.

commit a66c0f1dca2958835ff65a5b50579e3304ed316a
Author: Matthieu Herrb <matthieu@bluenote.herrb.com>
Date:   Thu Aug 23 22:11:56 2007 +0200

Remove an extra cast.

Thou should not apply patches manually without testing.

commit 12d27cf33c6d963eae77795c0d247175907162a5
Author: Otto Moerbeek <otto@openbsd.org>
Date:   Thu Aug 23 21:59:25 2007 +0200

A high resolution device that's moving fast can potentially generate
an int overflow, making dx*dx+dy*dy negative. Now pow(negative,
non-integer) yields NaN, so you loose. Use fp math to avoid that.

commit ff089e6cae634ac3eb509abd448a250bcb17275
Author: Brian Paul <brian.paul@tungstengraphics.com>
Date:   Thu Aug 23 19:38:53 2007 +0200

glx: fix crash when freeing visuals

Don't set screen->num_vis to a value greater than the actual number of visuals.

X.Org Bug #10809 <http://bugs.freedesktop.org/show_bug.cgi?id=10809>

commit 943dd6ad99670c283a6869ea6c5f751acbd73134
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Thu Aug 23 12:15:03 2007 -0400

Revert "Revert "Require pixman 0.9.5; Use pixman_image_set_source_clipping() to fix"" since the pixman
changes have been pushed now.

This reverses commit 57f7f2a5327a2d967a726bb4706e4f6b2f4b2cea.

commit 13949f997289068354e83bc83e50d97b8232efb1
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Aug 23 11:27:33 2007 +0200

Get rid of the type1 font module.
It is completely replaced by freetype these days.

commit 88a9828ef906bba973debc191e35ea669b7ec271
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Aug 23 18:02:10 2007 +0930

dix: Only check device events for possible ACLs.

We shouldn't be able to restrict events like Expose, etc. with device based
ACLs. So we just ignore all non-input events when checking for permissions.

commit 76bf3cd7b8c6189b6b08518cde00c8bd991bdfb7
Author: Dave Airlie <airlied@redhat.com>
Date:   Thu Aug 23 16:22:03 2007 +1000

randr: fixup crtc and output destroy

if you are moving pointers, you want to move the pointers not just a byte

commit 81f8b652d99ee0f7116c1e34aed0e585d23a91fb
Author: Alex Deucher <alex@botch2.(none)>
Date:   Wed Aug 22 19:26:34 2007 -0400

Add _X_EXPORT to exported functions in hw/xfree86/modes/*

Also add missing exports to hw/xfree86/loader/xf86sym.c

commit 57f7f2a5327a2d967a726bb4706e4f6b2f4b2cea
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Aug 22 09:02:03 2007 -0700

Revert "Require pixman 0.9.5; Use pixman_image_set_source_clipping() to fix"

The corresponding pixman code hasn't been pushed, so revert until the code is
ready.

This reverts commit 53941c8e68014619d3ded7f8bc0f07d9a38bb9b1.

commit d0de9698ae4324d44ed4c0482d6858d0b73bff33
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Aug 22 09:00:45 2007 -0700

Revert "Fix <pixman.h> include to <pixman/pixman.h>"

The pixman headers have been located under pixman-1/ instead of pixman/ since
around 2007-08-06, and pixman-1.pc has the updated include paths to account
for this.
This reverts commit feb1b3e45513bd6eea2e6a5ee536183f20d9cb68.

commit bc2d516f16d94c805b4dfa8e5b9eef40ff0cbe98
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Aug 17 12:14:16 2007 -0700

Fix overly-restrictive integer overflow check in EXA pixmap creation.

The result was that at 32bpp, pixmaps of width 8192 or greater couldn't be
created, due to treating a pitch value as a width.

commit feb1b3e45513bd6eea2e6a5ee536183f20d9cb68
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Wed Aug 22 16:54:29 2007 +0100

Fix <pixman.h> include to <pixman/pixman.h>

commit b6a7c0112c42a3287e53647c38b2c0c5bf8fefa0
Merge: 53941c8e68 6ef4ecd826
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Tue Aug 21 14:26:34 2007 -0400

  Merge branch 'master' of ssh+git://sandmann@git.freedesktop.org/git/xorg/xserver

commit 53941c8e68014619d3ded7f8bc0f07d9a38bb9b1
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Tue Aug 21 14:26:14 2007 -0400

  Require pixman 0.9.5; Use pixman_image_set_source_clipping() to fix
  bug 11620 (reported by Jens Stroebel.

commit 6ef4ecd82670c37a354243166750d76a97959c8b
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue Aug 21 18:17:35 2007 +0200

  config: fix default xkb model (pc105, not keyboard)

commit 1834cfb4470341aace64a2fa47d04f85dbf98a47
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Tue Aug 21 10:44:37 2007 -0400

  Fix an error message to not point to @xfree86.org.

commit 265a633cf1fcbf497d6916d9e22403dfffde2e07
Author: Keith Packard <keithp@koto.keithp.com>
Date:   Sun Aug 19 20:29:37 2007 -0700
Screen size changing should leave FB alone when X is inactive.

xf86RandR12ScreenSetSize must protect calls to EnableDisableFBAccess with suitable vtSema checks to avoid invoking driver code while the X server is inactive.

commit 7dc8531548cc9573e28bb604363dcb3af5864e9a
Author: Keith Packard <keithp@koto.keithp.com>
Date: Sun Aug 19 20:28:05 2007 -0700

Ref count cursors used in hw/xfree86/modes code.

The multi-crtc cursor code in hw/xfree86/modes holds a reference to the current cursor. This reference must be correctly ref counted so the cursor is not freed out from underneath this code.

commit 1f6ddae003ec65d6bc567831bf32bf75dfe6d6c
Author: Alex Deucher <alex@botch2.com>
Date: Tue Aug 21 00:37:33 2007 -0400

add xf86_crtc_clip_video_helper to xf86sym.c

commit c839859d1bc35451923a2cb5dfac4f3ca5eb3f9
Author: David Nusinow <dnusinow@debian.org>
Date: Mon Aug 20 21:09:27 2007 -0400

Move module defaults from the header to the source file.

This is where they should have been in the first place. All the rest of the code in the server defines such things in the source files, not the headers.

commit 53e04351e462d2ae307684e50d5960debe1ee557
Author: Alex Deucher <alex@botch2.com>
Date: Mon Aug 20 19:46:38 2007 -0400

move intel crtc xv clipping helper to the xserver

The code is generic and can be used by any overlay-based card when adding randr 1.2 support. Tested on radeon.

commit a1fe36b772f7edc162ea97368f86588c0fb77148
Author: Julien Cristau <jcristau@debian.org>
Date: Mon Aug 20 12:57:06 2007 +0200

xfree86: Fix build on Linux/alpha.

A bunch of CFLAGS had gone missing, so the build failed with errors like:
commit 2c1431a76e7219e3bd14fd7f7888a8bc4f6ea0f38
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Aug 20 10:06:13 2007 +0930

dix: ProcChangeActivePointerGrab: make sure variable is initialised.

Thanks to Ben Close for spotting it.

commit 65a49f0ca198e0366175367729a101211388b16b
Author: Blair Sadewitz <blair.sadewitz@gmail.com>
Date: Sun Aug 19 20:29:22 2007 +0200

Autoconfiguration of wsmouse for NetBSD.

commit 3c448b0eb67337b56641e09a6d168aad6745e3eef
Author: Fredrik Höglund <fredrik@kde.org>
Date: Sat Aug 18 19:02:18 2007 +0200

EXA: Fix a couple of logic errors in exaGetPixmapFirstPixel.

The fb pointer would be left uninitialized when exaPixmapsIsOffscreen
returned false. When it returned true and the pixmap was damaged,
fb would be initialized from the pixmap's devPrivate.ptr before the
exaDoMigration and exaPrepareAccess calls, at which point
devPrivate.ptr would still be pointing at offscreen memory.

commit 23fbd5292d356067e85e1eecc4eb4f743532b0503
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Aug 17 15:29:16 2007 -0700

Actually build Secure RPC authentication support (missed in modularization)

commit 6a32a96d8df184c3ace4847beb4f8dcb846d2286
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Aug 16 17:43:29 2007 -0700

stride is in FbBits-sized chunks, but xoff is not.

Fixes corruption problems with composite rendering to redirected windows in
depth 16.

commit 32666d77227fcd2c066de16bf3c07366f92b0457
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Aug 16 14:57:18 2007 -0700
Bug #12015: Use the right offsets in the dst arguments of pixman_blt.

commit daee59b1703ac07c2def9e9fccc479e59b93f761
Author: Fredrik Höglund <fredrik@kde.org>
Date: Wed Aug 15 19:19:11 2007 +0200

EXA: Wrap Trapezoids to prevent excessive migration of the alpha pixmap.

miTrapezoids creates an alpha pixmap and initializes the contents using PolyFillRect, which causes the pixmap to be moved in for acceleration. The subsequent call to RasterizeTrapezoid won't be accelerated by EXA, which causing the pixmap to be moved back out again.

By wrapping Trapezoids and using ExaCheckPolyFillRect instead of PolyFillRect to initialize the pixmap, we avoid this roundtrip.

commit 860a09c08af0a9c7eb5e01762724eb86847a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Aug 16 16:10:44 2007 -0400

devPrivates rework: Nevermind, can't const due to return value warnings.

This reverts commit 6fd0a0b08de91242171a17fe34a55ae285ae7.

commit 6fd0a0b08de91242171a17fe34a55ae285ae7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Aug 16 16:01:42 2007 -0400

devPrivates rework: add const qualifier to key type.

commit b2b7817497dd5da73d233cc637c653044fc490
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Aug 16 15:30:25 2007 -0400

devPrivates rework: use camelcase standard for name of key type.

commit 0a994df859a4e48d41a90ed9d2a282b528c555
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Aug 16 12:54:35 2007 -0400

xace: add hooks + new access codes: core protocol selection requests

commit 3ef2e9e623819c625a92f464fb1f1e5c181df42
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Aug 16 12:27:48 2007 -0400

xace: add hooks + new access codes: core protocol pixmap requests
Update for support on NetBSD and DragonFly. From Joerg Sonnenberger and pkgsrc.

Add some more support for DragonFly. From Joerg Sonnenberger and pkgsrc.

xace: add hooks + new access codes: core protocol font requests

xace: add hooks + new access codes: core protocol client requests

xace: drop background-none checking hook, add new hook for controlling access to other clients.

xace: add hooks + new access codes: core protocol screensaver requests

xace: add hooks + new access codes: core protocol server requests
Date: Thu Aug 16 09:46:27 2007 +0200

Kdrive: fix nasty thinko in TslibEnable()

commit 026534f945ae5652592a090a9d41375ca37ab618
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Aug 15 16:47:53 2007 -0700

Update pci.ids to 2007-08-15 snapshot

Remove nvidia ids in extrapci.ids that are now in pci.ids

commit 6c9e7b9611297cb1d93c6e3890b26b69e87bce2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Aug 15 16:44:49 2007 -0700

Correct XErrorDB path and make it configurable (used by DTrace support)

commit 3c9553ac2c673a41966def44a50d722d7e645b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Aug 15 14:14:25 2007 -0400

xace: rename hostlist security hook to "server" as this hook will be used
for other types of server access besides just the host list.

commit dc84bb3418933297a8c005070902d9a91ed3d18f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Aug 15 14:13:53 2007 -0400

xace: add hooks + new access codes: core protocol cursor requests

commit b424e01ec59d6960a02823f1522949325797268c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Aug 14 13:20:42 2007 -0400

xace: add hooks + new access codes: core protocol property requests

commit 14d0397c6ed699378fa3e19f4e61dbab7d3a9b2c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Aug 15 22:12:29 2007 +0930

dix: ProcUngrabKeyboard: make sure grab is initialized.

This should fix the random segfaults with ProcUngrabKeyboard.

Thanks to David Nolden for spotting it.

commit 0f9e89b4e309e570d7d366489d250ca2143f0ad7
Fix the value comparisons in the IDLETIME wakeup handler.

LessThan/GreaterThan comparisons were used in the wakeup handler, and LessOrEqual/GreaterOrEqual in the block handler.

Change it to use LessOrEqual/GreaterOrEqual in both functions, since this is what XSyncNegativeComparison and XSyncPositiveComparison imply.

commits 42d6112ec21949a336ee8b34469f2695273ee2d6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Aug 14 13:09:38 2007 -0400

xace: add hooks + new access codes: core protocol GC requests

commits 9a183d7ba50e31afa133cc03ae7991517a283ea
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Aug 14 11:39:26 2007 -0400

dix: remove caching of drawables and graphics contexts. The security checks simply bypass the cached values so they are unused.

commits 2763056ab5ae31bed422a0948198d98c6ace6d55
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Aug 13 13:40:47 2007 -0400

xace: add hooks + new access codes: core protocol window requests

commits 6a195e816b9d60f728d77cc1c23538e7af00a879
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Aug 13 10:43:48 2007 -0400

Revert "Implement damage tracking for AIGLX."

This reverts commit 2243b30e54df07892f75e3d65b687abe5b183cf3. The existing DRI interface doesn't let us get from a __DRIIdrawable to the corresponding X drawable, and thus, we can't implement AIGLX damage tracking with the current interface.

commits f367285fd5825e0adc271982a529c9904ad65c89
Merge: b1272eefd9 ff4bd3addb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Sun Aug 12 15:31:10 2007 +0930

Merge branch 'master' into mpx
Conflicts:

- xi/exevents.c
- dix/devices.c
- dix/getevents.c
- include/dix.h
- mi/mieq.c

commit 03f9da672466b9ab9a9814d784b8c44f1030587e
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sun Aug 12 03:07:04 2007 +0200

xfree86: Improve default mouse handling on the Hurd

Make /dev/mouse the default device. This makes Xorg works with empty or missing InputDevice sections.

commit c5741438a3a171f493e9da32a6b39f73403f6993
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Aug 10 16:13:55 2007 -0700

Only use evdev drivers in Xephyr #ifdef linux

commit 59961e47df4ea621a6713a8c7d060555f8746c3a
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Aug 10 16:08:41 2007 -0700

xorgcfg needs PIXMAN_CFLAGS in order to build libc_wrapper.c

commit 2243b30e54df07892f75e3d65b687abe5b183cf3
Author: Kristian Høgsberg <krh@redhat.com>
Date: Fri Aug 10 15:53:05 2007 -0400

Implement damage tracking for AIGLX.

commit ff4bd3addb48df3eacc4b121cc249a7f38eb981a
Author: Eric Anholt <eric@anholt.net>
Date: Wed Aug 8 14:24:42 2007 -0700

Fix the swapped decode of the EDID DTD h/v sync polarity fields.

As a result, we can remove the quirks that existed to flip the bits back around for us. This is not confirmed in all cases due to lack of bugs containing EDID blocks associated with the quirks, but is likely true.

commit 2926cf1da7e4ed63573bfaeccd7e19beb3057d9b
Author: Gustavo Pichorim Boiko <boiko@mandriva.com>
[PATCH] Allocate the right number of entries for saving crtcs

commit b2defbca2441ca8c561f86a78a76ab59ebbb40e4
Author: Keith Packard <keithp@koto.keithp.com>
Date: Wed Aug 8 12:16:12 2007 -0700

RRScanOldConfig cannot use RRFistOutput before output is configured.

RRFistOutput returns the first active output, which won't be set until after RRScanOldConfig is finished running. Instead, just use the first output (which is the only output present with an old driver, after all).

commit b1272edfd9a3e340d65c14903f337747ec82d021
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Aug 8 15:00:02 2007 +0930

Fix typo from last commit. Oh well.

commit c02128532e910e813fba9498373942d30c2d5eb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Aug 8 13:10:00 2007 +0930

dix: Allow flexible devices for passive core grabs.

A passive core grab doesn't specify the device, and is thus created with the ClientPointer as device. When this grab is activated later, don't actually activate the grab on the grab device, but rather change the device to the one that caused the grab to activate. Same procedure for keyboards.

Makes core apps _A LOT_ more useable and reduces the need to set the ClientPointer.

Only applies to core grabs!

commit ab3f601149e15789edfb7c9a0c33387070279582
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date: Tue Aug 7 23:17:32 2007 -0300

Updates some piece of the dead mouse evdev code under the new hotplug scheme. I exported the evdev driver to Xephyr server. I'm running it using something like:

```
$ /hw/kdrive/ephyr/Xephyr :1 -mouse evdev,,device=/dev/input/event4 -keybd \
  evdev,,device=/dev/input/event1,xkmodel=abnt2,xklayout=br
```

It also closes #5668.
Export device path key options to be called by the command line of server.

Update KdUseMsg() for completeness.

Hotplug: HAL: Fix error handling

Don't use our DBusError for property getting, because we simply don't care: this fixes D-Bus error spew to stderr. Thanks Michel Dänzer for debugging and testing.

Config: HAL: Use input.xkb namespace

Use an explicit input.xkb.foo namespace, not input.xkb_foo.

Make sure all DDXes get $CONFIG_LIB. Build-tested with Xvfb and Xdmx.

RRScanOldConfig wasn't getting crtc set correctly

The output crtc is set by RRCrtcNotify, which is called at the end of RRSanOldConfig. Several uses of output->crtc in this function were wrong.
Decrement mode count when removing RandR output mode.

Removing an output mode without decrementing the mode count scrambles the output mode array badly.

commit fef4c7a6f1a1ef342333b36137bb66d9a657307fb
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Aug 7 09:01:14 2007 -0700

Fix driver build after pixman changes.

commit 1339e57485db5a285cfcbecbe0bba7154458680ad
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date:   Tue Aug 7 04:24:34 2007 -0300

Fix typo.

commit d9ee5f3e3a3a814ebcd257736c305b41139cc354
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date:   Tue Aug 7 04:22:26 2007 -0300

Clean a little bit the code.

commit 7a5eb3e96b74daaaeb6babf46b13d698280aa3f6
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date:   Tue Aug 7 02:16:44 2007 -0300

Let xkb options be passed through command line in kdrive servers. I start my Xephyr using something like:

   ./hw/kdrive/ephyr/Xephyr :1 -fp /usr/share/fonts/X11/misc/ -mouse ephyr -keybd ephyr,,xkblayout=br,xkbmodel=abnt2

commit 955d5f6c0d14fae63bfe7c4ab39e0a708919479
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date:   Tue Aug 7 01:39:29 2007 -0300

When we call Xephyr with `-pointer` a new pointer is added inside the server and the Xephyr virtual mouse keeps alive. With this patch the semantic changes turning `-pointer` & `Xephyr virtual mouse` always false.

Now we can open a device pointer and pass its options in Xephyr's command line without having other pointer unused.

commit b8abeaf74ee8296d4bc3164a5a253624f984a6d4
dix: get the paired keyboard for a passive grab (ProcGrabButton).

Taking the VCK is only correct if no physical device is connected, and even then it's not really a good idea.

commit a0b87f87b8753955505958bf3d438eef191302d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Aug 7 10:49:33 2007 +0930

dix: check for core event to determine if grab is a core grab (CreateGrab).

Checking for VCP/VCK is simply not a safe way to check if a grab is a core grab.

commit aa3c6aaaaab213200591d29dddb2921adfb87ee5b4
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Aug 6 19:00:59 2007 -0400

    Require pixman-1 0.9.4, update pixman includes to new scheme

commit 74feba4d77d74979a0ea478d666439fffc55001e5
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Aug 1 14:30:03 2007 -0700

    Don't unwrap too early in libwfb for Composite.

    Don't call fbFinishWrap until the pixman_image_t that stores the pointer is actually freed. This prevents corruption or crashes caused by accessing a wrapped pointer after the wrapping is torn down.

commit f6aa2200f2fb4f4d4bb51e67d68e86aabcac0c4b
Author: Roland "Test-tools" Bär <roland@verifysoft.de>
Date:   Mon Aug 6 12:37:52 2007 -0700

    Probable off by one buffer overflow in .../xorgconfig/xorgconfig.c

X.Org Bug #11858 <http://bugs.freedesktop.org/show_bug.cgi?id=11858>
Patch #11005 <http://bugs.freedesktop.org/attachment.cgi?id=11005>

commit d744df32a15103aa14237175f506350d25b2fec0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Aug 6 12:23:21 2007 -0400

    xace: add hooks + new access codes: core protocol colormap requests

commit acc9a42c926a3f84159780de12ecc1dc6186068a
Temporarily disable Security and SELinux extensions while changes to XACE are being made.

commit 102df4f9bac59d95963572d1a7f31d1a064ca4ca
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Aug 6 09:16:30 2007 -0400

xace: drop site-policy and declare-extension-security hooks, add 2 new hooks for controlling access to screens and screen savers.

commit 9eddede039f6cbeb323b7e3e4e841c43d3ed4f43
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jul 16 18:01:00 2007 +0930

mieqEnqueue: Don't try to update the time for GenericEvents.

Doing so may overwrite the event's length field and cause havoc. Also check if realloc'd memory did actually return valid pointer.

commit e717eb82dc2e55f852919312d04f5efec8ee55bc8
Author: Dave Airlie <airlied@redhat.com>
Date: Thu Aug 2 10:50:01 2007 +1000

xserver: stop bcopy from going really slow

The outport is most likely unnecessary on any currently used hardware, the byte copy is necessary from what I know on IA64 and friends so leave it.

Add a new API entry point which lets a driver select the old behaviour if such a needs is ever found.

This gives me ~20% speed up on startup on 945 hardware.

commit 600ef07113caaa7a901c7d486bc8ebd1ae47f885c
Author: Tiago Vignatti <tiagov@balalaika.(none)>
Date: Fri Aug 3 15:33:41 2007 -0300

Fix kdrive command line parser.

commit 375864cb74cced40aee688078b11f7750998972535
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Aug 3 13:23:34 2007 -0400

security: drop support for XC-QUERY-SECURITY authorization method.
security: drop the "declare extension security" dix call. Use the SecurityPolicy configuration file instead.

Create a Picture as well as a Pixmap at the time of AllocateGlyph

This avoids some inefficiency in creating a temporary Picture for every glyph at rendering time. My measurements with an i965 showed the previous patch causing a 10-15% slowdown for NoAccel and XAA cases, (while providing an 18% speedup for EXA).

With this change, the NoAccel and XAA performance regression is eliminated, and the overall EXA speedup, (before any of the glyphs-as-pixmaps work), is now 32%.

Use per-screen Pixmaps for glyphs

Instead of system-memory data which prevents accelerated compositing of glyphs, (at least without forcing an upload of the glyph data before compositing).

Use strong hash (SHA1) for glyphs

Using a cryptographically strong hash means that comparing the hash alone is sufficient for determining glyph equality (no need to compare the glyph bits directly). This will allow us to replace system-memory copies of the glyph bits, (which we've only been holding onto for comparisons), with Pixmaps.
ProcRenderAddGlyphs: Avoid allocating a glyph just to find it cached

This is a cleanup without any real savings (yet). Previously, the
implementation would allocate a new glyph, then (often) find it in
the cache, and immediately discard the allocated object. This
re-organization first uses a new FindGlyphByHash function and only
allocates the glyph if nothing is found.

This isn't a real savings yet, since FindGlyphByHash currently still
does a temporary glyph allocation, but this is expected to be replaced
immediately as we switch to an alternate hashing mechanism (SHA1).

commit 4c6abe1c7c8abc203572bbf86b21d97ea4e756f
Author: Carl Worth <cworth@cworth.org>
Date:   Mon Jul 30 21:43:20 2007 -0700

Split HashGlyph functionality out into HashGlyphInfoAndBits

This is in preparation for a future change that will take advantage
of being able to compute a hash for a separate xGlyphInfo and chunk
of bits without a combined Glyph object.

commit 363d764ea32b938f3dfff35df7ef3370363c04d5c
Author: Carl Worth <cworth@cworth.org>
Date:   Mon Jul 30 15:10:11 2007 -0700

ProcRenderAddGlyphs: Take advantage of the for loops to simplify the code a bit

commit dc8a528cd6b9a4da3e60fa31428c37f5b34a897f
Author: Carl Worth <cworth@cworth.org>
Date:   Wed Jul 25 14:57:13 2007 -0700

ProcRenderAddGlyphs: Convert while loops to for loops where more natural

commit e34fc2bf42dbd72ab6ce2df80f2dca13416e74
Merge: 32c0dce8c0 f3955c0a02
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 2 14:27:03 2007 -0400

Merge branch 'master' into XACE-SELINUX

Conflicts:

dix/devices.c
dix/property.c
include/dix.h

commit f3955c0a020b39021050cd33c20a17f14fc4b579
Author: Arkadiusz Miskiewicz <arekm@maven.pl>
Date: Wed Aug 1 21:04:22 2007 +0300

XFree86: xf1bpp: distclean generated files as well

Make sure we clean up after ourselves: not sure why distcheck didn't flag this one.

commit a04c95f4446e5c169dea71019321d790ab4fa139
Author: Julien Cristau <jcristau@debian.org>
Date: Wed Aug 1 20:37:05 2007 +0300

configure.ac: Fix argument quoting for argv[]

m4 quoting. Yar boo sux.

commit 99a88826e5e8cfa25c5f8a88c12799d33114729c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 20:34:58 2007 +0300

configure.ac: Actually use -lrt in monotonic clock test

If we need -lrt to use clock_gettime, then make sure we link with it.

commit 1c80e04f876e9254b93e8f7eadfcef71234340c6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 20:08:31 2007 +0300

configure.ac: Disable D-Bus config API support by default

This is problematic, so don't even bother with it unless someone wants it.
respeclaration is dead, long live HAL.

commit c46663367329615bd2c9b63e93c9534036e5a2ae
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Aug 1 18:32:09 2007 +0200

GLX/DRI: Remove some unused variables.

commit 17c8bf64e3c39725e83b1e311c09422d7e1c0e52
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Aug 1 18:13:18 2007 +0200

GLX_EXT_texture_from_pixmap: Use client provided texture target when available.

This prevents situations where the server doesn't use the target the client thinks it does, usually resulting in the texture being sampled as all white.
commit a4197db9504ada6af005b2218eee36b8af0d98b  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 14:04:51 2007 +0300

GL: GLX: Make sure glxbyteorder.h is distributed

commit ad7421fc764e2b82e20d90f12225a03a1d636f18  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 08:30:00 2007 +0300

Bump version to 1.3.99.1 for development

This is not actually .1, just bumping for a different devel version.

commit 43e71a54502d9ab28ece7f6296d1416d60948dad  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 08:16:35 2007 +0300

XFree86: xf1bpp: Fix previous build system commit

Amateur error.

commit 6d6bc93b0a13c5356544561e326d4aedf33e61c2  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 08:11:22 2007 +0300

Build system: Add missing files

A couple of headers weren't added to the build.

commit 505ec436af3a173e0ba32c6f14b4cf9837a553eb  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 08:11:08 2007 +0300

XFree86: Properly clean up after ourselves

CLEAN is not a useful variable. CLEANFILES/DISTCLEANFILES, on the other hand, are useful variables.

commit 1ace9770fed4a2ba354ff06a96189428beb36088  
Author: Daniel Stone <daniel@fooishbar.org>  
Date: Wed Aug 1 08:10:38 2007 +0300

Build system: Non-dtrace distcheck hacks

automake 1.10 really wants foo.c for foo.O, so give it some dummy files to deal with if it really needs them.
Remove duplicated licenses

Some files had two copies of the same license.

Add proper COPYING file

I went through the entire xorg-server distribution and aggregated all the licenses I could find (except the questionable GPL files, see my last mail).

There are many many permutations on essentially the same license terms, but I have been pedantic and treated slight differences as separate licenses.

Here is a description of the process I used:

tar xvjf /usr/portage/distfiles/xorg-server-1.1.1.tar.bz2

cd xorg-server-1.1.1
find -name "*.c" -o -name "*.h" | xargs gvim

egrep -Rli "permission|copyright" | grep -v "\.[ch]" \
  | grep -v "\..in$" | xargs gvim

cd..
tar xvjf /usr/portage/distfiles/xorg-server-1.3.0.0.tar.bz2
diff -urNp xorg-server-1.1.1 xorg-server-1.3.0.0

git clone git://anongit.freedesktop.org/git/xorg/xserver
cd xserver
git diff xorg-server-1.3.0.0..

For each file, licenses have been aggregated as follows:

If 2 files have identical license text but different copyright notices, the copyright notices are aggregated and the license text is included only once.

Note that by identical I mean really identical, i.e.:
'AUTHOR(S)' is not the same as 'AUTHORS'
'KEITH PACKARD DISCLAIMS' is not the same as 'KEITH PACKARD AND COMPAQ DISCLAIM'

Otherwise, licenses and accompanying copyright notices have been stacked.

When going through the changes from 1.1.1 to 1.3.0.0 then HEAD, licenses have been added and removed (so I have reflected this since the original version of my COPYING file). It's slightly concerning to see that even between 1.3.0.0 and HEAD, new license permutations are being added. I'd suggest that a primary license be chosen and this would be indicated at the top of this COPYING file.

commit 51b735394f0aa9f953f9c320617c7a56028ec458
Author: Daniel Drake <dsd@gentoo.org>
Date:   Mon Apr 30 11:37:46 2007 -0400

[PATCH] xserver: Add COPYING terms

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cd xorg-server-1.1.1
find -name '*.c' -o -name '*.h' | xargs gvim

egrep -Rli "permission|copyright" * | grep -v "\.[ch]" \ | grep -v "\.[in]$" | xargs gvim

cd ..
tar xvjf /usr/portage/distfiles/xorg-server-1.3.0.0.tar.bz2

commit 7fa58385724fa7f441107a1793b601ba3dcb1f4c
Author: Arkadiusz Miskiewicz <arekm@maven.pl>
Date:   Wed Aug 1 08:01:28 2007 +0300

XFree86: xf1bpp: Fix parallel build

One of the constructs wasn't parallel-build safe: fix that.
Darwin: Remove missing file

Xserver.m is missing and still hasn't been added, so just remove it for now.

Config: Add missing include

Config: Add current FDI file

Add the FDI file we're using at the moment, until it gets into upstream HAL.

Config: Fix merge detritus

Input: Fix stuck modifiers (bug #11683)

Disclaimer: It's 6:51am. I'm trying to be as understandable as possible.

What was happening previously was this:
* Press Alt
* Extended event generated and processed: state is now Alt down once
* Core event generated
  - keyboard switched: inherited state is Alt down once
  - event processed: Alt down twice
* Release Alt
* Extended event generated and processed: state is now null
* Core event generated and processed: Alt down once

If we switch the order:
* Press Alt
  * Core event generated:
    - keyboard switched: inherited state is null
    - event processed: Alt down once
  * Extended event generated and processed: state is now Alt down once
  * Release Alt
  * Core event generated and processed: state is now null
  * Extended event generated and processed: state is now null

When we carry over the previous state, it needs to be the _previous_ state
(state and modifiersPerKey), assuming that we're going to catch now-core
events for any of these. For example, if Ctrl is held down as we pivot, we
need to carry Ctrl over with a count of one, for which an extended + core
release will then clear. Carrying over the union of the previous state _and
the state resulting from the immediate action_ was what broke things.

commit 0e0174d45ecbeb7b6dddc4af53da9d6211038e0e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 03:30:07 2007 +0300

    XFree86: Allow disabling of HAL

    If NoAutoAddDevices is given as a server flag, then no devices will be added
from HAL events at all. If NoAutoEnableDevices is given, then the devices will
be added (and the DevicePresenceNotify sent), but not enabled, thus leaving
policy up to the client.

commit cd8e99e56ec5d02026e401cc15e0f8d75f2a4727
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 03:29:12 2007 +0300

    Input: Don't enable devices when we open them

    Thanks to Xi's braindead design, it's otherwise impossible to query input
devices without enabling them. Hurrah.

commit 0a31db14b7c7e21ef550dbccc73a9f649f3613cbe
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 02:54:14 2007 +0300

    Config: D-Bus core: Fix hook removal

    Make sure we properly initialise the entire hook when adding it, and
bust out when we're done removing.

commit 89f628394f7d831f2ba1e45c5884c3983bef6031
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 02:08:02 2007 +0300
XFree86: Input: Fix whitespace

commit aec0d06469a2fa7440fdd5ee03dc256a68704e77
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Tue Jul 31 16:33:37 2007 -0700

Fix a crash when rotating the screen.

Remember output->crtc before setting a NULL mode because RRCrtcNotify now sets
output->crtc to NULL. Use the saved crtc to set the new mode.

commit a93033b0bc14ed0bb95e680ded26b63cfe5fd1d3
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 01:53:08 2007 +0300

XFree86: Module: Bump input version

  config_info changes the size (and ordering) of DeviceIntRec, so bump the
input major.

commit 1150969b826e2bd6d8345fa245ed499f2e4cf101
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 01:52:20 2007 +0300

Convert all my license statements to the standard form

Convert all my license statements to the standard, accepted form:
cf. <20070717142307.GD13478@fooishbar.org>
keithp's license on configure.ac changed with his verbal permission.

commit 8658f5d923a69fb55b4cd9e1e84c2d271679f6e2
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 01:10:50 2007 +0300

Hotplug: Add HAL support

Add support for HAL-based hotplugging, in which we just get the list of
input devices and properties from HAL. Requires an FDI which is not yet
in mainline HAL.

commit aa75b3481724834da2f855d8dd2ff36074bd5706
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 1 01:09:07 2007 +0300

Hotplug: D-Bus: Dispatch harder
Dispatch until we've got nothing left to dispatch, since apparently
dispatching will only ever fire a single message ...

commit 4d238c5c67461ed747aa6c021d1532734f4c63fe
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 01:08:26 2007 +0300

Input: GetPointerEvents: Deny events from devices without valuators

For some reason, my keyboard has 25 mouse buttons, but zero valuators. This
causes GPE to blow up spectacularly, trying to get (and set) co-ordinates from
devices without valuators. For now, just prevent this from ever happening,
and whack a dirty great FIXME in.

commit 7c9e8fd56e1830f7a971187d14877e9b5f35c4b0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Aug 1 00:19:14 2007 +0300

Input: Allow enabling and disabling of devices

Add DEVICE_ENABLE to KDrive and XFree86 to allow us to enable and disable
devices on the fly.

commit 0afeb0241a83796575da827bd81375c99ff10af5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 8 20:48:57 2007 +0300

DIX: Clean up null root cursor handling

Move the null root cursor handling out of main() and into CreateRootCursor.

commit 62ec6d09b3adaea82ff52c8672e6f11c15ec56d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 8 20:47:28 2007 +0300

dix.h: Remove duplicate ffs() prototype.

commit 4d3379d418a781938358e511fd41deb4115a032c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 8 14:31:35 2007 +0300

Fonts: Fix built-in fonts

Make sure the font path is always 'built-ins' when we use built-in fonts,
rather than having it as a fixed path for a while, then clobbering it
halfway through startup.
commit 9ac7e8a559fe6008cafc95e8264680c50e72ba19  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Jul 8 14:30:53 2007 +0300  

Hotplug: D-Bus: API version 2  

Use uint32s instead of int32s where practical, and add an API version  
request. Also, try to return all devices added, not just the first,  
and box device arguments.

commit 1cdadc2f43d9069572814510d04b1a560c488fcb  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Jul 8 14:28:58 2007 +0300  

Hotplug: Separate D-Bus into core and hotplug API components  

Break up D-Bus into two components: a D-Bus core that can be used by any  
part of the server (for the moment, just the D-Bus hotplug API, and the  
forthcoming HAL hotplug API), and the old D-Bus hotplug API.

commit 8bfa41e1bf3f588780d7e9f6f900b1fde0570a7e  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Jul 8 04:29:43 2007 +0300  

.gitignore: Add automake lex/yacc wrapper

commit 06dd2748daa8b7af343f6cab409b9f351567de5f3  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Jul 8 00:27:40 2007 +0300  

configure.ac: Properly check XFree86 proto modules  

Not sure why these are conditionals, anyway. This one really needs  
revisiting, but at least causes configure, rather than the compilation,  
to bomb out.

commit fd10312b4224197b937d9e696b53dc2a16c8912f  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Jul 8 00:26:26 2007 +0300  

configure.ac: Fix KDrive VESA/fbdev conditionals  

Make sure we actually respect anything explicitly given on the configure  
line, instead of just stomping it with what we detect.

commit f37612c6f2375ca90441e6caaa0be19fa24f032c  
Author: Nicolas Trangez <eikke@eikke.com>  
Date:   Sun Jul 8 00:23:57 2007 +0300
Hotplug: Remove unused function definition from hotplug.h

cfgdispatch hasn't been used in a long time.

commit 951c058e78003087c472e77178c14400f45c1b3
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Jul 31 14:23:58 2007 -0700

Don't fail compScreenInit if the driver added its own alternate visuals.

commit 722d73a0ef54c2ebd8ef38c4a6afa0e7c5aa3e30
Author: Dave Airlie <airlied@redhat.com>
Date:   Tue Jul 31 10:34:56 2007 +1000

Revert "Fix RandR 1.2 conversion of two colour to ARGB cursor on MSB first platforms."

This reverts commit 0f057ebb272f0ee0b51b9ab37d4b07da0924fec4.

This screws my cursor up just starting a bare X server on Intel, I get the X more like <> than ><..

commit 57b5b97a0710fc043b8a1c01d756cdb73dfe4567
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Jul 29 11:02:47 2007 -0400

ReduceCompositeOp returns a Render op, not a boolean.

commit f62beb6f3609e8b6e61325ac89017590811bbd07
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Fri Jul 27 13:23:15 2007 -0400

Remove all trace of Option "BiosLocation".

This code was deeply dangerous. If anyone actually had a use for this code, we should find a better way of doing it.

commit 486fd4145aed93093d1f1655de40c0a8582bb8b1
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Fri Jul 27 13:10:39 2007 -0400

exaGetPixmapFirstPixel: avoid framebuffer readbacks if possible.

If the pixel in framebuffer memory isn't modified since we uploaded it, we can just read from the system memory copy, which avoids both a readback and an accelerator stall.

In principle this function is still wrong, and all the framebuffer pixel
access should be going through (w)fb so we can get pixel layout corrections.

commit 50cb6c7e4419e067c1f080d1de940811d21fc725
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Jun 15 15:29:00 2007 -0400

Don't map the front buffer in libdri if the ddx driver doesn't set the size.

This lets drivers map the front buffer themselves
by setting dontMapFramebuffer.

commit cec793ef7a6dae9fa2a6538683c363a72672cde9
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 26 11:49:46 2007 -0700

Include picturestr.h in xf86Crtc.h to pick up definition of PictTransform.

commit 27845fe197b74bf453d99f352e83513e201fdaae
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jul 26 09:32:16 2007 -0400

libconfig shouldn't be an installed library.

commit 276f8e2ca42e9c98d16b86d67217d68ff98f81d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jul 25 17:42:23 2007 -0700

Include comment/copyright/license for AC_DEFINE_DIR in acinclude.m4

commit eba2be448bdd298ff2f7b8603bd9e976da1fd72
Author: Brice Goglin <Brice.Goglin@ens-lyon.org>
Date:   Wed Jul 25 20:53:45 2007 +0200

Minor fixes in cvt and gtf manpages

Reported by "A. Costa" <agcosta@gis.net> in
http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=432065

commit 8d230319040f0a7f72231da2bf5ec97dc3612e21
Author: Gustavo Pichorim Boiko <boiko@mandriva.com>
Date:   Tue Jul 24 16:19:19 2007 -0300

Fix the output->crtc initialization in the old randr setup

commit 0f057ebb272f0ee0b51b9ab37d4b07da0924fec4
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jul 25 17:04:04 2007 +0200
Fix RandR 1.2 conversion of two colour to ARGB cursor on MSB first platforms.

Doesn't seem necessary to do anything here...

commit 5b424b562eee863b11571de4cd0019cd9bc5b379
Author: Gustavo Pichorim Boiko <boiko@mandriva.com>
Date:   Mon Jul 23 18:27:41 2007 -0300

Set the crtc before the output change is notified

Set the new randr crtc of the output before the output change notification is
delivered to the clients.
Remove RROutputSetCrtc as it is not really necessary. All we have to do is set
the output's crtc on RRCrtcNotify

commit 7da38bb6a15247948c90e00a59230453fcf13cbd
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Jul 21 15:27:40 2007 -0400

Partial redundancy elimination in PropertyNotify generation.

commit 0f91ab5c68eb044d09733d18ef0f6b8ed128200
Author: Julien Cristau <jcristau@debian.org>
Date:   Thu Jul 19 20:37:26 2007 -0400

Fix alpha build failures

Don't include <asm/pci.h> in os-support/linux/lnx_axp.c, use "lnx.h" and
<unistd.h> instead

commit dc9c5196282ba61bd542e198dfe0d53d93181591
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Jul 19 13:28:00 2007 -0700

Make PreferredMode option in config file override EDID mode preferences.

When the PreferredMode option is selected in the config file, remove the
M_T_PREFERRED bit from all other preferred modes to force the config file
mode to be selected.

commit 73a93c5a6b68f7ba21f9e755f0b1032603a3b39e
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Jul 19 13:26:36 2007 -0700

Query modes on disabled (but not ignored) outputs.

Code that disabled mode detection on disabled outputs would confuse
applications by listing said outputs as connected but without any modes.
This makes the disabled state in the config file affect only the initial configuration and not subsequent modifications by RandR.

commit 9fc36a391c11170cde1a28f548a2cae5ff620d5b
Author: Keith Packard <keithp@neko.keithp.com>
Date: Sat Jul 14 12:36:15 2007 -0700

Make pending property changes trigger mode setting.

The DDX code was ignoring pending properties for computing when mode setting was required. This meant that configurations differing only in property values would not cause the mode to be set.

commit aed6569309223ecc7e26fa84e4d430e422455607
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Sat Jul 14 15:21:46 2007 -0400

Refactor how Composite adds visuals to the screen.

Besides being slightly simpler to read, it's now trivial to add a depth-16 visual to a depth-24 screen just by adding a line for it in the alternate visual list. Visuals for indexed depths are slightly tricky still.

commit 21bbd7d64b5f74915af7a312e589654442f3461
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:42:50 2007 -0500

Delete some pre-dlloader debugging scaffolding.

If your loader is as bad as elfloader, then it makes sense for the server to have some stubs for you to assign to / break on. However it is no longer 1996.

commit 1f71f0e0574bafb36da20fecd669f9a1138c69a47
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:28:03 2007 -0500

Remove (long-)deprecated xf86EnablePciBusMaster.

commit 0a63d874e9c2f4e4b38839a744461f9d41040b2
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:22:49 2007 -0500

Always normalize the module name.

commit 9a1c6afdl2caf0143483f72bfbb0c4c3dada6ff
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:19:50 2007 -0500
Remove dead code for screen crossing.

commit 8ca2fe8914af1a67bf597f99025e5cbe9b08da57
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:11:13 2007 -0500

Delete dead module test code.

commit e2413cc7cae4e578b8e9b408ea85bef596b03ea3
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:07:37 2007 -0500

Remove MEMDEBUG

This existed (but may not have worked) in the monolith, but is gone now.

commit d1d65a84150dfbc3a4dbe108f237a85ab6e09bbb
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 21:01:08 2007 -0500

Dead ifdefs for BITMAPSCANLINE_UNIT == 64

This appears to be a legacy of cfb24 not being smart enough to deal with this case. But since cfb24 unexists, die die die.

commit cbe74394a5ed21ed80c0aab6eefd2716122ce11
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Feb 6 20:44:34 2007 -0500

Nuke dead X -configure code.

commit 5657fb065cc79ba3ca5a836f45637ba9894f9abf
Author: Dodji Seketeli <dodji@seketeli.org>
Date: Tue Jul 17 12:12:02 2007 +0200

exaDriverInit: Fail if pScreenInfo or a member of it is invalid.

EXA may attempt to use the invalid value and crash otherwise.

commit bbe7ce10fa93017374d7a4611427b70a22d7507a
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Jul 16 17:25:59 2007 -0700

Update pci.ids to 2007-07-16 snapshot

Remove nvidia ids in extrapci.ids that are now in pci.ids
Add nvidia ids to extrapci.ids that are in xf86-video-nv but not pci.ids
MakeAtom needs length without trailing NUL. sizeof("string") includes NUL.

I made a mistake in some new code using MakeAtom, passing the size of the string instead of the length of the string. Figuring there might be other such mistakes, I reviewed the server code and found four bugs of the same form.

Add RandR reflection support.

Replace the ad-hoc transformation mechanisms with matrices. Prepares for more general transformation as well.

Screen size bounds check in ProcRRSetCrtcConfig not masking out reflections.

When checking how to validate the selected mode and position against the current screen size, the test against 90/270 rotation did not mask out reflection, so that when reflection was specified, the 90/270 test would never succeed. This caused incorrect bounds checking and would return an error to the user instead of rotating the screen.

When syncing logfile, also flush it.

When the logfile is set to sync, the actual sync occurs whenever the log file is flushed. If the log file is not also set to flush, no syncing occurs.

Use %S instead of %s for strftime seconds when printing build time.
commit c0e91777a9874fe2cd9a7e9180263f512c1e8f8d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Jul 12 16:37:11 2007 -0700

Add __SOL8__ to xorg-server.h.in since xf86-input-kbd needs it to build

commit 6b4231e3b5b49b731c9a00930ae465fff8539831
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Jul 12 16:36:27 2007 -0700

Use kbd driver when xorg.conf specifies "keyboard" or "Keyboard" (bug #11301)

X.Org Bug #11301 <https://bugs.freedesktop.org/show_bug.cgi?id=11301>
Sun Bug #6560332 <http://bugs.opensolaris.org/bugdatabase/view_bug.do?bug_id=6560332>

commit 9fcb30ebf7b2137955f759e95c1d58c4f27a11
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Jul 12 13:00:32 2007 -0700

Make SOLARIS_INOUT_ARCH substitutions work better with automake-1.10

commit 7c0ca27f6dd0a800dec27429a33dbc8e133f9a9e1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jul 11 17:15:29 2007 -0700

"fbpict.c", line 215: void function cannot return value

commit 0a4e9311158ed3ecda072264of860ace2f87a97e
Author: Hanno Boeck <hanno@gentoo.org>
Date:   Thu Jul 12 10:17:07 2007 +1000

xnest: fix linking since dbus

Fixes bug 8955

commit b2f9ca6ac400d426d7a1ef0162f7ec28288dd1
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Jul 10 21:33:34 2007 -0700


A window with redirect manual *and* redirect automatic which loses the manual redirecting client becomes redirect automatic.

commit 561989f2f0fc31e3d3bf8df978a9cb3d4c85af59
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Jul 10 21:06:51 2007 -0700
Generate ChangeLog file for make dist.

Copy Makefile.am snippet which generates a complete git change history to the ChangeLog file during the distribution generation process.

commit e316fa59fea8b7b18cdf3a227890351a9567ec65
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Tue Jul 10 14:20:55 2007 -0400

Add per-monitor config file option for maximum pixel clock.

commit ffdf8f3e452638e6b050fccabec465d6c0300f45
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jul 10 13:56:38 2007 +0930

DeliverEventsToWindow: ensure that genericMask has a defined value.

commit 161624a5a45808fd56141de2c64be729944f03ed
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Jul 10 09:02:40 2007 +0200

GLX: Only build code dealing with GLXPixmap damage field when DRI is enabled.

commit 4abd00dab7e648dab8172f6009371e4e63d0c521
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Jul 10 09:02:08 2007 +0200

Make sure DRI drawables are cleaned up when client dies.

The previous scheme didn't work when the client didn't create the core drawable, e.g. the root or composite overlay window. Use refcounting via special client resources to fix that.

commit 583e988b9f7c9b9293144e8309023e0dd1766715
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jul 10 09:19:02 2007 +0930

Install geext.h, otherwise drivers won't build.

commit 9809715afaafae9baf2aef348c1ebda7e8b3f076
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jul 9 10:42:03 2007 +0930

Change CheckMotion to ignore non-pointer events but acknowledge XI events.

Call CheckMotion from ProcessOtherEvents() to make sure absolute XI events update the sprite before an event is sent.
DeliverGrabbedEvent: stop segfault when gemask == NULL.

Call CheckMotion for all core events.

We need to do this to update the sprites x/y coordinate before we assemble a button event. Absolute devices may send a buttonEvent with valuators attached. If we don't update the sprite before assembling the event, the valuators are lost and the button press is delivered to the previous position of the device. Doesn't have any effect on relative devices.

ProcX{Change|Query}WindowAccess: change device list from char* to XID*.

Fix regression from recent composite changes.

One pWin->redirectDraw test was converted incorrectly, causing incorrect rendering in some cases.

Use the same struct for generic event masks throughout the code. Renaming those structs too.

Previously grabs were using a different struct than windows, which was reasonably stupid.
Clean up unused #ifdefs from fb.

commit 9ff7ff2fda30f334515b16eff0867c1500c41bc0f
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Wed Jul 4 23:38:27 2007 -0700

Fix MEMORY SMASH in XkbCopyKeymap.

XkbCopyKeymap reallocates the destination keymap when it is not large enough to hold the source data. When reallocating the map->types data, it needs to zero out the new entries. The computation for where to start bzero'ing was accounting for the size of the data type twice, once implicitly in the pointer arithmetic, and once explicitly with '* sizeof (XkbKeyTypeRec)'. This would often lead to random memory corruption when the destination keymap had existing map->types data.

commit 9131d560a0d42067cc4e726e445e060216c9acdc
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Thu Jul 5 02:47:34 2007 -0300

Postpone options variable assignment to fix segfault when we got a device but its driver is incorrect. Also if (!ki && !pi) can never be true.

This one also adds the device option field.

commit 41b485d5507821e41c3281c3c565647ae7582101
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Thu Jul 5 02:40:07 2007 -0300

kdrive must to know that devices are unplugged.

commit a92dc6b5295e4f352115fed2856169929819863f
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Thu Jul 5 02:28:14 2007 -0300

Remove redundant linking in kdrive. Fix configure.ac variable name and clean it up a little.

commit 41b5155c8be75c4e171c0f64616cc09598b8ec54
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Thu Jul 5 01:57:41 2007 -0300

For each kdrive server put a dependecie on its own libraries.

commit 16e429bcbf2f62cfc58162ab2857af87376dda41
Author: Jonathan Lim <jlim@sgi.com>
Date:   Wed Jul 4 20:08:49 2007 +0200
Bug 5000: Fix domain support for SGI Altix

commit f106c04b627d9f57b38627971dc79c75129e66d6
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Jul 3 14:47:19 2007 -0700

Have Composite always report server version.

It was reporting the lessor of the server and client versions, which doesn't
make sense with the 0.4 semantic change in clipping.

commit 4f88d68dbb90cc7d12170355105b4d020acd306
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Jul 3 14:43:17 2007 -0700

Force advertised Composite version to 0.4 instead of using header version.

Installed protocol header version may be newer than the server code base.
Use internal version number for Composite extension to make sure the server
doesn't advertise capabilities it doesn't support.

commit 866f092ca0160a366add01b48ad03438926c4d16
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Jul 3 14:29:11 2007 -0700

Make Composite manual redirect windows not clip their parent.

This patch changes the semantics of manual redirect windows so that they no
longer affect the clip list of their parent. Doing this means the parent can
draw to the area covered by the child without using IncludeInferiors. More
importantly, this also means that the parent receives expose events when
that region is damaged by other actions.

commit 2a75c774975b50dd4e71b7dbea7bd65ca2984a43
Author: Dodji Seketeli <dodji@seketeli.org>
Date:   Tue Jul 3 11:00:29 2007 +0200

ExaOffscreenMarkUsed: Don't crash when there's no offscreen memory.

commit 0ede39a25cf5b0b6c2c89677f810c21ce42b95df
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Jul 3 10:55:13 2007 +0200

Fix build when int10 doesn't use x86emu.

commit 028a00bce518dc6908839e8ce7c50ab1837100945
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Mon Jul 2 18:41:55 2007 -0400
Make x86emu's I/O cycle tracing more useful.

Print debug messages only when the appropriate debug bit is set in the 8086 state vector, so you can focus in on the call you're actually interested in.

commit 00e8295b7e0c7c0ba97707903004272818e3d87d
Author: Gero Mudersbach <geroxp@web.de>
Date: Mon Jul 2 11:40:11 2007 -0700

Bug #10814: Add needed quirk for Samsung 225BW like the 226BW.

commit 667e95f2e8389d9f23c50446d6d64eddd16d260
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jul 2 11:36:11 2007 -0700

Correct the xf86EdidModes.c file description.

commit 3de1f0d03b329b01856f64651db23ffefb58646
Author: Eric Anholt <eric@anholt.net>
Date: Tue May 29 10:08:58 2007 -0700

Fix documentation of association of outputs to monitor sections in xorg.conf(5)

commit c1a16bdcfe7aa907fe78f27dc606a8e5a2699952
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 27 18:08:03 2007 +0930

Add 'evfill' field to GEExtensions.
We need this to allow extensions to fill in extra data for an event before it is sent to the client. This is probably to be used like FillUpEventsFromWindow().

commit 4d76075dbb618a47ff9fc15e4be2e2d34210fa8d
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Fri Jun 29 14:06:52 2007 -0400

Death to RCS tags.

commit 2691c05fd647d9fa10f791ac397ecb9e423a076f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jun 29 11:56:18 2007 +0930

Make sure window->optional is allocated before assigning it.

DeletePassiveGrabFromList() may remove the window optional, so we need to re-alloc it if it isn't there anymore.
Thanks to Colin Harrison for spotting the bug.

commit f7f3fe7fe7233a2ffe43106ce48f44cbbd82b7c19
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jun 28 18:59:05 2007 -0400

Remove the remnants of OS/2 support.

This has never worked in any modular server release, and as far as I know
was never tested in 6.7 through 6.9.

commit 8a06ff9ffa4816d192e58e43e7fe569b97b4dd7c
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jun 28 16:41:28 2007 -0400

Fix another usage of MAX_PCI_DEVICES.

Fixes cases where the VGA device is above the 128th device on the system.

commit 928836a5ab85466e920eb487fab9c9cb295e0c5b
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jun 28 16:29:28 2007 -0400

Bug #10770: "Inputdevs" isn't a valid config file keyword.

commit 62f43d8d8b33f67d8f3d0bd65787f9ae9e6b634d65
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 27 16:24:42 2007 -0300

Relink properly all kdrive servers when changes happen.

commit 3860999d5666b76600b1537e2ebd58e36b086308
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date:   Wed Jun 27 16:06:12 2007 -0300

Remove double-defined.

commit 1e189ed1daab58c1de67d387306fde0a9e7984a4
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Jun 27 10:16:40 2007 -0700

Handle tileStride > 1 in fbEvenTile.

Patch courtesy of James Jones.

commit bf1ad1aa4270dccc1f540943d97e80b317c0adb56
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Add VBE PanelID support.

Originally found only in the i810 driver.

commit d73835efda4995a310188537233a984f4b73628d
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Jun 27 03:34:13 2007 -0300

More janitor work. Remove 'defined but not used' warnings from kdrive and some minor cosmetic.

commit 38f8e536684193c3f70b23be22d818053c676072
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Jun 27 03:19:37 2007 -0300

Janitor work. Remove 'defined but not used' warnings from xorg and other cosmetic.

commit 1340f34ec98c41781164018d43bd7bb858d8132b
Author: Tiago Vignatti <vignatti@c3sl.ufpr.br>
Date: Wed Jun 27 03:04:55 2007 -0300

Fix kdrive XKB.

commit 08779c62ba2f4cbfa47e3cf738da8abd74b60cf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jun 27 11:16:55 2007 +0930

Reset grab->next to NULL when we're creating a grab.

This is definitely necessary in CheckDeviceGrabAndHintWindow (thanks to Paulo Zanoni for spotting it). We're resetting it everywhere else too, just to be save.

commit 49136d3e9fe2d065090ee90c18a49f65fb027c9f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Jun 26 19:43:54 2007 +0930

mieqEnqueue: use modulo for queue tail wrapping.

This was previously committed by Michael Daenzer, but was lost during a pull.

commit 8396bf7c8b4eb6b8f2d1e1ef19887064c69591da
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Jun 26 12:58:37 2007 +0930

Init genericMasks to 0, make sure list is NULL terminated.
Split checks for dtrace & getpeerucred()

Make sure DRIScreenPrivIndex is -1 when no DRI screen private is allocated.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=11340

Quickfix to stop core key events from doubling up.

cfgFiles(): don't return anything when declared as void.

NULL-terminate device list when synthesizing core devices.

This fix is required for 93ca526892c0d22afa05ccee6496198e652043a19 to work.

Set the detail field for DeviceKeyEvents to the keycode.

Only decrement buttonsDown when the button count is greater than 0.
Device drivers flush their buttons on device init and cause a button down event to be generated. If we unconditionally decrease the buttons, we won't be able to ever get a passive device grab.

Format documentation for CheckDeviceGrabs to make it readable.
(cherry picked from commit 3e894974cddf6a75683d4601f71622d1da7ec4395)

Conflicts:

Xi/exevents.c

commit 24ee89fd60f489f2d3af0399e0d667057df74d02
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 19 15:31:56 2007 +0930

Add a few comments to devices.c

commit 93ca526892c0d22afa05ccee6496198c652043a19
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jun 13 15:28:15 2007 +0930

Split up memory for devices configured in the config file.

If we're using a continuous block here, we segfault when a device removal triggers an xfree call.

commit b141b85c254aff3ce2221d899787fab3dc295bd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Jun 13 15:26:03 2007 +0930

Check for identical grabs when adding a new passive grab. If an identical grab exists, remove the old one and prepend the new one.

X.org Bug 2738 <https://bugs.freedesktop.org/show_bug.cgi?id=2738>

commit 19cde59c41cf167cc609debfee75bfc015beac12
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri Jun 22 00:38:50 2007 -0400

In fbFill() make sure the drawable is validated when pixman_fill() succeeds.

In fbSolidBoxClipped() don't return when pixman_fill() succeeds.

commit d2177c80915f2fe2e8a5c948d4ba2fa51dbfba2
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Fri Jun 22 02:08:21 2007 +0100
Skip driver mode detection/configuration when !vtSema.

When the server is not active, make sure the driver functions related to mode setting are not called.

commit 32c0dccc8c0d1edba5d7e418fd2de916847a4f069
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jun 21 15:39:19 2007 -0400

xselinux: adjust the config file format to that expected by libselinux.

This file will eventually be moved out of the X source tree.

commit 2030e9e5395be43bd8eab15b65c21c4a2e6f19
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Jun 21 15:37:18 2007 -0400

xselinux: use new libselinux support for context labeling.

Remove all the config file parsing code and use the new lookup interface instead.

commit 4d5df14f4f2c4a3108a8c8adfcf4766c0d1a9daad2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 21 18:24:30 2007 +0930

Save processInputProc before wrapping it and restore it later, instead of using a hardcoded ProcessKeyboardEvent. Otherwise we lose the ability to process DeviceKeyEvents after the first key press.

This should be the correct fix now.

commit f6f3322fc7562dbfccaf798b05d42ea222860ba8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 21 18:16:21 2007 +0930

Revert "Save processInputProc before wrapping it and restore it later, instead of"
Mixed up source trees, this was a very bad fix.

This reverts commit 8431f6083076cf1e701366767d8f8d32a628200f.

commit 8431f6083076cf1e701366767d8f8d32a628200f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 21 17:00:41 2007 +0930

Save processInputProc before wrapping it and restore it later, instead of using a hardcoded ProcessKeyboardEvent. Otherwise we lose the ability to process DeviceKeyEvents after the first key press.
commit 0c33dc152e372cdc8ae59d9a5696b0774bcd03b7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Jun 21 15:47:48 2007 +0930

Set the detail field for DeviceKeyEvents to the keycode.

commit e523859a952d49b20f3d10152cc0ef695d2e12a1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 20 17:54:38 2007 -0700

Include module name in "already built-in" message

commit 5138f710a1574ef6f553f3fe2fcccac0620d2584
Author: Arcady Goldmints-Orlov <arcadyg@nvidia.com>
Date:   Wed Jun 20 16:31:55 2007 -0700

Fixed fbSolidBoxClipped() to fill the right place.

Changed an X2 to a Y1.

Signed-off-by: Aaron Plattner <aplattner@nvidia.com>

commit c9b79a355845c895aca8303a39798264d80b6212
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jun 20 18:56:06 2007 +0200

exaPolyFillRect: Don't track damage explicitly.

All callers should already do it.

Also don't leak pReg.

commit 87966c5d2889873cea6cbe16b7e4399490dfaec1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Jun 20 18:42:00 2007 +0200

exaGetImage: Don't migrate or try to accelerate for 1x1.

This is mainly to avoid wasting effort for XSync(), but just reading a single
pixel directly is probably faster than DownloadFromScreen anyway. Though in
light of the latter, even larger thresholds might be useful.

Also move the swappedOut check before the migration checks because migration
can't actually occur when swapped out.

commit 1f97a7647606226cde61d6ad7a94f2b0b571a06c
Merge: 5dee64fe99 2e7fe7d08
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  36269

Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 19 17:20:52 2007 +0930

Merge branch 'master' into mpx

Conflicts:

dix/devices.c
hw/xfree86/common/xf86Xinput.c
hw/xfree86/loader/xf86sym.c
mi/mieq.c

commit 40f27a2df4906d9ceeb1c78f6163a62c497321535
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Jun 19 09:11:16 2007 +0200

mieqEnqueue: Make local queue tail variables unsigned.

So the modulo arithmetic actually works as intended... thanks to Peter Hutterer
for pointing out the problem.

commit 5dee64fc99f34e091abce65d47c4b6f026ab4849
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 19 11:31:22 2007 +0930

Add a few comments to ProcXGrabDevice.

commit 9e257029c760883c4ea0715d4fd06476f3fe8053
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 19 11:28:07 2007 +0930

Add implicitGrab field to GrabInfoRec.
Is set when passive grab is implicit as result of a ButtonPress event. If this
is the case, we need to store the XI mask as well as the core mask to ensure
delivery of XI events during the grab's lifetime.

Remove all core grabs on other devices when client issues a GrabPointer or
GrabKeyboard request. Let's assume that the client really only wants one
device to interact, so this seems like a reasonable solution.

commit ab7a6d860d4a275a810a64b1b7b13726ed10575
Merge: e9130b8bac 2e7fe7d08
Author: Ian Romanick <idr@us.ibm.com>
Date:   Mon Jun 18 16:51:13 2007 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:
commit 2e7fe7d0837939e822c40b6ac77e7f0e66d57bd
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Mon Jun 18 12:08:39 2007 -0400

Make xf86{En,Dis]ableInterrupts no-ops on Linux.

commit 831d3b78d053aba649c8d04af3bef96376bdc3a
Author: Lennart Buytenhek <buytenh@wantstofly.org>
Date:   Mon Jun 18 12:05:55 2007 -0400

Compile fixes for Linux ARM platforms.

commit 562ca3f2f9005e7c5ed0a24b0759051ded2173e9
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 18 12:00:49 2007 -0400

In NewInputDeviceRequest, only call EnableDevice if xf86Screens[0]->vtSema is
true, preventing unwanted behavior in the case where a device is added while
the user is in a different VT.

commit 3e894974cdd6a75683d4601f71622d1da7ec4395
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Jun 15 17:16:16 2007 +0930

Only decrement buttonsDown when the button count is greater than 0.
Device drivers flush their buttons on device init and cause a button down
event to be generated. If we unconditionally decrease the buttons, we won't be
able to ever get a passive device grab.

Format documentation for CheckDeviceGrabs to make it readable.

commit 42c2e14b254f6f882b3e79444360ab855db43e27
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Fri Jun 15 00:14:02 2007 +0200

swap xOrigin and yOrigin in SProcRenderSetPictureClipRectangles.

Fixes Xrender clipping rectangles when X server and client are of
different endianness, shown by xterm 225 among others.

commit 0aaf51546666f71e8d1711978bc7988ec2ec7d9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Jun 12 16:55:26 2007 +0930
Zero deviceMask and genericMask when creating a grab via CreateGrab().

commit 78179ae827bb5d19abb1340084362bc51ad5c1e5
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 22:46:42 2007 -0400

    Remove fbmmx.[ch] files

commit eb2d7fe02f9c7bca57b462bba05498e2d59316fbc
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 22:43:01 2007 -0400

    Replace fbFillmmx() with pixman_fill() and remove fbmmx.[ch]

commit f52ae237d3eece79ccdf64cd77271aeacc37af70c
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 22:02:39 2007 -0400

    Require pixman 0.9.2

commit d1d85c0e4e248f46b1cf1b1d25fdd56aa69b8f0ee
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 21:25:42 2007 -0400

    Delete fbBltmmx().

commit e2a720e9a17dc860ee0a858c2b21f71e86cdd0
Merge: 878cac71aa 3f9adb18f1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Jun 11 15:29:11 2007 -0400

    Merge branch 'master' into XACE-SELINUX

    Conflicts:

        dix/dixutils.c

commit 3f9adb18f127318d054f30a57e3a77176e14c692
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 15:19:27 2007 -0400

    Port a few forgotten fbSolidFillmmx()'es to fbFillmmx(). Use pixman_blt() instead of fbBltmmx() in fbCopyNToN().

commit 878cac71aa0018dee861b297638c0744dba631b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Jun 11 14:19:37 2007 -0400
xselinux: use new libselinux support for private Flask definitions.

Removes indirect dependency on kernel headers.

commit d06099b38e8445e6e31f5178ffefcc31a71080ef
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 13:28:24 2007 -0400

Remove fbCopyAreammx() and fbSolidFillmmx() 

commit d4a034370c8ae71b2cc4fe824ceee58b19624f35
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 13:26:24 2007 -0400

Split fbSolidFillmmx() into a new FbFillmmx() function. Call that from fbFill().

commit 3210902a7334f3d8d6e18a34a3cb3f55803b0043
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 13:14:50 2007 -0400

Split fbCopyAreammx() into a new fbBltmmx() function; call this function from fbCopyNToN().

commit 8d5f4368eac1b259db3e61f877a4cc10f04efa2f
Author: Clark Rawlins <clark.rawlins@escient.com>
Date:   Mon Jun 11 16:53:38 2007 +0200

Really make sure BUILD_TIME doesn't have a leading zero.

date +'%k%M%S' still gives a leading zero in the hour after midnight...

Add a leading 1 and remove it in xf86PrintBanner().

commit 54e023cecc07aa7e392da36e11d0a4667b8341370
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon Jun 11 09:16:46 2007 -0400

Don't pass regions to pixman_image_composite() anymore.

commit 5cbec267b6426960c90f6bcaff1d051af5084538c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 12:38:41 2007 +0200

Make sure BUILD_TIME doesn't have a leading zero.

It causes the compiler to treat it as an octal constant instead of decimal as intended, which could even cause a build failure in the cases of 08 and 09.
Thanks to Clark Rawlins for pointing out the problem.

commit 1aceec61ff203848576c47a1eab13f90a67d7176
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 09:23:19 2007 +0200

DRI: Clip cliprects obtained from DRIGetDrawableInfo to screen dimensions.

This is to avoid issues with redirected windows which are located partly or
fully outside of a screen edge, resulting in unusual cliprects which the 3D
drivers generally can't handle. The symptoms in such cases would be incorrect
rendering or even crashes or hangs.

commit 5d896e43fd056d935935b4eb66562791edc247a1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 09:23:19 2007 +0200

DRITreeTraversal: Stop walking tree when we've seen all DRI windows.

commit 0fb44c6f9a0415184818ba8357a21ff920e907dc
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 09:23:19 2007 +0200

DRI: Fix build warning.

commit 644f7ddc0cb029e2ebca43742fd8a46a1a3f4e9f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 09:23:18 2007 +0200

dixLookupClient: Use access parameter.

commit 30a3297fed9a594aba0875a8f58a0a38b33fc
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Mon Jun 11 09:23:18 2007 +0200

mieq queue handling cleanups.

In particular, fix handling of wraparounds in mieqEnqueue.

commit c1a49a9269f14b6975a1a2c751bb179757373f11
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Jun 10 22:14:57 2007 -0400

GNU is wrong and ` is not left-quote.

commit 67a0a4da1a225ee3bd6bbd1846f8141fe333c884
Author: Dave Airlie <airlied@linux.ie>
Date:   Mon Jun 11 11:55:11 2007 +1000

update xproto dependency to at least 7.0.9

commit c079cced8841ab03f305b3fba4e1247e023480
Author: Daniel Ciocea <daniel.ciocea@eosystems.ro>
Date:   Fri Jun 8 18:12:21 2007 -0700

Fix sync polarity on Samsung SyncMaster 205BW monitor.

need to use standard VESA sync polarity instead of the
EDID provided -hsync -vsync values.

commit 9c47b86b9d4633fda5fd305a09ac8623187efa0
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jun 7 13:57:12 2007 -0700

Add new fb symbols to wfbrename.h.

Avoids crashes when wfbComposite calls the wrong image_from_pict.

commit 567b5bf765254a4ae9cc7711bb6acfa89a9fd61c
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Tue Jun 5 20:26:49 2007 -0400

Delete fbCompositeCopyAreammx()

commit 49ed31c0b323dd8c5887a803c199875efi2330d8
Author: Søren Sandmann Pedersen <sandmann@redhat.com>
Date:   Tue Jun 5 17:44:21 2007 -0400

Remove most of the fast-path MMX operations from fbmmx. fbCopyAreammx

and fbSolidFillmmx are still needed by other code.

commit dfbe32b5b828cc4e3da36a0e26ad641164eaa5e
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Mon Jun 4 18:07:00 2007 -0400

Remove the old Kerberos 5 authentication code.

Before you complain, this code hasn't seen material change since at least
X11R6. It certainly does not build with any modern version of Kerberos.
Anybody wanting krb5 auth to their X server should probably be using
GSSAPI instead of internal krb5 API anyway.

commit 793470a8356976dd427280a738dfb6e1c0e4e70
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
dix: fix null pointer dereference in new resource lookup function.

commit 75dece08f72803d5116e6776e9f1534f20e37b
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 4 09:09:20 2007 -0400

xf86PostMotionEvents[P] calls xf86SendDragEvents, xf86SendDragEvents
unconditionally checks device->button->buttonsDown.
Let's make it possible to have a device with motion, but no buttons.
Without segfaulting.

commit fbb9b203950e9d0e82574cde5b3e006b0e6b404f
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 4 06:59:42 2007 -0400

Let's not do a calloc and a free on every call to xf86PostMotionEvents.

commit 3f4295e643ca56c40f33af7966e8efd367ef8749
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 4 06:48:06 2007 -0400

Add xf86PostMotionEventP, takes a pointer instead of a variable number of
arguments.

Bump input ABI to 1.1 since we export this.

commit a4f3473c88370b8411e016ebab619c9df33e58f9
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 4 06:39:02 2007 -0400

Fully init the AbsoluteClassRec in InitAbsoluteClassDeviceStruct.
(Specificly, we were missing the screen field.)

commit 0cbc3a4da2dd6e4f30f60d2bc7f405d31aa554a
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Mon Jun 4 02:03:44 2007 -0400

Print the build time as well as the date if we can.

commit 9a7aaeb3f6ff79af60fde91cd0575a54ba0b9587
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon May 28 13:54:16 2007 +0300

XFree86: Input: Assume core events per default
Assume that a device will be sending core events, unless explicitly specified otherwise.

commit 94361cbba7f866144691f6f5e9251a550e0e0cb8
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon May 28 13:54:47 2007 +0300

XFree86: Input: Perform case-insensitive comparisons on option names

commit e5ce982381e4092252d6b55fcefcc9a3cd21e656
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Sun Jun 3 09:40:37 2007 +1000

Include pixman.h from fb.h or compile of some files will fail

Signed-off-by: Benjamin Herrenschmidt <benh@kernel.crashing.org>

commit 90eb22656c34d2d08a8dcca0f05e6d081c56bd7f3
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Jun 2 16:49:26 2007 -0400

Minor cleanup/robustification to config parsing.

commit f6a983533bdce4752562ef0be25b320678bf08a1
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Jun 2 16:37:39 2007 -0400

Don't warn about default behaviour when autoconfigging.

commit 21e8f4eb02842f877336db08c332d8ee4a381ee0
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Jun 2 16:13:01 2007 -0400

Don't print lack of DRI support as an error in AIGLX init.

commit 0e1384d8318637f5d04d3d1b7600f7cad40117e
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sat Jun 2 16:07:20 2007 -0400

Delete VDIF support; it was never used anyway.

commit 66702f3c1c6c884e83744c72da173cc32f22b2f4
Author: Henry Zhao <henryz@localhost.localdomain>
Date:   Fri Jun 1 23:55:40 2007 -0700

Need to use minPitch in miscanLineWidth() to get the shrinked linePitch.
Add a deviceMask to the GrabRec and don't interfere with passiveGrabs.

This quickfixes event delivery problems with XI events when a grab was on. deviceMask is only used when the grab was from a ButtonPress to preserve potential XI event masks.

This is not an ideal solution but it works until I have time to work on PassiveGrabs.

Fix mode validation against the maximum X/Y values configured at server startup, and not against the virtual X/Y parameters as they can change.

This fixes an issue when canGrow is TRUE and modes get dropped when using the virtual X/Y parameters.

Fix up comments for event.c

Allow value None for windows when setting ClientPointer.

We need this for clients that need to set the ClientPointer but don't have a window on display yet. If used, it will set the device as the ClientPointer for the requesting client.

I/O enable/disable update for the Hurd
Author: Julien Cristau <jcristau@debian.org>
Date:   Tue May 29 22:01:30 2007 -0400

Make sure that the ramdac symbols are present in the server

The former ramdac module is now built into the server, so its symbols need to be explicitly exported to drivers (Debian #423129).

commit ee20c481eede0954f4a8bef5113979b101863c32
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Tue May 29 14:54:27 2007 -0600

Remove wscons keyboard handling stuff that doesn't belong there anymore.

commit 60de6c7ef9bdcee043f63e8e0d493e6feba6a9d0
Merge: 3a6549a163 2f13b7c113
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Tue May 29 12:14:49 2007 -0600

Merge branch 'master' of ssh://herrb@git.freedesktop.org/git/xorg/xserver

commit 3a6549a163aba26bf4ac58b050c493fba0df14c6
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Tue May 29 12:14:23 2007 -0600

Make this build on OpenBSD

commit 2f13b7c113c17239e382dd3640e9c29201d8ab1f
Author: Drew Parsons <dparsons@debian.org>
Date:   Wed May 30 02:13:36 2007 +1000

Update Xprint build for pixman.

Xprt links libfb, which now uses pixman. Update configure.ac to require module $PIXMAN for XPRINT.
Also, use $(top_builddir) to reference libfb.la and other local libraries, rather than using the relative reference ../..

commit ba0b7d47ab0c24d5a29228f8af583044060464bd
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon May 28 21:57:04 2007 -0400

Fix for GNU/kFreeBSD

commit 2267bf48b385e93243e26c3bb84ebb04c7f8b39f
Author: Bastian Blank <waldi@debian.org>
Date:   Mon May 28 21:55:05 2007 -0400
Fixes for s390

commit 857ddb660a21cad1c16f4fb2dc8a904d6655304
Author: Eugene Konev <ejka@imfi.kspu.ru>
Date:   Mon May 28 21:53:02 2007 -0400

Allow configurable serverconfigdir for security policy location
Allow the location of the SERVERCONFIGdir variable to be defined at compile-time. This allows us to specify where the security policy will be located (Debian uses this to put it in /etc). The default is to the previous location.

commit 78d01d1008973899d931ef44b47d5f0b5f220b0d
Author: Gerhard Tonn <gt@debian.org>
Date:   Mon May 28 21:48:58 2007 -0400

Miscellaneous fixes for S/390.

commit d98bd4bf908c2c51fcfd3a4c3230de17f2567244
Author: Branden Robinson <branden@debian.org>
Date:   Mon May 28 21:44:59 2007 -0400

Overhaul xorg.conf manpage

Major stylistic cleanups, greatly expanded cross-reference ("SEE ALSO") section and some typo fixes.

This patch by Branden Robinson. Forward-ported by Fabio M. Di Nitto.

commit 6bf8d5019313ee2251a44dfb7ad3435a3c6db7eb
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon May 28 21:42:10 2007 -0400

Read ROM in chunks
This patch speeds up reads of the ROM by reading in large chunks rather than one byte at a time. This patch was by Dann Frazier.

commit 6fdd134a0c3e6fdd5b089100e8783705c9cc6ac
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon May 28 21:39:12 2007 -0400

Fix up xnest manpage
I believe this patch was originally by Branden Robinson
xf86XVFillKeyHelper assumed root clip never changed.

When the root window changed size, xf86XVFillKeyHelper would not revalidate the GC, leaving the clip at the old size causing lossage (and possibly memory corruption if the screen and frame buffer shrunk).

Fixed by just using a scratch GC; saving memory, eliminating bugs and shrinking the code.

commit 3c982bc1a49509dd4da7bc469b0eced44d0f02755b3
Author: Luo Jie <luojie@nlsde.buaa.edu.cn>
Date: Thu May 24 11:13:03 2007 -0700

Reinstate an apparently mis-deleted ';' from a for loop with no body.

Fixes an error returning "No core keyboard" with multiple keyboards.

commit 4d7469f75fadfc4a59664e88e18eb304203670f4
Author: Luo Jie <luojie@nlsde.buaa.edu.cn>
Date: Thu May 24 11:04:06 2007 -0700

Fix a typo in using memcpy in xwin.

commit 0b988450462ddb005311e68502357ba272e6371
Author: Luo Jie <luojie@nlsde.buaa.edu.cn>
Date: Thu May 24 11:02:28 2007 -0700

Fix os/utils.c compile with mingw.

commit 1f48995d66c0072caa7e5ce2845be642221dd56d
Author: Luo Jie <luojie@nlsde.buaa.edu.cn>
Date: Thu May 24 11:01:15 2007 -0700

Fix build of composite, dix, and randr when Xinerama is disabled.

commit 8f98be7db303bc3db650054efb86843c70114451
Author: Eric Anholt <eric@anholt.net>
Date: Thu May 24 11:00:04 2007 -0700

Fix bswap detection on BSD (mis-added '_' in function names).

commit 9616a042855399f0ee9c6489ea824621ea5fee18
Author: Matthias Drochner <drochner@netbsd.org>
Date: Tue Apr 10 16:15:40 2007 -0700

Fix build on NetBSD/amd64.

commit ddb26bced275f4f011f7a2be685d1ce58555a00
dix: Add a bunch of new access codes.

These were determined through an analysis of the core protocol and 35 of
the most common protocol extensions. There remain four bits for future
use.

commit 649e7f82d8d4333443493056b81eb20d6cf022bc
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Thu May 24 12:10:05 2007 +0200

Consolidate portPriv->pDraw assignments into xf86XVEnlistPortInWindow.

This avoids a crash in xf86XVReputVideo and also cleans up the code slightly.

commit 047bf3349bb697c73c95729a8bbf15f72605901f
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Wed May 23 16:56:05 2007 -0400

Delete trapezoid rendering code; replace with pixman calls

commit 9d87ef4e0d5f40ea39f1b209c67b90079fc79065
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Wed May 23 15:50:25 2007 -0400

- Make image_from_pict() non-static
- Delete fbedge.c and fbedgeimp.h
- Use pixman_rasterize_edges() in fbtrap.c

commit 2a960c442bd7560630f52b55d82ec0517542ee5a
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Wed May 23 13:08:26 2007 -0400

Port renderedge.c to pixman

commit 3ba3ede9bbdfc6376b6f6e0b6ce8280a05e6584d
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Wed May 23 12:56:04 2007 -0400

Add missing offsets for window coordinates - reported by Colin Harrison

commit 2a4aa63a23dd816b647b851a01865861827a7eb
Merge: 9ee4ec5e6 ccf648e609d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue May 22 14:50:26 2007 -0400
Merge branch 'master' into XACE-SELINUX

Conflicts:

    include/miscstruct.h

commit cc648e609d472472bac4a2e568eb3598b3690ba3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue May 22 10:51:56 2007 +0200

EXA: Export ExaOffscreenMarkUsed.

Can be used to inform EXA that an offscreen area is used outside of EXA.

commit e6a7198e7cd96f1fe0654cc6811a977821579258
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Tue May 22 10:51:55 2007 +0200

Bug #8991: Add glXGetDrawableAttributes dispatch; fix texture format therein.

Adapted to master branch by Michel Dänzer <michel@tungstengraphics.com>.

commit 6324bfc468f7a645d2fee59f1c921a4328a4639f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue May 22 10:51:53 2007 +0200


When available, use the 2D driver texOffsetStart hook and the 3D driver
setTexOffset hook to save the overhead of passing the pixmap data to
glTex(Sub)Image.

The basic idea is to update the driver specific 'offset' for bound pixmaps
before dispatching a GLX render request and to flush immediately afterwards
if there are any pixmaps bound. This should ensure that the 3D driver can
use pixmaps for texturing directly regardless of the X server moving them
around.

commit 5006d08d7fc56d3d380cc6b75297f94e8594eb54
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue May 22 10:51:52 2007 +0200

DRI: Add TexOffset driver hooks.

To be used by AIGLX for GLX_EXT_texture_from_pixmap without several data copies.

The texOffsetStart hook must make sure that the given pixmap is accessible by
the GPU for texturing and return an 'offset' that can be used by the 3D
driver for that purpose.

The texOffsetFinish hook is called when the pixmap is no longer being used for texturing.

commit ff2eae86b6a8760befbcb5d605debebe7b024c05
Author: David Nusinow <dnusinow@debian.org>
Date:   Mon May 21 19:50:04 2007 -0400

Fix boolean thinko that prevented working without a server layout

commit 56fd92715567cd32e4b725b3791de9ac4e3879aa
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Mon May 21 20:00:25 2007 -0400

Remove fast path code from fb pict.c

Remove the various fast path functions from fb pict, and instead use pixman_image_composite().

commit d0e8f474099dea40bbaa555427772724ccb787d1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 21 13:06:21 2007 +0930

Change GrabDevice's parameter name back to "coreGrab".
Was changed during a global search/replace for 5c680e94938c16e04a4349715cf11796b80400db.

Otherwise people like me introduce bugs (e.g. in 333bab4b235801efd2b2de5b60df5b0e44048d3e)

commit 167e1773de0fb566559d4362ff929edc6b6d055
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 21 10:45:10 2007 +0930

Remove unused include "gestr.h"

commit 7e2e935920cafadb87ec351f1a3239932864fb90
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Fri May 18 20:06:14 2007 +0200

Add a new IDLETIME system sync counter.

This counter exposes the time in milliseconds since the last input event. Clients such as screen savers and power managers can set an alarm on this counter to find out when the idle time reaches a certain value, without having to poll the server.
commit 756acea23a0cc56e470bed77c6f5638d923ab3d1
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri May 18 13:39:12 2007 -0400

Use pixman_image_set_indexed() to make 8 bit work.

commit 7916419a0092b8bf9f773c0840f9e969950d7aa85
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri May 18 11:58:24 2007 -0400

Comment out setup of general MMX code.

commit 998164bac648756e5b5254aa36e075ae360d3972
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri May 18 11:36:20 2007 -0400

Move fbCompositeGeneral() to fbpic.c and remove fbcompose.c.

commit a2e3614eb8f0fa198615df492b03ff36bc9e1121
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Fri May 18 11:33:11 2007 -0400

Break image_from_pict() into a few subfunctions.

commit c5ef84c325440af5fbd9f44c3781d99a0392df9
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Thu May 17 21:31:08 2007 -0400

Make the general compositing code create a pixman image and call
pixman_image_composite(). Leave the general code commented out for now.

commit 076d070e186afeb416976ae74fbd50c86db10c5
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu May 17 20:24:18 2007 -0700

Use Screen block handler for rotation to draw under DRI lock.

DRI uses a non-screen block/wakeup handler which will be executed after the
screen block handler finishes. To ensure that the rotation block handler is
executed under the DRI lock, dynamically wrap the screen block handler for
rotation.

commit 915563eba530c5e2fdec2456cf1c7c3cc09b3add0
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu May 17 20:22:43 2007 -0700

Disable all outputs and crtcs at startup.
Leaving devices enabled during server startup can cause problems during the initial mode setting in the server, especially when they are used for different purposes by the X server than by the BIOS. Disabling all of them before any mode setting is attempted provides a stable base upon which the remaining mode setting operations can be built.

commit 0375009a97c2ab7f0e0f0265463d45c0580388c6
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Thu May 17 12:59:24 2007 -0400

Remove excessive unrolling in fbCompositeSrc_x8888x8x8888() and fix bug where the source alpha was used instead of 0xff.

commit 0b4db74922299df785e6273fd1bf65c38d36070
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 17 18:00:07 2007 +0930

Squish the flags into the upper bits of the mode field for EnterLeave events. This way we have enough space for the detail field.

commit 333bab4b235801efd2b2de5b60df5b0c44048d3e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 17 17:59:02 2007 +0930

Clean up, correct some comments.
Send event type down with the RawEvents.

commit bc334286b060bc8d0c829b18acebadf24fbda1f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu May 17 10:36:46 2007 +0930

Init device axis with -1,-1 minimum values.
This is needed to be able to cross to screens located east/north of the current active screen.

commit 546465ee6aa6584780aee6357ff32d205c807ae71
Author: Soren Sandmann Pedersen <sandmann@redhat.com>
Date:   Wed May 16 17:42:04 2007 -0400

Make fbFetch_b8g8r8() actually write the read value to the buffer

commit 0fcd17c9181901c419cc32bc24c07fe5a6934d81
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue May 15 17:59:13 2007 -0400

Use pixman short formats, revert the gradient_stop change
commit f4c1d5fc28a5a7fe2592505350f9e23331f6049b7
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue May 15 17:12:22 2007 -0400

Use pixman types for transforms and vectors

commit f2e30c7d0a1d075e7e83e5b5ceea9e4752951138
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue May 15 16:51:21 2007 -0400

Use the pixman fixed point types and macros

commit 3da842bf930d7875599ca0c06cb4a09cfa987ac5
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue May 15 14:57:14 2007 -0400

Revert various fast path functions to their pre-pixman-merge state
since they fail rendercheck. Remove their associated macros.

See bug 10903.

commit 1568b6b6a0d7337f29c7b87cc46ae64b3b08f8f7f
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Sat May 12 20:33:23 2007 -0400

Port large amounts of the region code to pixman

commit dde0ceac4e7a7639d0096b6d26f37c5851778854c
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Sat May 12 17:41:47 2007 -0400

Add new InitRegions() function called from dix/main

commit e037052ac5221507866bf44d3a0a4813cc8f0050
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Sat May 12 16:58:54 2007 -0400

Turn boxes and regions into typedefs for pixman types

commit 8e56f5be4b70773c899f01b9c9cd2e88d523327e4
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri May 11 11:45:37 2007 -0400

Add dependency on pixman 0.9.0

commit a8c56372ba8aa36bac09877c478f53ea5358df7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 15 10:24:22 2007 +0930

Revert "Allow events to grabWindows event if the device is not grabbed."

This reverts commit 339b73e710a0920608a3fbcb20b406f0f6c4e0f6. Allowing those events can lead to race conditions.

Conflicts:

dix/events.c

commit 81fc6a128b64ad412064405ed45db0175398e3f0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 14 18:12:56 2007 +0930

Add ungrab support to ExtendedGrabDeviceRequest handling.
Polish the code a bit.

commit 5c680e94938c16c04a4349715cf11796b80400db
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 14 12:34:53 2007 +0930

Remove double-grab option. We only want one grab per device.

commit 4dc973f08c54294e06bc831bd2839fd3aa24ecfb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon May 14 10:42:03 2007 +0930

Add ExtendedGrabDevice handling.
Add XGE handling in DeliverGrabbedEvent.

We can now grab something selecting XGE events, but the current code is a
bit messy and doesn't work too well yet.

commit a277f04ab08514462b7f10b4dd92eb326af85501
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed May 9 22:03:12 2007 -0400

Remove mfb and cfb from include paths where they're not needed.

commit 20c5250e487e032d392e2e4624021fccb1bf72c
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed May 9 21:49:44 2007 -0400

Use system copy of cbrt() if available.

Also move the replacement inline into miarc.c, since that's the only user.
commit 8dcc37520d5e8c8b52cee81fa67fd5205548377
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed May 9 18:57:05 2007 -0400

Use _X_INLINE instead of ad-hoc #defines.

commit 6ff239cb4e67c0a2ea497a1714e5585c1d941af3
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed May 9 18:38:33 2007 -0400

Make the use of ICEIL slightly less ugly.

commit 178d426311bb3c7160f72b5d95b0a137eda09ba9
Author: Colin Harrison <colin.harrison-at-virgin.net>
Date:   Fri May 11 10:08:42 2007 +0100

Missing piece from bug 9808

commit ebaa6c920c82401952a0ccce991b94574306449bd
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu May 10 15:25:31 2007 +0200

Disable Simba PCI bridge routing code (Bug #8020).

The code in hw/xfree86/os-support/bus/sparcPci.c:simbaCheckBus() is trying to mimmick VGA routing by disabling I/O space responses behind the Simba PCI-PCI controller.

Unfortunately, doing this also happens to disable access to the IDE controller I/O space registers, thus crashing the system. The granularity of the I/O disabling in the Simba controller is not fine enough to disable VGA without also disabling the IDE controller registers.

commit 86c4941727f7c673ae6bb88c67443fa25935c7f5
Author: Colin Harrison <colin.harrison-at-virgin.net>
Date:   Wed May 9 16:55:27 2007 +0100

fix an occasional crash in GetWindowName() (bug: 9798)

commit be44018a3c6172cafa3e91c36ea321420d104e79f
Author: Colin Harrison <colin.harrison-at-virgin.net>
Date:   Wed May 9 16:55:09 2007 +0100

Fix bad use of hwnd (bug: 9808)

commit d3248b666a650cf6c629cd66240e25004869217d2e
Author: Colin Harrison <colin.harrison-at-virgin.net>
Date: Wed May 9 16:54:46 2007 +0100

Migrate some code to the new mi apis

commit 021e5df85d7c9373a2fed55512751d16e08128db
Author: David Nusinow <dnusinow@debian.org>
Date: Mon May 7 21:03:40 2007 -0400

Add more informative logging for module default loading

When the modules section is parsed, if a module is set to be loaded by
default, this will be logged. If it is redundantly specified in xorg.conf,
this will also be noted. None of this logging will happen if the xorg.conf
lacks a modules section.

commit 1b3a0508a7ae1c7b14cd62216b4727fccc9181d4
Author: Jesse Barnes <jbarnes@jbarnes-mobile.amr.corp.intel.com>
Date: Sun May 6 01:30:59 2007 -0700

Fix documentation for Copy hook -- it can copy memory to the scanout
buffer too.

commit 030a578391c634bc68add6ada3f251cf3f8c3069
Author: David Nusinow <dnusinow@debian.org>
Date: Thu May 3 22:51:07 2007 -0400

Provide UseDefaultFontPath option

This provides a new option, UseDefaultFontPath. This option is enabled by
default, and causes the X server to always append the default font path
(defined at compile time) to the font path for the server. This will allow
people to specify additional font paths if they want without breaking
their font path, thus hopefully avoiding ye olde "fixed front" problem.

Because this option is a ServerFlag option, the ServerFlags need to be
processed before the files section of the config file, so swap the order
that they are processed.

commit e91b9ddc7aa95abc2d4d314e8db204860771a099
Author: David Nusinow <dnusinow@debian.org>
Date: Thu May 3 22:00:23 2007 -0400

Improve modules loading defaults

Provide default modules that may be overrided easily. Previously the
server would load a set of default modules, but only if none were
specified in the xorg.conf, or if you didn't have a xorg.conf at all. This
patch provides a default set and you can add only the "Load" instructions
to xorg.conf that you want without losing the defaults. Similarly, if you
don't want to load a module that's loaded by default, you can add "Disable
modulename" to your xorg.conf (see man xorg.conf in this release for
details). This allows for a minimal "Modules" section, where the user only
need specify what they want to be different. See bug #10541 for more.

The list of default modules is taken from the set loaded by default when
there was a xorg.conf containing no "Modules" section.

A potential problem for some users is that some users disable a module,
most notably DRI, by commenting out the "Load" line in their xorg.conf.
This needs to be changed to an uncommented "Disable" line, as DRI is
loaded by default.

commit d2f813f7db157fc83abc4b3726821ce36ee7e40b1
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Wed May 2 19:10:22 2007 -0400

New fbWalkCompositeRegion() function

This new function walks the composite region and calls a rectangle
compositing function on each compositing rectangle. Previously there
were buggy duplicates of this code in fbcompose.c and
miext/rootles/safealpha/safeAlphaPicture.c.

commit e0959aded8df2ec61e98e76e708fcee9c7cd54eb
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Tue May 1 13:41:48 2007 -0400

Add fbCompositeRect() as another special case in the switch of doom in fbpict.c

This is phase one of getting the two region walkers in fbcompose.c and
fbpict.c merged together.

commit cb22bdbe678a9948eda75d464d6701a729664ef0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu May 3 10:05:58 2007 +0930

Add selected RamDac functions to xfree86LookupTab.

Adding those makes drivers for s3 and tga work again.

commit c1e1d6b98a6708860e5b5f6e21d8d5b1d8ce9075
Author: Brian <brian@yutani.localnet.net>
Date: Wed May 2 15:55:40 2007 -0600

In __glXCreateARGBConfig(), insert the new GL mode at the _end_ of the linked list.
Previously, the new mode was added at the head of the list. This caused the positional correspondence between modes and the XMesaVisuals array to be off by one. The net result was GLX clients failing when they tried to use the last GLX mode/visual.

We still have the problem of DRI drivers not being able to use the extra mode/visual introduced by __glXCreateARGBConfig(). glXCreateContext fails with BadAlloc if it's attempted. This is also the source of the often-seen warning "libGL warning: 3D driver claims to not support visual xxx" Look into fixing that someday...

commit bd0abb2844ef9faf28703e592cfeebb886004234c
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Wed May 2 17:20:48 2007 +0200

Bug #10823: Fixed default OSNAME value.

We try to get OSNAME from uname by default now.

commit 71fc5b3e9309182978ead676965d65ca93a4e3b9
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 2 11:41:11 2007 +0200

Fix for a divide by zero that can be triggered by a malicious client.

Problem reported by Derek Abdine of rapid7.com. Thanks.

commit c03d9a72f79895feed84ced3e4752fa6187c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 2 18:16:40 2007 +0930

Cleaning up a bit.

Register correct event in EventSwapVector.
Fix up event swap for GE events, register XI's swap function at GE.

commit e6fd4a24e6bd205013b41e44acbbfb847709d2fd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 2 17:49:20 2007 +0930

Add handling for FakeDeviceEvent request.
Fix a stupid bug from last commit, mask names were wrong.

commit af25720598bb35d9d953ac8d9a07528289ebfb4a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed May 2 13:51:16 2007 +0930

Add missing files for ProcXiSelectEvent.
Should have been a part of 5e439109292e54b5e4d1a7bc7b6ae0e42ee285f7. Oh well.

commit 58c0fd29272fb6c2f193cff82fb0b0573c607eecc  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Wed May 2 13:50:09 2007 +0930  

Adjust EQ to support long events.  
Add RawDeviceEvent (pointers only for now).

This commit changes the event queue to use EventLists instead of xEvent arrays. Only EQ is affected, event delivery still uses xEvent* (look for comment in mieqProcessInputEvent).

RawDeviceEvents deliver driver information to the client, without clipping or acceleration.

commit 0214d0b96a9b900a8cf5c7f2183add3a411441f3  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Tue May 1 15:49:41 2007 +0930  

Start devices after windows are initialized.

This fixes the hotplug segfault introduced with the multihead changes and cleans up the code a bit as well.

commit 11d0e2109b699714055e263e8963f2e39ededd8b  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Tue May 1 14:16:36 2007 +0930  

Correct enterleave semaphore value for root window.

commit 8b42ba64e169a35df2a90528deb0cd06be0f67a1  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Tue May 1 12:12:58 2007 +0930  

Send PointerKeyboardPairingChangedNotifyEvent using XGE.

Needs updated inputproto and libXi.

commit 325380adb20ec2b82e176d75599fd4bc97a3b918  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Tue May 1 11:02:05 2007 +0930  

Check and re-set paired devices when initializing sprites.

If we don't do this, a device that is paired before a sprite has been initialized for the paired device will not actually get the right sprite and
segfault the server on focus events. Happens for the VCK.

commit b043a184509cfe5c4c4691e0de1a4a065e53d575
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue May 1 09:54:33 2007 +0930

Check VCP's and VCK's ids when searching for a new device id.

Both VCP and VCK are not in the inputInfo.devices list anymore, so we need to check them separately. If we don't do this, we end up re-using ids 0 and 1, causing all sorts of grief for clients.

commit 873ef75b1e8c94d39670e981c4d830ab8b6cc018b
Author: Colin Guthrie <gmane@colin.guthrie.ie>
Date:   Mon Apr 30 10:33:12 2007 -0600

    fix __glXErrorCallBack() proto

commit 6b33459bf5aadac23c3ec7002d091c02f327d907a
Merge: 18252a515d3c91a993e8
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 30 10:26:19 2007 -0600

    Merge branch 'master' of git+ssh://briannp@git.freedesktop.org/git/xorg/xserver

commit 5e439109292e54b5c4d1a7bc7b6ac0e42ee285f7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 30 12:57:42 2007 +0930

Add GenericEvent extension to Xext.

This adds (unconditional) support for the GE extension. Anything from now on that sends events in MPX will have to use the GE extension. No GE, no MPX events. GE is not actually used yet from anywhere with this commit.

You will need to update x11proto, xextproto, libX11, libXext and xcb to the matching xge branches. Things will _NOT_ work without the updated protocol headers and libraries.

commit 3c91a993e8c752002adf85c317216e1487c20780
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:49:41 2007 +0200

    EXA: Fix OffscreenValidate build with DEBUG_OFFSCREEN enabled.
EXA: Remove DrawableDirty.

Convert the remaining callers to PixmapDirty.

commit b1b6674a919943a8ac37e54d02e8d0d23a642b1d
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:49:28 2007 +0200

EXA: FillSpans improvements.

* Don't need to track damage.
* Always migrate for fallbacks.

commit 584697a2231ac782f362a925e1489c15483a8791
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:49:09 2007 +0200

EXA: SolidBoxClipped improvements.

* Centralize handling of fallbacks and damage tracking.
* Always migrate for fallbacks.

commit 982d7c2c0b948ba04c8eefa475d660981e6ed9f9
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:48:59 2007 +0200

EXA: CopyNtoN improvements.

* Centralize handling of fallbacks and damage tracking.
* Always migrate for fallbacks.

commit d2245386eed200e77a8c84bdda36ab29e39fd593
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:48:31 2007 +0200

EXA: GetImage improvements.

Only migrate when appropriate. In particular, don't migrate to offscreen in the
no-fallback case as copying from system memory should usually be as fast if not
faster than DownloadFromScreen, in particular if the bits need to be uploaded
to offscreen first.

commit 0880aaac9c83019fec2e3d32871f74c7a407f8b3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:48:19 2007 +0200

EXA: PutImage improvements.
* Migrate for fallbacks when appropriate.
* Add damage tracking in ExaCheckPutImage.

commit 7fca16901187ade48e83e6a2684ef464b1912357
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:48:11 2007 +0200

EXA: ImageGlyphBlit improvements.

* Don't waste effort on invisible glyphs.
* Only track damage for bounding box instead of each glyph separately.
* Always migrate for fallbacks.

commit a8d6ebdf9338dc2f6ff9a532e6fec460a70d3b1e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:47:53 2007 +0200

EXA: Defer to FillRegionTiled in Composite when possible.

Committed separately as this case is hard to hit and has only been tested lightly.

commit 81b055605c34b5823f6c5f63cc0f92f43c6b7252
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:47:43 2007 +0200

EXA: Composite improvements.

* Defer to simpler hooks in more cases (inspired by XAA behaviour).
* Move damage tracking from lower to higher level functions.
* Always migrate for fallbacks.

commit ce317a5b76c053f449122c46e1372bf8e067cb4c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:47:16 2007 +0200

EXA: Glyphs improvements.

* Don't waste effort on invisible glyphs.
* Add damage tracking where necessary.
* Always migrate for fallbacks.

commit 0c8905ebe91cf654facef84ee52231a358dee5c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:47:08 2007 +0200

EXA: PolyFillRect improvements.
* Convert rects to region and use it for damage tracking.
* When possible, defer to exaFillRegion{Solid,Tiled} using converted region.
* Always migrate for fallbacks.
* Move damage tracking out of ExaCheckPolyFillRect.

commit 567f18a09bf6b05f448be40c7ebe0f210f955601c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:46:49 2007 +0200

EXA: FillRegion{Solid,Tiled} improvements.

* Support planemasks, different ALUs and arbitrary tile origin.
* Leave damage tracking and non-trivial fallbacks to callers.
* Always migrate for fallbacks.

This is in preparation for using these from more other functions.

commit e869573b52fac69fb88ce120daaeec59c7a3461
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:45:48 2007 +0200

EXA: exaAssertNotDirty improvements.

* Return early if the valid region is empty or the pixmap is pinned.
* Fix loop for several cliprects.

commit d3f8667341bfe6dc7d0258c4ad69377f37d88d95
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:44:27 2007 +0200

EXA: Fix exaEnableDisableFBAccess for nested disables and enables.

commit 5e4b32332dafe3b0dec65bf639bebaba4774210b7
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:38:22 2007 +0200

Fix fbCompositeTrans_0888xnx0888 build for wfb on big endian.

commit 2866e0baec9b8dd3892c5e68abcf6c97ceba88
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Apr 29 23:38:13 2007 +0200

Fix a couple of picture repeat fields incorrectly compared to RepeatNormal.

commit 78a20455356ecc310f73cfc65ad65a7677ee7e5
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 27 15:20:24 2007 -0400
Pixman merging

More msvc++ porting

commit 6c4f1826bf2e5f30f5fe6e489a02b6375478b380
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 27 08:13:08 2007 -0400

Bug fix in fbCompositeIn_nx8x8888

Make sure both halves of the dst word is set to zero when the masks
are both 0.

commit f28eea0647f007c2e2415eccc6fceeef46201faad4
Merge: 339b73e710 ae04f2cb0a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 27 16:34:36 2007 +0930

Merge branch 'master' into mpx

Conflicts:

dix/devices.c
dix/events.c

commit 339b73e710a0920608a3fbcb2b406f0f6c4e0f6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 27 13:24:27 2007 +0930

Allow events to grabWindows event if the device is not grabbed.

This kinda makes popup windows useable if the WM doesn't set the
ClientPointer. Kinda.

commit ae04f2cb0a068cd1e519627bf745de0c9e4a85a
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Apr 26 15:28:04 2007 -0400

Fix the 'relink' target for kdrive servers.

commit 6c8152d66ee9eeb21a68a8bbfed1540939e5bced1f
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Apr 26 14:59:04 2007 -0400

Remove old edid_modes.c, it lives in hw/xfree86/modes/ now.

commit 2208c6087d6bffcb24a30891a56430e28735874c
Change expand_alpha_rev to expand_alpha in mmxSaturateU

commit a300ef84cee26febfbe08c497d0d063588130bdd
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:    Thu Apr 26 14:37:53 2007 -0400

Fix typo in previous commit

commit 0ebe48be59368b55c618f60d4656300bd7f52ed9
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:    Thu Apr 26 14:36:32 2007 -0400

Pixman merge

- Changes to support MS Visual C++
- use inline instead of __inline__
- Fix rounding errors (Billy Biggs, from xserver via pixman)

commit 4fe918b38553133c27e5ae672e5c43984a9bbaea
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:    Thu Apr 26 12:41:01 2007 -0400

Fix bug 8871 - scrolling corruption with a compositing manager

Call miHandleExposures() in CopyArea/CopyPlane explicitly in cw to generate GraphicsExposes correctly.

commit 0ff7c94fcf6497ee8575f81cf97e3eb3a857739e
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:    Thu Apr 26 10:56:02 2007 -0400

Pixman merge

Make use of fbCompositeSrcAdd_8888x8x8mmx

commit 701ccb4a22cfd646ccbf19b7b3a476aeb5ce2da
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:    Thu Apr 26 10:49:06 2007 -0400

Pixman merge

- Remove stray default label
- Integrate new MMX ops SolidMaskSrc_nx8x8888mmx, In_8x8mmx, and In_nx8x8mmx

- Formatting changes to reduce diff noise

commit a54ef54db19dcd36ed86b33ccf2bc369f9690a15
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Thu Apr 26 10:24:25 2007 -0400

Pixman merge

Make sure fbCompositeSrc_x8888x8x8888mmx and fbCompositeSrc_8888x8x8888mmx are used when possible.

commit 3571b8e65b0857322d12e291305cfe29ea497c3c
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Thu Apr 26 09:45:11 2007 -0400

More pixman merging

- Move some code around to minimize diff noise

- Add mmx ops from pixman that never made it into X

- Merge Jeff Muizelaar's bugfixes to fbCompositeSrc_8888x8x8888mmx and fbCompositeSrc_x8888x8x8888mmx.

commit cfc01115af4136b2dad8b388513a356a2e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 26 22:18:35 2007 +0930

Fix cursor rendering for multi-head.

Before putting anything on the screen, check if the GC was made for the ScreenRec we want to render to. If not, toss the GC and create a new one. This is not the best solution but it does the job for now. Same thing for ARGB cursors except that it's even uglier.

Also remember the screen the cursor was rendered to and check for the right screen in the BlockHandler, SourceValidate and a few others. Only remove or restore the cursor if we are rendering to the same screen, otherwise we get artefacts that are both funky and really annoying.

commit 82f97e1c0cc15b050edc82a8f3b9a423d6c5fe7
Author: Paulo Ricardo Zanoni <prz05@c3sl.ufpr.br>
Date:   Thu Apr 26 15:58:50 2007 +0930

Enable event delivery for multiple heads.
Requires moving the spriteTrace into the DeviceIntRec and adjusting a few functions to take in device argument, most notably XYToWindow().

Cursor rendering on the second screen is busted.

commit c0346e57e6d3857994f7af76060c502e2fdea294
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 26 12:02:45 2007 +0930

Require inputproto 1.4.2.

Requirement was introduced with c7e2ba0c9b9b1fc1aed8f91f86471c4c8e650b78.

commit 67347739b0571b2978468e8088480b105f505ad2
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Wed Apr 25 14:19:39 2007 -0400

Don't treat convolution filters as transformations.

Some rearrangement of code to get it closer to pixman.

commit c056ce95d89ef1df576df47149fc34cd3925496e
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>

Port MSVC++ CPU detection code from pixman. (Vladimir Vukicevic).

commit c19ece1d8c32dc81740a4036a642661f54064e75
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Wed Apr 25 12:34:19 2007 -0400

Integrate optimization from xserver from David Reveman where repeats get handled by fbFetchTransformed() rather than in the region walking code.

commit 48c73dfc369faff8f6023436ebe82bb604f76bb80
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Wed Apr 25 12:09:22 2007 -0400

Add function fbCompositeSrcAdd_8888x8x8(), and fix a bug where srcRepeat = FALSE would be set in the wrong place.

commit 66ba3d758a368bf83d75bab8b08db6b34925e40
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Wed Apr 25 10:31:38 2007 -0400
Various fixes from xserver via pixman (Billy Biggs)

commit c09e68ce30dab6d6b7068b163b9d2382d85d0d0bc
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Apr 25 16:46:26 2007 -0400

Paper over a crash at exit during GLX teardown.

commit 9c80eda826448822328bb678a7d284cc43ffeb17
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Apr 25 16:35:04 2007 -0400

Disable RANDR's fake Xinerama protocol when there's more than one screen.

... in the protocol sense. Xinerama doesn't have any provision for more
than one protocol screen each with its own geometry.

Red Hat bug #231257.

commit d322608dc929d5f8cda07a53143a4f28423e0460
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Apr 25 16:29:48 2007 -0400

Fix a buffer overrun on machines with excessively large PCI busses.

Formerly we sized an array with a compile time constant, then initialized
its size to the same constant, but the Linux PCI init code would increase
that "constant". So if you happened to have more than 128 PCI devices,
you'd happily scribble into whatever variables happened to be in .bss
after that array.

Only really fixed for Linux atm. Other OSes will simply (still) fail to
work on video devices above the 128th PCI device.

commit 3ba1e8ab6d69566e1a3f8f0eb4605631aefc8e5
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Apr 24 17:20:14 2007 -0700

Include xf86Rename.h in xf86RandR12.h.

commit 0a2fe443d25b1ca25349aba3f748df986952e20f
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Apr 24 19:02:44 2007 -0400

Use READ/WRITE macros for new functions introduced in previous commits.

commit 7e16da7b78e422f96387502b9cc29ea1741543f
Remove #if 0'ed blocks

commit 18252a515d4989b983a3b7389636045e06d0f246
Author: Brian <brian@yutani.localnet.net>
Date:   Tue Apr 24 14:10:09 2007 -0600

bump release date to reflect input code updates

commit 2d9a7a768747ca39a800475f12c424c298018dc6
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Apr 24 14:46:59 2007 -0400

From pixman (Jeff Muizelaar)

Fix up the fast-path compositing operators; those are useful for
sources without alpha, but can't be used for sources with
alpha. Also, replaced fbCompositeSrcSrc_nxn with call to fbBlt as
this function must handle 1, 4, 8, 16, 24, 32 bpp objects. Would
be nice to optimize fbBlt for common cases involving 8, 16, 24 and
32bpp.

From Keith Packard.

commit fde4a5adff02d3067a064ebf6bd666aa5784cfe9
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Apr 24 13:30:43 2007 -0400

From xserver via pixman (Jeff Muizelaar)

Add some optimizations from jaymz. Also adds some compile
warnings that will hopefully go away as we continue merging.

commit 13e1d5ea55b0a3b7729316c8e37d3d8fca2075b5
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Apr 24 12:59:18 2007 -0400

Fix format vs formatCode in previous commit

commit 077a5d4555676d5775e990468a697b6890c6d609
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Apr 24 12:57:55 2007 -0400

Add functions fbCompositeSrcSrc_nxn() and fbCompositeTrans_0565xnx0565
from xserver via pixman. Add READ/WRITE and fbFinishAccess as
appropriate.
Disable devices before removing, remove unrecoverable devices.

Use DevicePresence events to tell the client about enabled/disabled devices.

Include the device id in the event sent to the client.

fix bug in which maxKeysPerModifier wasn't getting set

Remove #if 0'ed merge leftovers

Gradient fixes

* Port fix for bug 7685 from pixman. Patch by Carl Worth

* Add projective version of radial gradient code.

* Make sure that all Pict*Gradient types have PictGradient as prefix, since code in various places relies on that.

Adjust the screen pixmap's dimensions in xf86RandR12ScreenSetSize.
Date:   Sun Apr 22 16:26:01 2007 -0700

    Fix unbalanced fbGetDrawable added in commit 0a9239ec.

commit 55bd8668e7d4100579bc6d6e16a804d9f25267070
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 20 14:53:37 2007 -0400

    Remove #if 0'ed leftovers from merge

commit 41dd7ab067addde8f66cd9f74c5a6570c325518a5
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 20 14:51:40 2007 -0400

    Fix gradient walker to not reset needlessly

    Previously the gradient walker was doing excessive resets, (such
    as on every pixel in constant-colored regions or outside the
    gradient with CAIRO_EXTEND_NONE). Don't do that.

    Carl Worth, from pixman

commit c1b73f02f2acd56b423b91a04f1e1b3c7dca0059f
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 20 14:34:13 2007 -0400

    Fixing gradient repeat mode computations in previous patch. From David
    Turner.

commit 38f718799c68995c2d9a1680355bd55fd925009e
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 20 13:59:11 2007 -0400

    Remove a few memory references in fbFetchTransformed

commit 9c4b14d46a1fe018ac6d4789434216cd1560a4a
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Fri Apr 20 13:23:58 2007 -0400

    Integrate David Turner's gradient optimizations from pixman

commit cd2c1714eb4946bf7b1fc194fe074f8024a2ec23
Author: Brian <brian@yutani.localnet.net>
Date:   Sat Apr 21 12:40:51 2007 -0600

    add slang_mem.c
commit 67545333ec0b08db783e94e9e3ec55873dea19a3
Author: Brian <brian@yutani.localnet.net>
Date: Sat Apr 21 12:40:33 2007 -0600

    replace occlude.c w/ queryobj.c

commit 39bc8bb0f9dc854dcf9bbce0857f8ec84d50fa4fb2
Author: Brian <brian@yutani.localnet.net>
Date: Fri Apr 20 14:22:42 2007 -0700

    Don't call xf86RandR12TellChanged if it doesn't exist. Add some exports to xf86Rename.h.

commit 3daa5ca1a991d659b1386a09eb33b044470d489cb3
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Fri Apr 20 09:43:16 2007 -0400

    Fix pixman bug 5777, patch by David Reveman

commit 9c2e955f6792ee80fb84f848ed9e6ebfd7f7f130
Author: Brian <brian@yutani.localnet.net>
Date: Fri Apr 20 07:21:19 2007 -0600

    regenerated to add GL_CLIENT_ATTRIB_STACK_DEPTH (bug 9823)

commit 96ef0f78438b60436c3940817980a4070c7e8
Author: Keith Packard <keithp@neko.keithp.com>
Date: Thu Apr 19 17:39:51 2007 -0700

    Disable SourceValidate in rotation to capture cursor.

    SourceValidate is used exclusively by the software cursor code to pull the
cursor off of the screen before using the screen as a source operand. This
eliminates the software cursor from the frame buffer while painting the
rotated image though. Disabling this function by temporarily setting the
screen function pointer to NULL causes the cursor image to be captured.
(cherry picked from commit 05e1c45ade9c558820685bf2d2541617a2e8de816)

commit 7ca4baff15569ea12b578a4a3f69e93d272d6c6d
Author: Keith Packard <keithp@neko.keithp.com>
Date: Thu Apr 19 17:37:18 2007 -0700

    Was accidentally disabling rotation updates in mode set.

    Setting a mode on an unrotated CRTC was causing all of the rotation updates
to be disabled; the loop looking for active rotation wasn't actually looking
at each crtc, it was looking at the modified crtc many times.
(cherry picked from commit 8b217dee3a6c46b13fc9571a4a9a95bc55686c6d)
commit 806a537e644d8cc9e55f3ac52efb49453e5aa1fb
Author: Keith Packard <keithp@neko.keithp.com>
Date: Thu Apr 19 17:49:34 2007 -0700

Revert "Suppress software cursor removal during rotated shadow buffer drawing."

This reverts commit 999b681cf3973af4191506e49cde06963b11a774. Replacing this with simpler code that just disables SourceValidate during rotation redisplay.

commit 0a9239ec258828ec1da6c208634a55fc4053d7da
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date: Thu Apr 19 18:19:34 2007 -0400

Merge David Reveman's gradient optimization patch from pixman

commit d0e55774e0da641ba85c5173f27f68de27372747
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>
Date: Thu Apr 19 11:39:53 2007 +0200

libdri: Make sure the new DRIInfo keepFDOpen member is honoured.

commit e1f0b3e370b696d7ea4cf9e6ed30d751e7fdbc577
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 19 12:00:24 2007 +0930

config: Return errors as negative numbers, device ids as positive numbers. Update dbus-api documentation.

commit c6972c893359f8fa7631ae674330f3f7010ba0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Apr 18 12:10:05 2007 +0930

Change dbus 'listDevices' call to not require an argument.
Update dbus-api documentation, plug memory leak on dbus reply error.

commit d61ed6c8a2823a3532439d5cb9f355129e93f523
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 19 18:08:55 2007 +0930

Check for NULL devices in CloseDevice().

commit 9c30f7422121a0443c8d612d06181e17d8af9730
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Apr 19 12:00:24 2007 +0930

config: Return errors as negative numbers, device ids as positive numbers. Update dbus-api documentation.
commit 999b681cf3973af4191506e49cde06963b11a774
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 18 14:33:27 2007 -0700

    Suppress software cursor removal during rotated shadow buffer drawing.

commit 28bb34e63b3c3e98f38ba7fc044f6419aa3307
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 18 13:48:28 2007 -0700

    Belatedly bump XORG_VERSION for 7.2.

commit 5d8e8a7f4b3226bf9d9e4d6d932668f475b0183
Author: Eric Anholt <eric@anholt.net>
Date:   Wed Apr 18 13:22:26 2007 -0700

    Remove libminimi build.

    It appears to have been a leftover of a previous incarnation of the build
    system that didn't handle miinitext.c well.

commit 53fb42e65c2b2ff58a4a324b7f05cff8a587720a
Author: Erik Andrén <erik.andren@gmail.com>
Date:   Tue Apr 17 21:34:47 2007 -0700

    Syncmaster 226 monitor needs 60Hz refresh (#10545).

    I've managed to solve my own bug (#10545) by applying the following
    patch to the xserver.

    Please apply.

    <Conspiracy mode on>
    This monitor is "Vista Certified". I wonder if this is a pure coincidence...
    <Conspiracy mode off>

With kind regards
Erik Andrén
(cherry picked from commit a63704f14a1d97b9a00fef6fa290e74e51b9732b)

commit ae75afcb1b5419102c5be10b8826ceed50d2ef5d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Apr 18 12:10:05 2007 +0930

    Change dbus 'listDevices' call to not require an argument.
    Update dbus-api documentation, plug memory leak on dbus reply error.
xace: change the semantics of the return value of XACE hooks to allow arbitrary X status codes instead of just TRUE/FALSE.

The dix layer in most cases still does not propagate the return value of XACE hooks back to the client, however. There is more error propagation work to do.

security: remove debugging code.

Merge branch 'master' into XACE-SELINUX

Conflicts:

dix/privates.c

Change FocusIn/Out semantics to match Enter/Leave semantics.

Change enter/leave semantics for events with detail Notify[Nonlinear]Virtual.

Core enter/leave events with detail Notify[Ancestor|Inferior|Nonlinear] are only sent for the first/last pointer to enter/leave. Events with detail Notify[Nonlinear]Virtual are sent at all times, but not to those windows that currently have one or more pointers inside their boundaries.
Allow outputs to be explicitly enabled in config, overriding detect.

Option "Enable" "True" will force the server to enable an output at startup time, even if the output is not connected. This also causes the default modes to be added for this output, allowing even sync ranges to be used to pick out standard modes.

(cherry picked from commit a3d73ba2cb7e13a6d129cd88d6a7f7d756e2ced2)

commit c41e3bd713206c0bbd8ab8cef4c83eb7ba7e1c3c
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Apr 16 09:53:42 2007 -0700

Use default screen monitor for one of the outputs.

By default, use the screen monitor section for output 0, however, a driver can change which output gets the screen monitor by calling xf86OutputUseScreenMonitor.

(cherry picked from commit f4a8e54caf6b9431711383a39f55a18e7fd654f4)

commit 97a2c2579c56c304705c934f3b536473645747df
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Apr 16 09:39:47 2007 -0700

Using wrong log level in extension to built-in message

was: typo in built-in module log message

(cherry picked from commit 00cfd1f765895b4d1b2234f3203727a8871b64b0)

commit deda7791dfa34d0563e87fa2a0660ac27e6858c
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 16 11:35:22 2007 -0600

remove sources deleted in Mesa

commit 02d42f344ce020c9b84723671cb9c68d5c064933
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>
Date:   Mon Apr 16 17:24:53 2007 +0200

Changes for single-entity multi-screen DRI.

The entity (device) has a locking SAREA and a master file descriptor that optionally isn't closed between server generation.

The locking SAREA contains the device hardware lock.
Each DRI screen creates an new SAREA containing the drawable lock, drawable-and private info, the drawable SAREA.
The first screen optionally shares its drawable SAREA with the
device SAREA.

Default is to close the master descriptor between server generations,
and to share the drawable SAREA of the first screen with the device locking
SAREA. Thus we should (hopefully) have full backwards compatibility.

Mesa changes to support single-device multiple screens are pending.

commit b5823ea3e1ed5a0449d44da05165a46719dcef287
Author: Keith Packard <keithp@neko.keithp.com>
Date: Sun Apr 15 22:59:19 2007 -0300

RandR 1.2 spec says CRTC info contains screen-relative geometry.

Was reporting mode size instead of adjusting for rotation.
(cherry picked from commit e2c7c47a528447e90cff6cf10d2ce457742ef48d)

commit cc4eb1c7ea1bace7ed69ef80e99d2293328ae1
Author: Keith Packard <keithp@neko.keithp.com>
Date: Fri Apr 13 15:04:29 2007 -0300

Add quirk for Acer AL1706 monitor to force 60hz refresh.

This Acer monitor reports support for 75hz refresh via EDID, and yet when
that rate is delivered, the monitor does not sync and reports out of range.
Use the existing 60hz quirk for this monitor.
(cherry picked from commit 1328a288e9030a472a915077160f0901adf4126)

commit eba81a0a01f8a61151d8bf9f3d83bda85ca26e73
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sat Apr 14 18:30:09 2007 +0300

  glx: move __glXMesaProvider from GLcore module to glx module.

  This treats the GLcore provider similar to DRI provider, using a subset of
  X Mesa as the GLcore interface.

commit 6b040b79f0e247b6f2da8f7d239443743e96de67
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Sat Apr 14 18:29:52 2007 +0300

  glx: drop xmesaP.h include from xf86glx.c

  The declarations for the xfree86-specific X Mesa functions were moved up to
  xmesa.h, requires Mesa as of 2007-04-13.

commit 2c833f60acb3dc358815a99cd295ed7fe695c45d
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Sat Apr 14 18:29:25 2007 +0300

glx: drop stray CAPI define.

SI imports/exports were dropped from Mesa.

commit ea27b09d3a973d9a4943f205b24940b8624cf405
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 13 17:15:22 2007 +0930

   Deliver FocusIn/FocusOut events for all devices. 
   Don't use VCK in SetInputFocus and DeliverFocusedEvent.

commit 7cceebe50b98ae175fbd9fa0b081bceed62e600e3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Apr 13 13:08:44 2007 +0930

   Documentation for events.c.

commit 2bb3c81fc1ca98c909309f3a7e9c8ca6b695657
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 12 16:35:43 2007 +0930

   Use paired kbd instead of VCK for EnterLeaveEvents, sanitize variable naming.

commit e7b47b1758ed20e75ee267b3a09e91bf2861f6fd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 12 16:24:42 2007 +0930

   Change core enter/leave semantics for multiple pointers.

   Send EnterNotify when first device enters the window, LeaveNotify when the 
   last device leaves the window. Additional devices will not cause additional 
   Enter/LeaveNotifies.

commit 547d720938b3668666d60110d79b150b1e9325c6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 12 11:16:19 2007 +0930

   Remove workaround for a NULL core pointer in ProcessInputEvents.

   This workaround is obsolete with 33a5d9605e3e282f6aa1921d7321a2a12ef02c42

commit d4dad6f8482a4ade5005c3aa93511c1295875b8
Merge: f1f8b562aa 33a5d9605e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Apr 12 11:11:03 2007 +0930
Merge branch 'master' into mpx

Conflicts:

configure.ac
dix/events.c
hw/xfree86/common/xf86Xinput.c

commit 33a5d9605e3e282f6aa1921d7321a2a12ef02c42
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 11 18:28:57 2007 +0300

XFree86: DGA: Don't call ProcessInputEvents from CloseScreen

By the time CloseScreen gets called, we can't call ProcessInputEvents, as
the event queue will get unhappy. So just unregister our hooks instantly,
and hope that they don't get called.

commit 0910540e4322bba72a2fa0a907072eab2547a7b6
Author: Remigiusz Marcinkiewicz <enleth@enleth.com>
Date: Wed Apr 11 01:09:26 2007 +0300

Config: Extend D-BUS API

Return device ID where available.
Add listDevices call, which does what it says on the box.

commit aecbc712144dd1aaf462bd758821438b1d22d957
Author: Remigiusz Marcinkiewicz <enleth@enleth.com>
Date: Wed Apr 11 00:38:16 2007 +0300

Input: Allow a pointer to a device to be returned in NIDR

Allow a pointer to the first device added to be returned, so we know which
device(s) were added by the NIDR call.

commit 4f05f9591e5492c72f3856bd7a2ff13378f59f2b
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date: Tue Apr 10 23:57:48 2007 +0300

Input: Always add devices with first available ID

Scan the device list when adding a new device, and make sure we can use
the first available ID, instead of always incrementing.

commit 20674dcb2373a0af287883bc008fb6b23d4466
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date:  Tue Apr 10 23:55:36 2007 +0300

Config: Fix memory leaks

Fix memory leaks that could occur along the error path.

commit 829b2bbae2b4fda274625d1712ef839ce1ab9dc8
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date:  Tue Apr 10 23:54:32 2007 +0300

Input: Add DeleteInputDeviceRequest

Add DIDR, which asks the DDX to remove a device, analogous to NewInputDeviceRequest. Only implemented for XFree86 at the moment.

commit 7b82a836c66ba88566255052caff63577e1a0384
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date:  Tue Apr 10 23:52:08 2007 +0300

XFree86: Fix memory leaks, option parsing, in NewInputDeviceRequest

Plugged some possible memory leaks, and added some more checks on the options, particular for driver/identifier. Added an unwind.

commit 4771fa8747791498e504d73afccfb5833499a38b
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date:  Tue Apr 10 23:48:00 2007 +0300

XFree86: Fix memory leak in option parsing

Fix option parsing functions and callers thereof to not leak memory.

commit 07c56abf84080c020a3e7b7703a447c7f996975c
Author: Magnus Vigerlöf <Magnus.Vigerlof@home.se>
Date:  Tue Apr 10 23:43:58 2007 +0300

Input: Plug memory leak in device free

Remember to also free the motion history, if we're using the DIX-managed history.

commit e92743bc9839c36914a4f3e5bc8cd85773ac794
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sun Apr 8 14:02:02 2007 +0300

getevents: Copy modifier state from extended to core devices

Make core events carry the same modifier state as the extended events, so
that holding down Ctrl on keyboard A and pressing Q on keyboard B won't cause your app to quit.

commit e49f836d6fa2768cd6d2a6d0227b5dbf516013dc
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Apr 8 13:56:41 2007 +0300

mieq: Use larger default queue size

Use a default queue size of 512 rather than 256, else Xephyr is too slow without a host cursor, so events get stuck in the queue.

commit 4aae2de74b9224bac2b2e2522637dac09abc3837
Author: Jared D. McNeill <jmcneill@netbsd.org>
Date:   Tue Apr 10 12:57:15 2007 -0700

Add a real xf86EnableIO/xf86DisableIO for NetBSD/PPC.

commit f77a8ca849d171a8ca00b2b7334866ace1ffbf73
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Apr 9 14:29:46 2007 -0700

Rotate screen size as needed from RandR 1.1 change requests.

Screen size must reflect rotated mode size when setting rotated mode using RandR 1.1 SetScreenConfig request.
(cherry picked from commit efcec7dbd3c2736c7b421d29c4d37e231aa681d2)

commit bcf17df69a232e5e84609abacdca36274316e170
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Apr 9 14:12:27 2007 -0700

Disable CRTC when SetSingleMode has no matching mode. Update RandR as well.

xf86SetSingleMode tries to resize all crtcs to match the selected mode. When a CRTC has no matching mode, it now disables the CRTC (instead of crashing).

Also, poke the RandR extension when xf86SetSingleMode is done so that appropriate events can be delivered, and so that future RandR queries return correct information.
(cherry picked from commit dc6c4f6989f87149d8605604f4514f5cbf11de67)

commit 67e1c98895a566f927e1ae2384d56cfca104f971
Author: Adam Jackson <ajax@benzedrine.wnwk.net>
Date:   Mon Apr 9 19:08:52 2007 -0400

Look for the PCI ROM file elsewhere in sysfs.
/sys/devices reflects the bus topology, and we don't care that much. Easier (and more reliable) to just look in /sys/bus/pci/devices, which is a flat view.

commit a08d5157f70567a0a9583d4a15e62437340cf34
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Mon Apr 9 19:04:56 2007 -0400

VT activate or waitactive are fatal if they fail.

Also, be sure to waitactive on the way down, to make sure we're off the VT before exiting.

commit 72b477f964c748a1ab668781643cc11877f19738
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Mon Apr 9 18:59:01 2007 -0400

Don't write out empty sections from the parser.

commit 1f6741db19d4e91b1eacb497dff1814acb1bf0c3
Author: Stefan Huehner <stefan@huehner.org>
Date: Mon Apr 9 14:33:15 2007 -0700

Bug #10560: Code-Cleanup: function declarations () -> (void)

X.Org Bugzilla #10560: <https://bugs.freedesktop.org/show_bug.cgi?id=10560>
Patch #9511 <https://bugs.freedesktop.org/attachment.cgi?id=9511>

commit f24391dbfd12a84253dfec794ee7884afd52e197
Author: Keith Packard <keithp@neko.keithp.com>
Date: Mon Apr 9 12:30:31 2007 -0700

In AIGLX EnterVT processing, invoke driver EnterVT before resuming glx.

As the driver EnterVT function generally re-enables the hardware and prepares it for rendering, it must be called before any gl functions are called which could touch the hardware.

commit 4c2e28b0916b5f75cfebf6df9fa0a7a09675539a
Author: Keith Packard <keithp@neko.keithp.com>
Date: Mon Apr 9 12:28:53 2007 -0700

Add setrlimit call in -core option to make dumps occur.

Default core size limit for most environments is 0, which disables core dumps. Add code in the -core option processing path to set the core limit to the maximum value.
Alloc sprite memory in devices' devPrivates, allow undisplaying cursors.

Improve memory usage by allocating the sprite's memory only to devices that actually have a sprite and provide means to remove a device's cursor from the screen (more hotplugging, yay!).
This commit breaks ScreenRec's ABI.

Close down virtual core devices when closing all devices.

Don't explicitly init sprite for VCP, EnableDevice() will take care of that.

Adding some comments to devices.c.

Fix: pick new ClientPointer when device is closed.

XFree86: Treat evdev and vmmouse as mouse drivers (bug #10512, #10559)

When we see an evdev or vmmouse section, assume that it's a mouse, and don't add a default mouse device. This will break users who have an evdev keyboard section but no mouse, and want the mouse to get added by default.
Date: Sat Apr 7 12:41:57 2007 -0600

regenerated to fix bug 10371

commit 7e385598613778de14c0feea0d32f17d7aa66a8e
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Fri Apr 6 13:38:12 2007 +0300

GLcore: fix after moving xf86glx_util.[hc] to Mesa.

commit cf962a849db2b259ca558c6265ca7e3328a4d312
Merge: 5ad562565a 5a804f2e97
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Apr 5 14:41:39 2007 -0400

Merge branch 'master' into XACE-SELINUX

Conflicts:

configure.ac

commit 5ad562565ac8ef9257da3af0de1ae4f90f80fe9
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Apr 5 14:18:05 2007 -0400

devPrivates rework: properly free devPrivates on compatibility structures,
type pixmap. Requires ddx'es to call the free function from DestroyPixmap.

commit 5a804f2e97ab59745482660a635b801ac2b9e769
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Thu Apr 5 19:14:31 2007 +0300

configure: minor cosmetic, move GLX extension options together.

commit a4e2f2c703484fffed8dd50c1b4b24c564be4d3cd
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Thu Apr 5 19:13:47 2007 +0300

glx: Remove stray __GLinterface.

__GLinterface was dropped from glcore.h

commit 38ca7d388c47c4800c74442172d6595a9b3dfcc7
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Thu Apr 5 19:13:14 2007 +0300

glx: fix symlink, glcontextmodes.c was moved to mesa/src/glx/
commit 1d550bb2c5cb5b3e588f0e0b68a421dc1cb8bd7c  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Thu Apr 5 12:12:58 2007 -0400  

    devPrivates rework: minor fix; use calloc and avoid initialization.

commit 5c4deb71a1cb981ea7e2e25d2b3a1179f27efa5a  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Thu Apr 5 14:21:46 2007 +0930  

    Synthesize WarpPointer events for the actual device rather than the VCP.

commit ed75b056511ccbb429e48c6c55d14dc7ae79e75a3  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Wed Apr 4 12:00:15 2007 -0400  

    dix: add new, combined resource lookup function.  Move all dix lookup API  
deprecated so far to a new file dix/deprecated.c.  Remove the deprecation  
warnings for the time being.

commit 63e46e4fc3e98751f2edbed9c79ef3d5dc2dadc6  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Wed Apr 4 15:59:51 2007 -0400  

    devPrivates rework: properly free devPrivates on compatibility structures,  
excluding pixmap.

commit f8482967ae8080f49dd1bbb0b79cc65020df679f  
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>  
Date:   Wed Apr 4 12:28:48 2007 +0200  

    Add an EXA driver callback to determine whether a pixmap is  
"offscreen" in exa terms, which means accessible to the GPU.  
Bump exa minor. The change is backwards-compatible.

commit 7f36ba57062096e9c67889d5b7dd64e2fb0004e7  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Wed Apr 4 17:38:10 2007 +0930  

    Allow for multiple animated cursors.

commit 676188531b2bd7679ee1831b5c517df3e6d215c5  
Author: Peter Hutterer <peter@cs.unisa.edu.au>  
Date:   Wed Apr 4 17:35:06 2007 +0930  

    Unrealize cursor only once, not per device.
Swap RRScreenChangeNotifyEvent dimensions when the screen has one crtc and it's rotated.

RandR 1.1 clients expect the size fields in this event to be the unrotated dimensions of the screen. This behavior is "weird", but that's the way the old code worked so we need to be bug-compatible with it.

security: rewrite to use new devPrivates support.

xace: forgot one of the hook call arguments. Add it.

devPrivates rework: zero out newly allocated private space.

Implement a minor hack in dmxCheckFunctionKeys() to detect special keys.

Keep track of status of (left) alt/ctrl keys so that ctrl-alt-q to exit can be detected. Not ideal, but works for now.

add DDXRingBell() stub to solve link problem
commit a240c039e47c0be22ea5e100692307b26d938747
Author: Brian <brian@yutani.localnet.net>
Date:   Tue Apr 3 09:27:57 2007 -0600

Split the xserver/fb/fbcmap.c file into two files.

Now, fbcmap_mi.c contains the fb functions which just wrap mi functions.
Previously, these were in fbcmap.c and compiled when XFree86Server was defined.
Now, clients of fbcmap should either use fbcmap.c or fbcmap_mi.c and not worry
about setting the XFree86Server symbol.

commit 1cc8db72816cd079f30255046e10043c350bf683
Merge: 645d87cf8e a39f297ada
Author: Matthieu Herrb <matthieu@roadrock.(none)>
Date:   Tue Apr 3 16:04:45 2007 +0200

    Merge branch 'master' of ssh://herrb@git.freedesktop.org/git/xorg/xserver

commit 645d87cf8e724d4591614f9994cde4d7549a7a8
Author: Matthieu Herrb <matthieu@roadrock.(none)>
Date:   Tue Apr 3 15:47:18 2007 +0200


commit 207f710d16337839c2427aa16fad70a49834153e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 3 19:02:14 2007 +0930

    Delete all grabs from all devices when deleting a window.

commit 5f382c9c7fbd6e6ccfe8e76c28a90b55ff2f0aef3
Merge: 9b0b340668f09e168e2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 3 15:07:18 2007 +0930

    Merge branch 'master' into mpx

commit f09e168e234d0a9416e15f2916726b975cad293
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Apr 3 15:07:00 2007 +0930

    Revert "o fix minor error in comment for GetPointerEvents()"

This reverts commit 96ce17aa94413c4b8bcb61cae71167050130a307.

commit 9b0b3406682b5a3161e6c3895771523214c37207
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Make GrabDevice differ between core grabs and device grabs.

commit a39f297ada4fa87c858395ae2aacefac5f8fba05  
Author: Keith Packard <keithp@viola.jf.intel.com>  
Date: Mon Apr 2 14:15:36 2007 -0700

Don't erase current crtc for outputs on CloseScreen

Erasing this variable causes some outputs (SDVO on intel) to fail to be correctly reset at server reset time.  
(cherry picked from commit 56262a4ee943f328d089a8eb4aa70b9a4bd5d135)

commit 11797ffdcc22160317a5ebbc9291472570a51c6d  
Author: Eric Anholt <eric@anholt.net>  
Date: Mon Apr 2 18:21:58 2007 -0700

Move modes/ debugging output under Option "ModeDebug" in the Device section.

commit e44f106ffc796c025abdfb66717c06db8b12b4e4  
Author: Brian <brian@yutani.localnet.net>  
Date: Mon Apr 2 16:26:15 2007 -0600

clean-up, debug code

commit 8d8be8927760fad631be83fa2841b455ff6d511  
Author: Brian <brian@yutani.localnet.net>  
Date: Mon Apr 2 16:21:57 2007 -0600

fix formatting

commit 3e482de7b145a5eed79b81c30c359fe43647824a  
Author: Brian <brian@yutani.localnet.net>  
Date: Mon Apr 2 15:38:15 2007 -0600

checkpoint: more clean-up

commit 76a7a5ca1f068c27c9b5fbd49d5a1da80ed6f488  
Author: Brian <brian@yutani.localnet.net>  
Date: Mon Apr 2 15:24:05 2007 -0600

formatting fixes

commit 69baad321d35dae0bfa535be0c6ed2131fed1e60  
Author: Brian <brian@yutani.localnet.net>  
Date: Mon Apr 2 15:21:22 2007 -0600
clean-up dmxCoreMotion() dmxCoreMotion2()

commit 44eb15adeee3b299677070f39625daa53679bd13
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 15:12:04 2007 -0600

checkpoint clean-up

commit 0f873a9d4f02b399c37b4058c6a9a2e21aa205e8
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 14:51:38 2007 -0600

remove some debug code

commit 3a0ce1084a18e17a3c8a009d99c228652b8763a9
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 14:51:21 2007 -0600

for completeness, init dummy's min/maxval[1] values (vertical axis)

commit 12016f20f7f5365f30cfbeb05568b3f89759e5a
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 14:50:48 2007 -0600

As for normal mouse device, init valuator maxval[] to real values, not zero.

commit 0aaf28e5633a59563b89a2e42d19fabc84adc3ed
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 12:41:30 2007 -0600

In dmxBackendMouGetInfo() initialize the info->minval[], maxval[] arrays to the size of the backend display.

It seems that the changes to X input exposed a problem that wasn't detected before. The axis clipping code in GetPointerEvents() uses those limits to constrain the pointer's coordinate range. The max was zero so the pointer couldn't move.

commit 0013bf6dddb3867c9a504603434d8c2ec83f3f3bc
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 12:39:04 2007 -0600

undo 1280 valuator hack

commit 08a88d1803f672555141011e082fbc0edeedcf05
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 12:28:14 2007 -0600

Pass num_valuators=0 for ButtonPress/Release. This seems to fix the button coordinate problem
commit 70683e338dacc48e3adf489d66ec33b29dfc3b77
Author: Brian <brian@yutani.localnet.net>
Date:   Mon Apr 2 12:26:27 2007 -0600

formatting fixes

commit e8777a91f37d828b9df839bf3d9cf2f954bddd0
Merge: a12054757d 96ce17aa94
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 2 15:36:26 2007 +0930

Merge branch 'master' into mpx

Conflicts:

Xi/closedev.c
Xi/exevents.c
Xi/extinit.c
Xi/listdev.c
dix/window.c
hw/xfree86/common/xf86Xinput.c
include/extinit.h
mi/mipointer.c

commit 96ce17aa94413c4b8bcb61cae71167050130a307
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:50:02 2006 +1030

 o fix minor error in comment for GetPointerEvents()

commit a12054757d21edacc1c24e3077b9214726652829
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Apr 2 11:20:44 2007 +0930

 Xi:     fix ProcXListInputDevices to include the virtual core devices.

commit f2808005f4ee72c5f7f5f3dcca181306485113e
Author: Alberto Mardegan <mardy@users.sourceforge.net>
Date:   Sat Mar 31 16:51:24 2007 +0200

 Bug #6620: Fixed a missing 'else' in ATIPseudoDMAInit().

 Before this, we'd write some registers twice on R200 hardware and also
 possibly end up with a bad value in atis->cce_pri_size.

commit 5257b32e492bd2082beff6a4cd0efe03ce093c0f8
Author: Aaron Plattner <aplattner@nvidia.com>
Bump video driver ABI to 2.0 for cw change (commit 6ed08949af4f7ac09170d3d9581e4092b24a84ee).

commit 73fdc16bc4f4e21ff604b3f9ded23b40398fb1b6
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 16:07:26 2007 -0600

formatting fixes

commit ebdc8ce5c108dc3b6b0004e7c7939d1a5bef8676
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 16:05:46 2007 -0600

Checkpoint DMX updates: things are working much better now, but still not 100% right.

Use new dmxCoreMotion2() function which enqueues motion events with GetPointerEvents()/mieqEnqueue().
The clipAxis() code in GetPointerEvents() is causing some grief. The limits seem to have always been (0,0) according to the original calls to InitValuatorAxisStruct() in dmxininputinit.c.
Terrible hack for now: Call InitValuatorAxisStruct() with hard-coded max values of 1280 (my screen width).

commit e9130b8bac73a0843d5ff6b2216eccfb3e094a48
Merge: 2c6d471088 92e8c6dbd32
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Mar 30 13:39:15 2007 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit 3c7413e0c2f87e154aa8aa4a83bd585a6d1091e8
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 14:07:04 2007 -0600

Tweak some parameters, etc. Things seem a little better now, but still a ways to go.

commit 7989dadacdb1449b10d7733dda11cd96e260e9fae
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 13:44:24 2007 -0600

num_valuators=1 for GetPointerEvents(), hack ButtonPress/Release position

commit 1ea842960fddbc6363cc6e7f914d70ba45525a6b
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 13:43:15 2007 -0600

more debug
Checkpoint fixes to DMX for X input changes.

Xdmx builds and runs now.
Keyboard seems OK, and mouse pointer moves, but everything else is flakey.
Something is still seriously wrong.

commit d92da3d5f309392ac398c0975ef17bb04312d5e2
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 12:56:34 2007 -0600

more formatting fixes

commit 44acb2517d9fb07790d9d799aa9cc727d1b7d35c
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 12:54:22 2007 -0600

Fix some bad formatting.

Doing this:
  if (something) stmt;
is evil if you're debugging and want to break on stmt!

commit 9f24798af50896cc3262c1201f75610a688f2a83
Author: Brian <brian@yutani.localnet.net>
Date:   Fri Mar 30 12:49:34 2007 -0600

ompile fbcmap.c w/ -DXFree86Server instead of linking libfbcmap.a.
The former works, the later doesn't (DMX blows up on visuals/pixel formats).
This undos Daniel's patch, which undid my prev patch. Revisit someday.

commit 76756f27561c6386cba0d338441e8ec7b98500ce
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Thu Nov 30 04:20:32 2006 +0200

Make xf86glx.c unaware of Mesa internals

Use newly added XMesaCopyContext() and drop the GlxSetRenderTables() call for Xgl, as this is now done inside XMesaGetCurrent(). This leaves xmesaP.h but only for the declarations of the three XMesa/XFree86 functions. Also, GlxSetRenderTables() stays but is only used in hw/xgl/glxext/.

Also drop xf86glxint.h, no longer used.
Depends on mesa commit 7439a36785b6a2783e80a40a96c09db8f56dc2bc of 2007-03-30.

commit 63d8f01819ef44ea3bf0d4fb20ba1d698ae91cd2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 30 14:59:43 2007 +0930

dix: Fix wrong cursor refcount.

Calloc cursor struct to ensure devPrivates are zeroed out and don't increase the refcnt for devices automatically when allocating a new cursor. Use new DeviceIsPointerType() to detect if device is a pointer before device has been activated and can thus be identified and set up grab functions accordingly. This way we can increase the refcnt when we get a pointer grab.

commit 20e4314b178e1a093bce85e93329d4bcfb4f4210
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Mar 29 19:12:32 2007 +0930

dix: Try to get closer to the correct refcnt for cursors.

This commit introduces a memory leak, as the refcnt never seems to get down to 0 and thus cursors will not be freed. Solves the problems with GNOME segfaulting every 30 seconds though.

commit 307d2b57bbfcc281656011533627bea6ab98189e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Mar 29 15:23:41 2007 +0930

Xi: remove 'register' keywords.

commit 0c607f4b1902f993597e09ea7a2c83bc1cca9b96
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Mar 29 14:43:50 2007 +0930

dix: Pick keyboard instead of using virtual keyboard in Grab/UngrabKey.

commit 82a8b99a6c4601888560011913267d8af9dfe13
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Mar 28 15:17:02 2007 -0400

Move the XAA private indices to be static.

Technically this is an ABI break, if you aren't smart enough to be using the getter functions. Cope.

commit 8c7f56d92d8471ee059e14d322af5f7f555dd5c6
Bug #10296: Fix timer rescheduling.

commit 327bc332a61294209d39286228199f54bdde73d1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Mar 28 13:00:03 2007 -0400

xace: minor comment fixes.

commit 299ff4c82998d2a32204bfbecde4993dfb3d4a5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Mar 28 12:57:11 2007 -0400

xace: provide creation-time resource hook call in CreateWindow().

commit 99b220969f2f8ba8299b27ca90fd9311be4
Merge: 728ad64d97 82a8b99a6c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Mar 28 12:54:04 2007 -0400

Merge branch 'master' into XACE-SELINUX

commit 5ba4d9eeedf1b4ce4795bf910cd184872e2d9b3fc
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Mar 28 12:03:19 2007 -0400

Refuse to create tiny modes from EDID detailed timing.

commit 2c6d47108880584f1221ff86c6c8947627f9f607
Merge: c4fe1bcce1 8522044635
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Mar 28 08:08:04 2007 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

    hw/xfree86/Makefile.am
    hw/xfree86/dri/dri.c

commit 85220446359a75ea2c359b418b4051c04eea739c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Mar 28 13:03:32 2007 +0300

GL: Update for Mesa changes
Added s_fragprog.c to fix the build.
Enable Composite by default now that it disables itself in the known bad cases.

Disable composite when Xinerama is active.

It will likely take a decent bit of work to make that work right.

Disable Composite when the screen's visual is pseudocolor.

Rendering fails badly in this case, and I don't care enough to fix it.

Refuse to initialize Composite if Render is not present.

Composite relies on the presence of Render, in particular for the automatic compositing.

Move libcw setup to the only renderer requiring it (XAA).

Additionally, protect libcw setup behind checks for Render, to avoid segfaulting if Render isn't available (xnest).

The previous setup was an ABI-preserving dance, which is better nuked now.
Now, anything that needs libcw must explicitly initialize it, and miDisableCompositeWrapper (previously only called by EXA and presumably binary drivers) is gone.
Date: Mon Mar 26 16:04:50 2007 -0700

Fix indentation of fakexa help text.

commit 728ad64d979fd9e5cca28e8c15118c18d707c431
Merge: 0331c6a8fc 6a0bed16e8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Mar 27 13:16:40 2007 -0400

Merge branch 'master' into XACE-SELINUX

commit 6a0bed16e80a91891ee6c7033c90875bc2af193
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Tue Mar 27 16:51:12 2007 +0200

Fix typo in GL/mesa/shader/slang/Makefile.am.

commit b8f846a9dfce6697d59ad5482ba7e9d738875318e
Author: Dave Airlie <airlied@linux.ie>
Date: Tue Mar 27 14:17:40 2007 +1000

  gl: oops dodgy s appeared pointed out by jcristau on irc..

commit a63ee90bc2d490f6c5c1802c164391963cf6c1d9
Author: Dave Airlie <airlied@pegasus.(none)>
Date: Tue Mar 27 11:05:52 2007 +1000

  gl: update for latest mesa glsl-compiler merge

commit d387a3ddf76716791e5e8b8f0954ca0df3c579d6
Author: Dave Airlie <airlied@pegasus.(none)>
Date: Tue Mar 27 11:00:13 2007 +1000

  fix loading of GLcore after recent loading changes

commit 92ba435bd9aa7b6eca9af8e5193576ef62fc9db
Author: Eric Anholt <eric@anholt.net>
Date: Mon Mar 26 12:44:58 2007 -0700

  Update xorg.conf manpage for new RandR 1.2 monitor options.

commit 0331c6a8fcba1dc27ef45aaf5f694799d0085413
Merge: 84a066cc88 f7c5aa0dc0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Mar 26 10:28:05 2007 -0400

  Merge branch 'master' into XACE-SELINUX
Remove dead NEED_DBE_BUF_BITS code.

Since ddc, i2c, and ramdac are in core now, remove their ModuleData stubs.

Static cleanup on Xi/

General DIX static and dead code cleanup.

Static and dead code cleanup for Xext/

Static and dead code cleanup from mi/

Static cleanup for xf86 ddx.

Un-staticise VTSwitchEnabled, since kbd wants it apparently.
commit 70e493d223b1e943e652191150bd0b7e1a6ebcbf
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Mar 25 14:55:28 2007 -0400

    Static and dead code cleanup over afb/

commit f36bf1a3e4ce9465ea4a6159e209924a3cafe658
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Mar 25 12:28:13 2007 -0400

    Delete a dead file.

commit 9a0f25de7ca3c68af867b38936103d17daa92ac6
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Mar 25 12:27:01 2007 -0400

    Static cleanups, dead code deletion.

commit ac2356843e38b3400142bc54b65393c12976fc07
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Mar 25 09:41:33 2007 +0930

    dix: Increase allocation size for core keyboard keymap to avoid buffer overrun when copying keymap from extension devices.

commit 5f9e10e8da0d9d96ce00a38cdef9a8e3030063e03
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Mar 25 15:00:03 2007 +0930

    dix: Clean up DeviceIntPtr, prepare for Server 1.4 ABI. Move sprite-related information into a new SpriteInfoRec, remove isMPDev flag.

commit e54311395e1e7ae458c8e59da0914706e4a04f6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Mar 25 09:41:33 2007 +0930

    dix: Increase allocation size for core keyboard keymap to avoid buffer overrun when copying keymap from extension devices.

commit 1072b88a8f352484e70bc749e300c936e5600480
Author: Dave Airlie <airlied@linux.ie>
Date:   Sun Mar 25 10:06:00 2007 +1000

    loader: fix already built-in message

commit 804080a7096347d48c686f2e8fbd06326bce400
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Fri Mar 23 23:41:36 2007 -0700
Make pending properties force mode set. And, remove AttachScreen calls.

Yes, two changes in one commit. Sorry 'bout that.

The first change ensures that when pending property values have been changed, a mode set to the current mode will actually do something, rather than being identified as a no-op. In addition, the driver no longer needs to manage the migration of pending to current values, that is handled both within the xf86 mode setting code (to deal with non-RandR changes) as well as within the RandR extension itself.

The second change eliminates the two-call Create/AttachScreen stuff that was done in a failed attempt to create RandR resources before the screen structures were allocated. Merging these back into the Create function is cleaner.

(cherry picked from commit 57e87e0d006cbf1f5b175fe02eeb981f741d92f0)

Conflicts:

randr/randrstr.h
randr/rrcrtc.c

I think master and server-1.3-branch are more in sync now.

commit 1f77120775dc05fe84a00dd55190af2fa50ae509
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Fri Mar 23 14:39:10 2007 -0700

Ensure that crtc desired values track most recent mode.

desiredX and desiredY were not recorded during xf86InitialConfiguration.
desiredX, desiredY and desiredRotation were not recorded during xf86SetSingleMode.
(cherry picked from commit 36e5227215e0912ddf8a010db042467f00efe0fc)

commit 84a066cc88fe4326ddac04ab5ee1158a80571c33
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Mar 23 10:33:53 2007 -0400

xace: pass serverClient as default argument to dixChangeWindowProperty instead of NullClient.

commit 476f2b5aefa518262b69e487555e6094818d857a
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Mar 23 01:17:14 2007 -0700

Incorrect extra memory copy in RRChangeOutputProperty.
Left over from previous version of the code, this `memmove` will break when the mode is not `Replace`.

(cherry picked from commit 945aa0aa556429b50dea8e8ebc0008304b093eb7)

commit 7093367e3976bef5b9d219d9f2a7dc7dd3eeb091
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Mar 23 01:05:55 2007 -0700

Fix Pending property API, adding RRPostPendingProperty.

Pending Properties take effect when the driver says they do, so provide an API to tell DIX when a property effect is made. Also, allow driver to reject property values in RRChangeOutputProperty.

(cherry picked from commit 8eb288fd69c2ff0d02521d2c6a964c8180d08ec8)

commit 86d76390eb182f271f5a5dc19205e97a867f7e7
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Mar 23 01:03:40 2007 -0700

Make sure RandR events are delivered from RRCrtcSet.

Some paths were skipping the event delivery stage.

(cherry picked from commit 9ca7ba5d6012295a77ed773c656e786440da973d)

commit 510eaa346e68fd82c852c7b41fb0e2c5be12da78
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Mar 23 00:59:11 2007 -0700

Clean up xf86CrtcRec and xf86OutputRec objects at CloseScreen.

Erase pointers to structures which are freed at server reset time.

(cherry picked from commit 492c768065f49306a2194a88ed96b85de0ff4ff)

commit 479b2be4badab0a67b1f091fcb83c1364e27d783
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Mar 23 00:57:18 2007 -0700

Clear allocated RandR screen private structure.

Use `xalloc` instead of `xalloc` when allocating this structure to ensure consistent contents at startup.

(cherry picked from commit 16f4c0e1750824f2e5a001cef82a4122a7a2beb0)

commit b63e0d2545bb75e14d9de019a88f31e20a2f7377
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Tue Mar 20 07:17:27 2007 -0700
Clean up Rotate state on server reset.

The rotation state is stored in the xf86_config structure which is not re-initialized at server reset time. Clean it up at CloseScreen time.
(cherry picked from commit f8db7665dcd7af78ca4db2461e0bf787ec662cb1)

commit e1cc68add0bcdd5e0e4e15cf6ee8a3da136d3534
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 22 17:33:16 2007 -0400

xace: drop the name argument from the property callback.

commit c9fb8a35332d101897607d8f06ed5a6512eac7cf
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 22 17:23:26 2007 -0400

dix: move access codes to separate header file, add DixCreateAccess.

commit 1b766ffcc0647d5e9a9bf6938d33548d977b5535e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 22 15:55:35 2007 -0400

dix: reorganize property code to better support xace hook; requires new API for changing a property, dixChangeWindowProperty, taking an additional client argument.

commit 1b58304ae837735920747ed0f0d10ba331bdaeb7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 22 13:06:50 2007 -0400

xace: add new argument to property hook for property structure itself.

commit 5486be4898766205149fadce71529724eb78fbf3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 22 10:59:21 2007 -0400

dix: devPrivates support for PropertyRec.

commit f8cd19bd1692d12a6047c088a626a6ae715d469d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Mar 22 17:47:01 2007 +1030

Xi:      add GetClientPointer and GetPointerPairing requests.

dix:    use PickKeyboard for ProcSetInputFocus and ProcGetInputFocus instead of the core keyboard.

commit a3296d111dc4d76aa3afa7e338cbab93eb390ec4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
xace: add access_mode argument to selection hook.

commit 4e1f8069d5dd30a73277698503e9dce2e9d64c6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 21 16:17:14 2007 -0400

dix: add new selection fields supporting redirection.
This is a minor ABI break.

commit 4fa482b4be1150bcf2abb64d018c00ac5951e41
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 21 14:49:56 2007 -0400

xace: bump major version since the hooks have changed.

commit 9c144f8ac5cea25deaa543767dbaf371d029c608
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 21 14:39:00 2007 -0400

xace: add XACE_SELECTION_ACCESS hook for selection redirection/access.

commit 3e9f7a5504ab41d845e88f293d8498c963d8a7d8
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 02:35:31 2007 +0200

XFree86 DGA: Guard against NULL pointer dereferences.
Ass, u, me ...

commit f292de2ef13dc994a38029cee9e2642576893332
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 02:04:12 2007 +0200

XKB: Fix size_syms calculation bug

Apparently it needed to be nSyms*15/10, not *12/10; make it match the
other allocation code.

commit f34b9a20b0181d3c2641c305e91180711afbd4b9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 02:03:37 2007 +0200

XKB: Be a tiny bit more conservative with type allocation

Make sure size_types will _always_ be 0 if we don't have any types.

commit 021fc5cb2cb4a7972b4a6fcb570c1da92787d68d
Static markup and dead code cull over xkb/.

The former <X11/extensions/XKBsrv.h> has been pulled into the server now as include/xkbsrv.h, and the world updated to look for it in the new place, since it made no sense to define server API in an extension header. Any further work along this line will need to do similar things with XKBgeom.h and friends.

commit 9398d62f27ee1b287e4458fd8b011c10f7b59efd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 00:18:24 2007 +0200

XFree86 input: Add backwards compatibility for motion history
Add the old motion history API back, as a shim around the new mi API.

commit 0f75c47e0c5f4b2778930a6fabf894fc1dffd9d3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 00:12:02 2007 +0200

xfree86 input: Re-enable DGA support
Re-enable DGA support for relative mouse motion.

commit 80d29475b9a2ebbb303a8e324e09a15c528d5556
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Mar 21 00:10:38 2007 +0200

miae: Allow event handlers for arbitrary events to be set
Allow arbitrary events to use miae by letting custom handlers be set.

commit b8df961843a95b29258ae9c5d46ccfc620d8de1c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Mar 19 18:03:26 2007 -0700

Define XF86PM on Solaris x86 builds now that we have sun_apm.c

commit 2945deba1d4a7dce4f6dd0c568297a1c537fdeb4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 19 17:09:10 2007 -0400

xace: drop XACE_WINDOW_INIT hook, it has been superseded by ResourceStateCallback.

commit 78c962da76efe644b8d485265f1ecdada84b45d27
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 19 17:04:51 2007 -0400
commit 6a89106e9c963a4956d40427d242ba0abd44f764
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 19 16:51:29 2007 -0400

xselinux: use the new ResourceStateCallback instead of the XACE_WINDOW_INIT hook.

commit 0acf993e2878d0866fd4e2db8252c1ea6841e494
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Mar 19 16:11:01 2007 +1030

xselinux + security: remove confusing CALLBACK macro.

dix: Move sprite initialization/pairing from ActivateDevice to EnableDevice.
    zero out spriteTrace, otherwise GetCurrentRootWindow() may return invalid data.

    Evdev adds previously hotplugged devices on its own when rescanning, and ActivateDevice does not get called for those devices. Sprites need to be initialized or paired before the device gets started, so the safest place to do so is EnableDevice (which actually does get called by the evdev driver).

commit 015d728bcde5b16a72a976579755421e3023626b
Merge: 65b0eb60b0 b167583fe2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Mar 19 09:42:56 2007 +1030

    Merge branch 'master' into mpx

Conflicts:

    dix/devices.c
    dix/events.c
    mi/misprite.c

commit 720f302d241e88e6e9f2962207da1aa9a79728b7
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Mar 17 20:14:05 2007 -0700

    Slow down DDC I2C bus using a RiseFallTime of 20us for old monitors.
    This time value makes the bus run slowly enough for even the least reliable of monitors. Thanks to Pavel Troller for finding the necessary change.

commit b5a8a71e64c76b8dd42962cb7984215c6ce4aa8
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Mar 17 17:26:11 2007 -0700
Remove extra (and wrong) I2C ByteTimeout setting in DDC code.

The DDC code sets the I2C timeouts to VESA standards, except that it had an extra setting of the ByteTimeout value which was wrong (off by a factor of 50). Removing this should help DDC work on many more monitors. Note that the Intel driver duplicated these settings, along with the error. Yay for cult and paste coding.

commit 2489dae9f7def788910eee5733931392df83a0d6
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Mar 15 20:26:07 2007 -0700

Correct ref counting of RRMode structures

RRModes are referenced by the resource db, RROutput and RRCrtc structures. Ensure that the mode reference count is decremented each time a reference is lost from one of these sources. The missing destroys were in RRCrtcDestroyResource and RROutputDestroyResource, which only happen at server reset time, so modes would be unavailable in subsequent server generations.

commit 9d0c3b52f25df89738fb1a62ccffda8c8cb4689
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Tue Feb 20 23:04:26 2007 -0800

Eliminate RRModeRec devPrivate field.

The xf86 mode setting code was mis-using this field to try and store a pointer to a DisplayModeRec, however, each output has its own copy of every DisplayModeRec leaving the one in in the RRModeRec devPrivate field pointing at a random DisplayModeRec.

Instead of attempting to rectify this, eliminating the devPrivate entirely turned out to be very easy; the DDX code now accepts an arbitrary RRModeRec structure and set that to the hardware, converting it on the fly to a DisplayModeRec as needed.

(cherry picked from commit 3506b9376c2b0db09bfff58d64e07af88a6e8195)

commit 2c93083edd29a65e73bb2e8eff9d353e92845c9b
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Sun Feb 18 23:49:38 2007 -0800

Add support for user-defined modelines in RandR.

The RandR protocol spec has several requests in support of user-defined modes, but the implementation was stubbed out inside the X server. Fill out the DIX portion and start on the xf86 DDX portion. It might be necessary to
add more code to the DDX to insert the user-defined modes into the output mode list.
(cherry picked from commit 63cc2a51ef87130c632a874672a8c9167f14314e)

Conflicts:

randr/randrstr.h

Updated code to work in master with recent security API changes.

commit b167583fe234a536aa6187e17f21da85be4f0b7f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:50:02 2006 +1030

  o fix minor error in comment for GetPointerEvents()

commit 65b0eb60b0b9e6405aa2e3d4c712ec4d2f0da070
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 16 15:52:24 2007 +1030

  Xi:     move IsPointerDevice into dix.
  dix:    IsPointerDevice and IsKeyboardDevice, use same ways to identify type
         of device as XI does for the XListInputDevices reply.
         Autopair each non-pointer device with VCP when activating, pair with
         real device after activation.
         Don't return non-keyboard devices when calling GetPairedKeyboard or
         PickKeyboard, otherwise we segfault for 'evdev brain'.

commit 3bffb281260476d2f74f0bf451d85d2f7cacd6c4
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Mar 15 16:16:16 2007 -0700

  Don't wedge when rotating more than one CRTC.

  Rotation block handler was re-registering the rotation damage structure,
  creating an infinite loop in the damage code. Track registration of the
  damage structure to avoid this.
  (cherry picked from commit b14f003b0ed1252766c9e3b1c086ea2809521047)

commit 9562b6abe1da566cf73a08c4f4c4339fb67fbc71
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Mar 15 10:50:45 2007 -0700

  Allow xf86_reload_cursors during server init.

  xf86_reload_cursors is supposed to be called from the crtc mode setting
  commit hook; as that happens during server initialization, check for this
  case.
Set the RandR version returned, rather than just passing the proto's version.

Fix calculations in x86 emulator for the long long case (Andreas Schwab).

Create driver-independent CRTC-based cursor layer.

This moves most of the cursor management code out of the intel driver and into the general server code. Of course, the hope is that this code will be useful for other driver writers as well.

Check out xf86Crtc.h for the usage information, making sure you add the needed hooks to the crtc funcs structure for your driver.

kdrive: update kdrive to new mi API with additional device argument. Includes an update of ati_cursor.c and i810_cursor.c
commit ce9409acebd994cf1809050f2cc8e1db66130f12
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Mar 13 19:16:56 2007 +1030

dix: Get the state from the paired device and the real device to fill the
state field in the event, rather than using the virtual devices.
   ProcessPointerEvent: name argument "device" instead of "other".
   Add GetPairedKeyboard().

commit 4bf1b280ff7cb676ec2b172f36dd2ad9bac2eb2ca
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Mar 9 14:18:14 2007 +0000

   Set pScreen on context

commit c366b82bd50066019cf82b3464445d5bc27d6f9f
Author: Jay Estabrook <Jay.Estabrook@hp.com>
Date:   Fri Mar 9 12:26:55 2007 +0000

   Ensure domain is stripped from the bus ID.

commit 577464af4362e5a32cf7165b5128655dd86c6200
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 9 17:13:05 2007 +1030

dix: restore commit b3b2a6a0d43d1724e04d69588f8a55c3270e5523 that for some
   reason got wiped.
   fix ProcGrabKeyboard to use PickKeyboard
   fix PickKeyboard to actually work.

commit 07806f4081f88dc3b5733b590eb6e5b4cae734ad
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 9 15:45:25 2007 +1030

   Xi: Add SetClientPointer request handling.

commit 405483496538f1c82c6d7fe1e76c5d94e1a90525
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 9 14:16:23 2007 +1030

   mi: remove 'register' keywords.

commit fe058a75a10ec080e7ec34bff6936103185586b3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 8 12:14:30 2007 -0500

devPrivates rework: pass address of pointer to private callbacks instead of
   the pointer itself.
commit 18339375cd332f0ab1cbdade3dcd9140212ce1ca
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Mar 8 12:14:06 2007 -0500

xselinux: remove context validation function for now.

commit b9eff1670f29949a5bc41afc19aca443f434febb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Mar 8 12:13:52 2007 -0500

Add ResourceStateCallback similar in function to ClientStateCallback.

commit 2fcb45eb5dc1803b372df8b5765f6a43bea83611
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Mar 8 12:13:36 2007 -0500

devPrivates rework: redo field offset registration, drop RC_PRIVATES class.

commit 947f8d249bac61beb10669d935888c4c280b5062
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Mar 8 12:13:18 2007 -0500

devPrivates rework: redo interface again, dropping parent and type parameters as well as preallocation routine.

commit c45f6762080ef00b41d9f73441a9f0e605253008
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Mar 7 11:22:42 2007 -0500

devPrivates rework: hook up new mechanism in backwards-compatibility mode on existing structures that support devPrivates.

commit b3b2a6a0d43d1724e04d69588f8a55c3270c5523
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Mar 8 22:16:17 2007 +1030

dix: Check if client has a grab on any other device before mouse/kbd event is delivered to the client. Client's don't cope well with receiving core events from other devices when having a grab on a pointer or keyboard.

commit 63169ce52d354b4345defc46b89f0ea88379718f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Mar 8 17:50:19 2007 +1030

dix: remove 'register' keyword for all variables.
commit ceca5670fee99b5feceaa2453f1ac32d1bfe7dcd
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:    Thu Mar 8 17:17:23 2007 +1030

dix: Each device needs to differ between a core grab and an XI grab, 
otherwise a Xi grab may overwrite or release a core grab. 
Replace grab and associates with coreGrab and deviceGrab structures, 
adjust rest of dix/Xi/etc to compile.

xfree86: Don't check for core devices, we'll have the virtual ones anyway. 
If we check, the first mouse device is duplicated and sends 
double events.

commit 40ae4f246d8818410490236ab183204a84765629
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Wed Mar 7 20:52:31 2007 -0800

Remove stale monitor data when output becomes disconnected.

Remove parsed EDID and EDID property from disconnected outputs. 
(cherry picked from commit ae9d5aa479dd50cc81b755079fcf96a0d02f135a)

commit b5fde366e2e21234ac0b81222fd5c42ca3e49cba
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 7 12:29:55 2007 -0500

Properly free device devPrivates - memory leak fix.

commit a3d2c5d622d9ca36d6fa2966aff09524e3ea39ac
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Mar 7 11:02:47 2007 -0500

XORG_VERSION_CURRENT, not XF86_VERSION_CURRENT.

If only this was the least wrong thing in this code.

commit aaef4d6a4121d9341b670a0ce8fabc3b491049cf
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 7 09:57:02 2007 -0500

devPrivates rework: move reset functions into a single call.

commit bb111291d854b4329e47367ce3c67e8a2785e6e9
Merge: 74175e0af7 e9bfb2b3d7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Mar 7 09:03:46 2007 -0500

Merge branch 'master' into XACE-SELINUX
Xi: Don't deactivate core grabs from non-core button/key releases.

dix: set coreGrab flag for grabs caused by GrabPointer and button presses.
remove virtual core devices from device list, only real devices are in
the list now.
Auto-pair each keyboard with a real pointer if one is available,
provides multiple keyboards automatically after startup if devices
are configured.
fix GuessFreePointerDevice() to do what it's supposed to do.

mi: fix: call miPointerMove from miPointerWarpCursor.
fix: remove unused id field from miCursorInfoRec
don't update sprite for virtual core pointer.

Add hw/xfree86/docs/README.modes, documenting new mode setting APIs.

This document covers both API and xorg.conf usage of the new mode setting
APIs.
(cherry picked from commit a59c31b0f7b94ed1f395c7586c37ef5fe7ba2a25)

Add xf86CrtcScreenInit to share initialization across drivers.

xf86CrtcScreenInit performs initialization that needs to happen at
ScreenInit time.
(cherry picked from commit 558a4f5588ad2ec11254ae0b5d6ce9515b137369e)

remove PIXPRIV check as this flag is always set.

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36344
remove PIXPRIV checks as this flag is always set.

commit 024bbc7cb924daaf3e305ddf8e74509acd1e15  
Author: Eric Anholt <eric@anholt.net>  
Date: Tue Mar 6 16:18:59 2007 -0800  

Bug #9931: Fix linear allocations with a non-1-byte granularity.

This was introduced in 83080809f9a1c1d24b0318e54632f125f5940da25. Instead of aligning the offset, it doubled it. Results were appropriately spectacular.

commit 9d94c137596d3f9d9118ec70455b7a30b3582046  
Author: Ben Byer <bbyer@apple.com>  
Date: Tue Mar 6 11:09:30 2007 -0800  

updated todo list

commit 81d581e655fc989da3be4256b83849a63b8607b7  
Merge: a05ffca8dd d5aba03fef  
Author: Ben Byer <bbyer@bbyer.(none)>  
Date: Tue Mar 6 10:37:29 2007 -0800  

Merge branch 'master' of git+ssh://bbyer@git.freedesktop.org/git/xorg/xserver

commit a05ffca8dd0da9bdb5c1bf4c81028aeabf21e34  
Author: Ben Byer <bbyer@bbyer.(none)>  
Date: Tue Mar 6 10:36:51 2007 -0800  

rewrote event handling, Xquartz now has working mouse and keyboard. use it!

commit d5aba03feff41722c72b4c6193f09d141cbf1678  
Author: Drew Parsons <dparsons@debian.org>  
Date: Tue Mar 6 23:53:23 2007 +1100  

Xprint: shorten font filename to fit in tar length limit

The length of the Xprint font file NewCenturySchlbk-BoldItalic.pmf pushes the full path over the traditional 100 character limit for tarballs (when module version number is included). Shorten it to NewCentSchlbk-BoldItal.pmf to get back below the limit and rename other font files in that family to match.

commit 3206e9225897989638ad553e1f392b918ac4d21f  
Author: Ben Byer <bbyer@bbyer.(none)>  
Date: Tue Mar 6 02:31:59 2007 -0800  

moved new event-handling code from X11Application.m to darwinEvents.c in preparation for making all Darwin
servers use it

commit 0ccd1443fd6db397b42e5b99ce733ce1316c785e
Merge: ec1ef8a56d 9b6bb06f13
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Tue Mar 6 01:04:50 2007 -0800

    Merge branch 'master' of git+ssh://bbyer@git.freedesktop.org/git/xorg/xserver

commit ec1ef8a56d6217ca2b04899043874ce0bcd9784
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Tue Mar 6 00:57:23 2007 -0800

    Fixed Darwin's Makefile.am to fix a problem building X11.app

commit 9b6bb06f13a71f6078f762b4a78fa516faccb638
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Mon Mar 5 23:49:35 2007 -0800

    Allow relative positions to use output names or monitor identifiers.

    Previous version used monitor identifiers if present, otherwise output
    names. That caused existing working configurations to break when additional
    information was added to the configuration file.
    (cherry picked from commit 3f5cedf00a82f08a433ec95fb7f8ac69dcf6a50)

commit bed76caa6caae66a6a6598755b82a54425a9d9fl73e
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Mon Mar 5 23:36:00 2007 -0800

    Use EDID data to set screen physical size at server startup.

    Screen physical size is set to a random value before the RandR code gets
    control, override that and reset it to a value based on the compat_output
    physical size (if available). If that output has no physical size, just use
    96dpi as the default resolution and set the physical size as appropriate.
    (cherry picked from commit 843077f123a1b49bd712d931421753c3a09d4008c)

commit 47f8361c3a64834587e54507653d8d5b258c2530
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Mon Mar 5 22:07:01 2007 -0800

    Add xf86SetDesiredModes to apply desired modes to ctc

    xf86SetDesiredModes applies the desired modes to each crtc (as selected by
    xf86InitialConfiguration initially and modified by successful mode settings
    afterwards). For ctc without a desired mode, pScrn->currentMode is used to
    select something workable.
(cherry picked from commit bcade98ccaa18298d844a606cb44271f0254e185)

commit 33d2cf93fb50464941e74efe246b10aee212223a
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Mar 3 23:10:31 2007 -0800

Move xf86SetSingleMode into X server from intel driver.

This function applies a single mode to the screen (as from RandR 1.1, XFree86-VidModeExtension or XFree86-DGA) using a policy that selects one output to reconfigure to the requested mode and then makes all other outputs fit within that size.

(cherry picked from commit 5a595c1f767a8d666348b845d18934ae0cfe38f)

commit 689d52b6242434507a64a84ff27b01607628c393
Author: Jens Granseuer <jensgr@gmx.net>
Date:   Mon Mar 5 15:31:44 2007 -0800

Bugzilla #7145: fix build with gcc 2.95

Bugzilla #7145: <http://bugs.freedesktop.org/show_bug.cgi?id=7145>
Patch #8987: <http://bugs.freedesktop.org/attachment.cgi?id=8987>

commit 74175e0af74c530cb712a6772d3c5d61d1be9748
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 5 12:34:37 2007 -0500

devPrivates rework: remove some debugging code from dixFreePrivates.

commit 23fc429aad5b2721911862617772c314e1036bb0
Merge: e684824709 fe7b8f4237
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Mar 5 12:18:54 2007 -0500

    Merge branch 'master' into XACE-SELINUX

commit e684824709fa8ffe03dde3c8dfbc58c267515a4f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 1 15:00:02 2007 -0500

    devPrivates rework: redo interface and implementation.

commit fe7b8f4237874e3e45fe25a6bf06faddfa1ab8e1
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Mon Mar 5 03:48:27 2007 -0800

    began to factor out code to move to darwinEvents.c
started moving new input code into darwinEvents.c so that it may be shared by the three servers

dix: Add GuessFreePointerDevice(). Runs through device list and tries to find a pointer that hasn't been paired yet.

xfree86: Use GuessFreePointerDevice() for newly connected non-sprite devices.

add a standard connector type and name for us as an output property

modes: add commit/prepare hooks

Merge branch 'master' into mpx

Remove debugging ErrorF from rotation code.
(cherry picked from commit e6af7569f201842b4754aec6e72b30dc2daefdfb)
commit c14507b6837387d867792a24778786311b2b38d5
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sun Mar 4 17:06:37 2007 -0800

Handle non-zero origin rotated crtc. Damage crtc area on re-rotate.

Box transformation from source to dest area was broken, leaving the wrong
areas painted when the crtc origin was non-zero.

When rotating from left to right, the pixmap doesn't get reallocated, and so
no damage was left in the pixmap from xf86RotatePrepare. Separately damage
the whole crtc area when this occurs to repaint the area.
(cherry picked from commit 2a50ca2160bc05af1c24421ec079e902ff730277)

commit 97978b515b7af5fbaaa32b1729e835f3b9f5c6
Author: Drew Parsons <drew@pug.localdomain>
Date:   Sun Mar 4 16:28:54 2007 +1100

Xprint: fix font symlinks

Change symlinks to Xprint base fonts in model/PSdefault using local
relative links. This facilitates moving the Xprint config files, for
instance for FHS compliance placing data files in /usr/share rather
than /usr/lib. Also ensures NewCenturySchlbk-BoldItalic.pmf is
installed.

commit 215e3691b76a63e6af19865790193b20b105ec5a
Author: Ben Byer <bbyer@xyzzy.local>
Date:   Sat Mar 3 21:52:56 2007 -0800

stopped using XTrans internals in X11.app because they're apparently no longer public

commit ea8dce458ea8870126cf8d3e21cab9d63d094c5e
Author: Ben Byer <bbyer@xyzzy.local>
Date:   Sat Mar 3 21:51:20 2007 -0800

Makefile fix for X11.app

commit 18508212599bf0964c450c69b9790208e5d428be
Author: Ben Byer <bbyer@xyzzy.local>
Date:   Sat Mar 3 21:41:33 2007 -0800

fixed X11.xcodeproj to get CFARGS and LDARGS from autoconf script

commit 7f2b9f3790456044d01bf8e6404f9a1239b41da6
Author: Ben Byer <bbyer@xyzzy.local>
Date:   Sat Mar 3 19:27:53 2007 -0800
autoconf fixes for XDARWIN (created DARWIN_LIBS)

commit 12175b668a94e23994f724b366a691ec312ccee69
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:50:02 2006 +1030

  o fix minor error in comment for GetPointerEvents()

commit ea1a72946d1aa4c256e6af9d834c582ba4ac3a1
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Feb 28 14:26:47 2007 -0800

Add a canGrow argument to xf86InitialConfiguration.

canGrow indicates to the DDX that the driver can enlarge the desktop via the
xf86_config->funcs->resize hook. If so, xf86InitialConfiguration will set
virtual[XY] to match the configuration it chooses and will leave the crtc config
size ranges alone. If FALSE, it will bloat the screen to fit the largest probed
mode and also set the crtc config max size to limit the desktop to the initial
virtual[XY] size.

commit 04d15da95d608766c7832a7a881be499e1395ba
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Feb 28 13:36:58 2007 -0800

Add a screen resize hook to xf86CrtcConfigRec.

This hook is called when the DDX needs to resize the screen. The driver is
responsible for changing virtualX and virtualY, along with any other related
screen properties (devPrivate.ptr, devKind, displayWidth, etc.).

Use the size range from the crtc config instead of randrp->virtual[XY] when
reporting the min and max screen sizes to the DDX.

commit b11dfac287d65dc7b83f63749087cba4e8daf4a
Author: Matthias Hopf <mhopf@suse.de>
Date:   Fri Mar 2 12:30:26 2007 +0100

Legacy framebuffer support wasn't compiled if Xorg wasn't explicitly enabled.

commit 57aa5e908dc11d5d8c27ed705c526f1416c1e8ad
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 2 17:14:37 2007 +1030

dix, Xext, Xtrap, Xi: replace inputInfo.pointer with PickPointer where
possible. More replacements to come.
commit e43b8a4e40991ca6e545bda4cf9b9bd7a2bf22e2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Mar 2 15:21:46 2007 +1030

dix: Add ClientPointer to client, used for picking which pointer to use in
ambiguous request. PickPointer and PickKeyboard are used for getting
the appropriate pointer when situation is unclear.
Fix some issues with InitializeSprite.

dix, xfree86: Remove last traces of InitSprite.

commit 2dafc46e3d814e02b25e5a2fa2e931f0257402a8
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Thu Mar 1 17:44:39 2007 -0800

Fixed pointer events in Xquartz -- Keyboard events work, but
the keycodes are incorrect.

commit 74f1de1de9633119ce2ef26086875717181c8a6f7
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Mar 1 12:07:33 2007 -0500

devPrivates rework: unhook resource system; will try a different approach.

commit 39ecd6fff4f946deebe310b4b26b171c842db223
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Thu Mar 1 01:45:19 2007 -0800

Rewrote parts of the Xquartz event-handling code (thanks daniels and whot!)
It should still be considered a work in progress, but mouse events almost work.

commit ed7ccc481ad1caa518cafe944e2327a5d0b6c65
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Thu Mar 1 00:51:10 2007 -0800

AIGLX support for Darwin -- works well enough to run
glxgears and glxinfo, but still needs more testing.

commit 43bd35fcf85b51b7e5714844bade90184dbd746f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Mar 1 17:19:37 2007 +1030

dix: Remove InitSprite, work can be done by InitializeSprite.
Free sprite struct if a spriteOwner is paired.

xfree86: Use PairDevices instead of passing booleans around when creating a
sprite.
Xext: Switch back to using LookupPointer/KeyboardDevice instead of inputInfo.xyz.

commit 90ca76ba28fcd8bed945e33cf9674784fa2eb533
Author: Jay Cotton <jay.cotton@sun.com>
Date: Wed Feb 28 17:40:58 2007 -0800

Add sun_apm.c for Suspend-and-Resume support on Solaris


commit 06c3021aec720837bef432656e88ae9b4e35101d
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Wed Feb 28 16:09:11 2007 -0800

Don't crash setting a NULL mode with a randr classic DDX. Also remember to update the screen size during modesets.

commit 68c64ad7b1ee79c786b5a7f3459076780163a47
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Mar 1 09:51:20 2007 +1030

Xext: Update device's lastx/lasty when sending a motion event with XTest.

commit 8b245758845523d5f8f017bb9d0e9a57b616c28
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Mon Feb 26 17:45:40 2007 -0800

Return BadMatch if a client tries to clone non-cloneable outputs.

commit 2a35d44b6d87f96a7ce90dc8f0142f48cc176e95
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Feb 28 15:43:06 2007 +1030

Update device valuators on XTest motion event, otherwise the cursor jumps between coordinates stored in device and coordinates sent by the event.

commit d9bcb22d199e8444b9762a35754e04d327dd5915
Merge: 272d9341d0 c16343ac2c
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Tue Feb 27 16:28:20 2007 -0800

Merge branch 'master' of git+ssh://bbyer@git.freedesktop.org/git/xorg/xserver

commit 272d9341d0f7c3e9e0e9b9a8e0d4d8779cdcc5cf
Author: Ben Byer <bbyer@bbyer.apple.com>
Date: Tue Feb 27 16:27:26 2007 -0800
fix for hw/darwin/Makefile.am to properly use XSERVER_LIBS

commit c16343ac2ca18391b21022b2edd02ad9f413d2b3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Feb 27 14:14:47 2007 -0500

Make mfb, cfb, and afb support configurable at build-time.

commit 5680efc0d2baf0a9451e82e490e3690fc23dda0f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Feb 27 09:55:48 2007 -0800

Sun bug 6529003: Xorg should not be including <sys/immu.h> on Solaris

<sys/immu.h> was removed from the latest Solaris Nevada build, but it's been useless to Xorg for a long time (it only declared a couple of kernel variables)

<http://bugs.opensolaris.org/view_bug.do?bug_id=6529003>

commit ab0fc8c1ad7ea2dc3389a4a4bb1c45bbded5e7ad
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Tue Feb 27 00:14:35 2007 -0800

verbiage corrected per daniels

commit cdd4c84572cc3bdd004f8dca6d8b64e71034ac0
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Mon Feb 26 23:57:02 2007 -0800

added hw/darwin/README.apple file with some todo items and props.

commit 776d4d6587c57f94bca8732f915d07a0d4e137c8
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Mon Feb 26 23:40:00 2007 -0800

X11.app now builds correctly

commit 154d2c13f4ec22c7e6332808bbced049d63784891
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Mon Feb 26 19:39:26 2007 -0800

more changes for X11.app

commit fa06e11f972e2a75c84b2f1586997ff1239cb9
Author: Ben Byer <bbyer@bbyer.apple.com>
Date:   Mon Feb 26 17:06:53 2007 -0800

added hw/darwin/apple directory, which contains source and data files to build
a version of the X11.app shipped with Mac OS X, using the X.org server.

commit a16360733ea393ec1fc267e88fc604d9d7534484
Author: Jay Estabrook <Jay.Estabrook@hp.com>
Date:   Sun Feb 25 19:58:26 2007 +0000

    Fix root bus/domain selection on alpha

commit 566610680c4e1cab3e7fc7146adbeaba52fdd0ad
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Fri Feb 23 15:20:35 2007 -0500

    Don't install libi2c.a

commit 81372f9096b952f4be545654b0b44ac37ef4f2c2
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 23 13:23:12 2007 -0500

    devPrives rework: hook up new interface in resource system; add new
resource-adding function that takes an additional ScreenPtr argument.

commit 16f2b8892d9ebcefe6410a675d10549043223f617
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 23 13:20:43 2007 -0500

    devPrives rework: add new interface implementation.

commit 779faccfb78648a9f7e70b77defa9f6e19559772
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Feb 23 13:19:53 2007 -0500

    devPrives rework: add dix header file containing new interface.

commit bc4ae25433e38a25a2012f9f233d50065172a4b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Feb 23 12:06:51 2007 +1030

    xfrees: Don't initialize sprites for devices that don't own a sprite (stops
keyboard hotplug segfaults)

commit af550ea91c451cf4f831c2413266a19d1f211d0e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Feb 22 14:38:40 2007 -0800

    Move SecurityPolicy file format from Xserver(1) to it's own man page

Don't make users looking for Xserver information page through pages of
details only interesting to the handful of people writing security policies.
commit b1142edbc76fed8cb22ba6d7ac027751dd56a76
Author: Brice Goglin <brice.goglin@ens-lyon.org>
Date: Thu Feb 22 12:26:04 2007 -0800

Bug #10034: 'man Xserver' typos: s/dqoute/dquote/

Bugzilla #10034: <http://bugs.freedesktop.org/show_bug.cgi?id=10034>
Patch #8780: <http://bugs.freedesktop.org/attachment.cgi?id=8780>

commit 4b8b0e377a27ec904b2028c89aed11c6416af26c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Feb 22 20:00:59 2007 +1030

Xi: Add access control request handling.

dix: New file access.c to handle all access control for devices.

devPrivates rework: add RC_PRIVATES class, make ResourceRec visible in
the API, and add extra fields and structure supporting private storage.

commit 9a3eb0357e779d5d5f76858f23667956ec4c5d721
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Feb 16 19:30:03 2007 -0500

devPrivates rework: add RC_PRIVATES class, make ResourceRec visible in
the API, and add extra fields and structure supporting private storage.

commit cd0af7a7856e8246e27acc5513d219a094211625
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Feb 21 10:08:41 2007 +1030

Xi, dix: Only one client at a time can change the pointer-keyboard pairing,
using xRegisterPairingClient request.

commit 3344a4eda704edc7dc30037f095de277a60a70bb
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Feb 15 16:27:50 2007 +0100

DRI: Make sure number of DRI windows is accurate in driver ClipNotify hook.

Always call DRI[{De,In}creaseNumberVisible (which in turn calls
DRIDriverClipNotify) after updating pDRIPriv->nrWindows.

commit 3c7a27dc77595ad018bb7c4f7cef6bc178268cb6
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Feb 14 16:17:18 2007 +0100

DRI: New ClipNotify driver hook.

The hook is called whenever the clipList of any DRI window changes, be it via
DRIClipNotify, DRICreateDrawable or DRIDrawablePrivDelete. This allows the
driver to keep track of which DRI windows are visible where.

commit eedf148e5a1273ebb4dc8dcac9c435712fc00ea
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Fri Feb 2 18:27:40 2007 +0100

Track number of visible DRI windows separately for transitions.

This allows e.g. doing page flipping with multiple DRI windows as long as
only one of them is visible.

commit 8a42af6a935b1cf0e15102e986bb527f4fab31a8
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Feb 19 15:28:37 2007 -0800

Check for clientGone before sending events from XFixes (bug #1753).

Freeing resources during client closedown can cause cursor changes which
attempt to send cursor events through the XFixes extension; a client in the
process of closing down has no file to send events to, causing a crash when
this path is hit.

commit 4660eaaffb36f526f71d5847ae1309e10ee133c6
Author: Ben Byer <bbyer@bbyer.(none)>
Date:   Sun Feb 18 14:09:51 2007 -0800

 configure fixes for darwin

commit 5631a67f648f5f151a849a918ee12871c71c32e9
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Fri Feb 16 10:06:22 2007 -0800

Don't set subpixel order during startup; the screen won't be ready.

in xf86CrtcSetMode, scrn->pScreen will be NULL during server startup time,
so don't try to set the subpixel order. subpixel order will be set in the
randr initialization anyways.
(cherry picked from commit 5f6f8616d862ce4a37f6d3df4bdcb44fd21cc82a)

commit 096965ee9c7514f0c9fc0d17e5166f2d26781f87
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Feb 16 02:17:11 2007 -0800

Ensure drivers can use new modes header files.

New modes header files required a few minor changes to be used by external
drivers, the most notable of which is the publication of the config file
parser header files.

commit 55797dd252382d35ebab5d9e18a5e0e77872d775
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Feb 16 00:56:00 2007 -0800

Respect rotation in initial screen size computation.

commit e4507825bf0328ea59673f2bbe652dc3a9105c86
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Fri Feb 16 00:41:29 2007 -0800

Enable startup-time rotation; change rotation pixmap creation API.

Add monitor "Rotate" option taking one of "normal", "left", "inverted" or
"right". However, because initial mode selection is made before the screen
is completely initialized, we cannot create the shadow pixmap object at this
point. Pending the shadow pixmap creation until the block handler.

Note that this code is not completely functional yet.

commit 8606aeb9b2ab2dacf11e64436db4d3a7e67dbcc0
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Feb 15 22:23:16 2007 -0800

RRConfigureOutputProperty is a variable length request.

Replace REQUEST_SIZE_MATCH with REQUEST_AT_LEAST_SIZE

commit a88844eccc0e423e71d4fcb286866a026308b9bd
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Feb 17 20:35:07 2007 +0200

configure.ac: disable dmx per default

Disable DMX until it gets ported to the new input API.

commit e9a2cc7d9f7e73e16576be2522522ce675de3f3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Feb 17 16:17:48 2007 +0200

config: error message cleanup

Demote failure to connect from ErrorF to DebugF.

commit 81876bc5dcd2f3eda5078fe4bd101917f32e586
Author: Ben Byer <bbyer@apple.com>
Date:   Sat Feb 17 04:07:11 2007 -0800
oops, missed a spot

commit d287b76471f66c9aea54f969d050b35643cb2501
Author: Ben Byer <bbyer@apple.com>
Date: Sat Feb 17 03:47:42 2007 -0800

cleaned up some linking ugliness in hw/darwin/quartz

commit 81444486be4f182dde778bac6f7edcbfc4368482
Author: Ben Byer <bbyer@apple.com>
Date: Sat Feb 17 02:23:11 2007 -0800

autoconf goodness for XDarwin, courtesy of pogma

commit cf4994b0db2fef4c10ce8804adef766bc5118daf
Author: Ben Byer <bbyer@apple.com>
Date: Sat Feb 17 01:21:43 2007 -0800

dix mods for Darwin

commit cece0601571f6304e392a3a40505664544b249f3
Author: Ben Byer <bbyer@apple.com>
Date: Sat Feb 17 01:00:13 2007 -0800

build fix for configure.ac / BUILD_DARWIN, oops

commit 00b0657b815b95964401c3e36eed54063afbd003
Author: Ben Byer <bbyer@bbyer.(none)>
Date: Sat Feb 17 00:55:32 2007 -0800

glx fixes for XDarwin

commit 937777c7b96e560da087963040e372acebfca7bbc
Author: Ben Byer <bbyer@bbyer.(none)>
Date: Sat Feb 17 00:22:39 2007 -0800

more patches to make the Quartz part of XDarwin work again
(thanks Peter and Torrey!)

commit 612144c811fddf06b7e03cf48a321388fe411acd4
Author: Ben Byer <bbyer@bbyer.(none)>
Date: Sat Feb 17 00:09:58 2007 -0800

More build fixes / updates for XDarwin:
  quartz/cr: "Cocoa Rootless" support (deprecated in favor of xpr?)
  quartz/fullscreen: Fullscreen support using Xplugin (not yet functional)
kdrive/ephyr: fix keysym type confusion once and for all

Take keysyms in as an XID in hostx_load_keymap() and explicitly convert them to CARD32 for loading into the server. Fixes Xephyr on AMD64, wa-hey.

kdrive: delete input debugging, yet again...

I have no idea how this keeps on coming back.

Remove nasty function pointer type from DevUnion, return to documented type.

updated darwin/quartz/xpr (libXplugin interface for Mac OS X) support

merged in miext/rootless changes for XDarwin support

Kludge around duplicate code added in hw/xfree86/modes.

Code added in hw/xfree86/modes came from the server-1.3-branch. Portions of this code had previously been integrated into xf86Mode.c and edid_modes.c.

To preserve hw/xfree86/modes as much as possible, the duplicate code from the other files has been disabled; a more careful review would figure out
where that code actually belonged.

commit 258beebc77510f84fbea666d6e6f29c5097bd11db
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Feb 15 20:13:15 2007 -0800

Report correct RandR 1.0 sizeID. Report correct subpixel order.

RandR 1.0 sizeID must be computed the same way every time, so when reporting
it in the ScreenChangeNotify event, just construct the usual 1.0 data block
and use that.

subpixel geometry information can be computed by looking at the connected
outputs and finding any with subpixel geometry and using one of those for
the global screen subpixel geometry. This might be improved by reporting
None if more than one screen has information and they conflict.

commit ef6b1235fd7d6dc422e8a150c089496a8e648067
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Feb 15 11:27:35 2007 -0800

Allow new modes code to build inside drivers as well as server.

Use config.h for driver builds where xorg-config.h isn't available.

commit 3dbe8f6b6ea32a9a137ad6e9235f74009b095bd8
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Thu Feb 15 17:51:01 2007 +0100

Distribute hw/xfree86/modes.

commit d4eb4d065032112a38444e36f791cb468a5ca8f4
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Feb 15 20:36:20 2007 -0800

Merge crtc/output-based mode selection code.

This code comes from the intel driver, so there's no history in this tree.

As the crtc/output-based mode selection code uses ddc, the ddc and i2c
modules have been merged into the server. Attempts to load them are safely
ignored now.

commit 37fe4c49dc3a5f6f2d3d56112b6bd78453045f6a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Feb 16 09:57:57 2007 +1030

mi: Move WarpPointer event generation to miPointerMove to avoid duplicate
events, cache event array allocation.

commit c2f3f705f1db8ca78292912544a7e416116175f3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Feb 15 14:38:24 2007 -0500

Bug #6988: Change behavior of Security extension per user feature request.

commit 811675733e97416c990e66de9e19271b43d96248d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Feb 15 19:09:00 2007 +0200

os: fix client privates leak
Minor leak here.  Oops.

commit 8f6961d385bda92703f18090ceff551409d2710e9
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Feb 15 19:08:46 2007 +0200

configure.ac: add xdarwin stubs
Add stub AM_CONDITIONALS to at least fix the build.

commit a3b62623b8aa56b219633db2c2f6de19b0580b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Feb 15 17:07:42 2007 +0200

change versioning for new server version scheme
See:
http://xorg.freedesktop.org/wiki/XDC2007Notes#head-2719037a1905516c45cf74f0e155c8703221e446

commit f452507ca9209598401d15da0039aa4e1fed1a3
Merge: 04632835b7 811675733e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Feb 15 09:47:20 2007 -0500

Merge branch 'master' into my-XACE-SELINUX

commit 04632835b7402456fdec6c8fa01970cd2804e27c
Merge: 88f89b9ac1 9ecf79ca01
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Feb 15 09:27:05 2007 -0500

Merge branch 'master' into my-XACE-SELINUX

commit 0f6dd4aea6176507dbe1c90e950d332fecedacab
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Feb 15 16:14:57 2007 +0200
kdrive/ephyr: free screen struct
Free screen->driver on screenFini, instead of just leaking it.

commit 9ecf79ca0111dd899ca88dd54156f71013220fcc
Author: Ben Byer <bbyer@apple.com>
Date:   Thu Feb 15 05:22:21 2007 -0800

Beginnings of an update Darwin driver

commit 136bb4874a4ad3a731d7eb8671e8bb641f9980a7
Author: Ben Byer <bbyer@apple.com>
Date:   Thu Feb 15 05:14:38 2007 -0800

iokit support for XDarwin

commit 3ead1afe78d2913f08c8144cb2d3813c6b159488
Author: Ben Byer <bbyer@apple.com>
Date:   Thu Feb 15 05:09:29 2007 -0800

Beginning of patches to add XDarwin support to the modular tree;
special thanks to Torrey Lyons and Peter O'Gorman for making this possible.

This is the automake framework for the XDarwin.app interface files.

commit f6c3b9fa297feccf85e96f15435d564a1c6b159488
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Feb 15 13:51:20 2007 +1030

xfree86: mouse and keyboard hotplugging support. New mouse devices will get
new cursors, keyboard devices use VCP's focus until paired.

commit d570ff7c81858a3174686b46a088f67563b4a2d5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Feb 14 17:09:33 2007 +1030

fix: WarpCursor needs to send MotionNotify.

commit c4fe1bce1c1e4822e688959b331b47a051d6e0a
Merge: e540d572c5 d570ff7c81
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Feb 14 15:39:52 2007 -0800

Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

commit e540d572c5aeba877b3ce01e7b31e399 dac2d44a
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Feb 14 15:38:10 2007 -0800
Merge fix missed on previous commit.

commit 81aa7f059d3cfd8d28420b7932b8ff7e06d67979
Author: Eric Anholt <eric@anholt.net>
Date: Wed Feb 14 12:48:15 2007 -0800

Add missing dirty marking in a couple of fallback cases in the exaGlyphs path.

commit a5f19c5150a7b3dc2ff3ad759ee1a6ab0ad8925c
Author: Eric Anholt <eric@anholt.net>
Date: Wed Feb 14 10:39:46 2007 -0800

Mark synce when UploadToScreen succeeds in exaGlyphs().

commit a492d49451caf15a5cb979dc335387486c105d1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Feb 13 18:32:59 2007 -0800

Update Xvfb man page: remove monolith build instructions, use /var/tmp instead of /usr/tmp

commit 25104ed2e6050f86691104b34eeaf3147eb83c4a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Feb 14 11:26:53 2007 +1030

dix: fix typo in condition.

commit 33ef546b942977bb2573156eaba5269350d16f99
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Feb 14 11:18:43 2007 +1030

dix: Clean up GetPointerEvents. If pDev == inputInfo.pointer, assume that we do not want Xi events.

mi: Remove POINTER_CORE_ONLY flag.

commit a23b0b069cac8a48e2b306b2095515d75f647705
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Mon Feb 12 17:50:00 2007 -0500

Typo fix.

commit d21e95f80bda2f29eed57fb0b0e580391e08e
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Mon Feb 12 17:22:39 2007 -0500

Hook up --with-builderstring for vendor build identification.

commit 46784d24c11767455a4986449a8037295912dcee
Remove spurious LIBADD from xf4bpp

commit 16eb7254861465f988ae3861ac3449c2c966062
Merge: 3814862a86 c4b7e9d1e1
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Feb 9 12:38:49 2007 -0800

Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

commit c4b7e9d1e16797c3e4b1200b40aceab5696a7fb8
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Feb 6 14:57:22 2007 -0800

Add an RDTSC implementation to the x86 emulator.

This instruction is being used in some debug VBIOSes. This implementation
doesn't even try to be accurate. Instead, it just increments the counter by a
fixed amount every time an rdtsc instruction in encountered, to avoid divides by
zero.

commit 262b9b104a04e55969593ef96a16004e53ecd00a
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Feb 6 17:30:22 2007 -0500

Use the new 8888x0565mmx function in fbpic.c

commit 876b806ec09d5ff0c6cd19df91006c4eeedfafa6
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Feb 6 17:16:23 2007 -0500

Reapply patch to fix AMD CPU detection

commit 13568d2aa43da4216bbcb46e1125ff28c323ac54
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Feb 6 17:12:01 2007 -0500

Revert "Fix for AMD cpu detection. Bug 9614, Dan Williams."

This reverts commit b2ed3b133748cc5aa541905a703a6fdb1cbbb1e6 since
unrelated changes in fbpic.c broke the build.

commit 5a3334410367a2186b2e667fa1eb6cf0babf93e95
Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
Date:   Tue Feb 6 17:11:01 2007 -0500
Add new fbCompositeSrc_8888x0565mmx() function, based on patch by Dan Williams. Bug 9682.

commit b2cd3b133748cc5aa541905a703a6fdb1e6b1e6
Author: Soren Sandmann Pedersen <ssp@dhep83-218.boston.redhat.com>
Date: Tue Feb 6 16:43:37 2007 -0500

Fix for AMD cpu detection. Bug 9614, Dan Williams.

Credit for the fixes in this patch goes to:

Marco Gritti <mpg at redhat dot com>
Jordan Crouse <jordan dot crouse at amd dot com>

commit 7cd73b00a29469d37a7f526cc9b35cc927a13ae2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Feb 5 14:48:48 2007 +1030

dix: If POINTER_CORE_ONLY is set, GetPointerEvents() only creates a core event

mi: fix: Create motion event in miPointerMoved

commit 760a38c4e4c7ab66ae653d3ac92f5cda4bd44edd6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Feb 5 03:39:36 2007 +0200

XkbCopyKeymap: fix copy-and-waste accident

When we reallocated modmap, we accidentally clobbered syms with the result, leaving syms definitely too small, and modmap also potentially too small (as well as not actually allocated anymore).

commit 17d85387d1e6851d35474b65929e268ca64ef65b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jan 18 15:23:57 2007 +1100

dmx, vfb, xnest: fix fbcmap compilation

Don't always define XFree86Server, but only for damn fbcmap.c. Split fbcmap.c into its own library to achieve this.

commit a309e936bb79e2f9a04a96ce33c7da99ed902484
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Feb 5 11:38:44 2007 +1030

xkb: Daniel's patch to stop evdev keyboard segfaults.

mi: Remove quickfix from ba547d4f6a2707f51f0d826389d2d418f6b6367a
commit 236f04b638e7d4d1656c6bedd8a6e8d7cec285ec
Author: Dave Airlie <airlied@linux.ie>
Date:   Mon Feb 5 09:09:12 2007 +1100

    remove array_cache from everywhere

commit eb2288e8d1eaa78911541b2feca5d04a74c1299718
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Sun Feb 4 22:06:59 2007 +0000

    clean up more of the vbo fallout

commit fb1bc1c65b88527b42a0e4abed23e5ddaee711b7
Author: Dave Airlie <airlied@linux.ie>
Date:   Sun Feb 4 18:39:58 2007 +1100

    add vbo to .gitignore

commit d8e148ec841d340327e6813127b0e0ff4c4db712d
Author: Dave Airlie <airlied@linux.ie>
Date:   Sun Feb 4 18:39:04 2007 +1100

    update xserver for vbo code in mesa

commit 5dcdad9e9d7d9993d65f989219be94a060b8f476
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Feb 2 14:44:55 2007 -0800

    Fix bus error on startup in 64-bit Xephyr

        hostx_get_visual_masks takes unsigned long * arguments, but was being
        passed pointers to CARD32's.

commit 170a55022ebc7b148bf93886eda152a0d5ce79a
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Feb 2 20:56:12 2007 +0000

    remove file

commit e6a505be84f5f723c49d6860dc5a058367516019
Author: Dan Nicholson <dan@conor.dwcab.com>
Date:   Fri Feb 2 20:53:01 2007 +0000

    The array_cache sources don't exist anymore in the Mesa tree,
    so we shouldn't try to build them.

commit af20485ec370801f2aabfaeae17bbd030a849bd1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36367

Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Feb 2 19:14:46 2007 +0000

Remove array_cache for recent Mesa changes

commit cf5b29d75dad7c74543f49f010c817623a3df747
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Fri Feb 2 12:57:38 2007 +0200

dmx: drop leftover __GLXdrawablePrivateRec struct.

commit 4f2f3233c808fd86bf9f6c09937fed9e0b367fd
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 1 15:10:29 2007 -0800

Fix the size expectations of xRRSetCrtcGamma.

It was using REQUEST_SIZE_MATCH (client request length must equal request size) rather than REQUEST_AT_LEAST_SIZE (client request length must be at least big enough for request size), and this request has data following the request structure.

commit 8274ea6aa97b06a56b7468c3908894c0ff72b687
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Feb 1 12:15:54 2007 -0800

Set the Damage version supported in the server, instead of using damageproto.

This was caught by distributions upgrading damageproto to 1.1, before the server they had supported it. The server then advertised the new version without supporting the protocol.

commit 8bce182568f14edfb03911d8c5d791fd83bb6222
Author: Eric Anholt <eric@anholt.net>
Date:   Mon Jan 29 17:30:59 2007 -0800

Restore a few important lines killed in the previous commit.

Typical results were failure to sync, and a black screen.

commit 3814862a869ee83d307eb01225d5949039f435d8
Merge: a216de9b7f 31f2d4a57e
Author: Ian Romanick <idr@us.ibm.com>
Date:   Mon Jan 29 15:14:31 2007 -0800

Merge branch ‘master’ of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:
Bug #9680: Remove bogus blank length limiting in xf86SetModeCrtc().

Our modes typically come from EDID or default modes, and when the monitor asks for a specific mode, deciding to tweak it usually results in incorrect display. And if the user is specifying a mode by hand, tweaking it then is still pretty rude.

Reviewed by: ajax

commit 4aaaa70d1b52346213fad46777c006a93c4ece5d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jan 29 18:23:24 2007 +1030

Xi: Adding ChangePointerKeyboardPairing request
   Adding PointerKeyboardPairingChanged event
   Correct error values for XWarpDevicePointer

dix: Adding device argument to SendMappingNotify
     Adding spriteOwner flag to devices

commit f3418b52df2ab4982504856ab9fae3e726ee6d2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Jan 29 16:10:03 2007 +1030

   mi: Fix cursor rendering issues.

commit 15a81b6325d359990017b8e9f17ce18a7eff1354
Merge: 3759254c09 cc3d66d4a5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Sun Jan 28 17:18:57 2007 +1030

   Merge branch 'master'

commit cc3d66d4a53fee8f1d940bb8c7f032c94b9c25f6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:50:02 2006 +1030

   o fix minor error in comment for GetPointerEvents()

commit 3759254c0967ae83bdebf097d9e8a58733c8e6f9
Merge: ba547d4f6a ca5ebe3971
Call linuxPciOpenFile() for r/w access if applicable.

Currently, the call to linuxPciOpenFile() is always made for read only access which causes the subsequent mmap call to fail when the memory is mapped read/write.

Xorg #9692

Plug memory leak in doLoadModule()

Correct help lines for configure's --with-vendor-name flags

Correct variable descriptions in comment for SecurityCheckResourceIDAccess

Move xf86ReadLegacyBIOS to the one place that uses it.
xf86ReadLegacyBIOS is only used by one function in int10/generic.c.
Move a generic implementation of that function there, rename it to
read_legcay_BIOS, and delete all remnants of it from all other places.

commit fd3a0798f0d17e72ec7293d59a7a81b5f9df95b
Merge: 39b51e1bfc a53586eebc
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Jan 24 14:49:39 2007 -0800

Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

commit a53586eebe166e35c1f48942205832810061daee
Author: Eric Anholt <eric@anholt.net>
Date: Wed Jan 24 13:36:25 2007 -0800

Warning fix for RRCrtcSetRotations().

commit 7a12952fd437b105e0d013d680f9c3a775a183c
Author: Eric Anholt <eric@anholt.net>
Date: Wed Jan 24 13:34:29 2007 -0800

Bug #7639: Only swap out pixmaps (rather than everything) on VT switch in EXA.

This is a new behavior for version 2.1 of EXA, and only takes effect if the
driver has requested that. Otherwise, the previous behavior remains the same.

commit b6b855932109b4bc345f07be8cb079d79ca369
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 25 00:29:20 2007 +0800

Make Xinearama screen information reflect CRTC rotation.

commit 39b51e1bfc4924fc3bda4342ef9c6c0125d9f4fa
Merge: 637b19b3ee 788cfc911
Author: Ian Romanick <idr@us.ibm.com>
Date: Tue Jan 23 13:25:56 2007 -0800

Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

commit 788cfc911793a26aed16f38f30678ec8e82c873
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Tue Jan 23 10:15:22 2007 +0100

Bump video driver ABI version to 1.2.

This is necessary because server-1.2-branch bumped to 1.1 for xf86CVTMode and
we have xf86XVFillKeyHelperDrawable on top of that.
commit 637b19b3ee7345c2d449ce94ceabe998d817e02e
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 22 09:58:33 2007 -0800

Eliminate pciControlBridge, pciGetBridgeBuses, and pciGetBridgeResources.

commit a232e4ae938fa3a68f7614995676eda7929260db
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 22 09:16:45 2007 -0800

Convert xf86GetPciHostConfigFromTag to get_parent_bridge.

Convert xf86GetPciHostConfigFromTag to a new function called
get_parent_bridge. This name better represents what
xf86GetPciHostConfigFromTag is used for: walking up the lists of PCI
bridges from a device.

commit 844560a02fa6c4ce18ea2af3ec27beaa60b7af11
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 22 09:13:59 2007 -0800

Eliminate ARCH_PCI_OS_INIT.

Never, ever use the ix86Pci stuff on Linux. This renders the whole
ARCH_PCI_OS_INIT mechanism useless. Remove it.

commit 7dfb3cea913b02a6b36c308d1330bd40abe6b41f
Merge: c279d5fdce5 2dc866252c
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 22 08:44:36 2007 -0800

Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

commit 2dc866252c84ed0e7b3aafa25e8a5312f448d405b
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jan 22 08:41:50 2007 +0800

Really fix optimized render cases being hit when they shouldn't.

I don't know how this define slipped in there. Fixes
6fdfd9dad91d7b7aa292f8c4d268dd27c34de8d3.

commit 88f89b9ac1b92a0916c46488350ff68c3ffdd490
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Jan 19 19:15:49 2007 -0500

Policy updates: use x prefix in property and ext types.
Split ObjectSIDByLabel into two functions since property labeling now
involves an additional compute_create lookup.

Update Xserver man page to match commit ed33c7c98ad0c542e9e2dd6caa3f84879c21dd61

   Remove unused -xkbdb and -noloadxkb options. Rename -ar1 and -ar2 to
   -ardelay and -arinterval, respectively.

Remove the root window context line from the configuration file.
This context will be derived through a type_transition rule instead.

Policy updates.

fbdevhw: Only deal with RGB weight if default visual is True- or DirectColor.

fbdevhw: Consider mode set equal to mode requested if virtual width is larger.
commit 65f4690ecb4576f60396fcccff8e5bd5d4b6645f  
Author: Michel Dänzer <michel@tungstengraphics.com>  
Date: Fri Jan 19 17:54:03 2007 +0100

__glXDRIscreenProbe: Use drmOpen/CloseOnce.

Fixes https://bugs.freedesktop.org/show_bug.cgi?id=9275 . Based on patch from Alan Swanson.

commit 8b3a591cd39f2d51209dc71b641cac79663e1b16  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Thu Jan 18 16:03:30 2007 -0800

Update pci.ids to 2007-01-18 snapshot

(includes a whole bunch of ATI device id updates)

commit 0f0c321adf2850b3d7aafe281362bf6e424cb0ca1  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Thu Jan 18 15:31:53 2007 -0800

Make xf1bpp build correctly with compilers that don't support -include

commit a811e92104028ae60ba69f73e32ee1e0533b088c  
Author: Eric Anholt <eric@anholt.net>  
Date: Thu Jan 18 14:28:01 2007 -0800

Account for CRTC rotation in the cursor containment code.

commit df147c10ce597c56c16cbca552e8a3e3eb3cdaa  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Wed Jan 17 16:47:07 2007 -0800

Xserver man page: remove bc, add -wr

commit 2df1a1aah244a2ec8eb3b2b522b9a8434e47af17  
Author: Alan Coopersmith <alan.coopersmith@sun.com>  
Date: Wed Jan 17 14:39:28 2007 -0800

Always include compiler.h in cbmskbits.h instead of checking #ifdef XFRE86

commit 42a48786acf5f83167de4f561526986d4e27033  
Author: Eric Anholt <eric@anholt.net>  
Date: Wed Jan 17 14:34:42 2007 -0800

Add a setter for randr_crtc->rotations.

commit 88f248e67143175532c4bdf6fafa8fc6df97c7894
Replace PciBusId with 'struct pci_device *'

There's no need to store the slot information for a PCI device as its ID. Instead, skip the middle man and just store a pointer to the pci_device structure.

commit 03616110802677727f570e17f2212aaa890223f6e
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jan 17 13:06:04 2007 -0800

Convert xf86IsolateDevice to a 'struct pci_slot_match'.

This change was accidentally not committed on the previous commit.

commit c1808f148405a28256e0480d6f8714691b0e964e
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jan 17 13:02:27 2007 -0800

Convert xf86IsolateDevice to a 'struct pci_slot_match'.

commit d2f8c42c48ecc398d224d9e3b280a66042e68664
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jan 17 12:59:17 2007 -0800

Convert xf86FindPrimaryDevice to use a static buffer and snprintf.

Rather than allocate a 9 byte buffer on each invocation, use a static 16 byte buffer. Use snprintf for safety. This commit should probably be cherry-picked to the trunk.

commit 28976bebec8b6475d0703f8356edd116e25d40b2
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jan 17 12:15:09 2007 -0800

Eliminate unused fields in pciAccRec.

commit f36a447d20c0a89b78c5899eeb303cab568ebac6
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Jan 16 14:49:19 2007 -0800

Eliminate use of Tag field.

The Tag field was removed from the int10 structures in commit ca9c41e09ddb72d150d86f5d372eb07eeeca7c1a2. This file was over looked.
commit cde17015dff1ced2aabb8b76c08f9110237821a5
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 16 13:01:03 2007 -0800

When changing a non-pending property, call the screen rrOutputSetProperty hook.

commit e3add7c7c8eebc2a0a662860f208f6ae7d1857c717
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 16 12:59:34 2007 -0800

Don't forget to add the property we configure to the properties list.

commit 780b55ec6f97864b50f00170b201e93eba188f1b
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 15 15:30:16 2007 -0800

Fix accidental commit (bug) in linuxOpenLegacy.

commit 31bd8d150749c548eb70404395b4a52d46412f43
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 15 15:19:30 2007 -0800

Fix domain insanity.

Eliminate xf86GetPciDomain. The domain from libpciaccess is the domain. Period. This means that 0 is a valid domain. Make sure that INCLUDE_XF86_NO_DOMAIN is *not* set. Always run in "domain mode," even if the only domain possible is 0.

commit 079a6a55a516778871a8b2f8c8c88dd9162105a76
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 15 11:39:24 2007 -0800

Convert to new pci_device_cfg_write_u* interface.

commit d8bd0c41e11d12976a5ea9f185b7ac6c7060b71
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 15 11:38:22 2007 -0800

Convert to new pci_device_cfg_write_u* interface.

commit a87af8218f97da76433a5192d5e51acb0d5c3ed0
Author: Ian Romanick <idr@us.ibm.com>
Date: Mon Jan 15 11:21:37 2007 -0800

Remove unnecessary files from the sources list.

commit 1c326bf75fe0d2c39507834d159d031291edac4
Eliminate unused INCLUDE_XF86_MAP_PCI_MEM define.

commit 3936caa00535d0b7543be5a4b315562111a6b3ab
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:59:35 2007 -0800

Refactor pciTagConvertRange2Host and pciConvertRange2Host.

commit 1a493509e30412a0f6c6f8f8e47a446678dbbc1a
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:58:59 2007 -0800

Fix typos in conditionally compiled code.

commit 8279444a54f38c5e2e5d4c2d936a10d74990e0be
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:41:03 2007 -0800

Eliminate unused pciAddrHostToBus infrastructure.

commit e32fa10a04a15ce1b15c6faa7a64e68ee3906d59
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:33:17 2007 -0800

Remove prototype for pciGetBaseSize.

commit 7411f5c389db73a6731d853d603029b8cf0a66ba
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:32:04 2007 -0800

Eliminate pciHostAddrToBusAddr from interface.

pciHostAddrToBusAddr is no longer used anywhere in the tree. Remove it with extreme prejudice.

commit 60c5e023e8ddaae8e011f80736e7cc3e8c12583d
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:24:03 2007 -0800

Eliminate some dead code.

commit dd12a9485bad9e9d064dfcf7e0d9a7a7114ae3e6
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Jan 12 10:21:25 2007 -0800
Eliminate xf86GetPciEntity from public interface.

xf86GetPciEntity was folded into the only place (xf86CheckPciSlot) in the tree that still called it.

commit c3016a229964761478305cf2f5241c563ff3eab0a
Author: Ian Romanick <idr@us.ibm.com>
Date: Fri Jan 12 09:56:00 2007 -0800

Missed file from previous commit.

Convert xf86ReadLegacyVideoBIOS to take a 'struct pci_device *'
parameter instead of a PCITAG.

commit ca9c41e09ddb72d150d86f5d372eb07eeca7c1a2
Author: Ian Romanick <idr@us.ibm.com>
Date: Thu Jan 11 21:09:20 2007 -0800

Convert int10 and vgaHW to use 'struct pci_device' instead of PCITAG.

Convert all uses of PCITAG in int10 and vgaHW to 'struct pci_device'.
This allows the conversion of xf86ReadLegacyVideoBIOS and
xf86MapDomainMemory to 'struct pci_device' from PCITAG.

commit ba547d4f6a2707f5f0d826389d2d41f6b2367a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Fri Jan 12 14:42:02 2007 +1030

   mi: Quick fix to stop segfault on non-core keyboards.

commit 5e2f8dee6331645fcb2734c43698ebf4fc5b116
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Thu Jan 11 14:05:39 2007 +1030

   mi: remove core pointer special handling. No event has core pointer as
device now.

   dix: zero pSprite memory, stop segfaults on server restart.

commit 7fccece91c46baac4f8d2965180dce535b4eb7d65c
Author: Eric Anholt <eric@anholt.net>
Date: Wed Jan 10 13:10:43 2007 -0800

   Bug #9555: Always define _GNU_SOURCE in glibc environments.

   This keeps us from having to define _POSIX_C_SOURCE, _BSD_SOURCE, and
   _XOPEN_SOURCE to get the C environment we want in different places. It also
   fixes the build on linux due to RTLD_DEFAULT having not been defined.
Inx_ev56.c has to be built with -mcpu=ev56. Fix it.

commit ea82333dec1799a7e013205adbc89874bc8d273cb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Jan 10 14:52:13 2007 +1030

Xi: add missing call for SProcXChangeDeviceCursor
    add DeviceEnterNotify and DeviceLeaveNotify
    fix: QueryDevicePointer crashed if called with keyboard device

commit 6a2fb2928714ce77ee342cdc23a1178e5e766cf2
Author: Eric Anholt <eric@anholt.net>
Date: Tue Jan 9 16:34:40 2007 -0800

Track rename of DamagePost -> DamageAdd.

commit da09964a931cc64d05ab571bf545fad35a6d395
Merge: e1f73d2208 e3aa6ad201
Author: Ian Romanick <idr@us.ibm.com>
Date: Tue Jan 9 15:27:34 2007 -0800

Merge branch 'origin' into pci-rework

Conflicts:

hw/xfree86/int10/generic.c

commit e3aa6ad201eb20862c11c000e76206e317a96dc9
Author: Matthieu Herrb <matthieu@blues.laas.fr>
Date: Tue Jan 9 14:14:19 2007 +0100

Multiple integer overflows in dbe and render extensions
CVE IDs: CVE-2006-6101 CVE-2006-6102 CVE-2006-6103

commit 359d20532bdce6a540a551578d000afbb609c2d
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Tue Jan 9 09:53:45 2007 +0100

Require glproto >= 1.4.8 for GLX.

It builds against 1.4.7 as well, but it hardcodes the GLX_EXT_tfp tokens that were finalized in 1.4.8, so GLX_EXT_tfp breaks if the client side was built against an older glproto. This will hopefully alert people to rebuild other
components (in particular Mesa) against the new glproto as well.

commit 88740c4855babedbea420b5e1b35ae105d1f1026
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Jan 8 17:36:07 2007 -0800

Use PKG_CHECK_EXISTS(libdrm) to determine if DRI should be enabled on Solaris

commit 282a4dcaabc5f0cd6f7d3819aa648333b93b265e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Mon Jan 8 19:22:41 2007 +0100

Attempt to fix drawable type checks in dixLookupDrawable().

Not sure this is 100% correct either, but it fixes at least one reproducible crasher where it returned a pixmap to dixLookupWindow().

commit a7ab793293820a795bb6fb8e0444e0824433b99
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jan 8 17:31:16 2007 +1030

xfree86: fix XI86_SHARED_POINTER flag setting

commit 95e1a88050de61e9b2407428042a43e47b46e18
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Jan 8 12:31:18 2007 +1030

Xi: Adding ChangeDeviceCursor request

commit 0b73a7eb17fd848c6bdc6a65ba835aa2ebfc3cfd
Author: Eric Anholt <eric@anholt.net>
Date: Fri Jan 5 18:12:04 2007 -0800

Add support for the DamagePost (XDamage 1.1) request.

This makes damageproto >= 1.1 a requirement to build.

commit dfb2c10413e22af8d486a982870f874326d5ef4
Author: Ian Romanick <idr@us.ibm.com>
Date: Fri Jan 5 10:15:09 2007 -0800

Add missing #else from previous commits.

commit f90c3e226b105bf77beb94723fc08bdf14834be
Author: Ian Romanick <idr@us.ibm.com>
Date: Thu Jan 4 15:38:16 2007 -0800

Re-regenerate from Mesa scripts.
DO NOT HAND EDIT THESE FILES! For cryin' out loud, there's even a comment to that effect in the file's header...

commit b7ca5d14ce7ba410b0dab5c2289f6d7b75e763df
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jan 4 15:37:33 2007 -0800

Incorporate new byte-order related configure changes.

commit 8dd5771a1b91c331860b667fb18e484452000aad
Merge: 45aa26ccb4 7d2ec92170
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jan 4 15:01:38 2007 -0800

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Conflicts:

GL/glx/indirect_dispatch_swap.c
GL/glx/swap_interval.c

commit 45aa26ccb4f61c2919ce2475d0907c6e1b177da2
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jan 4 14:55:51 2007 -0800

Regenerate from Mesa scripts.

Regenerate source files from Mesa scripts. This causes the generated files to use glxbyteorder.h.

commit 6d603bb47f9d238637adbf30c6e9697e6e7e6fa
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jan 4 14:49:26 2007 -0800

Add new header file containing byte-order wrappers.

Move the byte-order related wrappers out of the individual source files into a dedicated header file. Modify the single hand-coded source file that uses the byte-order wrappers to use the new header file.

commit 7d2ec92170ebbdfaf10a05734cb7cfaac97d19d65
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Jan 4 12:24:48 2007 -0800

Keep track of how many visuals we set up for GLcore, to avoid an invalid free.
The proper fix would involve actually setting up the ARGB visual for GLcore, but I just want the server to not crash at exit.

commit aab2ca204279b638c7e5bb6b8427c58be9704ce57
Author: Eric Anholt <eric@anholt.net>
Date:   Thu Dec 21 09:16:19 2006 -0800

Try dlsym(RTLD_DEFAULT) first when finding symbols.

The previous mechanism failed when finding drm symbols now that libdrm has moved to being linked by libdri instead of being linked into the server.

commit 2fd4626fa6969b84d8e2f9db16d6e2d44c4bc499
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jan 3 15:44:55 2007 -0800

Make GLX byteswap macros more portable

- Use autoconf tests instead of platform-specific #ifdef's to decide which macros to use.
- Provide fallbacks for platforms like Solaris that don't provide any of the existing known forms.

commit 66fa87292ef26bd0f464481287f3af992cd5741c
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Jan 3 10:27:07 2007 -0800

Fix BSF and BSR instructions in the x86 emulator.

Patch courtesy of Michael Yaroslavtsev.

commit 3b5b7ef5c2ab1d196806f6359e0972f78d204dd
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Wed Jan 3 21:05:35 2007 +0100

Move the code for resetting the DPMS mode in response to input events, from WaitForSomething to mieqProcessInputEvents.

mieqProcessInputEvents already handles resetting the screen saver.

commit 953a9ef949b4e57d28daeeec57031fe1ce368c27c
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Thu Dec 21 23:50:39 2006 -0800

Track physical screen size and send out updates when that changes.

Events and internal data structures need to be updated whenever the physical or pixel size of the screen changes. The code was ignoring the physical
size, so changing only that would not be registered anywhere.
(cherry picked from f42e3cea236fa0091ed398a818fc8e17b0e1b3df commit)

commit e79602fca2f2cced66136729edda4d356b0bdda0
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Dec 30 21:52:22 2006 -0800

Use RRScreenSetSizeRange in 1.0 compat. Check RRGetInfo for error.

The RRScreenSizeSetRange function is used externally for 1.2 API drivers,
but can also be used in the 1.0 compatibility code. This also ensures that
the right changed bits are set so that clients are correctly notified when
the range changes.

RRGetInfo can return an error, use that to return BadAlloc to clients
instead of blindly going on with various requests.
(cherry picked from f05dd384d38c76dd9662933a03625dfe5b1c81f commit)

commit dc5eb4523298f966bd5fd9ae6672160034b5e82c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Dec 31 17:59:44 2006 +0100

fbdevhw: Override RGB offsets and masks after setting initial mode.

This is a hack, but it should be a NOP for all the setups that worked before
and actually seems to fix some others...

Based on a patch by Peter Teichmann from

commit d077c0da470ab7291e8d838eaace57b066477d6f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Dec 31 17:23:31 2006 +0100

fbdevhw: Use displayWidth for fbdev virtual width when appropriate.

The fbdev API doesn't allow setting the pitch explicitly, so we have to set
the virtual width to the pitch we're using for drawing. This fixes corruption
after changing the virtual width with RandR.

commit c385bcbf0bde38dd869f7065f859dd4b4126f5690
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sat Dec 30 16:44:31 2006 +0100

fbdevhw: Fix some issues with the previous commit.

Fix a TRACE_ENTER typo and only update the internal fbdev mode state cache
after actually setting a mode.
fbdevhw: Consolidate modeset ioctl calling, report failure if it modifies mode.

The fbdev API allows the driver to 'accept' modes it doesn't really support by modifying it to the nearest supported mode. Without this check, e.g. vesafb would appear to accept all modes, even though it actually can't set any modes other than the bootup mode at all.

Switch the default migration heuristic for EXA to "always".

This has been what has been used the most successfully post-damagetrack. The current thinking is that:
1) We should be able to accelerate basically everything. So we don't need to try to migrate trees of pixmaps permanently out of framebuffer to speed CPU drawing up.
2) Migration is cheaper in the thrashing case, so we don't want to go to a lot of effort to try (and fail badly) to find a working set.

Export exaMove{In,Out}Pixmap().

dix/events: take screen number, not pointer, in PostSyntheticMotion Since we were using PostSyntheticMotion incorrectly anyway, update the declared API to match.
os: test for userland, not kernel

It doesn't matter which kernel we're running on, the relevant part when dealing with includes is what our userland is.

commit 830808099a1c1d24b0318e54632f25f5940da25
Author: Marc Aurele La France <tsi@ualberta.ca>
Date:   Sun Dec 24 06:28:21 2006 +0200

xfree86: deal with pitch that isn't a multiple of the granularity

When the pitch isn't a multiple of the granularity, allocate more space to compensate.

commit 329f6417275bb1201ba66c29b202028eeab3a355
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Dec 9 22:51:59 2006 +0200

XkbCopyKeymap: make sure sym_interpret is always valid

Make sure we're not copying sym_interpret across from an empty source.

commit 43a4376bd72ef1b6486cddb60ad57b2d6169292a
Merge: 4b1c9ac3d1 d9e079d2a3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 22 13:53:55 2006 -0500

Merge branch 'master' into my-XACE-SELINUX

commit d9e079d2a385203fdd18d958ecf19d759cab4ba8
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 22 13:07:09 2006 -0500

Zero out client devPrivates on allocation.

commit 4b1c9ac3d13767e395b47e76b37f9f3a569e7be1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 22 13:04:50 2006 -0500

Policy updates.

commit cd71e861830081807e5b93ae89c73c17986c6330
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Dec 20 13:45:24 2006 -0500
Clarify some error message strings.

commit 9fd2f167ec02ee170b87f02ddca89eba0b2e2389
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Dec 20 16:30:36 2006 +1030

xfree86: fix xf86ProcessCommonOptions() core and shared pointer assignment

TAG: mpx-0.3.0

commit 056c919d849a78c8d507bfceafa74c0b0165751a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Dec 20 14:49:17 2006 +1030

removing MPX extension files

commit b55e1239ac3b2962a33d8af1f911cc0f01f40f23
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Dec 20 14:43:38 2006 +1030

xfree86: fix xf86ActivateDevice(): only set to MP device if not a keyboard

commit 202b46eb6bf0d5f94973c2bf1e4be9d154eadbf
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Dec 20 13:05:53 2006 +1030

xfree86: Changing "IsMPDevice" to "SharedPointer" option. Devices will default
to MP devices.

Xi:
   Adding QueryDevicePointer request/reply
   Adding WarpDevicePointer request/reply

commit e437f357b6850a6c87ca6696870b3abd40e5b8ed
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Tue Dec 19 16:38:34 2006 -0800

xorg.conf man page should say "XFree86-DGA", not "Xorg-DGA"

commit a81dbae0597492f0245080c6f5af7158e05e2d0
Merge: fb6d676de5 d442998e39
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Dec 19 16:11:19 2006 -0500

    Merge branch 'master' into my-XACE-SELINUX

commit d442998e39611be6805ea26f2286a2fd00f49b1
Author: Eric Anholt <eric@anholt.net>
Only do the _POSIX_C_SOURCE hackery on linux where it's required.

On other OSes, the nasty hack was resulting in prototypes being hidden, so just
don't do it.

commit 228b9f77696190e47d4c96d6e0809bf645751557
Author: Eric Anholt <eric@anholt.net>
Date:   Fri Dec 8 13:32:22 2006 -0800

Include sys/select.h to get FD_ISSET.

commit 9563b2ee2f61246b6a9e14e00c701f693efa4e1
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Dec 19 18:57:22 2006 +0100

EXA: Lots of damage tracking fixes.

Mostly due to exaDrawableDirty() now calculating the backing pixmap coordinates
internally, for cases where they aren't trivially known. There's a new
exaPixmapDirty() function for the other cases.

commit 467c00cf450826e0bf06fe94470ec193af625d68
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Tue Dec 19 18:45:25 2006 +0100

exaGlyphs: mark dirty for software path also.

This affects drivers with no UploadToScreen or UploadToScreen failures.

commit 4334860e69e7d5b156082bd05c7a86708e5bad4c
Merge: 7e4717683d fdec22ca17
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Dec 19 16:29:26 2006 +0100

Merge branch 'master' into exa-damagetrack

Conflicts:

    exa/esa_accel.c
    exa/esa_migraction.c

commit fdec22ca1704d3519156c66804528c21b04fca65
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Dec 19 16:11:17 2006 +0100

exaCopyNtoN: Fix usage of 'dx' and 'dy' instead of 'reverse' and 'upsidedown'.

---
commit 67c2a86e59e915d9a5681e9d233478cfea3e51ed
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Tue Dec 19 15:44:18 2006 +0100

EXA: Compare backing pixmaps instead of drawables against driver limits.

The driver operations are always contained within the backing pixmaps, it
doesn't matter if the drawables are bigger.

commit 6b1e354d4bb68ed9f2c654bbe7f8bbf241843d1c
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Dec 19 15:24:19 2006 +0100

EXA: Disable SHM pixmaps.

See https://bugs.freedesktop.org/show_bug.cgi?id=6772.

commit ca5ebe3971d8ebcfed00c5ebcd026cddf0ce0c6ba
Merge: 4d07b50372 1b029fd896
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 19 10:51:01 2006 +1030

Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver

commit 2d0a63126b3d3a17005b7e122617ee0c5f44a55b
Merge: d8b5394eda 1b029fd896
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 19 10:31:40 2006 +1030

Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver

commit 1b029fd896b76096905c516925ce0214fe14632c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 18 14:51:04 2006 -0800

Xorg & Xserver man page updates for 1.2 release

- Added -extension & +extension to Xserver man page
- Changed Xorg synopsis from X11R6 to X11R7
- Clarified Xorg ancestry description
- Moved Solaris to free/Open Source OS list
- Removed references to MetroLink module loader & getconfig
- Converted (1) to (__appmansuffix__) in a few more places

commit d8b5394eda9d92b7193004931caaa6c24a337b2e6
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Cleaning up ifdef MPX from remaining files, removing it from configure.ac.
Removing building mpx extension from Makefile.am

commit 03c554283e49e449fd1d282cf32564d15d9fd2c77
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Dec 18 15:33:54 2006 +1030

mi:     removing MPX ifdefs
       global sprite renaming in mipointer and misprite
       fixed: multiple remove cursor call in miSpriteInstallColormap
       fixed: wrong core pointer usage in miSpriteStoreColors

dix:     bugfix in CheckCursorConfinement
       removing MPX ifdefs
       removing MPX event generation (using Xi solely now)
       bugfix GrabDevice: uninitialized field in grab struct caused segfault

xfree86: removing MPX ifdefs

Xi:     removing MPX protocol events

commit a5fcf1e5e7452e9be82f63b6c2be2a25c4109523
Author: James Steven Supancic III <arrummzen@arrummzen.net>
Date:   Sat Dec 16 12:02:38 2006 -0500

Fix RENDER issues (bug #7555) and implement RENDER add/remove screen support (bug #8485).

commit c92f7bef54fa737766d65fe32c200f405f39228c
Author: Kevin E Martin <kem@freedesktop.org>
Date:   Sat Dec 16 12:01:49 2006 -0500

    For Xvfb, Xnest and Xprt, compile fbcmap.c with -DXFree86Server

commit 012807356383128fde58bb2d4f91dd356d6418fc
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 18:27:16 2006 -0500

    Add loud warnings to deprecated lookup functions.
    Hopefully this will alert external driver maintainers.

commit ab1d5b0e31a1efce95ab6b1d06f209f2c4e19ac
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 17:26:58 2006 -0500

    Convert callers of LookupClient() to dixLookupClient().
commit f1dafaaf68f5c7f1a1538d9566907786d8ab72
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 16:51:58 2006 -0500

    Convert callers of SecurityLookupDrawable() to dixLookupDrawable().

commit 10aabb729d1586db344f9c1abdf1cf45e7ddaa7a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 16:36:29 2006 -0500

    Convert callers of LookupDrawable() to dixLookupDrawable().

commit 25d5e0a629f82d95bd71daf9a920a70e095b5188
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 15:50:46 2006 -0500

    Convert callers of SecurityLookupWindow() to dixLookupWindow().

commit 04c721854fbb1bd6379c165a53fab2bdc09961c0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 15 14:11:40 2006 -0500

    Convert callers of LookupWindow() to dixLookupWindow().

commit 670bbb87310503fccc17203ceccfa6f4f2f5db51d2
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Wed Dec 13 01:21:32 2006 -0800

    RandR 1.2 rotation code must adjust width/height.

    Mode lines reflect the monitor mode, not the projected size into the frame
    buffer. Flip width/height around so that the dimensions are oriented
    correctly.
    (cherry picked from 612a8e61803da8db0e305cbb093696b8e4284572 commit)

commit 6c6901434ab469dd03b79fc98cd4a2b64d339305
Author: Keith Packard <keithp@mandolin.keithp.com>
Date:   Wed Dec 13 00:58:54 2006 -0800

    RandR 1.0 refresh rates unscrambled. SetScreenConfig uses RRCrtcSet right.

    RandR 1.0 refresh rates were scrambled when working with a 1.2 driver that
    returned sizes in a mixed order. SetScreenConfig was treating RRCrtcSet as
    returning an RandR status instead of a Bool.
    (cherry picked from 6dc711833d7387372012fddf1ce1df3ae6a2d234 commit)

commit 628c7daeb12713d28e85e6b49fa037a7748dff83
RandR: config time updates when hardware config changes.

The config time in the RandR protocol reflects when the hardware state has changed. It was getting changed anytime the driver changed the usage of the hardware as well.

(cherry picked from 98d18a6578130adb411ea4bcecc776fcb7e0ff189f commit)

commit d742025f435f3eb7458cf8284d59300bca9850aa
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Tue Dec 12 20:16:49 2006 -0800

RandR mode list needs both output and crtc modes.

When an output no longer reports the current mode, it must still be included in the list advertised by the X server. Walk the crtc to ensure it is included.

(cherry picked from 78689d0d6630af3e3c5394d12c2564a489f45 commit)

commit 9e32bf98bc9a17a137664d01f59a8f426f7ff3b
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Tue Dec 12 22:59:03 2006 -0800

Remove now-unused macro definitions from dix.h.

commit 00f0705b3bb444ae934fc902cd23130f1777eab2
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 19:31:58 2006 -0500

Remove instances of macros SECURITY_VERIFY_GEOMETRABLE and SECURITY_VERIFY_GC.

commit 5e334f06a1ef89891f9df2a371e4662340bec26
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 18:27:09 2006 -0500

Remove instances of macros VERIFY_GEOMETRABLE and VERIFY_GC.

commit 51b69ff499e05f59cb1e577c48abf6f7f283b3e
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 17:53:43 2006 -0500

Remove instances of macro SECURITY_VERIFY_DRAWABLE.

commit 0cf75e74322e2b6a6efc7ac892e04365fde503b
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 17:27:12 2006 -0500
Remove instances of macros LOOKUP_DRAWABLE and VERIFY_DRAWABLE.

commit ab1886df73b73360fa3bd7ce8e01affc074c8c8d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 15:42:19 2006 -0500

Add new, combined dix lookup functions (tweak).

commit 60cdc592fe042e03ceb5d4c3344acffbf5d8ae28
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 14:46:03 2006 -0500

Add new, combined dix lookup functions.

commit 6c46645cfc1afda8aebfe0ed4d9342673b702f1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Dec 14 14:45:42 2006 -0500

Naming change: Security*Access -> Dix*Access

commit a96788058e48f3e97c66da6daff58828f0c2ce53
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Dec 14 10:50:18 2006 +1030

mi:     removing MPX ifdefs
        global sprite renaming in mipointer and misprite
        fixed: multiple remove cursor call in miSpriteInstallColormap
        fixed: wrong core pointer usage in miSpriteStoreColors

dix:    bugfix in CheckCursorConfinement
        removing MPX ifdefs
        removing MPX event generation (using Xi solely now)

commit b88ad820fac81d0d557a384bf0406e8893e7af
Author: Alan Hourihane <salanh@fairlite.demon.co.uk>
Date:   Wed Dec 13 12:13:11 2006 +0000

Set Int10Current->Tag for the linux native int10 module
Fixes bug #9296
(cherry picked from 731952c561a3972d09d1315f4fd31466e459cc9 commit)

commit fb6d676de5aa606d943715437a12a68d9a41f386
Author: Eamon Walsh <ewalsh@moss-huskies.epoch.ncsc.mil>
Date:   Tue Dec 12 16:17:51 2006 -0500

Add xserver object class to list of object classes.
commit 7b90944258eba66b61328480759833ad7589bcca
Author: Eamon Walsh <ewalsh@moss-huskies.epoch.ncsc.mil>
Date:   Tue Dec 12 15:59:38 2006 -0500

    Change MLS levels in config file contexts to more sane defaults.

commit 568c09481e5d62091d032837171a36f409f39379
Author: Eamon Walsh <ewalsh@moss-huskies.epoch.ncsc.mil>
Date:   Tue Dec 12 15:59:08 2006 -0500

    Split AssignClientState() into two routines, new routine is server-specific.

commit 62e7722ebd8d341a23eb56cb330eeb00e6a975a6
Merge: e124806994 f3c60900e5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Dec 12 13:54:33 2006 -0500

    Merge branch 'XACE-SELINUX' into my-XACE-SELINUX

commit e124806994675e16ca8e3937388f2cadeb529fc3
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Dec 12 13:35:22 2006 -0500

    Remove trailing whitespace (whitespace police).

commit ca77c121075a9de1f47d42f6aaf91c20185231de
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Tue Dec 12 13:26:52 2006 -0500

    Naming change: Security*Operation -> Xace*Operation

commit a60da1db7cced28c07960a713eb18deb45beb432
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Nov 29 22:19:57 2006 -0500

    Add required root window context to config file.

commit 5719afe6d3a246985709e6f045617c1e16a7da51
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 26 20:20:57 2006 -0400

    Change symbol in libaudit library test.

commit 354c80da66af141e8ba6d75fed75a0f482987956
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 5 16:07:26 2006 -0400

    Improve error handling, messages during initialization.
commit 3714d9149928754afcd6b2466a1371ca32e17985
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 4 16:23:35 2006 -0400

  Experimental window property holding security context.

commit 7f16c38ae2b47b195609d8fedefb7b28f612b2d4
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 8 15:31:18 2006 -0400

  Add SELinux extension configure-time support.

commit a7f4b6e1a87ada1d699bf9e3b6a98f06191650f6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 8 15:17:01 2006 -0400

  Add SELinux extension to the module/extension loader.

commit 28e80cd65b1207b123c02f895851bb6d207a3c1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 8 15:15:19 2006 -0400

  Add SELinux extension configure-time support.

commit 83aad2be8a80890f349c2f9caf84786333f7cc8c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 8 15:11:04 2006 -0400

  Add SELinux extension source files.

commit 81281cb298a5825bc7a2e692375a86199293b6b
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Dec 12 11:28:24 2006 +0000

  Fix bad commit

commit 792e0f71c6a435b2e28f8a4cc7790f3b982e62c
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Dec 11 14:54:49 2006 +0000

  Fix Xming fails to use xkb bug
  bug #5049 (Colin Harrison)

commit 27d4b84f268ac21601f7f52a7e257f70753396b3
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Dec 11 14:50:08 2006 +0000
Fix Tooltip from minimized clients

Bug #3678 (Colin Harrison)

ccommit ae3c24da34cd8eeb77a6389861856fd51e0841f5
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Dec 11 18:09:59 2006 +1030

dix: Moving SpriteRec into DeviceIntRec
    removing global sprite structure
    beginning to remove MPX ifdef

xnest: Fix to make xnest compile again

ccommit fb8364bca30fe9268e807b0a9a3ebf875ee1fce2
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Sun Dec 10 11:24:05 2006 -0500

    Accept EDID > 1.3 but < 2.0 if we find it, assume it's compatible.

ccommit e1f73d220873fa091695e46b7fcd008663a95a6f
Merge: 27d682fa03 d56249a15e
Author: Ian Romanick <idr@us.ibm.com>
Date:   Fri Dec 8 17:24:15 2006 -0800

    Merge branch 'master' of ssh+git://idr@git.freedesktop.org/git/xorg/xserver into pci-rework

    Conflicts:

        hw/xfree86/common/xf86Configure.c
        hw/xfree86/common/xf86Helper.c
        hw/xfree86/common/xf86pciBus.c
        hw/xfree86/int10/helper_exec.c
        hw/xfree86/os-support/bus/Pci.c
        hw/xfree86/os-support/bus/linuxPci.c
        hw/xfree86/os-support/linux/lnx_pci.c
        hw/xfree86/sanpci/Makefile.am
        hw/xfree86/utils/pcitweak/Makefile.am
        hw/xfree86/utils/sanpci/Makefile.am

ccommit d56249a15ead51ad4d2117d5538ada24af05b693
Merge: f1f8df1889 ec84f72d07
Author: Jeremy C. Reed <reed@glacier.reedmedia.net>
Date:   Fri Dec 8 15:52:37 2006 -0600

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

ccommit f1f8df1889ab656bb57596e2f85408f15f42cd5d
For MANDEFS, also replace __mandir__ for $(mandir) which includes the prefix. Noticed wrong path to man pages on both Ubuntu and on NetBSD with pkgsrc.

commit ec84f72d077eaf2e7768a1f5398f65a5e1714d08
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Dec 8 21:31:47 2006 +0200

XkbCopyKeymap: always initialise map and preserve

If we don't have map or preserve in the source map, make sure the destination is initialised to NULL, and freed if it's a valid type.

commit e59aeac1ff13ea53f44db1ac7800f37f4532ca1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 23:44:06 2006 +0200

xfree86: remove stray debug line

commit 729fca33a417ae3dfb1b0afa0e8946ef9e11d
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Thu Dec 7 12:09:18 2006 +0100

Revert "xfree86 DDX: Delete DDX screens in ddxGiveUp()."

This reverts commit a6381e69845f58d2b3282992b1f881015190f1bc.

See https://bugs.freedesktop.org/show_bug.cgi?id=9224 .

commit 4ea6dfb984063117ee5c2f931205b1c3eb3108b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 23:24:39 2006 +0200

whitespace police

commit 4cb1a1e6fbd7ab489b1b1ff6656cbe88eb61e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 23:21:38 2006 +0200

config: bus reconnect support

Add support for reconnecting to the bus when it restarts.

commit 0c5dah5e8eaa174f28054b9d20244a709c015210
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 23:21:15 2006 +0200

config: move config.h to hotplug.h

Also, move configInitialise to after OsInit, since the next commit will make it use a timer.

commit 72e7f2ac6cf0db474d0deft7918f2a3ba76c0e46
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 23:18:52 2006 +0200

GetPointerEvents: always send valuator events for MotionNotify

Always chase a DeviceMotionNotify event with a DeviceValuator, which is not required in the spec, but will silently break the lib if you don't include.

commit c458a70d650bd62b8f4706f022d1f347636db1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Dec 6 20:30:44 2006 +0200

GetPointerEvents: fix typo

Fix typo that resulted in inverted axes when using an absolute positioning device that didn't report y, and thus relied on the previous value.

commit edabf45425f9ed79547f918cc0dff4c268de386
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Dec 2 16:37:19 2006 +0200

configure.ac: add CONFIG_LIB to Xvfb

commit 8724af248cd6c93182fed060fed09a556361080
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Dec 2 16:20:34 2006 +0200

kdrive/mga: fix compiler warning

Change a case that only made one test for an if, preventing the compiler warning about all other PICT_* types being unsupported.

commit 2f0a800ffdc881c84f1ed97bb63c3ba34c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 27 22:22:53 2006 +0200

config: move to block/wakeup handler

commit 99378b58db6c63160382ad9e41f9cb0dd2a24e9d1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Nov 27 22:22:33 2006 +0200

kdrive/tslib: remove vendor-specific hacks

Parts of the KDrive merge accidentally contained a bunch of vendor-specific hacks; sorry.

commit 8884a73a3f4efa8276c5e38b9573201574c4f1f6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Nov 27 22:39:56 2006 +0200

xfree86/input: re-add support for disabling drag events

commit f2903c12bb4bb0b7c94b96c55af8fa55507f9d7d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Nov 7 11:13:32 2006 +0200

SyntheticMotion: don't dereference sprite.screen when not using Xinerama

(cherry picked from aa052e43c6c293e14f78837e00c6b7581f9713bb commit)

commit d17ec01e8395a8f14b75a10c8bf082b3f5a4fb36
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Dec 1 00:41:41 2006 +0200

remove CID support (bug #5553)

Remove CID from all our fontpaths.
(cherry picked from 69820a10e33e4582c192360996e866007114639d commit)

commit abe5e079af715713097ab0daad29a3e9f523e398
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Dec 6 07:58:03 2006 -0800

Update pci.ids to 2006-12-06 from pciids.sf.net

commit 724f9cb578086e8483a2d0636dd6eb05d664d31c
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Dec 5 13:44:05 2006 -0800

Bug #9219: Use pWin->viewable instead of pWin->realized to catch InputOnly windows too.

commit 3690de9b1b0902d395bc7d071fc05ebc8f75be2b
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Dec 5 12:42:12 2006 -0800

Bug #9219: Return BadMatch when trying to name the backing pixmap of an unrealized window.
Before this change, ProcCompositeNameWindowPixmap would name the screen pixmap if !pWin->realized.

commit eb1d9f51af19dab20a95c2830ca1c508d8ee66bb
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 5 18:50:19 2006 +1030

Ironing some glitches caused by the merge

commit 3c8f166022a2d19af14eb670fa382503ba1451cd
Merge: 2a511492f9 f9f7d7f3be
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 5 18:28:33 2006 +1030

Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver into mpx

Conflicts:

dix/events.c

commit 2a511492f9a235d3f5390a887b6c643cbea92d88
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Dec 5 15:45:18 2006 +1030

Xi:     adding MPX checks to ProcessOtherEvents

mpx:    adding QueryPointer request and reply
        adjusting names of requests to Xlib compatible naming (xMPX*** instead of
        mpx***)

commit f9f7d7f3be53c808abb5eaceb7a1abc55744a210
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Dec 4 13:36:30 2006 -0800

Check for __sparc as well as __sparc__ for compatibility with Sun cc

(gcc defines __sparc__, Sun cc defines __sparc)

commit ac90ce58ba1da3ed605adf75f4d54c34b578c402
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 1 21:12:21 2006 -0500

Naming change: Security*Operation -> Xace*Operation

commit f44f14fe564d834568a0afe8ba944223a73ea0f5
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Dec 1 20:48:15 2006 -0500
Define calls away when not building XACE, allowing ifdef's to be removed.

commit a5d6499d666fea4a9988118ddd3a5e4c9cfe32c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Dec 1 16:42:37 2006 -0800

Fix syntax error in configure check for SYSV_IPC that broke with Sun cc

commit 89b2aa9be81613c1a06bd535bf50eef2a00208d
Author: Keith Packard <keithp@guitar.keithp.com>
Date:   Mon Nov 27 21:40:24 2006 -0800

Destroying RandR crtc or output overwrites memory.

RRCrtcDestroyResource and RROutputDestroyResource had matching
bugs that would overwrite memory past the end of the storage
of the crtc or output arrays. Oops.
(cherry picked from 4202b23ed86405a4cebdfce239df1b023c1d10ca commit)

commit 23ba72323af785516db6cbcf6c1b2fa907a8232f
Author: Keith Packard <keithp@ukulele.keithp.com>
Date:   Thu Nov 30 23:16:42 2006 -0800

RandR ListOutputProperties has nAtoms element, not nProperties

Earlier RandR 1.2 encoding revisions used 8-bit nProperties field.
Final RandR 1.2 spec uses 16-bit nAtoms field instead.
(cherry picked from 66b6358a393972946f16394918db2401c51dc5ed commit)

commit 416f1bb99a6d4557f2863ae941868e47e11bb3b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Dec 1 15:56:52 2006 +1030

mpx:    SelectEvents and GetEventBase requests.
         Some renaming and cleaning up in extinit.c
         MPXLastEvent added

Xi:     ShouldFreeInputMask() from XI is not static any more, used in mpx

dix:    GetPointerEvents() allocates MPX event for MPX devices.
         DeliverDeviceEvents() caters for MPX devices.

commit ccd804c6c01cdfffe938fa5336be9b5668a6f0c0
Merge: 9423ac134a 82912ad770
Author: Drew Parsons <drew@pug.localdomain>
Date:   Fri Dec 1 15:21:57 2006 +1100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 9423ac134a2a9800787c4978d384827cc4e61fc8
Author: Drew Parsons <drew@pug.localdomain>
Date:   Fri Dec 1 15:21:05 2006 +1100

GNU/FreeBSD support in GLX: include byteswap.h for FreeBSD systems defining __GLIBC__, as done already for Linux and Hurd (cf. bug #5613). Also includes some more __GNU__ checks on top of those made in commit ade4bf09076d13dbf3549e0a2d987a0afe76d5c1.
Thanks Petr Salinger (Debian bug #400869).

commit 82912ad7709e8cf4a5f8a9fa6b47f789842a3fe9
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Nov 30 20:13:52 2006 -0800

Make solaris version of xf86OSRingBell return void like other OS'es

commit 8956f63a941bf0a5f157d47b33e6221601a75040
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Nov 30 19:53:29 2006 -0800

Tell automake to STFU about the *.O files

automake will not stop whining about the *.O files not being in normal library name format, so just tell automake they are PROGRAMS so it builds them without bitching.

commit f3c60900e575e65254cd2576cc6c90b97c8f63ae
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Nov 29 22:19:57 2006 -0500

Add required root window context to config file.

commit 143558500a89a5c887c75c03798bae68c953cac9
Merge: e3d3d29db5 ee9bdd3f4a
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Nov 29 20:41:41 2006 -0500

Merge branch 'master' into my-XACE-SELINUX

commit ee9bdd3f4a14a42fb0747acc420966ff669129b
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Nov 29 12:01:43 2006 -0800

Add DIX_CFLAGS to util builds.

Fixes a build breakage when $(top_srcdir) != $(top_builddir) because
-I$(top_srcdir)/include is missing for the cvt, ioport, pcitweak, and scanpci builds.

Signed-off-by: Adam Jackson <ajax@nwnk.net>

commit a6381e69845f58d2b3282992b1f881015190flbc
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Nov 29 19:25:09 2006 +0100

xfree86 DDX: Delete DDX screens in ddxGiveUp().

This allows video drivers to clean up in the FreeScreen hook things they set up in the PreInit hook.

commit afd6af65510b0147f16f08314045b3506bfa9d89
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Wed Nov 29 17:55:15 2006 +1030

mpx: Infrastructure for MPX extension, GetExtensionVersion request works.

commit b0c8558b9d9a9984c0067960392e28f5a7622b29
Author: Keith Packard <keithp@neko.keithp.com>
Date: Sun Nov 26 19:31:48 2006 -0800

Ensure RandR resource types are registered before resources are created.

Now that resources can be created during server initialization, make sure the crtc, output and mode resource types are created before attempting to create associated resources.
(cherry picked from commit ec83d674167c7045d5317b179c9998e3172a26dc)

commit 6245e9dd4719c5de15ff45d49cf626123794038b
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Nov 21 16:52:28 2006 -0800

Allocate correct size for RRPropertyRec (oops).

Neglected to change the allocation size from sizeof (PropertyRec) to sizeof (RRPropertyRec). Lots of fun crashes this way.
(cherry picked from commit 0626eb8e5c9fa05de6bdc9aa0c654f5148bf7cff)

commit 24abce8032940e96bb2ccf9e463a7fff6f36283a
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Nov 21 01:15:26 2006 -0800

Change RandR property datatype to include pending/valid values.

This patch tracks the protocol changes which introduce more complex
semantics for RandR output properties including pending and valid value information.
(cherry picked from commit af55c65bea40669f0c038aa34c6a1ec9ecb33e87)

commit f62ac3ec39c6593df476985e630e499864c19c72
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 28 10:31:40 2006 -0800

Separate DDC mode list creation from MonPtr creation.

This will be used by the intel driver, and likely other RandR 1.2 drivers.

commit fbd09443385c533416fa530399d54f130afaf985
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 28 10:15:51 2006 -0800

Replace bad mode name-setting code with xf86SetModeDefaultName().

commit 4ad0bde661be2af4a17771d66066d49736e85cbe
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 28 10:12:02 2006 -0800

Clean up a bunch of long lines and trailing whitespace.

commit 05778432dc6e688bc0beff0c20ffd7e27b74888e
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 28 10:07:57 2006 -0800

Move code to get a mode list from EDID data from ddcProperty.c to edid_modes.c.

commit 38ecc66cd9c61346a46697bbf1d8319f4f6f9800
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 28 10:06:15 2006 -0800

Typo that was missed in testing.

commit 834e4b079866594b50be64ae79f3cb2a5b9a2070
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Nov 28 18:57:13 2006 +0100

Fix potential NULL pointer access in timer code.

https://bugzilla.novell.com/show_bug.cgi?id=223718

commit bdf718907b3202815a04ec28a868689708f43da9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 28 18:06:34 2006 +1030
dix: missing parameter to SetCursorPosition in CheckMotion ifndef MPX

mi: missing include in misprite.c ifndef MPX

commit e88be0e55a6937ff0b47fe38f60bfa8991196578
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Nov 28 14:34:36 2006 +1030

mi: Bugfix: FreeCursor ignores negative refcounts.

mieq: Bugfix: Motion notifies did overwrite DeviceMotionNotifies

commit 5dabcd34a0a6e0d10dbfe8fde9d7dfe7a0261b19
Author: Eric Anholt <eric@anholt.net>
Date: Mon Nov 27 16:26:14 2006 -0800

Register dependency on new RandR protocol.

commit 16f8f10dc2106bc6253b2d89a1f8eefee8d80e2ba
Author: Eric Anholt <eric@anholt.net>
Date: Mon Nov 27 16:21:31 2006 -0800

Move mode handling helpers from ddcProperty.c to xf86Mode.c.

commit b4b0d091d98371a8aa7b17d195e18e83e2a6a618
Merge: 64de3ba85 d6cd0313c7
Author: Eric Anholt <eric@anholt.net>
Date: Mon Nov 27 15:43:15 2006 -0800

Merge branch 'randr-1.2'

Conflicts:

  dix/events.c
  dix/getevents.c
  hw/xfree86/common/xf86Mode.c
  hw/xfree86/dri/Makefile.am
  hw/xfree86/os-support/drm/xf86drm.c
  hw/xfree86/os-support/xf86drm.h

commit d6cd0313c7f23f32c9c7dda00ff739e772bf7db3
Author: Eric Anholt <eric@anholt.net>
Date: Mon Nov 27 14:46:50 2006 -0800

Add some mode helper functions from the intel driver.

This also removes static from some other functions that had been copied out
to at least the intel driver, but perhaps others that were doing mode list
handling.

commit 85ea408e38f452bfcf9109f14fd1016d159692a99
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Nov 27 18:07:16 2006 +1030

    mi: malloc checks for misprite and midispcur, code cleanup
        removed IsMPDev()

commit 023da4e804ad260eaf0c50d2ec7213dd514e2113
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Nov 27 15:54:33 2006 +1030

    mi: mipointer.c cleanup, reducing code duplication, using MPHasCursor()
        instead of IsMPDev()

commit a2340a73687d93affb6de28a33d73fd808c96b
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Mon Nov 27 14:47:23 2006 +1030

    mi: free allocated memory in miDCCloseScreen and in miDCInitialize in case
        of errors.
    Some copyright notices.
    misprite.c passes DeviceIntPtr around and down to DC (previously
    miCursorInfoPtr and the plain device id).
    Large cleanup in misprite.c to avoid code duplication.

commit 1c7568b8a1417257fa67c7fca69aa25309b9461
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 23 17:15:14 2006 +1030

    mi: closing memory leak, miPointer is freed in miPointerCloseScreen
    bugfix: uninitialized pPointer in miPointerGetPosition ifndef MPX
    adding DeviceIntPtr parameter to ScreenRec's cursor functions.
    cleanup of miPointer code to use same scheme in each function

    dix: MPHasCursor() function determines checking whether to invoke
         cursor rendering.

    animcur: adding DeviceIntPtr parameter to cursor functions but animcur relies
             on the core pointer right now.

    xfixes: adding DeviceIntPtr parameter to cursor functions but xfixes relies on
            the core pointer right now.

    rac: adding DeviceIntPtr parameter to cursor functions but RAC relies on
         the core pointer right now.
ramdac: adding DeviceIntPtr parameter to cursor functions but ramdac relies on the core pointer right now.

commit 64de3baf85f6df274f71f736016f0848567cd9f6
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Wed Nov 22 14:46:51 2006 -0800

Add a -showDefaultLibPath option.

A corollary to the previous change, this option prints $libdir.

commit 0a2a6e4070718b90af7ca0e047f028e0cabdfb9d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Nov 17 18:27:23 2006 -0800

Add a -showDefaultModulePath option.

As discussed on the mailing list, people would rather have an X command-line option to print the module path so installers can know where to put modules, rather than the installers using `pkg-config --variable=moduledir xorg-server`, since some distros choose not to install xorg-server.pc.

commit 61832cb94c8a4d62cddb92188caeced86519e9d62
Author: Brian <brian@i915.localnet.net>
Date:   Wed Nov 22 09:16:43 2006 -0700

Regenerated from Mesa w/ latest gl_API.xml file

commit 61863f09d22935406371e92bb75173d55f9b29f
Author: Brian <brian@i915.localnet.net>
Date:   Wed Nov 22 09:16:17 2006 -0700

Regenerated from Mesa, fixes glMap* protocol problem (bug 8899)

commit f52d53e060d0468b658a565688d1f92c156405c7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 22 17:58:57 2006 +1030

dix: DeliverEventsToWindow adjusted for MPX

mi: sprite debugging disabled

commit 8c16f21d5df08b028e93440d632939a5f6b5876
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 22 17:06:47 2006 +1030

dix GetSpriteWindow() adjusted for MPX
added device dependency for MPX to DoEnterLeaveEvents,
EnterLeaveEvents, EnterNotifies, LeaveNotifies and FixUpEventFromWindow.

commit 70383105de279df553874efa56b37a7b3e426ea1
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 22 15:27:16 2006 +1030

  mi:   added DevToSprite() conversion function
        fixed miSpriteRealize to use passed pDev argument instead of looping.

  dix:  changed sprite dependency and added MPX functionality to parts of
        events.c (XineramaChangeToCursor, XineramaCheckPhysLimits,
        XineramaConstrainCursor)

  Xi:   fix: accessing other->buttons for keyboard segfaulted the server

commit 33ff4cec5ff7533ec7253f7d56b37a7b3e426ea1
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Nov 21 21:23:17 2006 +0000

  Issue CloseDownDevices() in os/log.c and remove from dix/main.c.

  This ensures that all calls to FatalError() will shutdown the input devices.

commit efd4f3c6ffec804c68ba5df17cc117da264fb7c4
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 21 20:31:30 2006 +1030

  dix:  WindowsRestructured() calls CheckMotion() on all devices

  mi:   core pointer was checked twice in miSpriteReportDamage,
        miSpriteInstallColormap, miSpriteStoreColors, miSpriteSaveDoomedAreas
        and miSpriteRealiseCursor
        using damage bug (see comment in file) to avoid artefacts

commit 9db851c22d4befb95bfb074b96620261d8e32ac9
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Tue Nov 21 18:15:04 2006 +1030

  dix:  moved sprite from static to be pointer of type SpritePtr
        added SpriteRecs for MPX devices
        changed sprite dependency and added MPX functionality to parts
        of events.c (ConfinetoShape, PostNewCursor, XineramaCheckMotion,
        CheckMotion, XineramaChangeToCursor, ChangeToCursor, CheckPhysLimits,
        PointerConfinedToScreen)
        added DeviceIntRec param to GetSpritePosition(). This required some
        minor changes in ddx, xtest, xkb and xfixes.
mi: changed miPointer to pointer instead of static struct.

commit fd8b9a6eaee28a453a00af14195b81ef1890a577
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Nov 21 15:24:43 2006 +1030

TAG: MPX_BEFORE_DIX_API_BREAK

commit 447efdc01da4f892205ba26e52c9e5ff9f5cb90e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Nov 21 14:46:00 2006 +1030

mi: constrain MPX cursors to screen

commit 1107d8bea22eaa26f7b666f1c00a53360b7d237e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Nov 21 14:00:46 2006 +1030

mi: added device ID to miSpriteCursorFuncRec functions
added MPX code to midispcur.c

BUG: Core pointer changes whenever MPX cursor changes shape.

commit 3bad452d12d620df91b1f37d06c650ded96bfafe
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Tue Nov 21 11:26:21 2006 +1030

mi: added MPX to miSpriteReportDamage
added id field to miCursorInfoPtr, required to pass through to miDC
core pointer uses mpCursors array as well.
added miDCBufferRec for future use with MPX

TAG: MPX_BEFORE_MIDC_API_BREAK

commit b1bbdf464df2f8799fa3429c1c27ca998c5f3e94a
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Nov 20 17:58:30 2006 +1030

mi: added MPX to miSprite functions.

NOTE: This version will render multiple cursors but with an artefact each time
when devices alternate.

commit 7b4b619d4c268804199f9f4775eb56604f0b80e8
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date: Mon Nov 20 13:10:07 2006 +1030

mi: moved core pointer information from miSpriteScreenRec into a
miCursorInfoRec.
bugfix in mipointer, semicolon after preprocessor statement

commit ca2874b273232d9f51881b1cd754ed6847bfaf47
Merge: c9a5f9d391 e2f6dacc73
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Sat Nov 18 19:56:32 2006 +0000

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit c9a5f9d3911c2e6a8f81b0721e9eb914fb7719b5
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Sat Nov 18 19:55:42 2006 +0000

Shutdown input devices if FatalError occurs during startup.
Fixes Xdmx problems when the input device has been initialized
and the keyboard map has been destroyed.

commit e2f6dacc736527790ed8e304698678afc17f71c6
Author: Dave Airlie <airlied@linux.ie>
Date:   Sat Nov 18 11:26:55 2006 +1100

dri: setup libdrm hooks as early as possible.

This is due to radeon doing drm stuff before DRI extension gets initialised

commit 90bea69dfdd63f58ee326887359ad1b35a31cb5f
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 17 18:03:43 2006 +1030

mi:
  added miCursorInfoRec to contain info of the MPX cursors.
  calling miUpdatePointerSprite() from event queue for MPX devices.
  adding device-specific processing to miPointer*() functions.

dix:    Call to SetCursorPosition in CheckMotion() temporarily disabled.

xfree86/common: call to miPointerUpdateSprite() disabled, is done from the EQ

NOTE: This build will not display cursor images.
BUG: The second mouse does to take correct x coordinates.

commit 94e106a898c44daeb228beb031b85f996ddc96b0
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Fri Nov 17 15:10:37 2006 +1030

dix:    moved isMPdev field to end of _DeviceIntRec structure
mi:
  added miMPPointers array to mipointer.c
  added DeviceIntPtr to all miPointerSpriteFuncs. Coming from miPointer
  we use inputInfo-pointer as standard value. ABI BREAK!

ramdac:
  forcing failed HW Cursor initialisation. MPX needs software rendering.
  changes to use new miPointerSpriteFunc (this required externing
  inputInfo, should probably be fixed at a later point).

  RAC: changes to use new miPointerSpriteFuncs.

commit ef47d9c3ba63e9a6243fe5c81ccc60c8246352b4
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Nov 16 13:50:48 2006 -0800

  Reduce calls to RRGetInfo.

  RRGetInfo can be expensive. Don't invoke it when querying Xinerama
  information or setting a new CRTC configuration.
  (cherry picked from commit b5aa9eb8e6eda36856a075f4b008c33f6c706bad)

commit 07b26e690cd9a4fc626132feed0702515cbe5a88
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Nov 16 09:48:33 2006 -0800

  Remove RandR output options.

  RandR output options are now expected to be handled by properties instead.
  (cherry picked from commit 8b2a7e94a1dc2776ab2cfaeb309be02502602a)

commit f17e3c34dfd1f1418440bdebf45764e4dfb550f0
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Thu Nov 16 02:18:03 2006 +0200

  Fix GL context destruction with AIGLX.

  The logic for freeing GL contexts introduced by "Fix AIGLX VT switching." is
  inverted. As it is now, GL context destruction is deferred for glxDRIEnterVT().

commit ae3c9ad4abe66784d7ee474455003d2745699286
Author: Bjorn Helgaas <bjorn.helgaas@hp.com>
Date:   Thu Nov 16 17:29:06 2006 +0100

  Bug 9041: Check the return code in xf86MapDomainMemory().

commit 5388423eb05dacfcc71067b6ab96b6e57c44ef5c
Author: Peter Hutterer <peter@cs.unisa.edu.au>
mieq: EQ processing handles MP devices

global: MPX define added to xorg-server.h.in

xfree86/common: small fix to avoid byte overflow

commit c957a16180810fb0d58526e1a670d82384fb4a61d
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 16 15:11:14 2006 +1030

dix:    added isMPdev field to _DeviceIntRec, is used in GetPointerEvents()

mieq:    avoid merging events from different devices in mieqEnqueue()

xfree86/common
    isMPdev field used from xf86ActivateDevice(), xf86PostMotionEvent()
    and xf86PostButtonEvent()

current 7ce2dc57844872cc340b60387d4d1cb3d982633e
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 16 12:51:08 2006 +1030

dix:
    merge with code cleanup from master
    GetPointerEvents treats events in the same way as XINPUT devices when flag
    has POINTER_MULTIPOINTER set.

xfree86/common:
    added XI86_MP_DEVICE flag and parsing in xf86ProcessCommonOptions
    added POINTER_MULTIPOINTER define. Is used in xf86PostMotionEvent and
    xf86PostButtonEvent for the flags that are passed into GetPointerEvents()

global:
    added flags to configure.ac to enable/disable MPX define
    added flags to dix-config.h.in to define MPX

current 4d07b503727ba86315b90d6f45b06ed6185724b2
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Thu Nov 16 10:55:15 2006 +1030

dix: cleaned up GetPointerEvents() to avoid code duplication.

commit 6ff7f2ad6a5e2e769244590578e6809974b5235d
Author: Eric Anholt <eric@anholt.net>
Date:   Tue Nov 7 13:13:53 2006 -0800

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36410
Fix build on FreeBSD after input-hotplug.
(cherry picked from commit 4e6e4baced6c565363abbcd9e06cc685be121596)

commit bff1bf9b67c8d3d264c0c3fd703cf7e57cdcf7b7
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:53:13 2006 +1030

removed unused variables drag and local from xf86PostMotionEvent

commit f737cd925efe452787443b039ae65b8d85081bb3
Author: Peter Hutterer <peter@cs.unisa.edu.au>
Date:   Wed Nov 15 17:50:02 2006 +1030

o fix minor error in comment for GetPointerEvents()

commit 2eab230d9bd3f73ffe1b5a4211f89e85904ee11
Author: Jeremy C. Reed <reed@glacier.reedmedia.net>
Date:   Tue Nov 14 16:37:18 2006 -0600

For NetBSD, define PCVT_SUPPORT (System has PCVT console).

 Noticed by Joerg Sonnenberger. This fixes problem with console switching.

This was in original imake NetBSD.cf.

commit 26d2e45bd0cfd4dfd81b70365425da49d60b3d5c
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Nov 14 15:33:07 2006 +0100

Bug #9023: Only check mice for "mouse" or "void" if identifier is != NULL.

commit a724b7f1302ba7a59f140b521f13d2d0f0c9bf
Merge: 6facd958c2 f80a8ae666
Author: Jeremy C. Reed <reed@glacier.reedmedia.net>
Date:   Mon Nov 13 20:32:26 2006 -0600

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 6facd958c2e7098eb68eac2810a88b8d40f19c0
Author: Jeremy C. Reed <reed@glacier.reedmedia.net>
Date:   Mon Nov 13 20:23:06 2006 -0600

On DragonFLy, default to /dev/sysmouse (just like on FreeBSD).

TODO: use autoconf to handle this so the code is not platform based but feature based.
commit f80a8ae6e6820378ea70ac0849cee8bf3055e0e8
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Mon Nov 13 18:26:05 2006 -0500

Disable Xprt server build by default.

commit 5be7f4dfc6ab51b6790d74afaf11574385234423
Author: George Sapountzis <gsap7@yahoo.gr>
Date: Mon Nov 13 01:54:32 2006 +0200

DRI: call drmSetServerInfo() before drmOpen().

Also, remove some libdrm remnants.

commit acb5ff4c73ac4d52201d7c421f488e2ead5c8b9c
Author: Jurij Smakov <jurij@wooyd.org>
Date: Sat Nov 11 14:09:15 2006 +0200

ffs: handle 0 argument (bug #8968)

Handle an argument of 0 in ffs(), instead of looping indefinitely.
Add an ffs prototype to dix.h, and add includes to ffs.c.
(cherry picked from 34164e551e4c3909322d50b09835ca4ac1d49d68 commit)

commit ca094684196886a4a1c10273049fae0705a3edc2
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Fri Nov 10 18:02:05 2006 -0800

Correct symlink-mesa.sh usage message

commit 28337cc1060bc08ade81c304dd9ed02d0a0e37b
Author: Eric Anholt <eric@anholt.net>
Date: Thu Nov 9 19:51:17 2006 -0800

Fix typo before the last commit.

commit e1720b1089328af80ca0cb85e5289ced05263f95
Author: Eric Anholt <eric@anholt.net>
Date: Thu Nov 9 18:53:37 2006 -0800

Bug #8868: Remove drm from SUBDIRS now that the directory is gone.

commit 0dee48b8af3e054228aef0d15c1cb1c9e23790cc
Author: Keith Packard <keithp@mandolin.keithp.com>
Date: Wed Nov 8 23:17:55 2006 -0800

Add RRInit function to create resource types for RR objects.
To allow RandR objects to be created before the screen object exists, the resource types must be registered with the resource database. A driver wishing to create RandR objects must call RRInit before doing so.

Also, fix a segfault when setting Output data before it is associated with a screen.

commit ec77a95a02329a2ee3a94d7de9d2a234aeccb9ca0
Author: Keith Packard <keithp@mandolin.keithp.com>
Date:   Wed Nov 8 21:36:35 2006 -0800

Allow RandR objects to be created before the associated ScreenRec.

xf86 drivers need to create RandR object in the PreInit stage, before the ScreenRec is allocated. Changing the RandR DIX code to permit this required the addition of functions that later associate the objects with the related screen.

An additional change is that modes are now global, and no longer associated with a specific screen. This change actually makes mode management cleaner as there is no more per-screen list of modes to deal with.

This changes the RandR 1.2 ABI/API for drivers.

commit fd91630b73100e9d77ccb492c52807448bc772a5
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Nov 9 09:30:33 2006 +1100

make X server use system libdrm - this requires libdrm >= 2.3.0

This patch blacklists the load "drm" line, moves some functions in dri module links dri module against libdrm, and removes the X copy of libdrm

commit 0409e1627a167db2eefc1355f292d3c02a6989fffc
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Nov 8 16:17:20 2006 -0500

'make dist' fixes.

commit 7e0aeebb8f8a5d5ff3cb4d88756e535dd70edeec4
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Nov 8 12:03:37 2006 -0500

Bug #6786: Use separate defines for server's Fixes support level.

commit b5d09d4adb8088719ff494a4281a793717046576
Author: Rich Coe <Richard.Coe@med.ge.com>
Date:   Wed Nov 8 18:10:14 2006 +0200
CheckConnections: don't close down the server client (bug #7876)
When an appgroup is shutting down, the list of clients can change, so make
sure we're not trying to shut the server down.

commit 0567a6337b84fa045b5732e98203f488274aa2a2
Author: Bram Verweij <amverweij@gmail.com>
Date:   Wed Nov 8 18:00:52 2006 +0200

xfree86/linux acpi: fix tokenising
Split on a space, rather on the 'video' string, as strtok takes a char,
not a string.

commit e7900d68c3ee657158813f0650886d680c0a9a3c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Nov 8 15:36:47 2006 +0200

    remove trailing whitespace
    Whitespace police in full effect.

commit 2035f115b7db3c4b7deabeab0d814b3107d6ef30
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Nov 8 15:28:10 2006 +0200

xfree86: remove xf86Keymap.h

commit 809e2841aaa54662a42498aaacec558bc813bb1a1c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Nov 8 15:27:58 2006 +0200

xfree86: add general handler, port ACPI to it (bug #5665)
Add 'general' handler registration, which will not trigger DPMS when an
event comes in.
Make ACPI use this.

commit b5438f7fb2879e0226b578f60b22a490e73c3a83
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Nov 8 15:24:58 2006 +0200

    Get*Events: massive reorganisation
    Reorganise the code logically, and put more comments in.
    Clip valuators in proximity calls.

commit b0a7443ca8bd224994f98c1c1e25de88f2573224
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Nov 8 15:23:52 2006 +0200
configure.ac: axe redundant SDL test

commit 332f179db7c38310db1f752d45f51b6d8301fd30
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Nov 8 15:23:35 2006 +0200

kdrive/sdl: fix compilation

commit 988757a44197e91027109076e2e33ff6510ed71d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Nov 8 14:06:51 2006 +0200

config: error messages non-fatal, and before we free them

Move error messages before we free the error structure, and make them all non-fatal.

commit e2b78df5800fb4e3f0ed01b38a1974ba3577949c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Nov 7 11:13:56 2006 +0200

xkb: warning fix

commit b55007d8cc9d20baa23d5de67683e414c827d3e5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Nov 7 11:13:32 2006 +0200

SyntheticMotion: don't dereference sprite.screen when not using Xinerama

commit f93d10ce9bb4a6de83b561f44fb7b046def16234
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Nov 6 18:33:45 2006 +0200

dix: remove staggeringly broken vendor workarounds

Dear SGI,

No.

Scant regards,
Daniel

commit 389275d240e4ba19d62fda0f138a45c7ecb245ff
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Nov 5 02:47:59 2006 +0200

XkbCopyKeymap: don't iterate broken types, or dereference null pointers
Don't iterate invalid destination types (>= num_types) when coping key types.
Don't free key_aliases if it's NULL (theoretical, but sure).
Make sure dst's label_font gets allocated if it's NULL.
(Thanks, Chris Lee.)

commits d585b4189aff8d7952847f75b19b4f092ab3b88b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Nov 4 21:47:55 2006 +0200

xkb: fix uninitialised warning

Fix uninitialised warning with memset(); we never actually use it uninitialised, but gcc doesn't know that.

commits b6d7b537ed8975363ad0f7c4180a62822358e418
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Nov 4 21:43:22 2006 +0200

os: fix sun extensions test

'else if' is not very valid, plus the logic is kind of broken, so just move it outside the ifdef in the first place.

commits 8ba0c7b62c78dead722b0c8aa414f37bac4414b7
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Nov 4 21:41:03 2006 +0200

xace: avoid 'unused variable pScreen'

Initialise pScreen explicitly, as REGION_* macros ignore pScreen.

commits c3ea1f7db494365032526dc06a7283384bd0ecd1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Nov 4 21:38:31 2006 +0200

dix/mi: still more warning fixes

Fix up prototypes for PrintChildren and PrintWindowTree in the dix.
Make miPrintRegion be unconditionally defined, and move the prototype into regionstr.h.
Change a bunch of ScreenPtr pScreen = foo; to ScreenPtr pScreen; pScreen = foo; in window.c, so we avoid unused variable references (as inline REGION_* doesn't reference pScreen).

commits 3a9b96425851b495503bd2eb0fd0d01c08f6a097
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Nov 4 21:33:09 2006 +0200
dix: add missing prototypes

Add missing prototype for ffs, and include headers from ffs.c.
Move PostSyntheticMotion prototype to input.h.

commit 6716488fa256798070017232405b107d5e985479
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 21:30:23 2006 +0200

dix: remove unused debug code

commit 51813d77bfb84609a58a98e678efe9b6c0bf5503
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 21:29:05 2006 +0200

dix: remove unused variable

commit 844090a5b557705dd0adce2b7ed98813b5104d85
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 21:21:29 2006 +0200

xfree86/xf86misc: warning fixes

commit 61b570d0c1eb448f0aa08b4598118f0d43bc7345
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 21:21:09 2006 +0200

xfree86/os-support: update prototype for OSRingBell

commit c51fadce07d938f6a3edfd5620170fcb7d6486a11
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 21:20:45 2006 +0200

mieq: annotate with some more comments

commit 578899139f133746634a7bf8845e25362b5dfca2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Nov 4 20:35:55 2006 +0200

RemoveGeneralSocket: don't touch EnabledDevices

RemoveGeneralSocket. Harmless, but.

commit ae58d349c1cf5d63ad3616c485baa858350978d5
Author: Laurence Withers <l@lwithers.me.uk>
Date:   Sat Nov 4 19:34:37 2006 +0200
CreateColormap: fix return value (bug #7083)

Return BadMatch when an unsupported visual type is given, not BadValue -- this is correct according to the spec.

commit 96f78e3886791b723ccd9ba40bea701603537b0c
Author: Erik Andren <erik.andren@gmail.com>
Date: Sat Nov 4 19:29:49 2006 +0200

remove XFree86 changelogs (bug #7262)

Without being able to tie these to specific commits, the text changelog is useless, as well as being huge.

commit 5a40448f2d0ac2c86c617bebe3fb649174bf0d7f
Author: Eric Anholt <eric@anholt.net>
Date: Tue Nov 7 15:48:05 2006 -0800

A couple more cases of error message before freeing strings.

commit 05f1c302460a14c8fa9a943a12d69adcd3c30d58
Merge: 3e7e0e3509 46af6d1e95
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Tue Nov 7 18:42:54 2006 -0500

Merge branch 'autoconfig-for-7.2'

commit 3e7e0e35094d09e0e764818ed125314be75be01a
Author: Eric Anholt <eric@anholt.net>
Date: Tue Nov 7 14:13:23 2006 -0800

Report the error before freeing the error strings.

commit 4e6e4baed6c565363abbcd9e06cc685be121596
Author: Eric Anholt <eric@anholt.net>
Date: Tue Nov 7 13:13:53 2006 -0800

Fix build on FreeBSD after input-hotplug.

commit 20e9144c0746943624f77a61791b8596f3f8458
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Nov 7 12:49:28 2006 -0800

Add $(DIX_CFLAGS) to remaining Makefile.am files

commit 5e946dd853a4ebc2722ae023429ce5797de3d7a6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Nov 7 13:50:19 2006 -0500
Bug #8937: Extension setup functions not called on server resets

commit 1dcd4f3c56214464c0b66123f6ea6daa69ae69fc
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Nov 7 01:29:51 2006 -0800

Avoid dereferencing sprite.screen when Xinerama is not running. (#8925)

With Xinerama support built into the X server but not in use,
sprite.screen is NULL and yet the SyntheticMotion macro would dereference it. Avoid that by just passing sprite.screen to PostSyntheticMotion which can then dereference it when Xinerama is enabled.

Also, define PostSyntheticMotion in dixevents.h and include dixevents.h in getevents.c

commit c20d3bf75733da0bf26beaf7d8c359d18edbd70e8
Merge: 028bbddc041 3d9c02fe6
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Tue Nov 7 01:21:28 2006 -0800

Merge branch 'origin' into randr-1.2

commit 3d9c02fe6aaa602c52f1d40eae6cd3bd000cf9f
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 6 21:25:52 2006 -0500

More work on Bug #8875: revert previous fix and try using client argument instead of serverClient. Also don't use totalClientSize as it is not initialized until after the first call to InitClient.

commit 75fe0670eb1f71144246ff1c20759d58788bb80e0
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 6 15:30:25 2006 -0500

   whitespace adjust

commit 0539d9cf2423fc0bed6f5c413beba3080f8ab85
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Mon Nov 6 15:29:17 2006 -0500

   Bug #8875: Security extension causes Xorg to core dump on server reset

commit aa0261a98e9d5b3b33e2639bd83c556dd4000
Author: Juliusz Chroboczek <jch@pps.jussieu.fr>
Date:   Mon Nov 6 02:29:49 2006 +0100
Improve vm86 error handling in Xvesa.

commit 6b2c65fdd169037c6ede250d4a8fe3d29a080ae
Author: Juliusz Chroboczek <jch@pps.jussieu.fr>
Date:  Mon Nov 6 00:30:09 2006 +0100

Fix typo in Xvesa: incorrect reporting of DAC capabilities.

commit 028bbdc0417173803695808ba9f48498519273a3
Merge: 50504c68e1 8deaa312a
Author: Keith Packard <keithp@neko.keithp.com>
Date:  Sat Nov 4 17:46:26 2006 -0800

Merge master back to randr-1.2

commit 50504c68e1d407232cf83465981b235e542ef31f
Merge: 8b87ce1974 cde8806c29
Author: Keith Packard <keithp@neko.keithp.com>
Date:  Sat Nov 4 17:43:19 2006 -0800

Merge branch 'randr-1.2-origin' into randr-1.2

commit 8b87ce19741753eafbd99e7093bc3dea8f26e838
Author: Keith Packard <keithp@neko.keithp.com>
Date:  Sat Nov 4 17:41:25 2006 -0800

Allow X server to build against libdrm 2.1

commit 7ffbe9d232e3a4621a204448d67e434736465cbe
Author: Keith Packard <keithp@neko.keithp.com>
Date:  Sat Nov 4 17:41:09 2006 -0800

Add DIX_CFLAGS to hw/vfb/Makefile.am

commit 2db62bce0725ba2d88cbe40fc440b6bda45046f3
Author: Keith Packard <keithp@neko.keithp.com>
Date:  Sat Nov 4 17:40:34 2006 -0800

Define fbHasVisualTypes in fb.h as it is exported

commit 8deaa312ad7f9b492a2ae8ad17d74650112c25c
Author: Bernhard Rosenkraenzer <bero@arklinux.org>
Date:  Sat Nov 4 18:59:39 2006 +0200

automake: avoid use of reserved _SOURCES keyword (bug #8866)
Avoid using _SOURCES unless we’re directly referencing a program or
library to be built; use _SRCS instead. Shuts automake 1.10 up.
commit f72927d26cd112d321f7bf187df3c740b3129d22
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sat Nov 4 19:00:57 2006 +0200

xfree86/hurd: remove OsMouseProc (bug #5613)
Remove OsMouseProc, let the mouse driver deal with it.

commit 0273610578485564c3c0b0e11b336b6554cc31b43
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sat Nov 4 19:02:04 2006 +0200

xfree86/hurd: add bell support, remove SERVER/LOADER defines (bug #5613)
Add no-op bell ringing support, and remove obsolete @SERVER_DEFINES@ and
@LOADER_DEFINES@ from CFLAGS.

commit ade4bf09076d13dbf3549c0a2d987a0afe76d5c1
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sat Nov 4 19:03:13 2006 +0200

mesa/indirect: include byteswap.h on GNU userland (bug #5613)
Include byteswap.h on all GNU-userland systems (including with the Hurd
and FreeBSD kernels), not just Linux.

commit 412e93349e1656c9650115328af4be0e59a66f74
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date: Sat Nov 4 19:05:02 2006 +0200

kdrive: make building of Linux support conditional (bug #5613)
Only try to build Linux support on Linux. We should probably disable all
OS-dependent DDXes if we don't have a workable OS (and only build
Xephyr/Xfake), but that's future work.

commit cde8806c2930788ba8076e94651d391e45f3ccdb
Author: Eric Anholt <eric@anholt.net>
Date: Fri Nov 3 16:36:34 2006 -0800

Don't bump the refcnt if the new mode is NULL.

commit 97fd471a627be185bee8cda3f709cfccea3fa12d
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Fri Oct 27 12:36:56 2006 -0700

Fix standard VESA modes.

The built-in mode timings were off slightly for the 640x480@60, 640x480@72,
and 1024x768@75 modes.
commit 22ee2e4e1f1d9fd9ca9f25c9bf25370034b771d4
Merge: 49a26681b2 bd0c829654
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Nov 3 12:54:56 2006 -0800

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 49a26681b2bd95ed65c425f1fa1441d2f092a6e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Nov 3 12:54:43 2006 -0800

Add DTrace probe points for X server <-> client communications

See http://people.freedesktop.org/~alanc/dtrace/ for more details

commit bd0c829654903ca45543df95cda967e4f9fd8ac
Author: Bjorn Helgaas <bjorn.helgaas@hp.com>
Date:   Fri Nov 3 18:54:06 2006 +0100

Do not map full 0-1MB legacy range

If we're mapping something in the "legacy range" (0-1Mb), we shouldn't expand the requested range to the entire 0-1Mb range. Typically this is for mapping the VGA frame buffer, and some platforms support mmap of the frame buffer but not the entire 0-1Mb range.

For example, HP sx1000 and sx2000 ia64 platforms can have memory from 0-0x9ffff, VGA frame buffer from 0xa0000-0xbffff, and memory from 0xc0000-0xfffff. On these platforms, we can't map the entire 0-1Mb range with the same attribute because the memory only supports WB, while the frame buffer supports only UC. But an mmap of just the frame buffer should work fine.

commit c1828a8ff51e88db326c47e6710f4f42fa94fb6d
Author: Egbert Eich <eich@freedesktop.org>
Date:   Fri Nov 3 18:32:48 2006 +0100

Fixing mach64 driver bailing out on ia64

Mach64 driver bails out on ia64 because it cannot map device memory. It turns out that some bogus and unneeded code attempts to find the root bridge of the device and fails to do so properly as there this host-to-pci bridge is not existant. This code has been around for years although it completely unclear what it had been intended for. Fixing this by eliminating the bogus code.

commit d50fc413b39f52663b46084c28e81fc4933a7b49
Author: Matthias Hopf <mhof@sun.de>
Date: Thu Nov 2 18:53:41 2006 +0100

Fix device path in altixPCI.c to be domain aware.

commits 1d731fc54a2cf5d3f353d8ee1c7c4989df27f011
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 18:50:15 2006 +0100

Add domain support to linuxPciOpenFile().

Loosely based on patch from David S. Miller <davem@davemloft.net>
See also bug #2368.

commits caaa113acf4144fd47a1ac93ca440d78d1983e54
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 18:38:45 2006 +0100

Fixing domain support for ia64

ia64 specific functions + defines.
Still uses /proc interface for some scanning code.
Based on code from Egbert Eich <eich@freedesktop.org>.

commits 16c5043fc0e84b14323cd211c2645106455ac320
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 18:22:09 2006 +0100

Fix 2 warnings.

commits 072e022e731c3aadf34096f16364e29df47280d2
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 17:58:19 2006 +0100

Fix obviously wrong boundary checks + cleanup unused vars.

Also disable compilation of code that is no longer used anywhere in the whole Xserver tree.

commits 5afc6c1a14fea2966017493b045fa7209faeb8eb
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 15:42:03 2006 +0100

Added linux 2.6 compatible domain aware device scanning code.

Additional scanning code uses the /sys interface of 2.6 kernels.
Cleaned up the use of tags and already split domain/bus/dev/fn.

commits 6319f7d713971f70f06166480f069eca3bcace36
Make int10 fully domain aware.

commit f4dd2665b0f9aa9c00a5152c73bc72cb7514eeb5
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 12:36:12 2006 +0100

Added missing domain stripping in already domain aware code.

commit 46901063e8edc82b67989f4e5eeca39d17c67dce98
Author: Matthias Hopf <mhopf@suse.de>
Date: Thu Nov 2 12:25:03 2006 +0100

Build with -D_PC on ix86 only.

commit 543b397277d1f03b8091e44812010abcd5d80102
Merge: 4056e6e79a 645d057620
Author: Keith Packard <keithp@neko.keithp.com>
Date: Thu Nov 2 19:00:35 2006 -0800

Merge branch 'origin' into randr-1.2

commit 037f23e6f8fe6e6e6c8e71ed21958fc553df72d0
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Nov 2 18:30:58 2006 -0800

Convert Xprt DDX to new motion history api

commit 7dc54a40e900cbea1e509620623b091d54a3c2d1
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Nov 2 16:38:47 2006 -0800

Remove references to xf86Info.kbd* from solaris code

commit e46f7f78b362e76f5a553184e3f5ec7e109aa39d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Nov 2 16:38:12 2006 -0800

sun_bell.c needs to #include "xf86_OSlib.h"

commit 58bf9a142d1957f4d77038ee4ce7b1116b1f7955
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Thu Nov 2 14:43:02 2006 -0800

PostSyntheticMotion needs to be extern, not static, since it's in getevents.c
commit 1ecd45fb8e4250fb51daa2bdf1a960af08b53fb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 04:51:03 2006 +0200

   Makefile.am: add config to DIST_SUBDIRS as well

commit 01afa533aa872d1a101a41153f95d800e68f6ea3e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 04:32:37 2006 +0200

   xfree86/os-support: axe more unused files

commit 57c1409151cb1f6e0e528fb92ebda58f86f12c1a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 04:21:06 2006 +0200

   xfree86/os-support: remove unused file from dist

commit de5a4c63747a417cdece919f4fb5a4004a3ee7bb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 04:18:33 2006 +0200

   xkb: note that we allow full xi interaction
   We now allow maps to be set (etc) on different keyboards, so stop putting
   XkbXI_KeysboardsMask in unsupported.

commit 1d65429a9e03871969552d0c31b022546cc46b12
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 04:12:55 2006 +0200

   xfree86: don't attempt to enable and disable non-DIX devices
   Don't try to enable and disable devices with no entry in the DIX, such as
   the evdev brain.

commit 64139c1950ea825c0a0124abc5f88499e91f797f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 03:22:09 2006 +0200

   bump to 1.2.99.0

commit 18c246a13b887b865de6a17e6cd1c259b9bc383d
Merge: 794f2e7291 4843d823f4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 03:21:37 2006 +0200

   Merge branch 'input-hotplug'

commit 4843d823f4d38d8bd468ce3a8feddbff229ed416
merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit ba9f5138fc32a7b97bcf941bc92751b7c6c2c0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 03:16:10 2006 +0200
	xfree86: allow starting with no input devices
    Add a server flag (AllowEmptyInput), which will inhibit adding the
    standard keyboard and mouse drivers, if there are no input devices in the
    config file.

commit be291a6d9764cf29a7d9a8114d47d9f41ce856e9
Merge: a2d6242106 6fdfd9dad9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 03:15:25 2006 +0200

merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit a7b944f0d96c3e0e15e75378a04def1ac96089fb
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Nov 2 00:46:33 2006 +0200
    kdrive: remove Change{Keyboard,Pointer}Device
    This was removed in the DIX, so just axe it.

commit d9a5e3e964b6c91fbc88b50674fcec9660b972a4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Nov 2 00:45:23 2006 +0200
    XkbCopyKeymap: be more careful with levels, allocate compat/geom
Take various extra precautions with copying levels across (thanks Chris Lee for a gdb session), including allocating when we don't already have a coherent map.
Only free type components if they're present.
Allocate geometry and compat components if we don't already have them in the dest map.

commit 6fddf9dad91d7b7aa292f8c4d268dd27c34de8d3
Author: Eric Anholt <eric@anholt.net>
Date: Wed Nov 1 14:29:59 2006 -0800

Fix several cases where optimized paths were hit when they shouldn't be.

This fixes a number of rendercheck cases.

commit 40f84793bca40dce6883d51aefa1bda44bd1ac61
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Nov 1 14:34:46 2006 -0800

   Propogate $LIBS for xtrans, clock_gettime, libm, etc. to libs used for each server

commit d7d931abe01a8cf555b027f2bcfccc5e9053e52
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Nov 1 23:48:58 2006 +0200

   configure.ac: remove check for rate/period
   Keyboard stuff is now handled in the kbd driver.

commit 81728558a044fdde0e1d63da7b6314755f77296e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Nov 1 23:10:26 2006 +0200

   input: add non-keyboard bell ringing function
   Add a generic 'ring the bell' function (console bell on Linux and BSD, /dev/audio on Solaris), and add DDX functions for this. Make this the core keyboard's bell.
   Port Xvfb and Xnest to this.
   Port XFree86 to this, with OS-specific hooks for Linux, BSD, and Solaris taken from foo_io.c in the old layer.

commit 3df454719f9cbf6a046cb7458019ec621b3b42ee
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Nov 1 23:02:57 2006 +0200

   kdrive: add KdRingBell prototype

commit 4056e6e79a4e37101d298ae29139ce83d3816368b
Author: Keith Packard <keithp@mandolin.keithp.com>
Move physical size from mode to output.

Modes can be shared across different sized monitors this way.

Also caught some missing byteswapping and an incorrect return type.

Commit: c03311a1e78dada291477a67b1bb7206772108c5d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Oct 31 16:05:48 2006 -0800

Fix automake error: BUILT_SOURCES was defined multiple times on Solaris

Commit: a2434ec5f3c9dc79d1f05c2d704a82a766718ed4
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Oct 31 15:57:59 2006 -0800

Make _POSIX_C_SOURCE hack work with Solaris headers

Solaris headers are very literal - if you ask for POSIX_C_SOURCE 199309L, they limit to only the functions in that standard and no more, unless you also specify __EXTENSIONS__ to allow functions beyond the standard base.

Commit: 645d057620552a3610ae351267d5b84d76236bd
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun Oct 29 18:19:56 2006 +0100

Handle building in a separate objdir

Commit: 59584c375f4e4b2670a92002eb7a78a0bc50cce
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun Oct 29 17:49:46 2006 +0100

kill GNU-make'ism.

Commit: 0107320fac0913aae2cb169992e31c670b4bd2f7
Merge: 06b6b971d0 a344465b3
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>
Date: Sun Oct 29 15:23:35 2006 +0100

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Commit: 06b6b971d065226b983ba25da7ea8236ec37df04
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>
Date: Sun Oct 29 15:22:37 2006 +0100

Make sure we have 64-bit file-offsets in libdrm.
commit 644ee2434a4e09f5baea00a486911f8c24b9a261
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 29 03:52:11 2006 +0300

    kdrive: avoid null dereferences
    Avoid jumping into NULL pointers for OS or card functions which do not
    exist.

commit 738d2e88171bcce8782d670a1cda9a1d941d7977
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 29 03:48:02 2006 +0300

    kdrive: move bell ringing into an OS function
    Move the bell into an OS function, and use that if it's declared; else,
    fall back to using the driver's function.
    Remove the Linux keyboard bell function; just move it into the OS layer.
    Use named initialisers when converting the old structures, and eliminate
    unused functions.

commit 96e32805d12fc36f0fa0926dbb0dd8a5cadb739
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 29 03:43:34 2006 +0300

    Xi: disallow changing core keyboard and pointer
    Just short-circuit the change core keyboard/pointer requests.

commit 68f595ca6c7883e030947b7f95c05e92aa733f2b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 29 03:41:34 2006 +0300

    GetTimeInMillis: use correct units for clock_gettime
    Make sure we're treating the nanoseconds as a long, not an int, so we
    don't overflow.

commit 51a06b3c44509c72279b5cfcf2b52b9a35c461b0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 29 03:40:57 2006 +0300

    WaitForSomething: only rewind when delta is more than 250ms
    Only rewind time when we're more than (original delta + 250ms) away from
    executing the timer.
    When we're walking the timer list, use a goto to iterate all of them from
    the start again, since timers may drop out of the list.
    Don't bother trying to be smart in TimerSet, we'll pick it up in
    WaitForSomething anyway.

commit a34446f5b3d90714969a90583c49eb1eae1c9651
Add missing file to list in Makefile.am

commit 92d04e746bd9b8ad3ee217c165ace20468e079cf
Author: Thomas Hellstrom <thomas-at-tungstengraphics-dot-com>
Date:   Fri Oct 27 18:26:30 2006 +0200

Import libdrm functions for the drm memory manager.

commit e3d3d29db5ee057b4e8294377c9c3147436bc2f
Merge: 92387e99d0 004d00e668
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 26 20:21:16 2006 -0400

Merge branch 'master' into my-XACE-SELINUX

commit 92387e99d085b0b081fcedb2f20304eb0ac536b1
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Oct 26 20:20:57 2006 -0400

Change symbol in libaudit library test.

commit 196c5836f463c28f633bbba847f59ac5935359d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 27 01:27:31 2006 +0300

CoreKeyboardProc: annotate with FIXME
    Setting an empty keymap by default isn't wildly useful.

commit f9a1e456f8a4eaa1a9c71f0fe5231140975c22d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 27 01:25:39 2006 +0300

CoreKeyboardProc: don't leak keymap and modmap
    SetKeySymsMap does a copy here, so try not to leak them.

commit a5be65401769fabcb5001dc63035c69f9e4a2712
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 27 01:25:21 2006 +0300

mieqEnqueue: only compare DEVICE_BITS of deviceid
    Only compare DEVICE_BITS of the two deviceids, so we don't decide that
    a valuator event isn't for us, because (id | MORE_EVENTS) != id.

commit 85212eb504f860b054eb0f0a5029fed86cb8d1c0
Author: Daniel Stone <daniel@fooishbar.org>
getValuatorEvents: make sure we put MORE_EVENTS in the right places
Make sure we put MORE_EVENTS in with the device id if there are, in fact,
more valuator events coming.

commit 794f2e7291ccb4e48f9fbfc8f08302e3aac0f79f
Author: Myron Stowe <myron.stowe@hp.com>
Date: Thu Oct 26 20:38:58 2006 +0300

xfree86: re-enable chipset-specific drivers for Linux/ia64
Re-enable chipset-specific support for Linux/ia64, by linking in
lnx_ia64.c.

commit 8c0556e7cb1de8c387d886a03a8f8afff1fd0e
Merge: cdc8a4b7b2004d00e668
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Oct 26 15:21:22 2006 +0300

Merge branch 'master' into input-hotplug

commit 004d00e6689f452fc9fd91f5ff6d6aed697d54
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Oct 26 01:10:08 2006 +0300

GetTimeInMillis: simplify monotonic test
We don't actually need to get the CPU clock ID, which means we don't need
the monotonic_usable test. Since there's now only one branch, the
compiler will treat that as likely, so we don't need xproto 7.0.9 anymore.
The fallback through to gettimeofday() is preserved.

commit cdc8a4b7b2f099b886a54c5e9f488e6f7c4913a
Merge: 3da918a16c d285833290
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Oct 26 00:28:30 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit d285833290316cb5dd1e7f1e52c96be3e9cf21cd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 23:57:00 2006 +0300

GetTimeInMillis: spuport monotonic clock
Add support for CLOCK_MONOTONIC from clock_gettime, and use that in
GetTimeInMillis() if available, falling back to the old gettimeofday() implementation.
This is _slightly_ faster on some 64-bit architectures, and _slightly_ slower on others (though barely measurable).

commit d3e57faffee63df1424a209d0418d3a712f91ae6
Author: Daniel Stone <daniel@fooishbar.org>

WaitForSomething: allow time to rewind
If time rewinds dramatically, reset all the timers to fix their expiry.

commit e21604914dccece6bc64e69b55512d1f1a969235
Author: Keith Packard <keithp@neko.keithp.com>
Date: Wed Oct 25 09:48:23 2006 -0700

Merge master back in and clean up some unfinished code (closes 8745)

commit bcbda6d519a11c2c211af8d46f9e1a2676bc3
Author: Michel Dänzer <michel@tungstengraphics.com>

Fix test for Option "IgnoreABI".
This option has plenty of potential for wasting the time of bug triagers without pretending it's always on.

commit 59511974db843fa7e11133894cfc10c20fdaf60f
Merge: 054f8cd267 598ac7a836
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Oct 24 17:26:20 2006 -0700

Merge branch 'master' into randr-1.2

commit 598ac7a83698327b607084abaebcb6d20f25fbb
Merge: 828c34e83c 948a97b97e
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Oct 24 17:23:12 2006 -0700

Merge branch 'origin'

commit 828c34e83cddf3f6cd8445af8fb0cac4164b04ab
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Oct 24 17:23:02 2006 -0700

Byte swap RRSelectInput enable flags.

commit 3da918a16c8908fda8f912a1bcaec19e01528a9
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 02:22:07 2006 +0300
mipointer: remember to update pointer location
Update pointer location so it doesn’t get quickly reset by the next
pointer update.

commit aabc087998e680c2f2c0ebc1c5022c1fe8f58f0c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 02:21:39 2006 +0300

GetPointerEvents: always ensure correct number of events
Ensure correct number of valuator events are returned, and that we always
increment events correctly.

commit 65cd5aa4d754624566e2263015f1a018d137fcee1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 01:12:45 2006 +0300

kdrive/input: remove unnecessary #ifdef XINPUTs
Xi is now mandatory, so don’t bother with the ifdefs.

commit 0514d53e10b3521bb708a9cbde4bab525248eadb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 01:10:44 2006 +0300

xfree86: remove motion history handling
Remove motion history handling, as we now deal with this in the DIX.

commit b1debebf8fe20ded20ba27e871fd1a6a9de029e3
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 01:10:20 2006 +0300

mi: remove mi motion history
This is now unneeded as we do motion history in the DIX.

commit b9e180e632d04bf685ade9e32bd0b20882794486
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 01:09:19 2006 +0300

port all users to the new DIX motion history API
Port KDrive, Xvfb, and Xnest, as well as the virtual core devices, to the
new motion history API. Make GetPointerEvents also update the history.

commit 5b38eb69cdaa154791c7174e35d8e4d3256b19bd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Oct 25 01:08:29 2006 +0300

dix: add motion history support
Add motion history support (sort of based on the XFree86 DDX's
implementation) to the DIX.

commit 11fb58be77ac163844e494b2b0a260cf28a7ecd1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 25 01:07:36 2006 +0300

miscellaneous warning fixes
  Use the correct type for time, and fix the mi prototype of EnqueueEvent.

commit 2a74b8a91da1a98669993078f7fe9081f2d743ce
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 25 01:04:53 2006 +0300

xfree86: re-bump input abi to 1.0, yet again

commit 37d1ffe79c35ada056ce9a56292c000014fe48a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Oct 24 23:06:57 2006 +0300

inputstr: try to keep device structs the same size
  Try to make sure DeviceIntRec and friends stay the same size,
  regardless of whether or not XKB is enabled.

commit 9f9ac01a819ee96fb5be5d7d346c91f461bf3979
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Oct 24 23:01:05 2006 +0300

inputstr: fix indentation

commit 27d682fa030501611a5b52f41f29738134b45c0b
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Oct 24 09:04:14 2006 -0700

  Fix from HEAD accidentally reverted during merge.

commit 8b909135664abb69ada522e8e39495d9eca717ac
Merge: 21291d6ca7 948a97b97e
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Oct 24 08:57:59 2006 -0700

  Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

  hw/xfree86/Makefile.am
  hw/xfree86/common/xf86.h
  hw/xfree86/common/xf86DoScanPci.c
  hw/xfree86/os-support/bus/linuxPci.c
hw/xfree86/scanpci/extrapci.ids
hw/xfree86/scanpci/pci.ids
hw/xfree86/scanpci/pciid2c.pl
hw/xfree86/scanpci/xf86PciStdIds.h

commit 0cd6a3d8efb5c1ce4f85a9b95bdf4f66c7245d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 06:56:07 2006 +0300

xfree86/input: add proximity support, free valuators
Re-add support for proximity events, and remember to both va_end our
varargs, and free our valuators.

commit cccf7ae0ff24d0c84b5144e457f3f86bbbc36e12
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 06:55:21 2006 +0300

GetProximityEvents: add (untested) function
Add untested first guess at what GetProximityEvents should look like.

commit 35fa4ac12b3da33f81e2a12bc9661ed075f323ed
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 06:23:45 2006 +0300

GetPointerEvents: break into separate functions
Break out clipAxis, clipValuators, and getValuatorEvents, into
separate functions, to be used by the proximity event code.

commit a7c2d9a15dc2ff23b69c3b0738ad993521b9c7
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 06:08:27 2006 +0300

kdrive: numerous warning fixes

commit c8f76fb3a473a022d497bd0aced684f58fc6efbe
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 05:12:15 2006 +0300

xfree86/input: disallow pointer device changes, fix drag event calculation
Don't allow users to change the core pointer.
Fix xf86SendDragEvents to check the device button state, not the core
pointer's.
Remove unused xf86CheckButton.

commit c5b5b046e86b159a9d32451308f38246cc4587f7
Merge: fab1d37ecb 948a97b97e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 02:58:30 2006 +0300
Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit fab1d37ecb36e9777ad1485b0cc62b55042d5014
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:57:00 2006 +0300

  xfree86/options: don't blindly dereference NULL pointers
  Sure, conf_i dev should be initialised, but if it's not, try to make the
  best of a bad situation.

commit 523fe64ba16cf7a40f4095432d81300726d83e8d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:56:28 2006 +0300

  kdrive/lots of DDXes: make stubs use KdOsAddInputDrivers()
  In theory, removing LinuxPciScan should make these drivers OS-independent.

commit 57f98e2b72d5c7feae93a9f6da86228ff8b4856bf3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:55:41 2006 +0300

  kdrive/tslib: port to new absolute API, remove debugging
  Port to new absolute device (not touchscreen) API, and remove some
  leftover debugging.

commit a6dc629052f0ad509cfa30e98217043a63c09552
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:54:59 2006 +0300

  kdrive/os: add KdOsAddInputDrivers
  Add KdOsAddInputDrivers, which adds all relevant input drivers.
  Could possibly be refactored to KdAddInputDrivers, which called through
  OsFuncs to a new function, if it existed.

commit ac240b00ff6fc354c1aa641406ae8b49244c0b8b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:54:07 2006 +0300

  kdrive/input: use Absolute instead of Touchscreen
  Adjust to suit Zepheniah's new absolute device API.

commit b1ba4b3e8ad427af1fa8618b0bd839741ec2ce3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:53:15 2006 +0300

  kdrive/neomagic: include vesa.h, use DebugF
commit 29f28dd1a8a7ed07e945a67946e3510f4b32d12a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:52:52 2006 +0300

configure.ac: add XSERVER_LIBS to XNEST_LIBS

commit 2f33f4065d89ae2b6fd6a43c7105d72f89920cae
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:52:35 2006 +0300

Xnest: port to new input API
Port Xnest to Get{Pointer,Keyboard}Events, plus the new mieq API.

commit 08928ab0500d46b0ca0a1d1244dee2ed80e6a0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:51:52 2006 +0300

Xnest: disable XKB, reshuffle code
Disable XKB, as we can't yet use it; move Composite disabling to
ddxInitGlobals, along with XKB.

commit cd3b16a57eafaf89108054e18a94e91e2dd74fafa
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:51:13 2006 +0300

Xvfb: port to new mieq API

commit bf4df9b73f0c1a84093aa9a2e2c56fb341c60
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:50:53 2006 +0300

include: move POINTER_* flags from inputstr.h to input.h
Given they're just numeric constants, they should be included in
input.h, not inputstr.h.

commit 4dd91c45abea9fb561a5acb10290e29487df6722
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:50:03 2006 +0300

miinitext: Xi and XKB are not hardware-only extensions
Xi is now a required extension, and XKB can be used without hardware,
so include them both when NO_HW_ONLY_EXTS is defined.

commit 562096a012f4bb8f44d5ec6320a32f4010c189e4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 23 02:49:22 2006 +0300
XkbCopyKeymap: increment shapes and outlines when copying
Remember to increment the source and destination shapes when copying,
instead of just endlessly copying the first one.

commit eec182259112fba240751f974f7e5ca09fcee8b9d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 02:48:30 2006 +0300
dix/getevents: move SyntheticMotion to getevents.c
Mostly, this is just a cheesy hack to ensure that getevents.o gets
included when linking. Sigh.

commit bc701a14292da5abfbb601e3a040651a74f46df8f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 23 00:08:32 2006 +0300
dix/getevents: cosmetic cleanups, remove keymap copy from GKVE
Remove keymap copy from GetKeyboardValuatorEvents, as
SwitchCoreKeyboard now takes care of this for us.
Remove unused variable and function prototype.
Update comments to be as informative as possible.

commit b03e2f7029506640a8fe5cb88818b329c23503ff
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 19:56:49 2006 +0300
xi: fix NIDR return yet again
For a one-line function, it was pretty broken.

commit 90de7ce25a84cf6c6790f9af2bc2399d25b9b9c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 19:54:36 2006 +0300
xi: fix return type for NIDR

commit f46dc272913ff6b5b234a7ec6f4ba5cae44a831
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 19:51:35 2006 +0300
xi: add NewInputDeviceRequest to stubs

commit 31a6307b7ba5ad96deb81011ddfda026f537d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 19:49:31 2006 +0300
xi: change DEVICE_TOUCHSCREEN to ABS_{AREA_CALIB} for stubs

commit eae6594d03a606ddf1f433b5897b5938aa940c1e
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 16:39:44 2006 +0300

Xi: swap control in DevicePresenceNotify

commit be21630164e865eca72ff2a686a38ae4e30fd79c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 16:33:02 2006 +0300

dix, Xi: make use of deviceid in DevicePresenceNotify
Use the deviceid and control fields in DevicePresenceNotify since
the last push to inputproto to send a DPN whenever a control changes
on a device.

commit f08b6b2367705cb5b60e996e6328197430bf1919
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Oct 22 12:30:02 2006 +0300

kdrive: change DEVICE_TOUCHSCREEN to DEVICE_ABS_{CALIB,AREA}

commit 77e724585f6c53feb55475b94d8fc6acf1159b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Oct 20 00:44:46 2006 +0300

minor formatting fixes

commit 948a97b97e93cee05a23f1f1ae699c5e181bc8ce
Author: Drew Parsons <dparsons@debian.org>
Date: Sat Oct 21 23:09:22 2006 +1000

Minor typo fix to xorg.conf man page.

commit 04554a3adcdcc32de5fd0b3122da0bcd4c24a9
Author: Drew Parsons <dparsons@debian.org>
Date: Sat Oct 21 22:06:43 2006 +1000

Minor typos in Xserver man page.

commit e26a494f417c3c700636ee68892c3015b2e0f27a
Merge: 736b0d5078 aeba855b07
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date: Sat Oct 21 04:26:14 2006 -0400

Merge branch 'input-hotplug' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 736b0d5078597aabbda80444deef852879260af90
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date: Sat Oct 21 04:24:49 2006 -0400
DEVICE_TOUCHSCREEN becomes DEVICE_ABS_CALIB.

Update the DEVICE_ABS_CALIB stuff to include the new elements.

New DEVICE_ABS_AREA support.

dev->touchscreen becomes dev->absolute, with _CALIB and _AREA stuff in it.

Update xfree86 to compile with this, kdrive needs an update too.

commit edd5f1745461f995670969cb736d1569ca94643f
Author: Carl Switzky <Carl.Switzky@Sun.COM>
Date:   Thu Oct 19 17:30:54 2006 -0700

Add ast driver/device info to Xorg server & config utilities

commit aeba855b07832354f59678e20cc29a085e42bd99
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 20 00:30:28 2006 +0300

move keymap copy to event processing, from enqueuing

Move the keymap copying to event processing time (in
ProcessInputEvents), instead of being at event enqueuing time.
Break SetCore{Pointer,Keyboard} out into separate functions.
Change mieqEnqueue to take a device pointer, that asks for the
_original_ device associated with this event.

commit a8d3dad9d9f2b9053843e655abe463a68ba8dc8b7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 20 00:28:40 2006 +0300

xi: add DEVICE_ENABLE control

Add DEVICE_ENABLE control, which allows runtime enabling and disabling
of specific devices.

commit b0780312d80ea4af0136227f90fdd7ada3db71c5
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Oct 19 13:51:53 2006 -0700

Pre-release message should tell users to check git, not CVS, for updates

commit c5dc997bae57f690c7b9a08025efadbbba761296ee4bc4
Author: Joshua Baergen <joshua.baergen@gentoo.org>
Date:   Thu Oct 19 11:14:26 2006 -0700
Create xorg.conf.example (Gentoo bug #138623).

commit d029c8f1b72019446a5c873f55fa43504b03dfb
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Oct 18 11:06 2006 -0700

Use getisax() instead of asm code to determine available x86 ISA extensions on Solaris

commit a8a0abdbea0573c861a5af9d58f3e66790455ca
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Oct 18 10:59:07 2006 +0300

config/dbus: always unfref the connection, not close

commit 80642f37d40216035786eaf490952d16f6b5f597
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Tue Oct 17 14:53:28 2006 -0400

Stop building xorgcfg by default.

commit 5e17cde27b064174584d478130b0f95dcef78deb
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Oct 17 17:06:44 2006 +0200

StorePixels() macro could create invalid *x++=*x... code - fixed.

commit 205c6788d7a34704e36b23f1a93d89e9b986266a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 16 23:48:09 2006 +0300

config/dbus: properly initialise vtable

Properly initialise the vtable, so we don't end up with an unregister_function
pointing to god knows where.

commit 85ac2f16abe9f6e88b4e71609da334d336a9a600
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Oct 16 12:39:05 2006 +0100

Small modification to blocking signals when switching modes.

commit 0901eec87ee9f3a2a067695b1bd569ff42149879
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Oct 15 16:57:09 2006 +0200

Fix __glXDRIBindTexImage() for 32 bpp on big endian platforms.

commit a232693c8e2a206aad47c07b133c071938204e0b
Add per-drawable Xv colour key helper function.

This allows overlay Xv adaptors to work slightly better with compositing managers.

Bump the video driver ABI minor so drivers only need to check for this at build time.

commit 5563861ab7e56e891cfce6b34af43fe53ccee3
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Oct 13 19:05:28 2006 -0700

    Make sure xorgcfg files are included even when dist made with --disable-xorgcfg

commit e1dd1904c6c7ce33f347d822272831d54a6497c8
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Thu Oct 19 13:51:53 2006 -0700

    Pre-release message should tell users to check git, not CVS, for updates

commit 62d24097932708fbbb62a23614fe63b4b7acf3bd
Author: Joshua Baergen <joshuabaergen@gentoo.org>
Date:   Thu Oct 19 11:14:26 2006 -0700

    Create xorg.conf.example (Gentoo bug #138623).

commit 357b37b3826fa6e9878e0bd895164259c2ed3c0d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Oct 18 18:11:06 2006 -0700

    Use getisax() instead of asm code to determine available x86 ISA extensions on Solaris

commit 1b1698af41b9038d9f9dbf521737d0baab5a2237
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Wed Oct 18 04:57:22 2006 -0400

    Pass SetDeviceValuators down to the driver.
    NOTE: This changes the LocalDeviceRec struct, which breaks input drivers.

commit 5eca750fe2f3f243fb352271ad8da196af0cb16a
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Tue Oct 17 14:53:28 2006 -0400

    Stop building xorgcfg by default.
commit df979b75c8cd8a7e0566aea58031bb9b8f5cd3d3
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Oct 17 17:06:44 2006 +0200

    StorePixels() macro could create invalid *x++=*... code - fixed.

commit d430e76a161c963169067875c3654f5fd8f42b19
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Oct 16 12:39:05 2006 +0100

    Small modification to blocking signals when switching modes.

commit 6dd4fc4652f942724039dc2317c560ea7276ab59
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 16 00:22:00 2006 +0300

    xkb: fix virtual modmap size computation
    Compute virtual modmap size bounded by nVModMapKeys-1, rather than
    nVModMapKeys.

    This is sort of a best guess. The other way seems a little more
    logical, but also leads to segfaults pretty quickly if you hammer
    GetMap hard enough. So let's try this one.

commit a484ba15277e66e7ef9b21b238dcbf760695bc63
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 15 23:47:34 2006 +0300

    XkbCopyKeymap: copy server vmods, and name atoms
    Copy server->vmods, and all the atoms in names.

commit ad355fecee3965be576596aedd5da54d776edf1d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 15 21:59:06 2006 +0300

    xkb: make sure we set the map on the right device, not necessarily core
    Forgot that all XKB requests took a device spec: the comparison of
    'if working on the core keyboard, does this device send core events; or,
    is this device the core keyboard?' was broken. Instead, what we want is
    'if working on the core keyboard, does this device send core events; or,
    is this device the one we're working on?'.

commit 4ae7745a0dce86de6346409a69c1e396e0b954514
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 15 21:48:01 2006 +0300

    xfree86 input: always open devices on NewInputDeviceRequest
config: unref connection, don't close it
Just unref the connection instead of explicitly closing it (thanks, Rob McQueen).
Add a commented-out unregister_object_path call: unfortunately, when we call it, libdbus segfaults. But if we don't unregister the path, we can't register it again. So regenerations are broken either way, but a little less violently like this.

commit acd8419948003032056a56d46adbef7c35e7739c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 15 20:42:31 2006 +0300

dix/devices: add devices in proper forward order
Add devices in forward order with the normal linked list convention. Previously, AddInputDevice would add all the devices in reverse order to off_devices, before they were added again in reverse order to devices with EnableDevice.
This just makes both work in forward order, which provides the ordering as you'd expect when hotplugging devices (i.e. adds them to the head, not the tail).

commit fc9b5f84b244ea08480b73bd15ae919b875800fb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 15 20:01:01 2006 +0300

cfg: add replies and dbus api documentation
Add replies, which use standard X error values, to the two currently-supported input configuration requests.
Document the D-BUS API we use.
Make sure we free everything when we encounter an error.
Add a _source option to all incoming requests, noting that it came from a client.
Reject all requests to add a device where an option name contains an underscore.

commit 7e4717683d6c08d1e490a60b7493a94bbc57bf8d
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Sun Oct 15 18:12:28 2006 +0200

exaDrawableDirty: Fix initialization of BoxRec.
This will hopefully fix the partial window corruption experienced by some people.
Fix __glXDRIBindTexImage() for 32 bpp on big endian platforms.

commits f9bfee50981006a2c58d3f73e2b0d123bb2a41b7
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sun Oct 15 16:48:59 2006 +0200

Add per-drawable Xv colour key helper function.

This allows overlay Xv adaptors to work slightly better with compositing managers.

Bump the video driver ABI minor so drivers only need to check for this at build time.

commits a05044cfc14a8bc6ce31236deccada60bec09924
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 14 22:14:56 2006 +0300

xkb: better support of XkbDfltXIIId
XKB.h specifies that XkbDfltXIIId should be used where the client doesn't care about the device identifier. We take this to mean core devices, where practical.

commits 4d8030076ed1a7680bdfcb7b89af1045bdc40304
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 14 22:14:07 2006 +0300

dix: move GetKeyboardEvents/GetPointerEvents to a new file, export symbols
Move GKE and GPE to a separate file, to help stem the events.c explosion.
Mark GKE/GKVE/GPE as _X_EXPORT.

commits 6afc7c284690b1e2bb7544b5bc4f31a3f6a05519
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 14 15:54:35 2006 +0300

dix/devices: remove XACE merge debris

commit 93302452e737bd91a893eb495592538d40d921e5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Oct 14 15:54:12 2006 +0300

XkbCopyKeymap: add geometry support
Add a first cut at geometry support, which seems to generally work.
commit b9108a13fc126d97c0393f911a1d9292563444ce
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Oct 13 19:05:28 2006 -0700

Make sure xorgcfg files are included even when dist made with --disable-xorgcfg

commit 054f8cd2675a80b14bc1ce266377fcee2335cee
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Fri Oct 13 17:34:53 2006 -0700

Limit pointer to valid crtc areas. Add event swapping. Fix change tracking.
Add function to keep pointer within valid crtc areas.
Finish event delivery and swapping code.
Separate configuration from layout changes to send correct events.

commit 335b503c5e7041bb0c44611e496d1c46f554e630
Merge: bd3d93be82 cf948b7b04
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 13 18:10:45 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit cf948b7b04dfebed61a294889027b9a54f6b9b478e
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Oct 13 14:48:10 2006 +0100

Block IO on switchmode just as we do for VT switching
to avoid cursor movements signalling io.

commit 4b53a5e4b147ab748b28dfcc1d330b7148d8efa6
Merge: 23f6f08b7b 042d4a407d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Oct 11 20:50:31 2006 -0400

Merge branch 'master' into my-XACE-SELINUX

commit a6df780e4d3f90cc699b0b864bade03d6f15afdd7
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Oct 11 15:41:22 2006 -0700

Fix bug #8608.

Regenerate files based on recent commits to Mesa (that fix Mesa bug
gthat return pixel data.

commit 042d4a407d0eca9131d0420b0b9189559aacc326d
Author: Aaron Plattner <aplattner@nvidia.com>
Bug #8459: Don't forget to include AM_CFLAGS in libfb_la_CFLAGS on non-MMX platforms.

Reported by Edgar Toernig.

commit 1b94c117e0f294ef2f89bf24d45ba7a8e45efe35
Author: Matthias Hopf <mhopf@suse.de>
Date:   Tue Oct 10 19:37:22 2006 +0200

Fixing probably long-standing bug in domain support.

commit 6776c0f0e9677a65ec36cee9618ff701b99596c
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Oct 9 17:24:37 2006 -0700

Use bash on Solaris to run symlink-mesa.sh

  symlink-mesa.sh won't run with Solaris Bourne Shell (/bin/sh) so explicitly
  run it with /usr/bin/bash instead
  (cherry picked from cde68728860179dc84e615cbb378ce992513fd62 commit)

commit bd3d93be82d91e4cf35ae317dfd658d1706257ea
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 23:21:12 2006 +0300

  xkb: remove random broken vendor workarounds

commit 33406da096b4ae21134484113b280e07d0c8f0d9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 23:20:56 2006 +0300

  GetKeyboardEvents: add first_valuator argument to GKVE

commit ef7e05e9de57b9e9c27ed3307eede6d8fc6c1af3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 21:42:15 2006 +0300

  xf86/xinput: pass first_valuator params, don't clip to first screen bound
  Pass first_valuator to GetPointerEvents/GetKeyboardValuatorEvents.
  Don't clip axis bounds to that of screen 0 when initialising axes.

commit 1546a398144619a14ff06aaf84ebc1bf293eac66
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 21:40:53 2006 +0300

  GetKeyboardValuatorEvents: also take first_valuator param
  Take a first_valuator parameter, which specifies the first valuator.
commit b05a11478edc7e6d1e38ef7f8d6788c7bd917493
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 21:23:12 2006 +0300

doc/extensions: rename to c-extensions
The old name could be somewhat confusing.

commit 41bb9fcede47f6366cc3f7d45790f7883f74289b5a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 20:34:32 2006 +0300

mipointer: take device arguments, split miPointerAbsoluteCursor
Update mipointer API to take a device argument to (almost) all functions,
and split miPointerAbsoluteCursor into a couple of separate functions.
Remove miPointerAbsoluteCursor call from mieq, as we now deal with it in
GetPointerEvents.
Make miPointerSetPosition (successor of miPointerAbsoluteCursor) take
pointers to x and y, so it can return the clipped values.
Modify callers of miPointer*() functions to generally use the new
functions.
This should fix things with multi-head setups.

commit be8dfaf1d58b27bbfd953fe1216311523353db1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 20:32:16 2006 +0300

warning cleanups
Fix still more warnings.

commit ca474e0920d29ebe7ccf346cddc526732ad01ba
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 20:30:49 2006 +0300

Xi: move SendEventToAllWindows and FindInterestedChildren to exevents
Move SendEventToAllWindows and FindInterestedChildren from chgptr to exevents,
so the DIX can more easily use it.
Clean up two warnings (type mismatch, unused variable) in exevents.c.

commit c2fab469b66f2796c541e911202faa411d116b04
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 18:26:26 2006 +0300

dix/devices: clean up debugging

commit 4493acb88c59721f7807093a3ed3c39396c2076d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:51:03 2006 +0300
xkb: add FIXMEs to procedures which need to act on all core devices
Add FIXME comments above request handlers which need to act on all core-sending devices if called on the core keyboard.

commit ef68273f5bdb27a492ec0b69548ec4fbede46c08
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:44:37 2006 +0300

mi/mipointer: deprecate functions which don't take a device
Deprecate all mi pointer functions which don't take a device argument, and replace them with versions which do, in preparation for MPX.

commit 6eab4c55890660089067da0e944256b1ed3a8c67
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:24:33 2006 +0300

doc/extensions: document C extension use in the X server

commit 80cdd26581508dd17c5d0a5739cd540113996bbb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:23:54 2006 +0300

mi/pointer: mark public pointer functions as deprecated
Deprecate miPointer functions which don't take a device pointer. Pointer movement should be handled through GetPointerEvents, and functions which take a device as an argument (e.g. miPointerPosition) will be added.

commit 97030b6c6b0fb6ff629ae31e483704d0a2207a53
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:07:05 2006 +0300

config: fix compilation
Accidentally built with --disable-config, didn't notice that the previous commit to clean up the debugging broke things horribly.

commit 14b157bdb1f2cd5feba03ba0815d7c5b2dd6633f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 17:04:12 2006 +0300

include: actually declare DebugF
DebugF is ErrorF when DEBUG is defined, else a no-op.

commit 9e37de193f5d7412fdd8de76d5eed0158c0a3609
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 16:32:15 2006 +0300

configure.ac: reactivate warnings when building with gcc
We were inadvertently stomping XSERVER_CFLAGS after adding the warnings, so move them after we do that.

commit b559cbb1601f93cb03ea3dfcb2c5ca94ee6b73bb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 16:23:14 2006 +0300

dix/CoreProcessKeyboardEvent: remove debugging for every key event
   Also change #ifdef DEBUG/ErrorF/#endif to DebugF in FixKeyState.

commit 3ae4d250185e71a0a218c062426f92b9b1adb005
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 16:20:42 2006 +0300

xfree86 Xinput: remove still more excessive debugging
   There isn't any more debugging left for input events in the XFree86 DDX.

commit 58314756aeechb8fb04706c3e04d999e9ac531a02
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 16:18:05 2006 +0300

   GetPointerEvents: add first_valuator parameter
   Add a first_valuator parameter. Looks correct by inspection, but untested
   with first_valuator != 0 as yet.

commit 84f5d2291c1fe92fd8358e999e909bf3aab8ec58
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 15:30:24 2006 +0300

   GetPointerEvents: fix relatively harmless typo
   Change !(cp->button || !cp->valuator) to (!cp->button || !cp->valuator).

commit cfc3e9de2de83741bd38bf3df13f096ecb8adc0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 15:27:52 2006 +0300

   config: remove excessive debugging

commit 8d8e7f8bae4099f9e90ef9aac687607dae1d32bf
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Oct 8 15:26:54 2006 +0300

   kdrive/input: remove excessive debugging in NIDR

commit 22a836f0d39a8ef413826dec2e94be5f96990e2d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Oct 7 14:16:51 2006 +0300
xfree86/loader: bump input major ABI version
Bump input major ABI version to 1.0, since we removed the OS keyboard layer.

commit 4c342246300e06bdf5c9e62cc1d2f6aa57a524db
Merge: 8382234a7f 49a70c8570
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Fri Oct 6 18:01:13 2006 -0700

Merge branch 'XACE-modular'

commit 3686cd0f0bf56d883f2f3b3fda11ffba1058b74e4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 6 17:20:42 2006 +0300

  xkb: make XkbSetControls work on all core-sending devices

commit 7b4dc171b036107cfba87a1a16bf692b982005a5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 6 16:26:54 2006 +0300

  xkb: remove unused ifndef

commit ab56f0c5b516269bb99ae8b5f479e49e61a3af76
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 6 16:12:36 2006 +0300

  xkb: simplify core device loop in GetKeyboardByName

commit 4b6e2f12f7296e17b2850f36b3adcf8156125cbe
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 6 16:08:21 2006 +0300

  xkb: make LatchLockGroup work on all core-sending devices
Apply the settings to all devices sending core events, if we're working on the
core keyboard.

commit ebf9b3bbb04ac878cdf8a84e47a96755f8fe854
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Oct 6 14:17:59 2006 +0300

  xkb: update all core-sending keyboards on GetKeyboardByName
Update the keymaps of all keyboards which send core events on
GetKeyboardByName; still a few other procedures which need this treatment.

commit 1178796a4dff5ebf0bd9fb3cacb35be9709b41e5
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Oct 5 22:31:35 2006 -0700
Add preferred modes for each output. Round vrefresh. Deliver crtc events.

commit 23f6f08b7b5c9a4297fd223d232a7e9f45376550
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Thu Oct 5 16:07:26 2006 -0400

Improve error handling, messages during initialization.

commit de63a469dcd0a8ae98554bca540ac0106cccf2a5
Merge: 9c7440bd15 8382234a7f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Oct 5 20:29:19 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit b4659fa9b455b44ac8e691cc7a8fc00a967c80b
Merge: c4f30c6353 8382234a7f
Author: Keith Packard <keithp@neko.keithp.com>
Date: Wed Oct 4 14:46:04 2006 -0700

Merge branch 'master' into randr-1.2

commit df351f1efbce95f94c719cf993c480155c511e9
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Wed Oct 4 16:23:35 2006 -0400

Experimental window property holding security context.

commit c4f30c63538e1451f15ed1991439869127d9b148
Author: Keith Packard <keithp@guitar.keithp.com>
Date: Tue Oct 3 21:06:11 2006 -0700

Add mode origins and output options. Fix memmoves in resource free funcs.

Output options and mode origins both affected driver ABI. memmove mistakes were causing 'Freeing resource which isn't there' messages.

Prune unused non-user defined modes from available list now.

commit 8382234a7f318057de66490299d63807cefb5201
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Oct 3 17:49:48 2006 -0700

Update pci.ids to Tue 2006-10-03 daily snapshot

commit 96edf7b853c1045d12d957a2957a11879100a2de
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Oct 3 17:48:50 2006 -0700

Don't insert RCS tag into generated pci id header files

commit 75e0cc41b201b9ceb2615e7cec0dd5b4c136b343
Merge: 6926776f0e 20c0ceedfb
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Tue Oct 3 13:58:03 2006 -0400

Merge branch 'my-XACE-modular' into my-XACE-SELINUX

commit df800d87e04ce984a8a9ab4252ac6478ab1e4426
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Oct 2 11:28:47 2006 -0700

Add (void) casts to clear compiler errors about ?: results having type mismatch

commit 9c7440bd5a4eecd113e102004c804a2ba354c422
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 2 20:58:33 2006 +0300

xkb: remove the world's most staggeringly broken vendor workaround
Certain versions of LynxOS needed to sleep up to five seconds for closing a
pipe to actually, y'know, be useful.

commit d7c89c7c1c8c1e110345d9d8d300adb5fe5804a
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 2 02:15:36 2006 +0300

symlink-mesa.sh: expand *.{c,h}

commit d6ea96b13e2ea01c51998c41ae2a3677bde6f61c
Author: Ivan Pascal <pascal@info.tsu.ru>
Date: Mon Oct 2 02:17:14 2006 +0300

xkb: fix wrapping when switching between groups
Use XkbCharToInt as that's what we're doing.

commit 3c98cebb6e954855528794f46830f456cbdec1
Merge: fa1ac94178 2cf1098436
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Oct 2 02:18:17 2006 +0300

Merge branch 'input-hotplug' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit fa1ac94178cf976d4c8dae9a4dc8703303a62d4b
Author: Ivan Pascal <pascal@info.tsu.ru>
Date: Mon Oct 2 02:17:14 2006 +0300
xkb: fix wrapping when switching between groups
Use XkbCharToInt as that's what we're doing.

commit c31672e6aabc0168262bd7824a8082edf8411fc3c0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Oct 2 02:15:36 2006 +0300

    symlink-mesa.sh: expand *.c,h

commit 2cf1098436d6b4382d9ed3f6b88214d37bddd8dab
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Sep 30 17:05:46 2006 +0300

    dix/events, mi/eq: remove utterly ridiculous debugging
    Remove debugging which can cause long-lived Xorg logs to grow well above 1GB
    if built with --enable-debug.

commit 20c0ceedfbc9ae5c70703900b52973917ac4c0
Merge: 49a70c8570 84eb2c0a06
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Sep 29 15:37:00 2006 -0400

    Merge branch 'master' into my-XACE-modular

commit 518db35ca3f569e7cb95dbddeddb93f3691de498
Merge: 5d99e05f05 84eb2c0a06
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 29 00:35:21 2006 +0300

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 5d99e05f05a42a82a9f02844df9bfebaa673759d
Merge: ad631afcf3 5893375786
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 29 00:35:07 2006 +0300

    Merge branch 'input-hotplug' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit ad631afcf3fbc74024cddaa0d5d38adcd047a2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Sep 29 00:34:23 2006 +0300

    make core keyboard/pointer map functions act on all core-sending devices
    Make Set[Keyboard,Modifier,Pointer]Mapping act on all devices which send core
    events.
    Change LegalModifier to accept a DeviceIntPtr.
commit 84eb2c0a06de60e88e14bb03fabe661d7cd8f1d3
Author: Brian <brian@yutani.localnet.net>
Date:   Thu Sep 28 15:09:40 2006 -0600

Replace hard-coded filenames with loops (all .c and .h files).
Should fix problems with Mesa adding/removing source files, for the most part.
Patch by Dan Nicholson.

commit 4bc5dc2854e33bf343cdea44a3c3b4c41f6f4145
Merge: cf6e9687ff f9542e7495
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Sep 28 13:27:13 2006 -0700

Merge branch 'wfb'

commit f9542e749544c7a3084fd72ecc6642ca326217c7
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Sep 28 13:26:54 2006 -0700

Restore the global xx* symbols and add them to wfbrename.h.

I don't think they're ever used, but it's best to just leave them alone for ABI
compatibility.

commit cf6e9687ffcc52af0d64e9098186570719a575a2
Author: Jeff Smith <whydoubt@yahoo.com>
Date:   Thu Sep 28 15:34:17 2006 -0400

Bug #8449: Yet another Mesa symlink script resync.

commit a5d639cd87f309b3d765352d2725394f33b2b7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Sep 27 16:15:27 2006 +0300

remove merge detritus

commit 2206a92a97901977910a6e39b4174ca805f9f4a7
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Aug 30 19:15:55 2006 +0200

Push information about cliprects of DRI windows to the DRM.

commit 54d371e7a4ebab79a0f616669e2f601d8370cef3
Author: Michel Dänzer <michel@tungstengraphics.com>
Date:   Wed Aug 30 19:12:17 2006 +0200

Add wrapper for new ioctl to update drawable information in the DRM.
commit ad321fad4b9ab3a2c70e8f37ca6c8faa5ccc9c
Merge: 5e9d33fe87 f7c1d94241
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Sep 24 17:56:43 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit f7c1d942416db8d0d4c5a21f5e1ccac926b69
Author: Brian <brian@yutani.localnet.net>
Date: Sat Sep 23 10:38:10 2006 -0600

Check for visual==NULL in dmxBECreateColormap() before calling XCreateColormap()

commit 945b7c63946f5257d0f9b0dce18f4882fb2c6f8
Author: Brian <brian@yutani.localnet.net>
Date: Sat Sep 23 10:35:25 2006 -0600

The fbcmap.c file used by Xdmx _must_ be compiled with XFree86Server defined.
Otherwise, Xdmx generates a slew of protocol errors.

commit 891e9c3e6cb0869a57395b96c8e18ff522c2bb4
Author: Brian <brian@yutani.localnet.net>
Date: Sat Sep 23 10:28:24 2006 -0600

Replace broken DMXDBG3() with DMXDBG2()

commit a10039a100dfe5f87e29e9cc4fa656176e0890f9
Author: David Nusinow <dnusinow@debian.org>
Date: Thu Sep 21 23:58:32 2006 -0400

Allow the xfree86 ddx utils to be optionally built. Patch by Eugene Konev.

commit ce78b0cd2b1c35d60eb5683a1d00222aa4797c79
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 21 20:42:47 2006 -0400

Close with Pclose() that which we open with Popen().

commit c1655f0fd457f9bdf0857c5e0904639925bb01f1
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Thu Sep 21 14:45:17 2006 -0700

Bug 8386: Grow parser buffers to fit an entire line if it's longer than CONFIG_BUF_LEN.

commit b36de89257263fa502147df37e8331184c323e14
Author: Keith Packard <keithp@guitar.keithp.com>
Date: Thu Sep 21 09:52:04 2006 -0700
When no mode is specified, don't validate mode-specific parameters.

commit 8b4ed47c5d39f219866e3c72fa973c6fc4c70f18  
Author: Drew Parsons <dparsons@debian.org>  
Date: Thu Sep 21 22:19:44 2006 +1000

* Install Xprint's Xsession script to $(sysconfdir)/X11/Xsession.d  
* Removing outdated references to CDE and dt, rename script to 92xprint-xpserverlist.

commit 219546fd76750f358ffbf6738f17b9237c58c15a6  
Author: Keith Packard <keithp@guitar.keithp.com>  
Date: Wed Sep 20 22:43:05 2006 -0700

Steal Xinerama code from SiS driver. Add missing files.

Provide a Xinerama implementation when DIX version isn't enabled. This version exposes each crtc as a separate 'screen' and reports the size of that patch. The extension also sends ConfigureNotify events to the root window whenever crtcs change so that applications will re-fetch xinerama information. This actually works for metacity.

commit bde0a4c12cb393a6d7f1552b067624da1b0502ae  
Author: Keith Packard <keithp@guitar.keithp.com>  
Date: Wed Sep 20 19:42:34 2006 -0700

    RRSetCrtcConfig status fix. RRGetScreenResources timestamp fix.

    RRSetCrtcConfig was returning the wrong status values.    
    RRGetScreenResources was always returning currentTime.

commit d812f486a01a6276aed7b4ebd3cd8eb8ddfe10d3  
Author: Donnie Berkholz <donnie@supernova.(none)>  
Date: Wed Sep 20 15:39:39 2006 -0700

    Really fix sparc on 64-bit kernel/32-bit userland.

    Commit b3a3020fd018df8bc5a8193d36e1a1c7ae8af8ba used a sparc64 ifdef instead of  
    sparc. But for 32-bit userland, __sparc64__ is not defined so the wrong code is used.

commit 09f7499851bd2f2eba1e30460c61c7a82ed9e853  
Author: Keith Packard <keithp@guitar.keithp.com>  
Date: Wed Sep 20 13:15:20 2006 -0700

    typo
When setting output state, leave output unchanged when setting to current.

Hide or rename more global symbols to avoid clashes with libfb.

Rename composeFunctions, xxSetup, and xxPrintVisuals. Hide the other xx* symbols by making them static.

Avoid calling xalloc(0). Change rrScreenSizeSet to rrScreenSetSize.

Split out 1.0-style info and new property routines to their own files.

RRGetScreenResources and RRGetOutputInfo are working now.

RandR working with old clients and old API.

Remove smashing of CFLAGS from server build.
CFLAGS is a user variable, extracted from the environment at configure time and settable by the user at build time. We must not override this variable.

commit bf07893947cfca945598e194ed416fda6162b11c
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sun Sep 17 23:03:23 2006 -0700

Split out RandR dispatch code from randr.c to rr*dispatch.c.

More disassembly to ease ongoing development.

commit 3e745745fece1f1cb59e53bde52ded311b51e1dac
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Sep 16 23:21:37 2006 -0700

Split RandR implementation into separate files.

RandR is getting too big to live in one file; split into one file per object type (crtc, mode, screen), leaving the rest of the code in randr.c.

Code is slowly approaching the point where it will drop-in as a replacement for the old 1.0 implementation.

commit d17fb9672e238a089e463ac74cc4cd3325b67e1f
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Sat Sep 16 21:44:42 2006 -0700

Start moving to new randr 1.2 definition

commit 8dec74321d916f204f8182f1b93a65defbe50e78
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Jul 17 14:43:07 2006 -0400

Successful legacy RandR API/Protocol emulation for query.

These changes clean up minor errors to make it possible to list the available modes for a monitor using legacy APIs in both the X server DDX and RandR protocol. Setting modes is untested, so it probably doesn't work.

commit cab3a0145f2483f4e3b5db5f5dd2076db9757fe5
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Mon Jul 17 01:21:11 2006 -0400

RandR: New data structure, old API. At least it compiles now

commit d95c758630f4aacecc339a7ec80d2c4a9d7de1e4a
Author: Keith Packard <keithp@neko.keithp.com>
Date: Sat Jul 1 19:46:38 2006 -0700

Preliminary RandR 1.2 work

commit f057de4f73fa593fa3fc5f05f65b89e76273b158
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Sat Sep 16 03:49:11 2006 -0400

Don't install librac.a.

Thanks, automake.

commit 6926776f0ecd1e8e81c5c40ccd3a97227bc44dcb
Merge: 6950267dd6 49a70c8570
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 15 15:28:13 2006 -0400

Merge branch 'my-XACE-modular' into my-XACE-SELINUX

commit 49a70c8570b03aff8239324a2474918a6fbc52a0
Merge: d1110c5c83 05231e336d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 15 15:26:57 2006 -0400

Merge branch 'master' into my-XACE-modular

commit 46af6d1e953f1eeb6edbb3d29fb9700e42c2bb
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 14 19:28:44 2006 -0400

Always believe the monitor when it reports a reduced-blanking mode.

CVT reduced blanking modes are typically only seen on digital connections to
LCDs, but there are some monitors that report them as supported over the
VGA connector too, which is perfectly legitimate, electrically speaking.

commit 63acf18b7e4ce3a9f7deab3a9088a1c41cab0191
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 14 19:26:37 2006 -0400

In xf86MatchPciInstances, fail gracefully when there's no PCI device at all.

This allows the autoconfig logic to fall through sanely on non-PCI machines,
which importantly includes Xen virtual machines.
Prefer driver-provided modes when matching name strings to modelines.

Well, kinda. Strictly we prefer M_T_BUILTIN strongest since those are modes where the driver has said it absolutely can't do anything else (VBE). Then we look for user-defined modes, ie, modelines from the config file. Then we consider modes reported by the monitor via EDID. Finally if nothing has matched yet we consider the default mode pool.

Within each of the above-mentioned classes, modes with the M_T_PREFERRED bit take priority over other modes in the same class.

This logic ensures that the timings sent to the monitor exactly match the timings it reported as supported, which occasionally don't match the numbers you might get for that mode from CVT or GTF.

commit 81ef1b6d6063c20db4963abf7b7848e235aa4eb
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 19:18:58 2006 -0400

Mark EDID modes as driver modes. Infer virtual size from driver modes.

This allows the server to guess an appropriate initial virtual size and resolution. The heuristic is to select the largest driver-reported mode that matches the monitor's physical aspect ratio. We revalidate this estimate after mode validation, since we may have filtered away all modes that would fill that size.

Also, the EDID preferred timing is now marked as M_T_PREFERRED as well.

commit 43d9edd31e31b33b9da450d8ab05004881c8d5a
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 19:09:02 2006 -0400

Attempt to add the 'mouse' driver in more situations.

Always add a mouse driver instance configured to send core events, unless a core pointer already exists using either the mouse or void drivers. This handles the laptop case where the config file only specifies, say, synaptics, which causes the touchpad to work but not the pointing stick. We don't double-instantiate the mouse driver to avoid the mouse moving twice as fast, and we skip this logic when the user asked for a void core pointer since that probably means they want to run with no pointer at all.

commit 739224d05eb4f356c9cab9dcb8a44a8d78287765
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 19:03:32 2006 -0400
Load the default module set when no Module section is given in the config.

Also, synchronize that list with the list for the pseudoconfig file used when starting with no config file. These really need to be better unified.

commit beac2bf1e48e6b77dbf7d95f086abc5abcd90cf0
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 19:01:13 2006 -0400

Expand the default sync ranges to be large enough for 800x600@60.

commit 71a15a7d5721073eeceb3a275f353b3aa584c0d68
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 19:00:10 2006 -0400

Publish the raw EDID block as a property on the root window.

This was removed in the patch for bug #5386, but is still useful.

commit 7939c8dfb7c7bed4febdc12922fb2e17619ea36
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 18:57:57 2006 -0400

Bump the default pixel depth to 24, and default bpp to 32.

commit 72af975f9c8de0ff6796f1ce4b76df841d21e99
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 18:56:34 2006 -0400

Fix up EDID blocks where the max pixclock exceeds the preferred mode clock.

Base EDID only lets you specify the maximum dotclock in tens of MHz, which is too fuzzy for some monitors. 1600x1200@60 is just over 160MHz, but if the monitor really can't handle any mode at 170MHz, then 160 is more correct. Fix up the EDID block before the driver can see it in this case, so we don't spuriously reject modes.

commit d05e0a97bb704a4986cf638487205da759e4ce17
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 18:49:12 2006 -0400

Enable DPMS by default.

commit 334f7db9f653113d5d46236911d7de2ec4173f28
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Sep 14 18:46:10 2006 -0400

Allow hsync and vsync ranges to be overridden independently again.
Record all standard timings from EDID as modes, instead of just the first five.

Record the maximum dot clock of the monitor, and filter by it.

Don't translate monitor gamma to X gamma.

The X gamma is used to set the output ramp of the card. Setting a 2.2 output gamma going into a 2.2 monitor gives an effective gamma of 4.84, which is very much not what you want.

Bug #5386: Synthesize modelines from EDID data.

Use correct opcodes for GLX_EXT_texture_fromPixmap.

Regenerate from glX_API.xml 1.3 from Mesa. The glproto package and libGL (from Mesa) must also be updated.

Bug 7641: fix comment written to Xorg.conf (s/VertSync/VertRefresh/)

X.Org Bugzilla #7641 <https://bugs.freedesktop.org/show_bug.cgi?id=7641>
Patch #6349 <https://bugs.freedesktop.org/attachment.cgi?id=6349>

commit ced46e17777b635df9371c4cfaec3f8968b4d8cf
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 14 18:41:59 2006 -0400

commit d89fee68d0e49211871cd9eb3893ed55c1d478a6
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 14 18:41:15 2006 -0400

commit fa8ef7166839a7435e0017683f3e3c7f7904b285
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Sep 14 18:33:00 2006 -0400

commit 511c60bc7399b07c267d686a969880e5ee92408a
Author: Luc Verhaegen <libv@skynet.be>
Date: Thu Sep 14 18:30:36 2006 -0400

commit 05231e336db8f959c15dda518641976f061df1a61
Author: Ian Romanick <idr@us.ibm.com>
Date: Thu Sep 14 14:13:39 2006 -0700

commit 0a62840e2ce25e255e4e5aeb4e9c5b6899e2d
Author: Bill Nottingham <notting@redhat.com>
Date: Wed Sep 13 15:40:23 2006 -0700

commit 182e5e0f4ba4e98a34bc52bdf4032ba315fe80ad
Xprint: revert installation of /etc/X11/Xsession.d/cde_xsessiond_xprint.sh pending resolution of #8232.

commit 594d4019c613b0f4bf8f48cc074ecc3e8366f1d7
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Tue Sep 12 01:15:40 2006 +0200

transformIsIdentity() now doesn't accept a zero matrix as the identity.

Added a non-zero test for one of the diagonal values.

commit fc30370d14125f86ee1192890a184881fa139546
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date:   Mon Sep 11 19:43:09 2006 +0200

Bug #8226: Fixed SetPictureTransform()'s handling of the argument matrix.

It now recognizes scaled variants of the identity matrix, too.

commit 2b357e9a2f9038cf9cd07da908e3103a3d0965e9
Author: Donnie Berkholz <dberkholz@gentoo.org>
Date:   Sun Sep 10 22:17:20 2006 -0700

If we're installing libxf86config, install headers needed to build against it.

commit 58933757862c458e2da39bd464e50d9c0e41b313
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Sun Sep 10 15:50:51 2006 -0400

Warning fix, and a syntax fix in a #if 0 section of code.

commit 0a3740a0000191e3039fe183ae51b938d0548340
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Sun Sep 10 15:49:25 2006 -0400

Typo correction, 'i' is not a '1', so no longer crash on some Xi requests.

commit 8d709f0280b458515b32c2b87938749428e5c149
Author: Zephaniah E. Hull <warp@agamemnon.b5>
Date:   Sun Sep 10 15:48:35 2006 -0400

Remove a merge artifact so that we can compile.

commit b3a3020fd018df8bc5a8193d36e1a1c7ae8af8ba
Author: Jesse Barnes <jbarnes@nietzche.virtuousgeek.org>
the new PCI mapping routines are broken on sparc64 (in fact they look broken for any 32 bit X server running on a 64 bit kernel) so #ifdef them out for now. the PCI rework tree will make all this crap go away, so I think we can tolerate the extra #ifdef for the next release.

commit 60db190ee5e52ecba884c0f3210634f918bed  
Merge: 5e9d33fe87 65256109bb  
Author: Zephaniah E. Hull <warp@agamemnon.b5>  
Date: Sun Sep 10 03:49:17 2006 -0400  

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 65256109bb8f5a26704ed960e1dd113981df5787  
Author: Drew Parsons <dparsons@debian.org>  
Date: Sun Sep 10 17:40:37 2006 +1000

* Define XPSERVERLIST with '/etc/init.d/xprint get_xpserverlist'  instead of '/bin/sh /etc/init.d/xprint get_xpserverlist'  
  - allows the initscript to set its own different shell under #!  
  - allows disabling of XPSERVERLIST by making the script non-executable  
* Allow files to be installed by using dist_*_DATA instead of EXTRA_DIST.  
  Also, use dist_*_SCRIPTS to install scripts.  
* Fix minor typos in man pages.

commit 6950267dd690ef8e29b1c32a157dd64e9b79e06d  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Sep 8 15:31:18 2006 -0400  

Add SELinux extension configure-time support.

commit fb34c28a61ab3629c1e85c156e73b158518db7c7  
Merge: 9c503f09ce d1110c5c83  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Sep 8 15:30:12 2006 -0400  

Merge branch 'my-XACE-modular' into my-XACE-SELINUX

commit d1110c5c83a7f439158f369ab2f3ae614fa9d2a5  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Sep 8 15:28:48 2006 -0400  

Generalize the handling of configuration files that ship with extensions.

commit 9deb579dc9366590203afe0576bf88643ab36c89  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date: Fri Sep 8 15:25:17 2006 -0400
Zero out newly created ExtensionEntry structures, but only after the devPrivates have been initialized.

commit cec392656cda1e938d5462e1949e6eef489f9168
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:24:23 2006 -0400

Zero out newly allocated ClientRec structures.
This is required to initialize the devPrivates to a known state.

commit 0fba09cdefcc78161f5e92bef6cca53e5309656bd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:23:06 2006 -0400

Include dix-config.h.

commit c938771000eb98647c5b6b8556730d54677f730b6
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:21:57 2006 -0400

Don't need to allocate memory now that devPrivates are being used.

commit 9c503f09ce78d952d0ece77c424e42b6df3fa9ad
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:17:01 2006 -0400

Add SELinux extension to the module/extension loader.

commit 9aa44e3e4c321f42d8e64f83c7f0932470593c26
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:15:19 2006 -0400

Add SELinux extension configure-time support.

commit 150eabc4e8a08e81c48493583f922a1240b7e91c
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Fri Sep 8 15:11:04 2006 -0400

Add SELinux extension source files.

commit 86450998da616e3d00d4d6293acc35eccce2061e7
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Sep 7 15:35:16 2006 -0400

Fix AIGLX VT switching.

See https://bugs.freedesktop.org/show_bug.cgi?id=7916
There may be a simpler, less intrusive fix that involves just rearranging DRI locking between 2D and 3D drivers around VT switch.

commit 5e9d33fe87f9d24e55c468d4b2bb761c9efdb26a
Merge: 629798c73a 64479ffa2
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Sep 7 15:43:31 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 629798c73ad76a77fa6a55bc6403fd9b95ade2bb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Sep 7 15:17:04 2006 +0300

XkbCopyKeymap/SrvXkbCopyKeymap: free geom harder, add cheery comments
Unconditionally free geometry when copying the keymap (so we have none on core, oh well), add a couple of heartening comments.

commit 64479ffa22581cc7d753065c33eda5520b7db9a
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Sep 6 16:13:21 2006 -0700

Remove prototypes and externs for non-existant functions and variables.

commit a0179281af6522ec59830e8f2549633741bc56e10
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Sep 6 15:45:48 2006 -0700

Remove prototypes for non-existant functions.

commit 8356be492c6b46adbf0a8b13836571ed872e16f
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Sep 6 15:20:55 2006 +0200

Make sure _XSERVER64 is defined when it should be and gets tested.

commit f6ce0839ba5b73247097826d28f7388fe248ec0c
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Wed Sep 6 13:18:02 2006 +0200

Fix #include paths for fontcacheproto headers.

commit f39fd4242902eaa862321d39337f429dd14ebacf
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Tue Sep 5 15:23:54 2006 -0700

(unsigned long)(1 << 31) = bad news on x86_64.
(cherry picked from 410e5b1d738ba47b36778e6cbedd44023a27ce259 commit)

commit 410e5b1d738ba47b36778e6cbed44023a27ce259  
Author: Aaron Plattner <aplattner@nvidia.com>  
Date:   Tue Sep 5 15:23:54 2006 -0700  

(unsigned long)(1 << 31) = bad news on x86_64.

commit 0b81fced2ee4e054e5c5f7b739de07460ff2e13f7  
Merge: 20c4ac6e03 c2813514cf  
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>  
Date:   Tue Sep 5 18:03:25 2006 -0400  

Merge branch ‘master’ into my-XACE-modular

Conflicts:

configure.ac

commit c2813514cf7b1a36caa848ecbc2ceef99cf2eb769  
Author: Ian Romanick <idr@us.ibm.com>  
Date:   Thu Aug 31 15:36:13 2006 -0700  

Add missing file from previous commit.

commit 0f9cfb2f752a9010ff07f4b2bd891db0cc30b8e6  
Author: Ian Romanick <idr@us.ibm.com>  
Date:   Thu Aug 31 13:54:10 2006 -0700  

Implement GLX_SGI_swap_control.

Regenerate from glX_API.xml 1.2. Add infrastructure to support
GLX_SGI_swap_control for AIGLX when the DRI driver enables it. Tested
with R300.

commit a9ef5862919313582f72fc0c5b5ab0af4df6507e  
Author: Ian Romanick <idr@us.ibm.com>  
Date:   Thu Aug 31 13:47:50 2006 -0700  

Fix problems with vertex program protocol

There were two sets of bugs in the vertex program (ARB and NV)
protocol. First, several of the ARB functions were missing the
'doubles_in_order="true"' annotation. Second, after the ARB decided
that glVertexAttrib*ARB functions must not alias fixed-function state
for GLSL, Nvidia re-assigned GLX protocol opcodes for
glVertexAttrib*NV (circa September 2004). For some reason gl_API.xml
was never updated to reflect this, and the updated version of the
GL_NV_vertex_program spec never made into the registry.

This is just a server-side regeneration from gl_API.xml version 1.68.

commit 69d5becce4ca2efc8f8de53672ed54a47de62164
Author: Matthew Allum <mallum@openedhand.com>
Date:   Thu Aug 31 17:30:24 2006 +0100

Fix previous commit breaking other kdrives pulling in fbdev.a

commit fd609956f27d76ee76ac8623787f0fc8633a554f
Author: Matthew Allum <mallum@openedhand.com>
Date:   Thu Aug 31 17:18:57 2006 +0100

Add framebuffer device command line switch for Xfbdev

commit 2fb7b8795a9a36c6ce61f6449f6ca26fd1b071f0
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 16:35:32 2006 -0700

Minor extension tweaks.

GLX_EXT_texture_from_pixmap should always be enabled.
GLX_SGI_video_sync is only for direct rendering and should never
appear in the server's string.

commit 1c8851ad491dd02d1c79e620b46384956838ed42
Merge: d59b52fc08 5ddbf4bc4d
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 16:34:04 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit d59b52fc08f2d80b38993e383e61c3eeb0bb0763
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 14:40:13 2006 -0700

Make sure unsupported extensions are disabled.

GLX protocol isn't supported for GLX_SGI_swap_control or
GLX_SGI_video_sync. Remove them from the list of available extensions
until they are supported.

commit db6d04d4b87fd9b6409a3ddf0479a88440c2eda1
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 14:35:08 2006 -0700

Add support for AIGLX drivers to enable GLX extensions that they support.
commit 5ddbf4bcd46fe0d3d682668c2748c712fea410ae
Author: Matthew Allum <mallum@openedhand.com>
Date:   Tue Aug 29 22:07:15 2006 +0100

Re-add support for tslib (1.0 release) and Xcalibrate extension.

commit 4524a2bf6f22c871ed109b027a065f0262137dc5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 29 23:49:26 2006 +0300

configure.ac: move tslib from KDRIVE_PURE_LIBS to KDRIVE_LIBS
Yeah. That was dumb.

commit 942b4369990a255257f66835caf8671c462e0345a3
Merge: 77d315bd2f 393dc0a338
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 13:30:37 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 77d315bd2f2f014c831d313efbe5821189177c
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Aug 29 13:30:20 2006 -0700

Remove __glXNoSuchRenderOpcode because it is no longer used.

commit 260c3f32b69c98f8fc5360f860f69d32c19f04a7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 29 23:18:12 2006 +0300

configure.ac: fix XSDL test

commit 393dc0a3388d56186181b2bd9bccc1d267747e709
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 29 22:53:54 2006 +0300

kdrive: remove @KDRIVE_LIBS@ from Xfoo_DEPENDENCIES

commit cff23616fe45e10c06786a303c8ddef0a80463a53
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 29 22:44:09 2006 +0300

configure.ac: allow disabling of XSDL

commit 89d272bb183e85715d8e6047929fb2d912033d82
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Tue Aug 29 15:05:31 2006 +0300
[PATCH] kdrive/linux keyboard: remove more debugging spew

commit bd6f539ff9409aa7d9056fabe120b457b0a15997
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Tue Aug 29 13:21:58 2006 +0300

[PATCH] kdrive/linux keyboard: silence excessive debugging noise

commit 5436fcea09003e20744a388fa4ae49007c9cf8ede
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Tue Aug 29 13:21:40 2006 +0300

[PATCH] GetKeyboardValutorEvents: be even more careful

Don't accept devices without a keyboard feedback class.

commit 0eb7299f445455a7bcacf2410e83227b23259675
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Tue Aug 29 13:19:12 2006 +0300

[PATCH] XkbCopyKeymap: still more range fixes

Make sure we don't stomp preserve if it doesn't already exist, and fix a
couple of range-related thinkos in level name copying.

commit 7fa3383e3c8eaa7d1eb0e556393f2431cf8e6ed2
Merge: 8d77d44fda ebbdc1342a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 29 15:16:01 2006 +0300

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit ebbdc1342a243b301723390696f742dc91f5976d4
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Mon Aug 28 18:17:32 2006 -0400

    Remove calls to LoaderCheckUnresolved(), since it's now a stub.

commit 8d77d44fda3a6acae62864a3620e09095b79e92d
Merge: d6f36bd280 2fde560bbb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Aug 27 23:08:49 2006 +0300

    Merge branch 'origin' into input-hotplug

commit 20c4ac6e038607e6b66c04639670514e016d8597
Merge: 13c6713c82 8d4f21ab53
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Aug 25 18:49:46 2006 -0400

Merge branch 'my-XACE-SELINUX' into my-XACE-modular

commit 13c6713c82763a85c725e998b37ad02156d803ba
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Fri Aug 25 18:17:01 2006 -0400

Add four new XACE hooks: auditing, key event notification, window init

commit 2fde560bbb9c1148f26fd969dc30c4e736672b7c
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Aug 25 13:01:51 2006 -0700

Enable GL_EXT_texture_filter_anisotropic and GL_EXT_blend_equation_separate.

Re-generate from gl_API.xml 1.65. This provides the missing bits for
GL_EXT_texture_filter_anisotropic and GL_EXT_blend_equation_separate.
Enable those extensions.

commit e2d529963ed40b5f113cf82c17809d241cd4aac1
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Aug 25 12:05:16 2006 -0700

Enable vertex and fragment programs.

Implement glGetProgramStringARB and glGetProgramStringNV. With these
functions implemented, GL_ARB_{vertex,fragment}_program,
GL_NV_{vertex,fragment}_program, and related extensions can be enabled.

commit 21291d6ca7188e5733ed0c93215ee0f1f0f90cc9
Merge: 1a5561c4ec cd2da4e41e
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Aug 25 09:34:21 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit d6f36bd28009881ef7f7a20cdadb3808d808ed97
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 25 12:43:17 2006 +0300

xfree86/parser: use 'kbd' driver when 'keyboard' specified
Now that we've completely ditched the old driver, we should probably make a
best-effort attempt to keep configs working.

commit 7c4167f0d6b33c9c602b04fcfd246fd3aeddd709
Merge: 393f8347ed cd2da4e41e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 25 11:15:33 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 393f8347edccfc24d8902a86ea9def7ada2537b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 25 10:46:32 2006 +0300

xorgconf.cpp: kbd, not keyboard

commit c33e39c86be2010b169ffbd8adbe53b93222dc5f
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Aug 24 20:33:57 2006 -0700

Finish support for GL_ARB_texture_compression.

Fill in __glXDisp_GetCompressedTexImageARB and __glXDispSwap_GetCompressedTexImageARB to finish support for GL_ARB_texture_compression. With this extension (and the related compression extensions), the server-side GLX supports all of the protocol for GL 1.4. w00t!

The bad news is that this has received only minimal testing, and Mesa does not contain any good tests for GL_ARB_texture_compression.

commit cd2da4e41eae233b50f8830d9a8f5d1d916a5a1b
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Aug 24 18:00:16 2006 -0700

Remove GL/glx/g_disptab.c, GL/glx/g_disptab_EXT.c, and GL/glx/g_disptab_EXT.h. Unfortunately GL/glx/g_disptab.h has to be kept around a bit longer.

commit a29e6dd2d2d45c18c52737bb3b7945aafcea5032
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Aug 24 17:58:52 2006 -0700

Add some missing bits of GL_SGI_color_table.

commit ae608b2071d882966e9c7ede71ff46b1ecec0b23
Merge: 2c865277fe b879356ce9
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Aug 24 14:56:33 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 2c865277fe1d056981d1020e1af001d2319252e0
Regenerate from gl_API.xml 1.63. Enable extensions.

gl_API.xml 1.63 corrects some problems with GLX protocol for GL_EXT_paletted_texture and GL_SGI_color_table. Regenerate from that file, and enable those extensions and GL_EXT_shared_texture_palette.

Regenerate from gl_API.xml 1.62. Functions move, no real changes.

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

XkbCopyKeymap: fix various range issues
Fix a bunch of range issues caused by incorrect assumptions (e.g. that the design was at least halfway sensible), and copy types by hand, instead of just blindly memcpy(jing the lot, since it itself cleverly contains a ton of allocated pointers.

configure.ac: more thinkos
Fix auto tests for vidmode and xf86dga. I win at life.

config: clean up debugging messages, make failure to acquire name fatal
Bomb with FatalError when we can't acquire the bus and name.
Clean up a bunch of debugging ErrorFs to be hidden behind #ifdef DEBUG.
More #ifdef USE_DEPRECATED_KEYBOARD_DRIVER.

commit 4ed311cf1c29090c53e474a3001c5702ff8409df
Merge: 73e58adda9 b29b236d88
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu Aug 24 20:17:10 2006 +0200

  Merge branch 'master' of git://anongit.freedesktop.org/git/xorg/xserver

commit b29b236d88789fd45d823a55dbedb393bb134c5b
Author: Lukáš Turek <8an@centrum.cz>
Date:   Thu Aug 24 15:57:09 2006 +0200

  Adapt to Mesa header name change.

commit ce4a0a4dda6d3833d7025f83ed3729915c8aba70
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Thu Aug 24 13:56:22 2006 +0100

  Apply patch in bug #7919, blit improvements in multiwindow mode for Xming/CygwinX

commit 866ca1f929e95689bac9f0a0b3478f7b4d77214b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 24 15:46:44 2006 +0300

  configure.ac: fix XF86VidMode test

commit 2b06c69c8fefa33bdc065635ee711efa45b3033f3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 24 14:51:26 2006 +0300

  GKVE: pass correct arguments to XkbCopyKeymap
  Fix horrendous thinko. Indicators now work perfectly.

commit 4ad9f9af313c9f63b6ad734e174efe1d36db5813
Merge: 33af05d58f 67bd672e88
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 24 10:59:33 2006 +0300

  Merge branch 'master' into input-hotplug

commit 67bd672e880869ef625ae0c0163c3ec1eb46abf
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Thu Aug 24 08:47:06 2006 +0100
Fix typo

commit 733c4beb16c2e4ad9e9a4ea9a85b09fc5062a775
Author: David Nusinow <dnusinow@debian.org>
Date: Wed Aug 23 22:39:42 2006 +0000

Add xorg.conf IgnoreABI option which does the same thing as -ignoreABI

commit b983773d446cef6a0948ca264ed48126e404ae9a
Merge: 0623d3643f d9a86566c2
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 23 17:16:50 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 0623d3643fc28ebc514b2ca872c985d0cf0c753a
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 23 17:16:02 2006 -0700

Fix the sorting of the extension string. Add a few extensions that are supported by the new code. A few of these were actually supported before but weren't advertised.

commit 5d2caacff570dd68bb3fb05e776e02515b2a9da0
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 23 16:47:00 2006 -0700

Refactor __glXDisp_Render and __glXDispSwap_Render to DoRender.
Refactor __glXDisp_RenderLarge and __glXDispSwap_RenderLarge to DoRenderLarge.

commit 866bb3f34046045e9fa0744db1d76e035b3da9c7
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 23 16:41:53 2006 -0700

Memo to myself: Whenever a Makefile.am changes, autogen.sh must be re-run. This is especially true if the change is to remove a source file.

Fix RenderLarge to actually use the new protocol decode tables.

commit d9a86566c21afed7985673f3ed851b055d9dae46f
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Aug 23 16:15:19 2006 -0700

Add LOCALCONN to dix-config.h template for xtrans
Convert protocol decode tables for Render and RenderLarge to use nice, compact N-way search trees generated by scripts in Mesa.

Fix __glXDispatchInfo::dispatch_functions and __glXDispatchInfo::size_table. dispatch_functions had the const in the wrong place, and size_table was declared as an array of two pointers to int_fast16_t instead of a pointer to an array of 2 int_fast16_t. cdecl to the rescue!

Rename __glXDrawArraysSize to __glXDrawArraysReqSize. This makes its name match the pattern of all the other functions in __glXRenderSizeTable.

Re-generated files after a fix to glX_API.xml (in Mesa).

Convert protocol decode tables for Single, VendorPrivate, and VendorPrivateWithReply message to use nice, compact N-way search trees generated by scripts in Mesa.

The Render protocol decode tables are next...

Make sure Composite is never enabled for Xnest.
Make `Xvfb -render` also disable Composite, lest we segfault on startup.

commit 33af05d58f1f4ff021036e9ce4b60fd76dbaebc73
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 23 19:05:50 2006 +0300

XkbCopyKeymap: use correct range for MapNotify
We haven't copied `{min,max}_key_code` by the time the notifies run, so use
src instead of dst to determine number of keys, et al.

commit 6323a11d0db4d3cf0317af83f0362730142f5325
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 23 18:53:04 2006 +0300

XkbCopyKeymap: optionally send NewKeyboardNotify/MapNotify events
Optionally send a NewKeyboardNotify or MapNotify event when copying the
keymap; modify GetKeyboardValuatorEvents to make use of this.

commit 728fbadd16a748b45c80bc2c65c46f82cf803578
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 23 14:33:59 2006 +0300

gitignore: ignore vi swap files

commit 8f8487ff9977670a4af0293fed77ff920cfc39fb1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 23 14:33:41 2006 +0300

xkb/gkve: copy XKB map, not pointer-assign
Write a new function to copy an XKB map (does everything but geometry at
the moment), and use that instead of nasty pointer assignments.

commit 52ba722e4c89c052609b4fc62e965d92778aa2dd
Merge: 9138d5a51e05541259bd
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date: Mon Aug 21 18:49:31 2006 -0400

Merge branch 'XACE-modular' into my-XACE-modular

commit 05541259bdb0dfaabb015a01caa3722b7a1b782e2
Merge: c2535f6792 a1ac0440bb
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Mon Aug 21 13:07:41 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into XACE-modular
commit a56b98bb047003a05e26ca9365c212a2da7ac200
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Fri Aug 18 18:03:41 2006 +0300

dix: enable null root cursor

Enable a blank root cursor, selectable with --enable-null-root-cursor at
configure time.

commit 0704bb298cc826cd117815898c6bc015a693c2e9
Merge: c14036977f a1ac0440bb
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:30:14 2006 +0300

Merge branch 'master' into input-hotplug

commit a1ac0440bba690368aa4226468ce571be1a09d95
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:30:00 2006 +0300

dix: fix whiteroot thingo
Note to self: run git update-index _after_ testing, not just before.

commit c14036977fe7b8787c0b68f5262fa0b6a2834f5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:24:34 2006 +0300

input.h: add InitCoreDevices prototype

commit 1c2cb30cd88ba4453f9da339025f8ff39ff5f5412
Merge: 633b6a69f5 70ddd0f39d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:05:50 2006 +0300

Merge branch 'origin' into input-hotplug

commit 19f673b7788d32e220e7e06734f1074b0e4a999c
Merge: cb0a565d2b 70ddd0f39d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:05:41 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit cb0a565d2b2cf8823abbd77b4426cc2237731dc1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 18 17:04:48 2006 +0300
dix: add whiteroot flag
Add a -wr option to use a white root window, and use a BackPixel rather than BackPixmap for both white and black root windows.

commit 70ddd0f39d5118db72a1a4e473cbfb502f1ed9ec
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Aug 18 14:43:10 2006 +0100

Fix bug #5735, Serious flaw in CygwinX clipboard integration prevents paste from X to Windows apps
(Brett Stahlman & Colin Harrison)

commit 708b225689b5a4ba9fffe3372b584b715ef9eacdc
Merge: e1f4565be5 ee5e2cbd2b
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Aug 18 09:13:52 2006 +0100

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit e1f4565be5ce80be4655e81f77f4073fa3fbf8d0
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Aug 18 09:11:48 2006 +0100

    Fix bug #7302, make Xn.hosts work from the Microsoft Windows install directory on Xming.
    (Colin Harrison)

commit 1880defe4eaba02f9585b154d0883235eabc6d11
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Aug 18 09:09:53 2006 +0100

    Fix bug #7281, clipboard viewer should not call SetClipboard viewer when bogus in Xming/CygwinX
    (Colin Harrison)

commit a1a8e4f7f5917f537eb3dd51d3d6fa3e129236ce
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Aug 18 09:08:12 2006 +0100

    Fix bug #7280, round title corner background should be transparent not black in Xming/CygwinX
    (Colin Harrison)

commit ee5e2cbd2bee610a95facc6b486c4a5070973099
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Aug 17 17:29:32 2006 -0400

    Un-cut-and-paste the mode rejection message.
Fix default mouse device on Linux, again.

It would be really nice if we only did this in one place instead of 40.

Merge branch 'master' into input-hotplug

events.c: fix tiny XEvIE thinko
   Make sure xeviehot gets updated after the ConfineToShape() call.

events.c: make XEvIE a little less verbose
   Change a lot of:
   #ifdef XEVIE
    xeviehot.x =
   #endif
    sprite.hot.x = ... 
   #ifdef XEVIE
    xeviehot.y =
   #endif
    sprite.hot.y = ...
   to one single
   #ifdef XEVIE
    xeviehot.x = sprite.hot.x;
    xeviehot.y = sprite.hot.y;
   #endif
   at the end of the functions.
events.c: make XEvIE a little less verbose
Change a lot of:
#ifdef XEVIE
xeviehot.x =
#endif
sprite.hot.x = ...
#ifdef XEVIE
xeviehot.y =
#endif
sprite.hot.y = ...
to one single
#ifdef XEVIE
xeviehot.x = sprite.hot.x;
xeviehot.y = sprite.hot.y;
#endif
at the end of the functions.

commit c6c39afde3e5f43b623ca6b52162b83c98a28d45
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Aug 17 21:13:09 2006 +0300
dix/events.c: add YAFIXME
Add another FIXME to the cacaphony of XXX and FIXMEs in this file.

commit f9624e0109cf12b6af43f4235aaa0b54340a4bb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Aug 17 16:09:51 2006 +0300
kdrive/input: verify SIGIO with --enable-debug

commit 73e58adda96c1d1b5176d819107faa7697c3eb94
Author: Matthias Hopf <mhopf@suse.de>
Date: Wed Aug 16 18:17:58 2006 +0200
Fixed segfault w/ broken Xinerama configs.

commit cd3f744bf1983f71476db99c050045d981c5f5b2
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Aug 15 15:54:13 2006 +0300
fix missing brace, trim unused variables

commit 5d073697adb3864133fa3221b82ab8d2f4a59758
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Aug 15 15:37:10 2006 +0300
kdrive/input: minor warning cleanups
And also a compiler error fix when VERIFY_SIGIO is defined.
kdrive/input: only run special key behaviours on non-XKB
Only attempt to manually deal with special key behaviours (e.g. terminating
the server) when not using XKB, and leave locking behaviour up to GKVE.

commit 34228d8b280ef105a0c60b8de5dacf70a5ce24b5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 15 15:23:53 2006 +0300
GPE: fix absolute button events / GKVE: (non-XKB) don't repeat lock keys
Fix absolute button events in GPE, where we would previously send valuator
events without bumping numEvents accordingly, causing the core event to
go missing.
In the non-XKB path in GKVE, implement proper lock behaviour (one press to
enable, one press to disable, discard releases).
Fix debug_events prototype.

commit d003bada3352ec7d734498c4c732904876a9d1e2
Merge: d6433be3cc a815b9b990
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 22:48:55 2006 +0300
Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit a815b9b990e068f02d9cba2b17f2cc3a30a9310
Merge: 37943e2f1a 984babe86b
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Sat Aug 12 21:58:33 2006 +0300
Merge branch 'master' of git+ssh://gsap7@git.freedesktop.org/git/xorg/xserver

commit d6433be3cca8077d78fbb1f45d9ba0212283083d
Merge: 2bf9e3dc1e 984babe86b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 21:50:52 2006 +0300
Merge branch 'master' into input-hotplug

commit 2bf9e3dc1ec5fd7b84a4a96899e5663a721d4a4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 21:50:39 2006 +0300
make DIX more tolerant of devices without a CtrlProc (Debian #269860)
Return BadDevice on client requests for devices without a CtrlProc, instead
of tanking horribly.

commit 984babe86bf82002b4d6589b2750c7b5a5489bd5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 21:43:38 2006 +0300

    remove obsolete vendor defines
    Remove random behaviour changes for SGI and MetroLink.

commit 37943e2f1abc6709ff739000372b0394d5c18e5
Author: George Sapountzis <gsap7@yahoo.gr>
Date:   Sat Aug 12 20:54:33 2006 +0300

    Call exaTryComponentAlphaHelper() for solid src also.
    Also, rename to exaTryMagicTwoPassCompositeHelper() as it is now called
    for non-component-alpha masks also, and add function description from

commit f7919c287936f55569c2301ebb1b5f52358e70fa
Author: Bastian Blank <waldi@debian.org>
Date:   Sat Aug 12 20:43:25 2006 +0300

    xfree86: don't do legacy IO on ARM or S/390 (Debian #362641)
    Don't attempt to poke legacy IO ranges on ARM or S/390.

commit 59dcd62906d8ee597cd43aa307f414cb47995cea
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 20:39:08 2006 +0300

    xfree86: remove Xqueue support completely

commit e641000b98e7c2e92e3c801eaa42aa15d5c16ad0
Author: Samuel Thibault <samuel.thibault@ens-lyon.org>
Date:   Sat Aug 12 19:41:59 2006 +0300

    xfree86: add Hurd support (#5613)
    Add support for GNU/Hurd.

commit 5a3488ccac8e5dadb9fc98be41ef17e8ead1b2faf
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 12 19:25:06 2006 +0300

    configure.ac: fix execinfo.h test (Debian #363218)
    Define HAVE_EXECINFO_H as well as HAVE_BACKTRACE, when we find execinfo.h.

commit 26c3cd1c9e3f52548389817a6d89a377e20c4269
Merge: 008a7eb6ec4951e0a6b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Aug 12 18:58:18 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 008aa7eb6ed090384e6c44f861410e317c78a1cd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Aug 12 18:56:05 2006 +0300

completely remove OS keyboard layer
Completely axe the keyboard layer from os-support.

commit c4951e0a6b6cf3e33ee710cc5cda1d9bc929ee3d7
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Aug 10 20:49:06 2006 -0400

Fix a mode sanity check to not break reduced-blanking setups (LCDs).

commit e1921f014b102e34eefb4b33c236727f236b4d6
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Aug 10 20:43:15 2006 -0400

Rename some mode tokens to better reflect their use.

Per #5386, M_T_EDID -> M_T_DRIVER, since it's really for any driver-detected mode. Also add M_T_PREFERRED bit, to select a 'best' mode out of a set.

commit c2535f67923bde0b8b0e72363467110806e2f4af
Merge: c0cb8d1fb8 db82e12fac
Author: Alan CooperSmith <alan.coopersmith@sun.com>
Date: Thu Aug 10 10:37:59 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into XACE-modular

commit 9525c2709ea3245c6518d4c3b5a0a4aff37181d
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Aug 10 20:29:57 2006 +0300

configure.ac: fix xephyr conditionals
Fix Xephyr build conditions, allowing it to actually be disabled.

commit 6d8d4abaacaf08140b673472d985117d448a62e7
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Aug 10 20:28:06 2006 +0300

configure.ac: allow conditional building of XF86[DGAMiscVidMode]
Allow conditional building of the above three extensions, defaulting to auto.
commit 1a5561c4ecccaf32b03c41373adf376100d457aa
Merge: 190f229ed7 db82e12fac
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Aug 10 10:20:37 2006 -0700

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit cec284f2b3e948deb9e56a1a8519fdd693ab952
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 18:03:58 2006 +0300

    kdrive: properly ifdef composite enabling

commit 45bce556e8665412b9f6e89f88ed5bedb41de1ba
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 18:02:47 2006 +0300

    GetMaximumEventsNum: be more conservative
    Be slightly more conservative in our maximum event count if we're using
    XKB (and thus don't need to count the extra repeat events).

commit 172d45b9b75f95c997d1e9358040e6d496e2a06
Merge: 3832a3d7db db82e12fac
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 14:14:54 2006 +0300

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 3832a3d7db0f3b5d7167c3b5ba6d6b3d96351a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 14:13:51 2006 +0300

    GKVE: don't repeat modifiers when using XKB
    Make sure we don't ever repeat modifiers (previously was repeating when
    using XKB); only do explicit KP/KR repeats in the non-XKB case. XKB will
    take care of repeating when we're using it.

commit 9f188416bb6b4837d4c3f8773053d5ee0f0ee1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 14:00:34 2006 +0300

    core devices: clear devicePrivates on close

commit 539d1f33475484d35fb5a377efc76d2a2d868e3f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Aug 10 14:00:14 2006 +0300
GKVE/GPE: have DDX allocate events
Don't allocate events on every GKE/GKVE/GPE call, just have the DDX manage it instead. Introduce GetMaximumEventsNum(), which is the maximum number of events these functions will ever produce.

commit db82e12fac5ea16a39fc1bd0bc31ad95089de95
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Aug 9 14:55:17 2006 -0400

Remove TargetRefresh option from the autoconfig logic.

The default target of 75Hz is almost always wrong for LCDs.

commit fcd4167e8913f77bd9e17a6955d0f2a9f4eeb10
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Aug 9 14:48:51 2006 -0400

Remove the bc flag from the -help text, since it's gone.

commit 767f372dd02232469f9fd804b811a17eaf762e1e
Merge: c4f5de6cc3462bb61b0f
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Wed Aug 9 20:23:30 2006 +0200

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit c4f5de6cc3b935025829af971b0b8010c1ecfddb
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Wed Aug 9 20:21:52 2006 +0200

Sanitized glxdri’s Block/Wakeuphandler calling.

__glXDRIleaveServer() and __enterServer() used to call DRIDoBlockHandler (resp DRIDoWakeupHandler) directly. They are now calling DRIBlockHandler (resp DRIWakeupHandler) to account for driver specific block/wakeup hooks.

commit 5506b4ad200745236f997c121e8200179c47b749
Merge: 4be9abb850462bb61b0f
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 9 07:21:01 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 4be9abb8504b3761b5f3a01851e4eb3da86c76e2
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 9 07:20:16 2006 +0300
kdrive: remove ddx_DEPENDENCIES

Remove foo_DEPENDENCIES as they weren't guaranteed to just be libs, and loader arguments (-lfoo, -Lfoo) might've crept in.

commit 462bb61b0fe968fae1b99cf98ec6f7de09105dcd
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Aug 8 18:07:22 2006 -0700

Add CompositeRegisterAlternateVisuals.

This provides drivers the ability to add their own alternate visuals and then register them with Composite for implicit redirection.

commit 190f229ed77d87797e0f2f6762c86b3ad3a3dcbe
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Tue Aug 8 16:47:32 2006 -0700

Make xf86PciVideoInfo static since it is only used within this file.

Dummy out all of the PCI bus and device access control functions. We need a better way to do this, and that will probably be in libpciaccess and / or the kernel.

Refactor xf86GetPciInfoForEntity to use pci_device_find_by_slot.

Refactor xf86CheckPciSlot to use xf86GetPciEntity.

Eliminate disablePciBios and the one place that calls it.

commit 5508f7646f9754b054e961a1025b7a52913b563b
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Tue Aug 8 16:43:31 2006 -0700

Remove prototypes from some functions that were previously removed.

commit 9df53d903ed68073bf7d2c2a275b6f6556a85c0f
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Tue Aug 8 16:42:23 2006 -0700

Rename xf86ReadDomainMemory to xf86ReadLegacyVideoBIOS, since that's what it is actually used for. Modify a few routines in linuxPci.c to take pci_device structures as parameters in stead of PCITAGs.

commit fe351a711ef55c3ae1e784d4551147c080eda109
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 8 14:54:10 2006 +0300

GKVE: send XkbMapNotify, not XkbNewKeyboardNotify
Sending MapNotify is more correct in this case than NKN, so do that.

commit 31089816317f27c668b12a15c74fd226a8df9f7
Merge: ab3ebfedf0b2d1aba72a5030f693bf4fafaed709
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 8 12:01:12 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit ab3ebfedf0b2d1aba72a5030f693bf4fafaed709
Author: Tiago Vignatti <tv02@c3sl.ufpr.br>
Date:   Tue Aug 8 12:00:34 2006 +0300

xorgcfg: fix compilation error
Add missing parentheses to IS_KBDTRIV macros.

commit 12dbd8a02f797ad57a1be683a02a1fcb1ca35438
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Aug 7 23:43:40 2006 +0300

remove optional R3 backwards compatibility
Remove the permitOldBugs flag, which enabled backwards compatibility with broken R2/R3 era clients.

commit 7721ee308fbb6fc9e969f15fe04b3346c04f843
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Aug 7 23:03:02 2006 +0300

config client: fix minor race with event queue
Fix a small race whereby you could remove a device while events from it were still in the queue, by calling ProcessInputEvents immediately before RemoveDevice, to (hopefully) flush the event queue.

commit 458c63a84110f64c7fce397a531a3a779c2239a2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Aug 7 23:02:17 2006 +0300

enable adding devices after removal of a middle device
Allow new devices to be added after a device that _wasn't_ the last on the list was removed, by ensuring inputInfo.numDevices always increases, and never decreases.

commit a31d11a7a8485cde79976c4d407d3b7f7e9b350
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Aug 7 23:01:23 2006 +0300

GKVE: get rid of bogus double-release check
Get rid of a bogus double-release check which broke non-XKB servers.
xephyr: aid input debugging
Add the 'ephyr' mouse and keyboard drivers to the driver list so we can re-add devices.
Set the names properly in Ephyr{Keyboard,Mouse}Init, not in InitInput.

kdrive: move map initialisation to KdNewPointer
Do a linear n -> n initialisation on the map up until KD_MAX_BUTTON in KdNewPointer, moving it out of both KdParsePointer, and KdPointerProc.
Also remove dead pointer acceleration code.

ephyr: cleanup
Remove extraneous KdAddPointerDriver call.

GPE: use button map for DBP/DBR, not just BP/BR
Make sure we use the button map for extended events, not just core.

kdrive: prevent overrun in map
We actually need n + 1 elements for the mouse button map, not n.

kdrive: increase maximum number of buttons
Increase KD_MAX_BUTTONS to 32.
Use DrawablePtrs instead of PixmapPtrs for Prepare/Finish access.

Also, define some wfb functions even if FB_ACCESS_WRAPPER is not defined. This allows a client to use libfb and libwfb at the same time.

commits:

commit afcad4ad99bbfc8bdc0f4fdd70e072108410d30
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Aug 7 18:11:05 2006 +0300

xfree86 ddx: always free GKE/GPE events
free() events we get passed back from GKE and GPE so we don't just, er, leak them all. *cough*.

commits:

commit 98fd874eeadd5d37413922d8afba8415d0c56bb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Aug 7 16:51:39 2006 +0300

move all autorepeat logic to DIX
Move core autorepeat logic for keyboards down to the DIX, remove it from KDrive.

commit 5c7001f6f8f6c63d8585a37d3f79a9495be8ed0
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Aug 7 16:51:09 2006 +0300

memcpy() events in
memcpy events into our event structure instead of doing pointer assignment.

commit c85e64c9ada1d288f676ca7cf23b52a6f8219e90e
Merge: a406f6bfee a54b71b772
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Aug 7 15:54:55 2006 +0300

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit f54b71b772a1f587394ae3968782b611e52f0e2d
Author: David Nusinow <david@nee.(none)>
Date: Sun Aug 6 18:11:00 2006 +0000

Document enable/disable flag for AIGLX in xorg.conf manpage.

commit a406f6bfeeaa46e33236f7ab46813fe6c30b936a35
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 4 12:40:19 2006 +0300
mieq: don't leak events
free all events posted through mieqEnqueue.

commit 997ba45b192f21810099ed888792a45f1677a9ce
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 4 11:18:16 2006 -0300

   fix incorrect button test
   Test for n (1..nButtons) being under nButtons, not button (1..(1<<nButtons)).

commit 9138d5a51e411f598bc0e75a3e73d2c16187a518
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 3 18:24:04 2006 -0400

   Make SecurityLookupIDBy* part of the base functionality.

commit 45c229f526bf1dafb5e81b50d700449ba4e1613d
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Thu Aug 3 14:26:06 2006 -0400

   Remove LBX code.

commit 96e45626c43b7674b66e0258b0b1730d5ce71357
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>
Date:   Wed Aug 2 20:29:59 2006 -0400

   Rebase Security extension to use devPrivates for storing security state.

commit 83ebf61ec03ff31005375900bee1e55e0e694c4b
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Aug 2 13:33:33 2006 -0700

   Eliminate the last few places outside xf86pciBus.c that use
   xf86PciVideoInfo. In all cases this means converting the code to use
   the pci_device_iterator interfaces.

commit 5bfb2ee9652e5ef6d076e88b6df54baaa43b8e0c
Author: Ian Romanick <idr@umwelt.(none)>

   Remove the last remnants of the pci[Read,Write] [Long,Word,Byte ]
   functionality. This also allows the removal of PCI_CPU, PCI_CPU16, 
   and a few other dangling bits of cruft.

commit a0f2e1cae46f189ed97e2d92b485d315b3d2627a
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Aug 2 10:54:41 2006 -0700
Move xf86FindPciDeviceVendor and xf86FindPciClass from xf86pciBus.c to xf86int10.c. Refactor common code from those functions to do_find.

commit de823460f687ce79d016f7ddeeabdf57c4ad212f3
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 2 10:44:11 2006 -0700

Modify xf86FindPciDeviceVendor and xf86FindPciClass to use the pci_iterator interface instead of the xf86PciVideoInfo array.

commit 3c23dec5962b881ae838fe0ee2c7b0a789f5386
Author: Eamon Walsh <ewalsh@tycho.nsa.gov>

Call ClientStateCallback on serverClient devPrivates initialization.

commit 23f44df9009023e77508f03ac4a7595c7e3d40cb
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 2 09:55:32 2006 -0700

Remove pciConfigPtr and all of the associated cruft.

commit 966ebd3d2d84b440e89504d055a0e937303ed11d
Merge: a94176627c39169fd373
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Aug 2 08:14:58 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit ee02e647882a4be29e1130bd79904ee79ed6b802
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Tue Aug 1 13:45:43 2006 -0700

Wrap libwfb memory access.

Use the READ and WRITE macros to wrap memory accesses that could be in video memory. Add MEMCPY_WRAPPED and MEMSET_WRAPPED macros to wrap memcpy and memset, respectively.

commit 39169fd373b97f34923f6494d697d9429d0b8a3
Author: Matthew Allum <mallum@polystyrene.(none)>
Date: Tue Aug 1 13:39:22 2006 +0100

Back out 'mystery' spurious host window hints.

commit f737cc38baea6af8bf284c9e207e60a7d90eebe1
Author: Eamon Walsh <ewalsh@moss-uranus.epoch.ncsc.mil>
Date: Mon Jul 31 19:58:42 2006 -0400
Adding devPrivates support to the ExtensionEntry structure.

commit b04d64854712678701d5243aacf5cc93444cfadec
Author: Eamon Walsh <ewalsh@moss-uranus.epoch.ncsc.mil>
Date: Mon Jul 31 19:35:08 2006 -0400

 Added devPrivates support to the ExtensionEntry structure.

commit a94176627ced6122ffadb618995f9bcecc872609a
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 14:33:58 2006 -0700

 Eliminate all uses of the businfo field of pciDevice / pciConfigPtr.

commit a69335dc299be6de8b82ed34de1cb30f1255feb4
Author: Aaron Plattner <aplattner@nvidia.com>
Date: Mon Jul 31 14:15:55 2006 -0700

 Make ReadMemoryProcPtr take a const pointer.

 Fixes some warnings when using READ with a const pointer.

commit 26c9587f90806ccee1c0d2a98e656e9c311a34ee5
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 13:54:36 2006 -0700

 Build fixes for last pull from HEAD.

commit 65dc25d8f86b962f2adc765a9ff327419f98092b
Merge: 69533fc04f b74c845a12
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 12:30:30 2006 -0700

 Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit b74c845a1233f78b841ff8840272c50873300c20
Merge: 3112a6c4f2 02daaa6bb10
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 10:26:06 2006 -0700

 Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 3112a6c4f26d5e9258b8def7ce4109b4bd408c67
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 10:25:31 2006 -0700

 Noting uses libdummy.a, so don't build it. Only libdummy-nonserver.a
is actually used.

commit 02daa6bb103e53e5a33db2bb6acbe57d0bf2c30e
Author: Matthew Allum <mallum@polystyrene.(none)>
Date: Mon Jul 31 17:32:05 2006 +0100

Improve XRes to;
- Better estimate general pixmap memory usage.
- Account for pixmaps shared between clients.
- Account for window background and border pixmaps,
  and GC stripple and tile pixmaps.

commit 69533fc04f38c67fd424776c5191a4ba57ba8c8f
Merge: ef1aeacaaf6 24051ef974
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 31 09:26:04 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

    hw/xfree86/Makefile.am
    hw/xfree86/common/xf86AutoConfig.c

commit 24051ef97406f28c102cf46a78223400b61fdae2
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 30 12:15:33 2006 +0300

    remove filename that's too long for tar

commit ecb7d43a76d507d04891ab7f189b23be5eccda51
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 30 11:52:41 2006 +0300

    add sym.h to sources

commit bf2d7499c84c94f228d03b21448f5688b3cda1a8
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 30 11:17:02 2006 +0300

    add securitysrv.h

commit e87e68634d8eb66ab783c2802e2d5d12ff1031be
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 30 11:11:59 2006 +0300

    remove .cvsignores from EXTRA_DIST
commit ed0e807de9f0746838fcbfd2e8a9e0737759a461
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 30 11:08:54 2006 +0300

    bump to 1.1.99.3

commit a68dc013a33d867e65a7e76b3eeec5947b862a5b4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 30 11:08:47 2006 +0300

    remove README (which doesn't exist) from EXTRA_DIST

commit 87fe85f386f781bf0e2eb555526e3d77779f9fa
Merge: 3518e2d0de654619d76c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 30 10:51:34 2006 +0300

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 654619d76c779606f2315782fc01d1410399fa3b
Author: Kevin E Martin <kem@freedesktop.org>
Date:   Fri Jul 28 17:16:32 2006 -0400

    Revert xkb changes that broke XkbGetKeyboard()

commit 79016d4036786b091a9b9d1133a6cdefed6c277d
Author: Luc Verhaegen <libv@skynet.be>
Date:   Fri Jul 28 16:02:02 2006 -0400

    Bug #5386 (partial): Move CVT mode generator from cvt(1) to server core, and
    export it from the X server to modules.

commit e6ae1612be519ee6224d354244d076d85d44a750
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 27 18:24:59 2006 -0700

    Add fbHasVisualTypes and fbSetVisualTypesAndMasks to wfbrename.h and include -DXFree86Server.

commit 2a4ceb09ed5a99dc5763754ab865ec23df91ac9f
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Jul 26 19:39:17 2006 -0400

    Remove dead function prototypes.

commit 990a4009057e068f41d20b95a0e59357185650d
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Wed Jul 26 19:03:39 2006 -0400
Remove getconfig horrorshow. Replace with a static built-in rule list for now.

commit 377a581ddf5e428a368efb1b59fcb317666fecdd
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Jul 25 15:27:31 2006 -0700

Switch to using void* pointers.

Pass the size of the data pointed to by src or dst as an argument to wfb[Read,Write]Memory. This allows one set of macros to be used with any size pointer. Assumes that sizeof(FbBits) >= sizeof(FbStip).

commit a4005c15fbb48231cb958c32b2c791a2d23a135a
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Mon Jul 10 18:58:09 2006 -0700

Add framebuffer access wrapper infrastructure.

Create fbPrepareAccess macros to call into the driver to set up the wfbReadMemory and wfbWriteMemory pointers. Call these from fbGetDrawable and fbGetStipDrawable.

Add the READ and WRITE macros, which expand to simple memory accesses for fb, and calls through the function pointers for wfb.

Add fbFinishAccess macro to give the driver an opportunity to clean up. Add calls to this in the appropriate places.

commit 319efac445cebda5a2ac1db67e5be54bc47ba9d
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Fri Jul 7 18:45:30 2006 -0700

Prefix all of the exported symbols in libwfb.so with "wfb".

For now, just #define all of the exported symbols in wfbrename.h. Later, we should add FBPREFIX() around the exported symbols and use -fvisibility=hidden to hide the rest.

commit 7608a63f7409f399e9a26962a304b84196a1868
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 6 17:05:21 2006 -0700

Build infrastructure for libwfb.so.

Builds fb/* twice, defining FB_ACCESS_WRAPPER for libwfb.la. Define a macro, FBPREFIX(X) which expands to fbX for libfb.la and wfbX for libwfb.la. Use the macro on [w]fbModuleData so the new module loads.
Remove another latent PowerMAX hunk.

All your favorite running jokes of 2005, today!

Pass correct pointer to xf86MapLegacyIO.

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

Gut anything having to do with the PciBusPtr (or PciBusRec) type.
Bump required version of libpciaccess to 0.5.0 so that
pci_device_get_bridge_buses can be used.

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework
Conflicts:

hw/xfree86/common/xf86Init.c
hw/xfree86/int10/pci.c
hw/xfree86/scanpci/xf86PciData.h
hw/xfree86/scanpci/xf86PciStdIds.h
hw/xfree86/scanpci/xf86PciStr.h
hw/xfree86/scanpci/xf86ScanPci.h
hw/xfree86/utils/pcitweak/pcitweak.c
hw/xfree86/utils/scanpci/scanpci.c

Re-removed most of the conflicting files.

commits:

commit 4ea475924c557ad0819b796f5369e5e669465709
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 25 20:00:48 2006 +0300
re-add OpenedHand copyright

commit 82f6b7e75e04e3fb951ab71ad3c553c8b34ea995
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 13:52:58 2006 -0700
Don't re-look-up pointers that are already stored in structures.

commit 2fd6b995f927c8ca7267c201f535564b82e691f
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 13:33:34 2006 -0700
Global s/xf86MapDomainIO/xf86MapLegacyIO/. Let's call a duck a duck, okay? Since xf86MapLegacyIO is called from only one place, cut the parameter list down to the one parameter that actually conveys some information: the one that gives a PCI device. Change from using a PCITAG to a pci_device.

commit aed6fe0bb12c68b94e564252bc03594728ed8c5b
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 13:13:05 2006 -0700
Refactor linuxGetSizesStruct to take a pci_device pointer instead of a PCITAG. Modify xf86BusAccWindowsFromOS and xf86AccResFromOS to call linuxGetSizesStruct directly with a pci_device pointer. Remove linuxGetSizes.
Date: Mon Jul 24 12:23:23 2006 -0700

Modify xf86BusAccWindowsFromOS and xf86AccResFromOS to use the
libpciaccess interfaces.

commit 4b474cbc1a0fe17da2438a15291f04ee67ea28f8
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 12:17:27 2006 -0700

The functions xf86PciBusAccWindowsFromOS and xf86BusAccWindowsFromOS
are identical. Just have one call the other.

commit 7dff8d98a9ed11f2806cb8ec4b3f10e01c5d063f
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 11:56:37 2006 -0700

Remove source files that have been dead since day-1 of this branch.

commit eb95128f615e2f3fab17dcafd4fc260c6d4d0644
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 11:53:37 2006 -0700

Changes that were missed on the previous commit. Perhaps oddness
caused by doing git-update-index at the wrong time.

commit 05f8b772aece2b05d92078bb60a07bd8413386363
Author: Ian Romanick <idr@umwelt.(none)>
Date: Mon Jul 24 11:23:03 2006 -0700

ScanPciDisplayPCICardInfo now uses pci_device interface for PCI
scanning. Log messages simplified to make the code shorter and less
convoluted. ScanPciDisplayPCICardInfo is now void since it was only
called from one place with a constant parameter.

commit ca3f4fc1b0c21a0620ab1eb35c199cd55d795095
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 23 19:02:12 2006 -0400

add fallback ChangeDeviceControl, allow XOpenDevice on closed device
Add a fallback ChangeDeviceControl, which allows the attributes we know about
so far.
Allow XOpenDevice on closed devices.

commit e73e5e2a4d8f22889d840a7719479f9af686cb9c
Merge: a73cef1f00 8977b07434
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Jul 22 13:56:30 2006 -0400
Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 8977b07434d75ca396d236dc1324f0c862b633c7
Author: Dave Airlie <airlied@linux.ie>
Date:   Sun Jul 23 03:36:47 2006 +1000

glx: fix typo from tag removal

commit a73cef1f005ca66db18e952e676ee5a21b829700
Merge: 672ca156bf 70869fc677
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Jul 22 12:07:22 2006 -0400

Yet more dead code.

commit 7c1b2ee7a8238c267bc97e78bbff204dc7723dd3
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 23:35:13 2006 -0400

static markup, more dead code.

commit 1c4f90b1d05d4c49279f3224a6dd94850a6bd8d0
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 23:03:21 2006 -0400

Open-coded path checks make baby Jesus cry.

commit 114264584ca43091a5e07282566a30a6378a1502
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 22:55:41 2006 -0400

Remove a useless open() of the module we're about to load.

commit 985611d5cd079f97da700c7b8e898d33da004be0
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 22:37:59 2006 -0400

Delete some long-unused testing code.

commit 525257eb98b46209c69c8576daa6bd7afc1f48a9
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Jul 21 19:16:38 2006 -0700
Fix stupid typos.

commit 672ca156bfba1440e6e234650bfba9d38e1ed52
Merge: d14d91f0946cf844ab69
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:58:42 2006 -0400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 6cf844ab69926b6d23619a12c97734af3881ba67
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:57:28 2006 -0400

loader: walk directory paths with readdir(), don't stat() everything
Walk the directories with readdir, and don't stat everything we can find. Thanks to davej for the public humiliation reminding me to go back and re-fix this one.

commit d14d91f094c3897c889f6aaffb66d738820daee0aa
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:57:28 2006 -0400

loader: walk directory paths with readdir(), don't stat() everything
Walk the directories with readdir, and don't stat everything we can find. Thanks to davej for the public humiliation reminding me to go back and re-fix this one.

commit e18d34f4238e13e226b0407fa2f5f77d2038de39
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Jul 21 16:47:45 2006 -0700

Make the various implementations of xf86ExtendedInitInt10 use the libpciaccess interfaces. This eliminates all calls to mapPciRom, which in turn allows the elimination of hw/xfree86/int10/pci.c.

commit 87a634b6f7086b5f98b2b2ecd52f27efe864e56
Merge: b73fb2ae350486d3966d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:36:25 2006 -0400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 0486d3966d2888ef86d36c19f31bd2c2a3e8c652
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:35:04 2006 -0400

fix kbproto dependency
Depend on kbproto >= 1.0.3, for unconditional definition of XkbSA_XFree86Private.

commit b73fb2ae35a82e0bdd48f01132e971fb84946ff1
Merge: e7ac27ad81 aff404f293
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:30:26 2006 -0400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit e7ac27ad81efbea6128b33ec443ca98e228d14ad
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:29:28 2006 -0400

revert accidental deletion of lnx_io.c; re-delete lnx_kbd.c
Thinko'd which file to remove after merging from master.

commit 81913a12910e39d7ea6af8657c1c66cc6791cd65
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:10:26 2006 -0400

remove undead files from master
Remove dead files which worked their way back in when merging from master.
Ugh.

commit 7465010d59ec435bd00b738f0cef766b352dc7eb
Merge: 1d31ed7782 0aaa95b0d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:05:41 2006 -0400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into input-hotplug

commit 1d31ed77824082e1060bff63317c94581d9eb9b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 19:02:52 2006 -0400

xephyr: load keysyms at init, not enable
Load keysyms at init time, not enable, so we don't get the wrong map width.

commit 63dfaa1d5ba556e09314ec914936e5471aab94b0
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 18:47:18 2006 -0400

Delete internal usage of the symbol ref/req lists.

commit bca9364f3f4a2376edbcf57a34f704ce28be21ba
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 18:41:46 2006 -0400
Remove the loader's required and referenced symbol lists, dead code.

commit 07ad92d2c4eb07db8487d76efc822fd7b88137cb
Merge: 18624a9b7c22db3f3db54
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Jul 21 15:25:35 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

hw/xfree86/common/xf86DoScanPci.c
hw/xfree86/common/xf86Init.c
hw/xfree86/common/xf86pciBus.c

commit aff404f293ed86a44a095a9f11e79f6c3f4f6
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 18:24:37 2006 -0400

Detach xf4bpp from cfb.

commit 0aaac95b0d12089b256e97f6ff955c8c229ae095
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Fri Jul 21 17:56:00 2006 -0400

Remove RCS tags. Fix Xprint makefile braindamage.

commit eeaad0e956640aac653d194a992df7792e4abcbb
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Thu Jul 20 18:19:07 2006 -0700

Fix the RandR failure path for rotated screens.

commit 22db3f3db54d2f7f6b72638b46c186af6db04e214
Merge: 2f98841fde 93cd53360c
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Jul 21 13:55:37 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 3eeb62e8f587732e6b433c2b9c6879eb26a3f1b4
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Jul 21 16:33:28 2006 -0400

bug #890: completely remove deprecated keyboard driver
Remove all remnants of the old built-in keyboard driver.
commit 60ea7b51fe2b8a19a08b63db48504971a7a50ee6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 21 15:23:37 2006 -0400

xorg ddx: move to new input API, remove old keyboard driver
Remove most of the rest of the old keyboard driver.
Move to the new Get{Keyboard,Pointer}Events API, which is mostly
complete at this stage: just missing the proximity events.

commit d32dc8bf19e1071fc30af2f0bc6a6699b351f39e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jul 20 18:40:47 2006 -0400

be more careful in IVAS

Don't walk off the end of a NULL pointer in InitValuatorAxisStruct.

commit 7711c56d2e2aae4dcd6d9297bc144c1cb3cfab1
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Thu Jul 20 18:38:57 2006 -0400

xephyr: fix keymap, pointer; dix: fix multiple axes

Initialise our axes properly in the DIX, and make sure we don't
unnecessarily clip maxval when it's not set.
Fix keymap copying in Xephyr (to some degree: it's still broken),
and set nAxes and nButtons properly.

commit f18c3122a57df9770087e5fc70ac48855222233
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Thu Jul 20 16:49:17 2006 -0400

sanitise debug output

Don't spit out huge chunks of pointless ephemera, especially without
--enable-debug.

commit 463e0fe35bec3c91b19be9aaacf34babb146a88c9
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Thu Jul 20 16:45:15 2006 -0400

update KDrive to new input API

Update KDrive to fit the new API (mieqInit and InitPointerDeviceStruct), and
include InitTouchscreenDeviceStruct in the DIX.

commit 1987af8c498a1bf394a8951ca6d5b0b7f7a35188
Author: Daniel Stone <daniel.stone@nokia.com>
add virtual core devices to DIX

Add virtual core devices, with proper keymaps etc, to the DIX.

commit 737e6e4836a6af26fedc22cda8e7d366b52c8fa7
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Jul 19 20:10:48 2006 -0400

define SDevicePresenceNotifyEvent prototype

commit 7f36cc533e7f6ae44e973c5f00f9bfece6b7b50
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 19 20:09:13 2006 -0400

distribute config.h

commit e896195eb726a2b307200958308eda8e93dd3cd
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 20:05:33 2006 -0400

remove extraneous font debugging code

Some of it didn't compile, and some of it was just unnecessary.

commit 99c57674c002c5e88e6db34488a27b05004e9197
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 19:59:11 2006 -0400

avoid using font servers with built-in fonts

commit ecfad74c48f633916305bce25baaad74aa52b78
Author: Daniel Stone <daniel.stone@nokia.com>

add support for built-in fonts

Use --enable-built-in-fonts to only use built-in fonts, and avoid loading fonts.

commit 0a2068d123520d35818c38a555ae3ba06d8ca7fb
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 17:29:23 2006 -0400

Xi: add XExtension{Keyboard,Pointer} types

Report XExtensionKeyboard for non-core keyboards, and XExtensionPointer for
non-core pointers/mice.

commit c7577f9b88aac84d59404f29d994ee7af583d33b
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Jul 19 17:27:58 2006 -0400

Xi: add DevicePresenceNotify

Add support for DevicePresenceNotify events.

commit 3a23e499017d5823157806029263edae53c663fd
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 17:00:23 2006 -0400

make XInput mandatory

Always build Xi, since GetPointerEvents/GetKeyboardEvents relies on it.

commit 02d09105113fb9b560a770fe15f7bb041165831c
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 16:51:04 2006 -0400

new KDrive input world order

Convert KDrive to GPE/GKE interface.
Add first-class drivers and enumerate every device separately through Xi, instead of lamely attempting to aggregate them.
Add XKB support to the Linux keyboard driver.
Add 'thumb button' support to the tslib driver.
Rejig InitInput, so each DDX has to add a list of drivers it supports.
Support NewInputDeviceRequest, et al.

commit a274e7296b1bdd6f6c921f28b087610cee9548e0
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 13:56:23 2006 -0400

add GetPointerEvents/GetKeyboardEvents framework

Add GetPointerEvents (with XFree86 pointer acceleration) and GetKeyboardEvents to the DIX. Extend the ValuatorClass structure to account for same.

commit b308dbf273f8ec26361b0fefe7aca64aee3245f60b
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 12:15:18 2006 -0400

add DEVICE_TOUCHSCREEN and DEVICE_CORE Xi controls (DeviceIntRec ABI break)

Add DEVICE_TOUCHSCREEN and DEVICE_CORE controls to the Xi code, and the
TouchscreenClassRec and a coreEvents flag, to toggle propagation of core
events.

commit c9a3d9baa81ceb940032ffe529d9eadf2d202ab2
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 19 11:41:16 2006 -0400

  xorg DDX: implement NewInputDeviceRequest

  Implement NewInputDeviceRequest for Xorg, mainly written by Kristian Høgsberg.
  Move MatchInput to xf86Helper.c, as xf86LookupInputDriver.

commit 02a95311568e24e1055ea52c7df8cb7aa3f38ad0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 19 10:05:12 2006 -0400

  add basic D-BUS configuration mechanism

  Also move LookupDeviceIntRec into the DIX, and add InputOption type, and
  NewInputDeviceRequest prototype (DIX requests DDX to add a device). Does not
  link without an implemented NIDR.

commit 93cd53860c3aca182a0a02543c41b5d71d65926b
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Thu Jul 20 16:52:31 2006 -0400

  kdrive: allow debugging

commit cd0874dda1c30ef91a7d2b3cd455676422599ecf
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 20:13:02 2006 -0400

  never define MEMBUG

  Defining MEMBUG causes allocations to randomly fail.

commit 093943ddd02f1db9835866a6e3885193
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 20:09:55 2006 -0400

  define DEBUG in DIX

  Which makes #ifdef DEBUG actually useful. Incredible.

commit 68b0678254240a984db9adefefb0cf68e9bdf4e4
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 20:08:32 2006 -0400
exa: only disable cw when COMPOSITE is built

commit 27df2eda795681c9f05e2907d74e2c102d3441e4
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 16:18:28 2006 -0400

    fix KdXvCopyPackedData to actually work

    Remove extraneous bit shift in KdXvCopyPackedData, so it's actually useful.

commit 00b24f119f03da86fa98ffe5a45c5b041810ce53
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jul 19 17:01:20 2006 -0400

    fix minor typo

commit f8a7a1e40c14a85ebde11c5854c07a8d529d38b9
Author: Daniel Stone <daniel.stone@nokia.com>
Date:   Wed Jul 19 17:06:00 2006 -0400

    fix XEvIE build without XKB

    Don't unconditionally play with XKB stuff in XEvIE.

commit 2f98841fde6bad807967ed15e954291240714198
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Jul 20 16:08:27 2006 -0700

    Remove unused variable.

commit 985c34bf06af70a7296db8307899a17347a25558
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Thu Jul 20 17:33:13 2006 -0400

    Remove the DDXTIME conditional, for being unused.

commit c69c00d6523a35232a32e54a533811fc2b37815a
Merge: 46369350d4 84683f19b4
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Jul 20 12:08:38 2006 -0700

    Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 84683f19b4d1c712281036bcabf8dc623e64b26a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jul 18 18:16:12 2006 -0400
get rid of XFree86_LOADER, XFree86Server, XFree86Module, and IN_MODULE
Get rid of almost all uses of these definitions. They're still defined for
delinquent out-of-tree drivers, and also for the Mesa build. As well as
for minitext.c. But largely gone.

commit 881953813c7307f2aac4057b48d233e5f4a574cd
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date: Mon Jul 17 13:50:38 2006 -0400

Fix the Linux ACPI reopen code to use a repeating timer, rather than a
one-shot sleep-and-reopen attempt.

commit f029e9a32dca95b84e08ec173a0cc78fd92bdfb
Author: Kristian Høgsberg <krh@redhat.com>
Date: Sat Jul 15 22:05:38 2006 -0400

Un-glx-libcwrap DMX GLX proxy so it works without GL/include.

commit 46369350d40819ecc2a9f37ed4aaa95866b80997
Author: Ian Romanick <idr@umwelt.(none)>
Date: Fri Jul 14 15:51:55 2006 -0700

Add some const qualifiers to several function parameters.

commit 490fb304599b1f24b36439e5c1397781e7d2f612
Author: Ian Romanick <idr@umwelt.(none)> 
Date: Fri Jul 14 15:26:56 2006 -0700

Rearrange code in xf86int10ParseBiosLocation to use strncasecmp. This
eliminates the need for the first use of xstrdup in this function.
The second use of xstrdup was *never* necessary and has also been
eliminated.

commit d3ee49bcbafe4b4e6b308686020847e978473779
Author: Ian Romanick <idr@umwelt.(none)>
Date: Fri Jul 14 15:13:35 2006 -0700

Refactor common code from the generic.c and linux.c version of
xf86ExtendedInitInt10 to xf86int10GetBiosLocationType and
xf86int10GetBiosSegment.

These changes were tested on MGA hardware on x86-64 with various
combinations of InitPrimary and BiosLocation.

commit 8793c7fd4ba7d1b3e2eff3f2c18d042ee9bb3f62
Author: Ian Romanick <idr@umwelt.(none)>
Date: Fri Jul 14 09:11:39 2006 -0700
Refactor identical xf86InitInt10 function from generic.c and linux.c to helper_exec.c.

commit 1450fd596433f7adfe3d0798de2ddce5b9d0a9034
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Fri Jul 14 09:10:32 2006 -0700

Trivial refactor of libint10_la_SOURCES.

commit 186249b7cf88e769c53cc3a876b3647c5d5057c
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Jul 13 21:10:48 2006 -0700

Modify linuxGetSizesStruct to use pci_device instead of pciConfigPtr.

commit 12595a77d6c2f037f48dfe751bdc10505b3317df
Merge: 38738de62e4c225a3a8b
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Thu Jul 13 12:48:03 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit 4c225a3a8b2e7e5e5510347d8473f1318bbac769
Author: James Steven Supancic III <arrummzen@arrummzen.net>
Date:   Thu Jul 13 10:03:57 2006 -0400

Bug #7482: Fix Xdmx's Render code to match reality; fixes BadLength client crashes.

commit bb3aa94845a74d771ba9539bb76203ec82957fc
Author: Drew Parsons <dparsons@debian.org>
Date:   Tue Jul 11 18:26:55 2006 -0700

Bug #7346: Disable Composite extension in Xprt

Xorg Bug #7346 <https://bugs.freedesktop.org/show_bug.cgi?id=7346>
Patch #6184 <https://bugs.freedesktop.org/attachment.cgi?id=6184>

commit 10f3e32726d5b4981abdl3a022e5b4f219fab41e
Author: Gustavo Pichorim Boiko <boiko@mandriva.com>
Date:   Mon Jul 10 16:37:53 2006 -0700

Fix the configure check for the --enable,disable--dpms option

commit 2194d99d9ca3e607e0f5dd911ee3df536d77564
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Jul 9 16:16:08 2006 +0200
Replace GNU make-ism.

commit 90a9b82272446fdaebe71c966325fd7e670f75c6
Author: Matthew Allum <mallum@polystyrene.(none)>
Date: Sat Jul 8 21:57:07 2006 +0100

Fix crash in Xephyr when running on host X with keymap width < 4 (i.e. xvnc)

commit 21e3e3ca298dce22e5fad6ef38aa6fe9736a1d3b
Merge: e805621894 39b2f7b218
Author: Matthew Allum <mallum@polystyrene.(none)>
Date: Sat Jul 8 21:13:52 2006 +0100

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit e8056218944e873135c93039d1e9646d51364467
Author: Matthew Allum <mallum@polystyrene.(none)>
Date: Sat Jul 8 21:10:58 2006 +0100

Add support to Xephyr for simulating 8bit grayscale.

commit 39b2f7b2182aedb1ab45415efb4c263012ace512
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Sat Jul 8 19:55:53 2006 +0200

Bug #3042: Use autoconf to get the correct name of a struct member.

This allows us to remove the kernel version ifdefs from the code, which are ugly and broken.

commit 63f13e01ee6e7df1753f2113f4cff9538596be0a
Author: Tilman Sauerbeck <tilman@code-monkey.de>
Date: Sat Jul 8 11:33:44 2006 +0200

Bug #7097: do case-insensitive comparison for some hotkeys.

xkb's strcasecmp implementation has been moved to the dix so it's now safe to just use strcasecmp().

commit 5416f90e9c939027005fc01fa3ce3d56919ae0d
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 6 21:22:34 2006 -0400

Implement GLX_MESA_copy_sub_buffer.
Add GLX_MESA_copy_sub_buffer marshalling support.

commit 2152e2d364bdd179cf218cde446c763d8e8bb833
Author: Ed Catmur <ed@catmur.co.uk>
Date:   Thu Jul 6 17:45:36 2006 -0700

Remove hardcoded 'lib' in XPRINTDIR.

commit 233c004641483a75985e09fe5416ab2c7a97fc4
Author: Ed Catmur <ed@catmur.co.uk>
Date:   Thu Jul 6 17:41:53 2006 -0700

Generate xprint.pre from xprint.cpp.

commit b3e4d1df4bcf900146d7b8cd19e008209294663
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jul 6 18:51:29 2006 -0400

PPC64 build fix.

commit f847f3c0a956c0aec8ade8e32f770daae147f40b
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Jul 6 15:33:31 2006 -0700

xorgcfg now needs libxkbui version 1.0.2 or better.

Old versions of libxkbui use XkbStrCaseCmp which doesn't exist any longer;
the server fails to link with that version of the libkbui library, so
require the current version (1.0.2).

commit 27ffd7e03c05dd2083a10e5acebd2b385d729eeb
Author: Keith Packard <keithp@neko.keithp.com>
Date:   Thu Jul 6 14:43:10 2006 -0700

GL proto version 1.4.7 needed for texture-from-pixmap defines.

GLX_TEXTURE_TARGET_EXT and GLX_TEXTURE_RECTANGLE_EXT are defined as a part
of the new texture from pixmap GL extension in gl proto version 1.4.7 and
are now used by the X server code.

commit d7a96dd6f18e54c26fc5881772d033ac078db3a1
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jul 6 17:39:14 2006 -0400

Switch the default mouse device on Linux to /dev/input/mice.

commit 37838de62edc474f44c0a48bd56470a6c23f8956
Merge: fd49a0dce1 8d07ee070e
Author: Ian Romanick <idr@umwelt.(none)>
Date: Thu Jul 6 13:01:57 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

Conflicts:

hw/xfree86/os-support/bus/linuxPci.c

commit 8d07ee070ecf0d403d9d27c80764d343b80af6f0
Author: Ian Romanick <idr@umwelt.(none)>
Date: Thu Jul 6 12:48:51 2006 -0700

Refactor linuxGetIOSize and linuxGetSize. Eliminate the unnecessary
optimization in the search loop.

commit 704e645207d88a2d0a372cf69f6abd778ed4c30b
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Jul 6 14:22:33 2006 -0400

Remind dlloader that it needs to search the global scope as well as the
loaded modules. Fixes LoaderSymbol() on symbols provided by the server.
Spotted by Aaron Plattner.

commit fd49a0dce13280cf195bd6c7ee0f23d0840cb665
Merge: e66e7b48e1 28b95fd9d1
Author: Ian Romanick <idr@umwelt.(none)>
Date: Thu Jul 6 09:52:15 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit 28b95fd9d1c2f078aaaac75c310a27b17c74a6fc
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jul 6 03:25:38 2006 -0400

Drop unused GL/include subtree.

Woo, less Makefile's to generate.

commit fc1a55671dceae02a701e044ff8203fae5eb1ba
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jun 29 04:35:45 2006 -0400

Implement glXCreateWindow and glXDestroyWindow.

commit ee012588d28b468bd41da8d216210f8cb2f8cb5
Author: Kristian Høgsberg <krh@redhat.com>
Move __GLXdrawable lookup and creation into GetDrawableOrPixmap.

Also refactors __GLXSwapBuffers to use GetDrawableOrPixmap for getting the __GLXdrawable. This patch paves the way for GLXWindows with XIDs different from the X Windows they are created for, a prerequisite for glXCreateWindow().

commit 8b5bc6a9ab487dea754266b120c686d75d9e100
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Jun 29 00:05:01 2006 -0400

Drop global GLX error integer variables and use __glXError() instead.

Also drop glxerror.h (__glXError is now declared in glxserver.h) and global.c (last remaining globals are in glxext.c now).

With this change we now support all GLX 1.3 error codes.

commit 7cf3ec7b59223f15314a0629f122ecb796678421
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Jun 28 17:00:23 2006 -0400

Move createDrawable from __GLXcontext to __GLXscreen.

commit eea8efe4516750b52505b52ebc9f769f5e8a6f94c
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Jun 28 15:59:01 2006 -0400

Add marshalling for GLX 1.3 requests.

Also, hook up glXGetDrawableAttributes and glXQueryContext to existing DoGetDrawableAttributes and __glXQueryContextInfoEXT.

commit e66e7b48e15543f3753951a19376f0446759963a
Merge: a9d4842893 eb35f812a5
Author: Ian Romanick <idr@umwelt.(none)>
Date: Wed Jul 5 15:21:36 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit eb35f812a5b65adcc5f6cbb91b31b69caae5d7f3d
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jul 5 13:27:26 2006 -0700

add another file to .gitignore
commit 863f5cc31b74771c9f2fcd6a9e20ce613a11733bf4
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jul 5 13:26:34 2006 -0700

fix compiler warning in hw/xfree86/common/xf86Config.c

commit f059b61ab3af25b03c704669eddb33b8c3e4366c
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jul 5 11:47:25 2006 -0700

fix compiler warning about xnestRecolorCursor() not being defined

commit cc3e99f747586f9d32622e5a682de39891b1fcb3
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jul 5 10:13:19 2006 -0700

fix some more compiler warnings due to defines being declared differently

commit 59836c0f2abee3339e1aa30d4a2db82e477943ed6
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jul 5 09:30:48 2006 -0700

fix wrong function pointer type in hw/dmx/dmxcmap.c

commit 12563db59dd613ecc926e3bed9534152ebc0a2f
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jul 3 12:52:27 2006 -0700

Revert "Optimize out computing a gradient pixel if the mask value is 0."

This reverts cf46242e337481cd3b9b39d77dd621d2a63b11f9 commit. It wasn't meant
to be pushed to master yet, and doesn't work.

commit 002e28c12c74aa6377f65c5b382c2bf0d6850
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jul 3 12:48:12 2006 -0700

Correct AGP memory deallocation argument on *BSD.

This fixes leaks and eventual crashes with RandR resizing on Intel.

commit cf46242e337481cd3b9b39d77dd621d2a63b11f9
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Wed Jun 28 18:35:59 2006 +0200

Optimize out computing a gradient pixel if the mask value is 0.

Obtained from: kdrive CVS (DavidR XGL fb/ megapatch)
commit a838fb70c52a829872680f6a2a2e7dd6d2dc9247
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jul 3 19:22:36 2006 +0200

    Bump server version to 7.1.99.2 for gradient and repeat fixes.

commit 25d871d98462f0481ee419295ddec94b8c79dc881
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jul 3 19:22:26 2006 +0200

    Fix source picture filter check for multiple screens.

    Now, we only check for filter commonality if we're operating on a source
picture, and we compare the id (screen-independent index of the filter name)
rather than the pointer to the filter (per-screen state).

commit 7106a77df37c06d2b5568ecee99297096bffa3137
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Sun Jul 2 12:41:35 2006 +0200

    Fix bugs in support for new repeatTypes in XAA and EXA.

    EXA now won't pass pictures with new repeatTypes to drivers. We can add a flag
for them to support it at a later time.

commit f5e92542a14f510293476e44af69144930b
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Fri Jun 30 12:03:47 2006 +0200

    Bug #7366: Fix crashes when setting filters on source pictures.

    Now, filters may only be set on source pictures when the filter is common to
all screens. Also, like SetPictureTransform, ChangePictureFilter is now not
called on source pictures.

commit 6ef457913955d4289081c7d07d528963ccf5272c
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Fri Jun 30 03:01:14 2006 +0200

    Bug #7366: Fix two crashes in operations on source pictures.

    A screen's ChangePictureTransform now isn't called when changing the transform,
as source pictures aren't associated with screens. Also, attempting to set
an AlphaMap to a source picture will fail with BadMatch just like a Window
would, preventing another crash.
Missing close parenthesis in one of the setuid() fixes.

commit 124a81eb389dfa510ac07ca93ee17e4c9d6e56ea
Merge: d3d6c5f4d0 179737d4a0
Author: Keith Packard <keithp@neko.keithp.com>
Date: Sat Jul 1 11:12:50 2006 -0700

Merge branch 'origin'

commit d3d6c5f4d05e0ca5b566e19657e0fe2b3898482a
Author: Paul Mackerras <paulus@samba.org>
Date: Sat Jul 1 11:10:18 2006 -0700

Bug #7381: Coordinates get wrapped in accelerated line drawing on pixmap

XAAPolylinesWideSolid was adding the drawable origin onto each element in the pPts array. Since the values got stored back into the pPts array, they got truncated to 16 bits, causing the overflow I saw. This patch avoids storing the coords back into the pPts array (and actually reduces the size of the code too :). Now the 32-bit sum of coords + origin doesn't get truncated to 16 bits, and the problem is solved.

commit 179737d4a07ed10a734fe017b5680f8e78ffda96
Author: Jens Granseuer <jensgr@gmx.net>
Date: Wed Jun 7 01:46:00 2006 -0700

Bug 7145: fix build with gcc 2.95 & other c89 compilers

Move variable declarations to start of blocks as required by c89

commit a9d4842893b65232d61fe4c63f074d30e81021d2
Merge: 66cac9b174 6bd4c25439
Author: Ian Romanick <idr@umwelt.(none)>
Date: Fri Jun 30 11:49:29 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit 6bd4c254396cb0f4e8ae21ff455ebb15cd9f4f110
Author: Martin Bochning <mb1x@gmx.com>
Date: Mon Jun 26 01:52:24 2006 +0200

Updated Solaris aperture driver to build on sun4v & amd64 kernels
Updated for Solaris 10 changes to DDI

commit 66cac9b17498497d939bf7a4075bcee5a485e5f
Merge: 7c4e540253 54d9acd511
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Jun 28 14:11:49 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit 54d9acd5113318274e291abab4554b8e678227df
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Jun 27 19:44:52 2006 -0400

Add damage tracking to GLX_EXT_tfp implementation.

- Only update when pixmap content actually change;
- Only update the regions that actually changed.

This is a worthwhile optimization, but it doesn't completely remove
the bottleneck, as mesa still uploads the entire texture whenever
it changes.

commit adfe8e7437ff739f54d1d074008e8cc0e3bcb4d3
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Tue Jun 27 21:49:00 2006 +0200

Bump server release to 7.1.99.1.

This will be important for a couple of cairo workaround tests.

commit 63c169e3b1f7d6a7375a414fcd50c32358a525
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Tue Jun 27 04:11:47 2006 +0200

Fix MMX Saturate implementation.

The code was expanding the source blend factor from the wrong channel. Fixes
cairo's clip-operator test.

commit 7c4e540253455f420cd2abaa7a40679689d3cb
Merge: 9d0a15dca5 ff6b59a0db
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Mon Jun 26 14:39:44 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver into pci-rework

commit ff6b59a0dbadbe61a53e48c23965d3073d95791b
Merge: b3c869304c 48c871564d
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Mon Jun 26 13:02:33 2006 -0700
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
requests to find out cleanly.

commit a195a3debca0f972d9f77a9976b5bf67acc5d08
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Sat Jun 24 14:54:52 2006 +0200

Fix byte swapping in some GLX requests.

commit bc6cfde19887ef7a07dc739f6a29609fb55b83d
Author: Eric Anholt <anholt@FreeBSD.org>
Date: Fri Jun 23 20:07:34 2006 -0700

Use correct OSNAME setting so we can find os-specific modules like libdrm.

commit c7ac485a59709572307b9a4a9abacc52c7021b65
Author: Eric Anholt <anholt@FreeBSD.org>
Date: Wed Jun 21 09:34:55 2006 -0700

Remove the default case from fbcompose.c switches which should cover all cases.

Instead, stick the NULL return default case afterwards, so that the compiler can
warn us when we've got unimplemented cases. Removes some unimplemented and
unused 8bpp, depth 4 picture format names.

commit 2cf1f39ca974e81a2f52df7509aa3d098a87176
Author: Eric Anholt <anholt@FreeBSD.org>
Date: Wed Jun 21 09:30:59 2006 -0700

Add a manpage for EXA.

commit 9d0a15dca56b14821cad474fd9c332acb3b1e6
Merge: 6c514ca14c d67fd10696
Author: Ian Romanick <idr@umwelt.(none)>
Date: Thu Jun 22 16:21:10 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Conflicts:

  hw/xfree86/loader/xf86sym.c

commit 6c514ca14c2326c2cf82b73196429789d11e4a01
Author: Ian Romanick <idr@umwelt.(none)>
Date: Thu Jun 22 15:51:16 2006 -0700

Use XSERVER_LIBS instead of XORG_LIBS for -lpciaccess. The former is
only for libraries that are built as part of the xserver build.
commit d67fd106968e371d88be3966ed5ecdd3c69f36e3a
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Jun 22 12:47:51 2006 -0400

Add kdrive servers to .gitignore

commit bf17c6dede1c0cf1edee10f2cc7e1e619b944d3a
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Thu Jun 22 12:24:09 2006 -0400

Drop libz from the server's link line, it was only needed for LBX.

commit c0cb8d1fb80540e093da54da3ee2f55bdf139274
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Jun 21 18:12:41 2006 -0700

Use XACE, not XCSECURITY to decide if SecurityLookup* are exported

commit 3177dc498a955cd58cd6054a7c7e69724db4a59b
Merge: 3f19803e0b 91dcac5295
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Jun 21 18:06:06 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 3f19803e0b1adc66e695f63f915b8dc85eb84215
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Wed Jun 21 18:05:51 2006 -0700

APPGROUP requires both X-ACE & XC-SECURITY now

commit 91dcac5295486ce55a34ad91704bfa483bd31eeb
Merge: d8135eb9e4 77c947b900
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Jun 21 20:49:30 2006 -0400

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit d8135eb9e414bf6957f64c5102ee0ef7c2404e6f
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Jun 21 20:49:21 2006 -0400

Unbreak unbreaking the loader. Re-add the symbol reference lists so that the linker will include everything it's supposed to. This is a terrible solution, but ld semantics don't let you do anything better.

commit f83cee0338eaca095ad601374a87775be823a2565
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:07:37 2004 +0000

Modify XC-SECURITY and XC-APPGROUP extensions to work with XACE

commit 15e9002d68a7eeb02a6db1f231af7a18a3cf7512
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 21 16:24:20 2006 -0700

Correct ifdef - should be XACE, not XSECURITY

commit 90af38fa0c46c2081d2becac262a614c26ba6ef1
Merge: 3e098efa35 77c947b900
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 21 16:23:31 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Conflicts:

Xext/appgroup.c

commit 3e098efa35ba70ad4d5699af3130a3b02e1cb06e
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 21 16:21:03 2006 -0700

Correct ifdef - should be XACE, not XCSECURITY

commit 77c947b900faf34f425eeef1549d8210c475e093b
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date:   Wed Jun 21 16:18:41 2006 -0700

Move Xserver internal API for appgroup from Xagsrv.h to appgroup.h

(Since all use is inside the xserver module, might as well keep the header
in the Xserver module instead of in proto/XExt to allow easier synchronization
of updates.)

commit aa131c51e06e735d7b54cadf51205f703a3de4ef
Merge: 1708b0c7d9 77aa701e89
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Jun 21 14:39:52 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 1708b0c7d962b80073500eb1c483447bbf965be9
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Jun 21 14:39:39 2006 -0700
Eliminate "ugly" spaces around parenthesis. Add const qualifier.
General code clean-ups.

commit a3c26d01a16e4ae20a5d1ac9d888e95760c3da1
Author: Ian Romanick <idr@umwelt.(none)>
Date:   Wed Jun 21 14:38:07 2006 -0700

Move declaration of "j" inside #ifdef block where it is used to
eliminate compiler warning.

commit 40aafaf154ba8a2ca857689d1481be2d4a610c2
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 21 14:36:09 2006 -0700

    fix a number of compiler warnings in os/*

commit 77aa701e898c6525322cc4029d95167dd9f6e618
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 21 14:16:48 2006 -0700

    add some function prototypes to hw/xprint/DiPrint.h as they are exported

commit 865884d050e1778180f7677e15f9ee1625ea4bb2
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 21 14:16:28 2006 -0700

    fix compiler warning in dix/xpstub.c when XPRINT is not defined

commit ed18d776f02e2ab235954501ef64936af9f9d909
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Jun 21 16:22:14 2006 -0400

    Fix #2488 for fb too: sample pixel center when transforming.

commit ea5e0eadbd1303a55d8fe10f44d21a3d371ce8919
Author: Matthias Hopf <mhopf@suse.de>
Date:   Wed Jun 21 17:08:51 2006 +0200

    Bug 4320: Fastpath corner case improvement for Composite.

commit 9af315a9be19b48faa1249e0575cbe3d1e31dec5
Author: Eamon Walsh <ewalsh@epoch.nsc.mil>
Date:   Wed May 5 20:07:37 2004 +0000

    Modify XC-SECURITY and XC-APPGROUP extensions to work with XACE

commit f68ecfa482b2c2037f929710310c7b9ce6fe9291
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Jun 20 19:01:34 2006 -0700

Add X-ACE to build system

- Added --disable-xace to configure.ac and issue configure error if trying
to build XC-Security without X-ACE
- Added XACE #define to dix-config.h
- Added X-ACE sources to Xext/Makefile.am

commit a46c06dab8392cf8012c7cc0b916de9a9e569671
Merge: 49b368c0bb d44b2a0a57
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Jun 20 18:40:18 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Conflicts:

    Xext/appgroup.c
    Xext/security.c
dix/devices.c
dix/dispatch.c
dix/dixutils.c
dix/events.c
dix/extension.c
dix/property.c
dix/window.c
    os/access.c

commit d44b2a0a57fb89741173c31676af0ccc822387de
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Jun 20 18:22:51 2006 -0700

Move Xserver API for security extension to securitiesrv.h

commit a54435946544a039fc333bb5e3438501d0d1fffc6
Author: Alan Coopersmith <alan.coopersmith@sun.com>
Date: Tue Jun 20 18:14:27 2006 -0700

Move Xserver API for security extension to securitiesrv.h

commit 49b368c0bb04816c4a3579071c596b2398cae3ec
Merge: 63f6e6bbfd 481d4012e7
Author: Alan Coopersmith <alanc@alf.(none)>
Date: Tue Jun 20 16:22:39 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver
commit 481d4012e74d9b0e98911f0ae02700ecf4cfc5ac
Author: Alan Coopersmith <alanc@alf.(none)>
Date: Tue Jun 20 16:16:19 2006 -0700

Don't add -ldl to XORG_LIBS if it's not needed for dlopen

commit 63f6e6bbfd0d3677e29621af982e9392ead98dd7
Merge: 88ede2cec7 6df52fb774
Author: Alan Coopersmith <alanc@alf.(none)>
Date: Tue Jun 20 16:03:34 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 6df52fb7745c185c0168060f69cc6b4f5315914e
Author: Alan Coopersmith <alanc@alf.(none)>
Date: Tue Jun 20 16:02:55 2006 -0700

Delete code that's been inside #if 0 since X11R6.7.

commit 75398cff82b56c0a8fc301e84e2087f59a61a360
Merge: 1f91b5726c 2b58685402
Author: Ian Romanick <idr@umwelt.(none)>
Date: Tue Jun 20 15:49:47 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

Conflicts:

 hw/xfree86/loader/Makefile.am
 hw/xfree86/loader/xf86sym.c

commit 88ede2cec79281a43cecb43ee6dec65770f82530
Merge: 227a319340 2b58685402
Author: Alan Coopersmith <alanc@alf.(none)>
Date: Tue Jun 20 15:29:55 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 227a3193405147fbbee2971cc15bac92cc13285a
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date: Tue Jun 1 21:09:25 2004 +0000

Add XACE extension source files.

(Copied from XACE-SELINUX branch in Xorg monolith CVS since these were never imported to modular cvs or git trees.)

commit 1f91b5726c721778de0627c0139100744db06934
Fix a compiler warning about variables being used without being set.

Add some const qualifiers.

Remove some "ugly" space around parenthesis.

commit 2b58685402e70f123e131fd8146e6083ff5214a4
Author: Matthieu Herrb <matthieu@deville.herrb.com>
Date:   Tue Jun 20 21:07:53 2006 +0200

Check setuid() return value. Bugzilla #7116.

commit 4365d16c8629e824973ee0c357efdfbd28b672c
Author: Kristan Høgsberg <krh@redhat.com>
Date:   Mon Jun 19 22:13:22 2006 -0400

Pull over convolution filter fixes from xgl-0-0-1 branch.

Cherry-picking patches:

8a5ea68800b9d7dca90ff4e573ad8533852f1ea3 and
4d755fe14274a7293748ce9aa666ab85df6297c5

commit f818e0ab60da3779ab2602c6e63ff261b50917e
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:07:37 2004 +0000

Modify XC-SECURITY and XC-APPGROUP extensions to work with XACE
(cherry picked from 0106715000196c7b349a0b4494b61545f05e138 commit)

commit 0707eb33d6826e1300a905edea28c12134600b12
Merge: 37f0ae0245 98d17bba71
Author: Alan Coopersmith <alanc@alf.(none)>
Date:   Mon Jun 19 17:09:51 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 37f0ae02457bd22b27f8f30a373e5cb19f2fbaea
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:04:52 2004 +0000

Replace XC-SECURITY code with XACE security hooks
(cherry picked from 8526cd6395490b03b279f1962df777fb0e4a9878 commit)

commit 98d17bba716619e3402bd74c7c3e1c01d055ef6e
Tell git to ignore emacs *~ droppings and git .msg files

commit 569c808a2375be71f835ee8693605487484bd22e
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jun 19 16:42:09 2006 -0700

Fix crash when using PICT_x4a4 by supplying an appropriate fbFetchPixel_x4a4.

commit 8d9cc90a54c786ca4ba5620ab0a965e3f3bc8ea
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:15:41 2004 +0000

Add XACE extension
(partially cherry picked from 8d4f21ab53c44ca48501d6211ea6db0e0b8af916 commit)

commit 55426650417df4ec22ea0e2a67f6074f0ac1d54e
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jun 19 15:04:46 2006 -0700

Clean up gcc warnings from picture format CARD32 -> enum change.

commit 520c80f4b807ae6419e70fe2b524532465b509ac
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jun 19 14:40:27 2006 -0700

Don't forget to step the rows when verifying the equivalence of fb/sys areas.

This is only used by fakexa, but we would have missed some errors without this fix.

commit e793f0eeeee3e9c83b6a7b50d451fb6db12839087
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jun 19 14:06:02 2006 -0700

Correct component ordering when fetching [ax]4b4g4r4 pixels.

Noticed by: rendercheck

commit e1672a12eb70836a2ceec803d505294897ae8cd2
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Mon Jun 19 13:20:56 2006 -0700

Convert PICT_* names from #defines to an enum to aid in debugging.
update .gitignore to handle Xprint move

commit d97a21ac8788bc4e5e6542912fb820503bba312
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 14:40:14 2006 -0700

fix compiler warnings in hw/xfree86/i2c/fi1236.c

commit 29c78321e86956c4ce0c1e899d82557f927e04da
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 14:36:54 2006 -0700

fix compiler warning in hw/xfree86/i2c/tda9850.c

commit 9f2793551f335e5fb08990fc8bb9e05e0ff6b68d5
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 14:36:41 2006 -0700

fix compiler warning in hw/vfb/InitOutput.c

commit b20ae5dd7b7682bafeec6f8bf0e8208a3f70882b
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 11:38:52 2006 -0700

fix compiler warnings in hw/xfree86/xf4bpp/ppcGC.c

commit 4d258f31967141e3c4a6e4abbeff89f7a717e85aa
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 11:27:47 2006 -0700

fix compiler warnings in XTrap/xtrapdi.c

commit 870eeeb72c2caba44d64eb202917453603c8f287
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Mon Jun 19 11:22:42 2006 -0700

fix compiler warnings in XTrap/xtrapdiswp.c

commit a28652f9c35fbc009245382a5cc2a022f42366fc
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date: Mon Jun 19 00:57:18 2006 -0400

Another round of loader sense-beating. Remove the (unused) server export lists, a really bad hash table, the last vestiges of the other backends, and some miscellaneous cleanups. Good for dropping 300k from the size of
the built server on x86.

commit 98a602fab1f307a07a96868d7dae12b6f8d7f405
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Sun Jun 18 23:54:04 2006 -0400

Don't bother building RAC as a module, that's just absurd.

commit 76aa7eae7409162c5ed2963f2e27d019cb30263
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Sun Jun 18 19:47:29 2006 -0700

Add a couple of (doxygen) comments I wrote while looking at modesetting.

commit 6aa0c581b06f7c3e56f863a26cd9d684eb9c0
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Sun Jun 18 19:12:15 2006 -0700

Add options to disable EXA acceleration for Composite/UTS/DFS, and always print
out how much memory EXA is managing for offscreen pixmaps.

commit 21ef7e17ef6dca177461e9438b9df707a4d664a2
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Sun Jun 18 18:57:55 2006 -0700

Add some missing .gitignore stuff for Mesa symlinks and other generated files.

commit 71fbda8049f64c7feae8ab817fb5f37ee2ee134
Author: Adam Jackson <ajax@theobromine.nwnk.net>
Date:   Sun Jun 18 21:07:28 2006 -0400

Xprint/ -> hw/xprint
XpConfig -> hw/xprint/config

commit 868e2cab706e317618646b0559d4e68c7b32
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Fri Jun 16 10:17:51 2006 -0700

Add explicit dependencies (Xorg_DEPENDENCIES = ) on the internal libraries
(such as libcw.la) that we link into the server, causing it to be rebuild
automatically when they're updated. Some system libraries are included, but
don't appear to cause any harm. You would think this would be automatic...

commit 53f74b6a95fe57fda45f8a051595e772f00402
Author: Eric Anholt <anholt@FreeBSD.org>
Date:   Fri Jun 16 10:14:30 2006 -0700
Bugzilla #5120, #7246: In CW's GC ops, validate the backing GC against the backing drawable if the serial numbers differ. Fixes crash in XAA which occurred when the DDX bumped the serial number on the backing drawable and expected it to get re-validated, and we didn't because the wrapped drawable hadn't been bumped.

commit 72ac20c0e878ad48ff61f7e846cbf1005a4eb435
Merge: fc3e81473a b90088321e
Author: Ian Romanick <idr@localhost.localdomain>
Date: Tue Jun 13 21:13:02 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit b90088321e6ef84970aa97d7c851af93f49bf4b7
Author: Ian Romanick <idr@localhost.localdomain>
Date: Mon Jun 12 15:22:31 2006 -0700

Add arrayobj.c to the Makefile as well.

commit f9f33b72e34eaecceea2a20f4a3dd68c2dbe9c90e
Author: Michel Dänzer <michel@tungstengraphics.com>
Date: Mon Jun 12 20:19:11 2006 +0200

Track per-drawable damage to minimize UTS and DFS transfers.

Based on work by Eric Anholt.

commit 6060b612de641f872d034c6130770c1d189d0a3
Author: Eric Anholt <eric@anholt.net>
Date: Mon Jun 12 20:12:31 2006 +0200

Provide option to report damage after operation is complete.

commit fc3e81473a98d3b932faaa73c0c01c21366a48a9e
Merge: 4bedaad17d 041ef23192
Author: Ian Romanick <idr@localhost.localdomain>
Date: Mon Jun 12 09:41:06 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 041ef23192b193b87f6cfc3e74e2e77f9f47cd4b
Author: Ian Romanick <idr@localhost.localdomain>
Date: Mon Jun 12 09:39:18 2006 -0700

Add new Mesa files arrayobj.c and arrayobj.h.

commit 4bedaad17dc75dfbada91f47e1007a8c090300a9
Author: Ian Romanick <idr@localhost.localdomain>
Add new Mesa files arrayobj.c and arrayobj.h.

commit 4e3c9ab8e90d474a2224dbfa0807bc01fc012f7c
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Fri Jun 9 16:56:54 2006 -0700

Remove some static declarations for things that were removed in
previous commits.

commit 8b6596b1e1864dd79a3c53ee3ceb7a8e9bdb6ec7
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Fri Jun 9 16:08:06 2006 -0700

Move probe_devices_from_device_sections,
add_matching_devices_to_configure_list, and check_for_matching_devices
from xf86Helper.c to xf86Init.c. These functions are only called from
a single place in xf86Init.c, so it makes sense for them to live
there. They were originally in xf86Helper.c because they evolved out
another function that was already in that file.

commit 7810d87cd6ae9316d88f6a2e7696de8837cec27
Merge: dcfa9f4f8 caad8b724b
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Fri Jun 9 15:16:50 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit caad8b724b97074e41de447fe77dda189f287a26
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 11:24:57 2006 -0700

fix compiler warnings in record/set.c

(note this only fixed up the function definitions for the static functions
which can not cause any abi incompatibility)

commit 51489bb5ed86cb6aa07e26a13618765c29f913e4
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:59:47 2006 -0700

more .gitignore updates

commit c4d251bd3e88cf8ddf6872537dbe30c07344b196
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:46:18 2006 -0700
updated .gitignore with more pre-generated files

commit 9f31ef83be61a900c701fcbe9a43ffae40ca7005
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:44:46 2006 -0700

    fix compiler warning in hw/xfree86/loader/loaderProcs.h

commit 490ffe205a7714145cac0c63efeb6374ea28141f
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:44:25 2006 -0700

    fix compiler warning in hw/xfree86/loader/loadmod.c

commit 6119845d1ff832ea2b7e9cbe7ed6c6637cdcf305
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:14:08 2006 -0700

    fix compiler warnings in hw/xnest/Keyboard.c

commit 1a7335ff932baa59a3283c50dd6007d81989b7e3
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 10:02:08 2006 -0700

    remove unneeded externs from Xprint/ps/psout.c

commit 9583859d538394e98ac1f38b8e6f0997e321621d
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 09:59:22 2006 -0700

    remove unneeded "extern" in Xprint/ddxInit.c

commit cb9e29c184474edd75645c3b52e22a097a242e40
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 09:54:50 2006 -0700

    removed unneeded extern in Xprint/ps/PsWindow.c

commit 96c19a3ec1b7e43782d373b8015fa0ca24eb4f5b
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Fri Jun 9 09:51:28 2006 -0700

    put function prototype for ShapeExtensionInit() in proper place

    based on FIXME in mi/miinitext.c

commit dfc9a9f4f8f1b0b75be509a49cc8d88caf6d0f6a
Merge: af9afe4cc5 576e6fb112
Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 576e6fb1124a47493371210adf99d6f2076e72c5
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jun 8 17:49:02 2006 -0400

Bug #7120: Multimonitor (non-Xinerama) support for xwin servers.  
(Tom Whittock)

commit d42cf4a2a4980fdd29fb15c4fd8fddd67b36256
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date:   Thu Jun 8 17:46:53 2006 -0400

Bug #7121: fix clipboard handling in Xming (Colin Harrison)

commit af9afe4cc50df973bea2293a803f7dfdefaa6411
Merge: caffac3843 3930da3f62
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Thu Jun 8 11:37:09 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 3930da3f6209312dd0f10aba0b16ef45996a07fe
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Thu Jun 8 11:27:29 2006 -0700

fix compiler warnings in Xprint/ps/psout.c

commit c496a3b9c981dc079fccc6c0ac4d3aa912b3dcf1
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Thu Jun 8 11:23:53 2006 -0700

fix compiler warning in Xprint/ps/PsImageUtil.c

commit ea24b5a25c2544f3b3de6480da125ed23a6b3a9
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Thu Jun 8 11:22:01 2006 -0700

add proper function prototypes for Xprint/ps/PsCache.c to Xprint/ps/Ps.h

commit ee2bb4d1929e20436cf0e830e3ce02fe07db2d524
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Thu Jun 8 11:15:34 2006 -0700

fix compiler warnings in Xprint/ps/PsArea.c
commit 92303d534a91eb0ea30e4cd0f639ef70b9739b4
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 11:12:16 2006 -0700

fix compiler warning in Xprint/ps/PsGC.c

commit cf6169f9e99e6ab264f284cfa13c379b3620f7
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 11:09:56 2006 -0700

fix compiler warnings in Xprint/ps/PsFonts.c

commit 1abc796ed937a1e2c766b9edba7fc9b2eb06b19
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 11:06:51 2006 -0700

fix compiler warnings in Xprint/ps/PsInit.c

commit 2dc291384c550baf55542ae645240e166676848
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 11:04:40 2006 -0700

fixed compiler warnings in Xprint/ps/PsPixmap.c

commit aef092e0290143c2b8b1cb98fd55c9630032aaf
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:53:17 2006 -0700

fix compiler warnings in Xprint/ps/PsPolygon.c

commit 511b231ded6159ebd70cab020ca1ca03fd0784
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:41:34 2006 -0700

fix compiler warnings in Xprint/ps/PsPrint.c

commit 35fccb0068e8d73d1e6a16aefdc771506e620f83
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:40:24 2006 -0700

remove some compiler warnings in Xprint/ps/PsText.c

Note that one of the existing warnings is pointing out a real bug (uninitialized use for fontPage in PsPolyText16()) if anyone really cares about this code.

commit caffac38432009e8dc01e7d3e72a7fa6fba2f078
Merge: c5b3aa120b 9fa73721f0
Author: Ian Romanick <idr@localhost.localdomain>
Date: Thu Jun 8 10:38:43 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 1ac30947f4a222ba78558eddf8e5f03cec31f613
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:35:18 2006 -0700

fix compiler warnings in Xprint/ps/PsWindow.c

commit 9fa73721f0c3df73e508da909a5665f47a54cb57
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:27:28 2006 -0700

fix up EnableDisableExtension() and EnableDisableExtensionError() prototypes

commit c405659626477f2009603d8c0e381b8b62277bb6
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:19:24 2006 -0700

comment out QualifyName in Xprint/Init.c which is not used anymore

If someone else wants to delete this function, that's fine with me too.

commit a940b851faba569e36983f7885aef721bf2ade
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:17:53 2006 -0700

fix function pointer warning in Xprint/Init.c

commit 9e0c82386ae389bccc296a5ad4e996790b033ad3
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:16:37 2006 -0700

fix already-defined warning in Xprint/Init.c

commit 40fb7eeecaf14a76f35ac2dc350ad2ffdadf6e0d0
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 10:11:17 2006 -0700

fix noDamageExtension warning in Xprint/Init.c

Also took out duplicate definition of this variable in mi/miinitext.c

commit 494895e0fbf0a71bcb535c0a2358c9db54c95c5a
Author: Greg Kroah-Hartman <gregkh@suse.de>
Propperly define dispatchExceptionAtReset to fix compiler warnings

commit d90eece40c768b2bf6340f15bb0af9dab2f3cf3
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 09:11:41 2006 -0700

add some missing function prototypes to Xprint/AttrValid.h to fix compiler warnings

commit bccde1609153dee93f6fe5a138fc0c0f2fe08212
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 09:01:59 2006 -0700

fix incompatible pointer warning in Xprint/ddxInit.c

commit 60bd8893d50ed1da9b94f4b96a07ea432e23f467
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 09:01:21 2006 -0700

Properly #ifdef out ddxBeforeReset() to fix compiler warning

commit ac21e6a594eae69101aa8920d70a9d60412b57f6
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Thu Jun 8 09:00:42 2006 -0700

remove unused variable warning in Xprint/ddxInit.c

commit 71dd44b0ad617dd36ce4ed328f9e1e8c5ef713a5
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 19:17:26 2006 -0700

Fixed up most "warning: function declaration isn't a prototype" warnings from Xprint/

commit 839305bac98856a22bb1d96691e44dcf49db229f90
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 19:12:23 2006 -0700

Remove unused variables from Xprint/attributes.c

commit c5b3aa120bf96ee169d07c33a2698499944a1624
Author: Ian Romanick <idr@localhost.localdomain>
Date: Wed Jun 7 17:46:23 2006 -0700

Added a comment about some suspicious code.

commit 50112dfcc82dd476727fa453b9e3d1852e06d678
Author: Ian Romanick <idr@localhost.localdomain>
Fixed severely broken calls to pci_device_find_by_slot. I mis-read the tag bits when I originally coded it. I mistakenly thought that the original code masked off the PCI function bits, so I just always passed 0 as the function. That was a mistake.

commit f9e7128d948a0b62e6f03295305e0080d9233fd8
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Wed Jun 7 17:44:06 2006 -0700

Added missing include of Pci.h. This caused the server to terminate when the symbol PCI_DOM_FROM_TAG couldn't be resolved at run-time.

commit 23182315f34e3a0065739b43b15d4560e75b41a1
Merge: bc05158a5a 757f40fca5
Author: Ian Romanick <idr@localhost.localdomain>
Date:   Wed Jun 7 17:03:48 2006 -0700

  Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 7a40ac2585028860730ffcd333eb3fe9de63680c
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 7 16:23:45 2006 -0700

  remove a bunch of unused variables in Xprint/Init.c (fixing the compiler warnings)

commit 163980138cc0bfc9124456781b3dc45a49e2a129
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 7 16:11:20 2006 -0700

  remove some unused local variables in Xprint/Oid.c

commit 8e41640db884a4633b598d0a52b269e6547c8bf0
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 7 15:56:43 2006 -0700

  add bison generated files to .gitignore

commit 78f4ab6b89fca3086b9c9471b40c11c23fbb6142
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 7 14:12:40 2006 -0700

  Fix compiler warning about undefined ReinitializeRootWindow function

commit 757f40fca50a99377e437949ee77b983c8cd6087
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date:   Wed Jun 7 14:09:13 2006 -0700
updated the .gitignore file with more auto-generated files

commit bc05158a5ab00c548e4b04b5638afe07bc702260
Merge: 46f55f5dea cc465800dd
Author: Ian Romanick <idr@localhost.localdomain>
Date: Wed Jun 7 14:09:12 2006 -0700

Merge branch 'master' of git+ssh://git.freedesktop.org/git/xorg/xserver

commit 46f55f5dead5d70cddf30531d80a72f6be042315
Author: Ian Romanick <idr@localhost.localdomain>
Date: Wed Jun 7 14:09:02 2006 -0700

Initial batch of changes for PCI rework. All future changes will be tracked individually.

commit cc465800ddca5fb6c9ecc09fdafa8f1f05359cf396
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 14:03:35 2006 -0700

Fix compiler warnings about SetVendorRelease and SetVendorString

commit 785c9789704ed142fe98cd17b5995e4a95b7141f
Merge: 21ebcfd702 36d786e9f0
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 13:20:21 2006 -0700

Merge ../xserver

commit 36d786e9f051c5c95c1cc8c098c84e118ed3cc85
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 12:47:50 2006 -0700

add more files to .gitignore

commit 8f5aa38abf1158a789b5528df9d98826342e30cf
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 12:33:44 2006 -0700

fix compiler warning about XKB_IN_SERVER redefinition

commit 101ae616962c355388722e05ab8413eb5f5c3402
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 12:06:22 2006 -0700

Add PanoramiXExtensionDisabledHack to globals.h as it was missing.
commit e5b72bd9e6fb06640a5de4031be0dc9b04b4b215
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 12:05:39 2006 -0700

Remove 3 compiler warnings in the Xext/xevie.c file

commit e3c11f66516521959127b9ab8fd88cc4c954f5bb
Author: Greg Kroah-Hartman <gregkh@suse.de>
Date: Wed Jun 7 12:05:01 2006 -0700

Added first cut at a .gitignore file to make using git easier.

commit 21ebcf7d7027b2a6182d4065e56a2ef81f5181ae
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Jun 7 14:17:31 2006 -0400

Demolish now-unused loader functions.

commit f90761b06ea5fa44fe85289e54eed5f47eff3b9
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Jun 7 13:58:24 2006 -0400

Add a token for EDID-supplied modes.

commit d00aa6b88559d3e5f70c6558ce0abd12f7d758491
Author: Adam Jackson <ajax@benzedrine.nwnk.net>
Date: Wed Jun 7 11:44:36 2006 -0400

Delete a (now misleading) message from the crash handler.

commit f8535edec736cf19740bd41ed2adfe531f2c26ac
Author: Keith Packard <keithp@neko.keithp.com>
Date: Tue Jun 6 10:29:34 2006 -0700

Remove ChangeLog file.

commit 8444bb77c91cf8a23d32b3cc9749e2a3d3f9f9eb
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Jun 5 20:22:06 2006 +0000

When we can, bound the maximum number of PCI devices to attempt to scan, by
the number found on the system. Only implemented for Linux right now.

commit 11cf4d2fde9219e8d6ca427aca89a0c9f5d71b1
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 5 07:15:23 2006 +0000

Update AC_DEFINE_DIR to version compatible with CVS autoconf which requires
double eval to avoid leaving $[prefix] in output

commit 52fc7c8dc70226cc7f03454e9be866a627672295f
Author: Adam Jackson <ajax@nwk.net>
Date:  Mon Jun 5 03:00:24 2006 +0000

Ensure all *ModuleData symbols are marked _X_EXPORT. Start removing
XFree86 LOADER ifdefs, non-loadable hasn't been supported for a while
now. Remove completely gratuitous REMOVE_LOADER_CHECK_MODULE_INFO
ifdefs surrounding a call to a function added in XFree86 4.1 (!).
Miscellaneous static markings.

commit d22582dc5a070f72d4653e24d1e4ebe4a112276e
Author: Adam Jackson <ajax@nwk.net>
Date:  Sun Jun 4 16:13:26 2006 +0000

Remove a stray LBX reference.

commit ddc6b99505e227f99585b8c2392da524022a73e6
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Jun 3 11:24:33 2006 +0000

Bump to 1.1.99.2.

commit 4fd668940f2155c4b06d24b6da8bccccdf01f66f4c
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Jun 3 10:58:37 2006 +0000

Bug #6619: Fix disappearing hardware cursor. (Colin Harrison)

commit ee71cb61f8da29bca2b1c6e4b199d629c34f89b119
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Jun 3 10:54:38 2006 +0000

Bug #6956: Fix crash when removing session leader before its children.
   (Rich Coe)

commit cd384af3058fe15077c57ecdefed3b61e261e7f
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Jun 3 10:50:23 2006 +0000

Completely remove relocation pointer table.

commit 8e8c6faecdbbe014d8760822e1f705b43a00fa33
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Jun 3 10:48:37 2006 +0000

Add support for kFreeBSD systems. (Robert Millan, Aurelien Jarno)
commit 5b703f847d166176920077c1e6ba1d9559fc8481
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jun 2 12:05:32 2006 +0000

    Fix type confusion.

commit 56f21bda1ce95741c88c423b60bd709eef26eb12
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 22:30:52 2006 +0000

    Bug #6583: Only open /proc/bus/pci/devices once. (Bill Nottingham)

commit a9ed5a87902a839a5a135af03db78f113b18bd86
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 22:06:41 2006 +0000

    Kill LBX, too.

commit df6da66525836d515f408a82f1a13ca5251ff07
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 20:56:39 2006 +0000

    Simplify the unsupported XI function list.

commit 97203f1cf6e5b7c6389f69cbb1b75ac675d09531
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 20:41:21 2006 +0000

    Clean up a warning, and remove excess multiple-suffix code.

commit 6d594ebc667afdd404556ec3e108c810946b20ac5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 20:22:39 2006 +0000

    Ditch more alternate-loader braindamage.

commit c9468177486833d521ec62c7b0266b4be8200de7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jun 1 20:18:30 2006 +0000

    Kill a.out, COFF and ELF loaders with FIRE.

commit a3a4221495dfe4cc0a3874a08dd5364ef45a7f2e
Author: Adam Jackson <ajax@nwk.net>
Date:   Thu Jun 1 19:53:06 2006 +0000

    Add bitmap to the ignored module list.
Ignore requests to load GLcore and speedo.

Bug #5089: Die, libbitmap, die!

Remove horrendously ugly DDX backward-compatibility.

Forgot to remove this one too.

Die XTESTEXT1, die!

Powerpc machines also need ioperm noop.c

Properly document the DPMS, SyncOnGreen, and TargetRefresh options.

Remove superfluous definition of tfp tokens.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

commit fd8bde8bb0f9d796b3464973b53285c0a6d22a31
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon May 29 11:14:03 2006 +0000

Remove -xkbmap argument.

commit db0680cf70b8367e1f8a7fff9c0f6ec414db0542
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon May 29 09:26:32 2006 +0000

Minor #include cleanups.

commit c38aab293a06f43c04f14223f94f822d91d73396
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat May 27 23:15:05 2006 +0000

    check buffersize before reading next char, fixes the "mouse stuck at left"
    bug (bugzilla #3113) for BSD systems using wscons. (Dale Rahn).

commit 2102fdd0a58e18aeeaa842b2ecc73b6071970fafb7
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Fri May 26 00:12:18 2006 +0000

    RGB color database and XErrorDB install to "share" not "lib" by default (by
    app/rgb and libX11).
    TODO: They are customizable, so maybe cpprules.in should be extended.

commit 354086d7e7e13fc7acbcc6603ca2a03c8cc806ee
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Thu May 25 23:32:33 2006 +0000

    Don't do fixup_video_driver_list if no drivers. (I had signal 11 and core
    dump when drivers not installed yet.)
    TODO: fix fixup_video_driver_list to handle NULL argument.

commit c6b1clf43238deded11dc58945778aec3d844598
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Thu May 25 13:27:42 2006 +0000

    update to build against Mesa CVS HEAD (Carlos Eduardo Rodrigues Diogenes).

commit 99724c16c9c58eb3e20ba91c79464747b8ee3fcf
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Thu May 25 10:14:39 2006 +0000

    typo
commit 5c7aef148de23f39027fda647bbb53bb5b992683
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Thu May 25 09:57:47 2006 +0000

Don't destroy a pixmap twice on server exit (bugzilla #4247).

commit 693079442377daa2dc48bf318a0d7dd256cb2738
Author: Jeremy C. Reed <reed@reedmedia.net>
Date: Wed May 24 22:58:03 2006 +0000

NetBSD also has curses.h instead of ncurses.h. (TODO: Maybe instead of checking for SCO, UnixWare, Sun SVR4 and NetBSD, the curses.h versus ncurses.h should be tested in configure.)

commit 9477e5e0be04f4f6fa311de8b3693fb8a082fbf
Author: Jeremy C. Reed <reed@reedmedia.net>
Date: Wed May 24 22:43:13 2006 +0000

On NetBSD, add -li386 for i386 and -lx86_64 for x86_64 to SYS_LIBS. (x86_64 on NetBSD not tested.)

commit b3031532ca96b22e81863202efb8bbcb9d701fac
Author: Jeremy C. Reed <reed@reedmedia.net>
Date: Wed May 24 20:11:38 2006 +0000

Remove tolower() which was missed in the _XkbStrCaseCmp/strcmp changes.

commit eb696f72a0819edef550bce9ff55730c02f70452
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue May 23 16:17:09 2006 +0000

Add AC_SUBST([SOLARIS_ASM_CFLAGS]) that I forgot when splitting them out of the XORG_CFLAGS.

commit bc0c56c407117d1545e20d21f7d30eb3472d618b
Author: Adam Jackson <ajax@nwk.net>
Date: Mon May 22 15:47:56 2006 +0000

Bug #6924: Restore the ABI for DrawableRec and ColormapRec to the state they were in prior to the fix for #6438. Based on a patch from Andy Ritger.

commit cc3b882bd141218052cdde0144fc2a707c0ee83d3
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat May 20 00:55:44 2006 +0000

Update to 2006-05-19 snapshot
Remove entries now present in pci.ids
Regenerate from updated pci.ids & extrapci.ids

commit 0b2c2b6bba5b578d5f0ac2d709d5d2ce7cb32bef
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri May 19 20:29:47 2006 +0000

Remove dead DPMS timer functions from the installed headers. (Fredrik Höglund)

commit deebf6bd51117c01a3217f134bd952481b9e41ab
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu May 18 23:52:51 2006 +0000

Bug #4139: Fix a BAR remapping bug that could lead to IERR and system hang.
    (Egbert Eich)

commit 91239d83f4e27835cf871348b5ff6c892bd4f4f4
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu May 18 23:52:41 2006 +0000

file getemptypci.c was initially added on branch server-1_1-branch.

commit c11cfcfaeffc79be5686e666f881c4c08f69e1b86
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu May 18 23:48:57 2006 +0000

Bug #6377: Ignore disabled BARs, and allow matching BARs aligned to less
    than 16 bytes. (Felix Kühlk, ATI)

commit fa9a49a92db52de968d7147c71c6b9a8fd480f1e
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu May 18 23:48:57 2006 +0000

Bug #5877: Avoid burning CPU when acpid dies. Require acpid to be running
    for ACPI support on Linux. Minor errno handling fixes. (Valery
    Inozemtsev, Adam Jackson)

commit 7893dad2b2f6d2f18a4f4ea30a41c1aa9838da1f0
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu May 18 14:39:59 2006 +0000

Bug #6827: Fix texel fetch in fbFetchTransformed to avoid crashes. Still
    not 100% correct, but better than 7.0. (Radek Doulik, Matthias Hopf)

commit 2892dd6d2e34957650ef1630a94d471dfa71f888
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed May 17 16:20:03 2006 +0000
Make Xv symbols conditional. (Enrico Wiegelt)

commit a317bf482257f0e1b612dec7961fda564f0b9f2
Author: Daniel Stone <daniel@foohishbar.org>
Date:   Wed May 17 15:00:18 2006 +0000

Make DBE support conditional. (Enrico Wiegelt)

commit 321dbed5f5a857a23525167ab85d4d7699429132
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon May 15 18:27:18 2006 +0000

Bug #5209: Fix APM/ACPI support, again. (Michel Dänzer, Valery Inozemtsev)

commit dd38d3bd673cf830c2cd591fe1245909aa729892
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun May 14 16:22:24 2006 +0000

Don't use AM_CONDITIONAL inside shell conditionals. Bugzilla #6916.

commit 6558ba4e62da99f2a4d830f1c168f1d1c255b316
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Fri May 12 21:53:28 2006 +0000

Fri May 12 17:51:26 2006 Søren Sandmann <sandmann@redhat.com>
Keep track of the previous item and update its next pointer when deleting
from the linked list.

commit 9e239a0df7ededb50de091e5271cbfdd2b683c3
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu May 11 11:23:43 2006 +0000

Bug #5796: Wrong fastpath selection for repeating sources.

commit 9db5d2dfc33e384ea4db1b7cbe377e0b05cfd3ff
Author: Matthias Hopf <mhopf@suse.de>
Date:   Thu May 11 10:18:08 2006 +0000

Bug #4320: Improved XAA Composite fastpath.

commit 9a2a63ca3ff30d15e82a29e75a3720ba5b446978
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed May 10 15:44:27 2006 +0000

Bug #3561: Crash fix in the Record extension. (Paul Anderson)

commit ab1a0249ba5e3174f18a1db212bc511fd7d74cb0
Author: Adam Jackson <ajax@nwk.net>
Bug #6867: Yet another Render crash fix. (Michel Dänzer)

commit 24310f827b71009c7510a674d2f92ced89847e37
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue May 9 18:12:50 2006 +0000

Revert accidental commit

commit 86ff846358965509aa3ee536f15cb5a4e5e04426
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue May 9 18:04:29 2006 +0000

Bug #5209: Re-enable building APM and ACPI support. (Michel Dänzer)

commit b46d6a44fa97a3e66de828385026b7f84d9e59b8
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed May 3 23:45:16 2006 +0000

Make Xephyr build on Solaris:
Add #include <sys/file.h> on Solaris for FNONBLOCK/FASYNC definitions
hw/kdriver/linux/Makefile.am Move agp.c & agp.h to KDRIVE_HW_SOURCES since
they're not needed for Xephyr-only builds
Add -lrt to XEPHYR_LIBS if needed to get nanosleep().

commit fc91ca069dd55490b99b096f029e0864b049120c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed May 3 17:50:10 2006 +0000

Redact a few mentions of speedo font support.

commit b9a9cf618566bddd796556b8a1f3194f66184352
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue May 2 14:09:30 2006 +0000

Typo in ALLLOCATE_LOCAL() arguments, causing mis-computation of the buffer.
Bugzilla #6642.

commit 1e8a594957d84a37e66183e9c0cb9d42b62bd8b24
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue May 2 01:37:25 2006 +0000

Fix Solaris build with Sun compilers to work when exa is built before
hw/xfree86/os-support/solaris (as it is by default now).

commit 724d8bc2f8be2f21bf16f20ca7b8ba555516626c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Use min() [defined in include/misc.h] instead of MIN() [not defined in any Xorg header].

commit ad124742ae2a265a54a4a7ac91709ec6fd6ced34
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Apr 30 20:33:27 2006 +0000

Remove stray mfb/cfb references.

commit 291e89d4f2a4bb3177b2dfe6421680e23f120b8e
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Apr 30 19:16:14 2006 +0000

Remove NEED_LINEHELPER BC cruft for pre-R6 DDXes.

commit fdcacc5a4bcb1d6cb7347fc66041a9ec686c5c74d1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Apr 28 03:27:12 2006 +0000

Add Polylines and PolyPoint acceleration as well. This is primarily to clean up fallback debugging output, so I can focus on more important cases. Performance is comparable but without hardware stalls, and passes Xlib9.

commit 005529a1e9e9e78f06565d0f081f03b74988081e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Apr 28 03:26:30 2006 +0000

Correct some bugs causing performance issues in the "Smart" scheme.

commit 8738bc295bba229e36d064713e0c28aa8720c494
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Apr 27 20:27:27 2006 +0000

Improve EXA fallback debugging output to include the locations of pixmaps. This is being used in tracking down recent compositing performance regressions.

commit 83b061776a57025076fc26d6d01fe2e049c2243b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Apr 27 19:17:34 2006 +0000

Add trivial PolySegment acceleration for 0-width horizontal/vertical lines, which still happen somewhat frequently and were cluttering up my fallback debugging output. x11perf says it's a major performance win in those cases (though probably irrelevant), and it passes Xlib9.
In drawing glyphs, shortcut our way to exaComposite instead of going through the whole CompositePicture stack and doing things like computing damage over again. This is a sizeable win for text drawing with a compmgr. Also avoid calling down into the server for dealing with the scratch pixmap when we are able to do UploadToScreen successfully and never need it.

Add a helper for the Component Alpha Over case, which breaks the operation down into an OutReverse and an Add. Turn off the fallback to software glyphs when component alpha, now that we expect all (new) drivers to be able to support it. Also, make Xephyr fall back in the CA Over case to exercise this code. This speeds up my rgb24text and ls -lR in gnome-terminal by a factor of 5.

Bug #6751: Use the Linux PCI ROM interface on Linux properly. The old domain code, still modified BARs not a good idea, Just talk to sysfs, if 0 read, fallback to old methods.

Bug #6750: This patch detects Intel bridges that are transparent but aren't reported as such. From the Linux kernel fixups. This patch also removes the reserved BIOS area from the area to allocate resources in.

Improve the migration debugging output.
Fix a bug in the intersection computation that could conceivably cause incorrect results to be returned (but would probably usually be over-conservative).

commit 5d00859c6e7d4b7ebce56f438ec4993334de2328
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 25 23:56:17 2006 +0000

Bug #4668: Check if the lists of glyphs don't have any intersecting glyphs, and if they all have a maskFormat matching the format of the actual glyphs. If so, we can avoid the temporary pixmap for accumulating glyphs, which reduces the number of operations done, and makes it easier on the migration system. This fixes some significant performance issues, particularly with subpixel antialiasing. Note that it does increase the amount of damage computation which is done, so is not always a win with a compositing manager running.

commit 074dc9a023b3967ce00aa42c26a7c988423afe8a
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 25 16:47:23 2006 +0000

Add an option to verify at the point of migration that pixmaps which aren't marked dirty are in fact not dirty. This will hopefully help catch issues like the previous commit. Leave it on in fakexa.

commit 702d9226d57ec1584de2e8a85c268795650b1094
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 25 15:46:04 2006 +0000

Don't forget to mark the drawable as dirty in exaPutImage(). Fixes corruption with drivers that have UTS. (Michel Dänzer)

commit 39ca0867c7dd6f3bdecc52aec8df435946682098
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Mon Apr 24 05:44:06 2006 +0000

Remove another reference to cfb16.

commit 81f3c2937df6230542f3223c201da8c41ff59945
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Mon Apr 24 05:39:47 2006 +0000

strlcpy() doesn't exist on Linux, so use the implementation in os/.

commit a715634d23fb3124261dbbd8d7d4e6522551bb9b
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Apr 23 13:14:50 2006 +0000
Don't access free memory after unloading a module. Bugzilla #4168.

commit 79dc6892610c9f8385cde4f0d601cc7481225c16
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Sat Apr 22 03:22:17 2006 +0000

When reading the kernel keyboard mapping (readKernelMapping in
os-support/linux/lnx_KbdMap.c) we overrun the usefully-named global
array 'map', scribbling on other random static variables elsewhere.
This is fixed by changing the size of at2lnx. (David Woodhouse). Bug
#5169

commit b37c513520dc8df2b1d160cc3f37d6bfac109b91
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Apr 19 21:56:13 2006 +0000

Add support for x4a4 format (depth 4 at 8bpp). Bug #6325.

commit c947d796aad0b81d661a10b787decd967376da79
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 18 19:18:43 2006 +0000

Missed in previous commit: Add a new migration scheme, called "Smart" for
lack of a better name. This one behaves somewhat between Greedy and
Always. It moves in if we can accelerate, unless the destination is
clean and shouldn't be kept in framebuffer according to the score, in
which case we migrate out (and force-migrate anything where migration
is free). This should help fix lack of acceleration for drivers without
UTS since removing exaAsyncPixmapGCOps, and has removed one performance
trap with Radeon I'd noticed. It is the new default.

commit b17a4de83e7ab18bef29ae898195889638f1cc6a
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 18 19:14:07 2006 +0000

Add a new migration scheme, called "Smart" for lack of a better name. This
one behaves somewhat between Greedy and Always. It moves in if we can
accelerate, unless the destination is clean and shouldn't be kept in
framebuffer according to the score, in which case we migrate out (and
force-migrate anything where migration is free). This should help fix
lack of acceleration for drivers without UTS since removing
exaAsyncPixmapGCOps, and has removed one performance trap with Radeon
I'd noticed. It is the new default.

commit 771b366ab0bc066592b548612ec413291e14bf0
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Apr 18 18:50:35 2006 +0000
Fix exaGetPixmapFirstPixel to migrate as unaccelerated. Also adds a bit of fallback debugging info to PolyGlyphBlt.

commit 782d61a03176264e0a9eb222ae97be3d175cf0ab
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Tue Apr 18 17:28:44 2006 +0000

Update all prefixes in config tools, so they mostly work again. Also, make RgbPath commented out when using xorgconfig. Start using /dev/input/mice as the default mouse location on Linux.

commit 0f065059dca9fc452f1cdec115f619f697fd71cc
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Mon Apr 17 07:27:43 2006 +0000

Wrap a couple more SDK headers in if XORG, as per Dave Airlie’s commit on 2006-01-18.

commit ba632ff697a782cd47870705b6cecaac2e60d30ff
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Mon Apr 17 07:10:31 2006 +0000

Fix kdrive build by linking in libexa before KDRIVE_LIBS.

commit 0e62d92d5b809bc3a6503e9be386cf961fc22557
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Apr 14 23:43:32 2006 +0000

Coverity #804: Another leak on OOM path.

commit d61219aaad9f9e4aa83644a69627d3a1d3282e95f
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Apr 14 23:38:11 2006 +0000

Coverity #806: Another memory leak on OOM path.

commit 1b04e313920447e4c1f42bdd5a61f188d463210c
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Apr 14 23:32:22 2006 +0000

Coverity #847, #848, #849: Three more memory leaks.

commit 6545051902f2ce00c98bd1373f97ebc942667e9c
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Apr 14 23:10:59 2006 +0000

Coverity #1003, #1004: Two more useless null checks.
commit ab1d420022fb09d36a0d6ad948c38147c65b9adf
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 14 23:09:38 2006 +0000

Coverity #1005: Avoid a null deref.

commit d01e0956a8903fb41e8a34c78973b9b2860b6446
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 14 23:08:10 2006 +0000

Coverity #1007: Fix a silly null check.

commit 6d29f659318364afe046dc242d6f506ce40a944a
Author: Luc Verhaegen <libv@skynet.be>
Date:   Fri Apr 14 23:01:35 2006 +0000

CVT means Coordinated Video Timing instead of Common.

commit 82b6ea1a4b414426072bf001daeb3e9de0e93589
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 14 22:51:19 2006 +0000

Bug #6580: Don't install xf86drm.h, that's libdrm's job.

commit aefa347bde9a3179ab139d0ccddce314040e9b9
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Apr 13 21:08:25 2006 +0000

Fix build for added file to Mesa CVS. This is always fun. :(

commit 6aadd454e70d83921685b58bf57ec30d95920734
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Apr 10 10:11:19 2006 +0000

Fix stupid thinko.

commit c9f6e60d42dec82d06995c05a2a011c338cadd87
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Apr 10 08:50:33 2006 +0000

Coverity #826: Fix potential memory leak.

commit 1357af2474be9a3bce7ee2350fd4252eee89a3b1
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Apr 9 17:39:10 2006 +0000

Coverity #340: Fix potential NULL dereference. Clean up proliferation of
'register int n' in loops of ProcXkbGetNames.

commit f324be00c547effc698ae6679d12ffe90bd90e43
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sun Apr 9 17:28:42 2006 +0000

  Coverity #324: Fix potential NULL dereference. (Alan Coopersmith)

commit 7637aa17f21e26d979fbb210a638d6751e98b1eb
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sun Apr 9 17:26:17 2006 +0000

  Coverity #169: Fix potential fgets() into NULL (?!?).

commit d5bc41b88272b4a3a1841cc1189720b0549db215
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sun Apr 9 17:15:51 2006 +0000

  Coverity #323, #445, #446, #447: Fix potential NULL dereferences.

commit 2387bfa5ff5ed82f3f732fb9152c1ea95850a914
Author: Aaron Plattner <aplattner@nvidia.com>
Date:  Fri Apr 7 18:56:04 2006 +0000

  Bump the ABI versions. Due to Glyph privates and the XV update below, the
  video driver ABI needs to be bumped to 1.0. The rest of the ABI minor
  versions were bumped to include the LoaderGetABIVersion function.
  Add a DrawablePtr argument to the XV hooks. This allows drivers to determine
  that the target window is redirected and draw to the appropriate place.

commit dc43909219fe2a4d03139638814b89032b2921b9
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:  Fri Apr 7 17:49:32 2006 +0000

  Fri Apr 7 13:46:45 2006 Søren Sandmann <sandmann@redhat.com>
  Use FreeResource instead of deleteCompOverlayClient()

commit 94e7213d594d8bb53a6bb05d1dab7514c4ff5350
Author: Adam Jackson <ajax@nwk.net>
Date:  Fri Apr 7 16:08:50 2006 +0000

  Remove libc wrapper types from Xisb interfaces.

commit 47bdc9528c2dd4ea9d59a0944c023173ea7a7a66
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Fri Apr 7 16:07:50 2006 +0000

  Coverity #844, #845, #846: Fix memory leaks.
commit 2c90c3bfe88563739a72bb645dd52b35b6ff6d5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 7 15:57:17 2006 +0000

Coverity #987: Avoid potential NULL dereference.

commit 843146cfbaef234e13df9a62b6f0232a5efdf7f0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Apr 7 15:53:21 2006 +0000

Coverity #1216: Fix double-close of file on error.

commit 5dacc822327689c0f096093756473ce96fba67d76
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Apr 7 02:20:11 2006 +0000

Coverity #333, #334 - eliminate unnecessary test for always true condition in fbEvenStipple.

commit 75a9afdbf42e4196471774102e1758f18866bec6
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:53:43 2006 +0000

Coverity #488: Avoid smashing an array on malformed config files.

commit 20c1e2cc30abe455eaf5b0833cb0095ed05c02
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:50:07 2006 +0000

Coverity #769: Fix a potential memory leak for systems that allocate on malloc(0)

commit 5ef711032b821be82fd7281fe64872bcbaff0327
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:41:00 2006 +0000

Coverity #838: Plug two more memory leaks.

commit 69477ea4b6e666940c5dd422bedfa6432dead04
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:37:11 2006 +0000

Coverity #837: Fix another another memory leak.

commit b472ce7307dd88a21c7713a2b127e34f5c2bc817
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:35:43 2006 +0000
Coverity #836: Fix another memory leak.

commit 9e84ed5f8d9ed61a8b509e9cad1ca0e0bcf2166a
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:34:29 2006 +0000

Coverity #835: Plug memory leak in extension section parsing.

commit 12924d0da36a2d266bb040caac58534c07e85261
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:29:39 2006 +0000

Coverity #812: Fix parser memory leak.

commit 49abff79957799e9229d5c0226ee1b0d750500d
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:26:33 2006 +0000

Coverity #818: Avoid memory leak on error path.

commit bda292120fc97f890c1f58a31177c0f7c0bf048
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:23:50 2006 +0000

Coverity #985: Avoid segfault on malloc failure.

commit 536628bb4cb0a0d749e0c01412a5eb5d6d24063
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 7 01:18:01 2006 +0000

Coverity #1037: Sanity check idx before use.

commit 53e97ce4ddd993248561c245143b61915ea254b5
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu Apr 6 22:04:12 2006 +0000

missed a line while removing cfb16

commit 4ae12636694af05cee4287b119bde08e9ceaa8aa
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu Apr 6 18:59:11 2006 +0000

Remove cfb16, no longer used.

commit e1fc15a85f2367ee9afdf63c920c3327c3f45158d
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Wed Apr 5 21:08:45 2006 +0000
Put the screensaver extension back in the Xext module.
Move the screenSaverSuspended variable to DIX globals.
Restore the old link order for the Xorg and Xdmx binaries.

commit 383c2e1e9ec54ab9de356993ad552c1aa6ec094f
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Apr 5 19:52:12 2006 +0000

Include fbmmx.h in fb/fbwindow.c when USE_MMX is defined. Fixes build
problem on x86-64 resulting from fbHaveMMX being a macro instead of a
function on that platform.

commit 4697da177d545a2f8bb6fd06588a1c40532c339
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Apr 4 18:30:28 2006 +0000

Initial checkin

commit 83ea57bce82f478a7ecdcd6ed73ca4be01cd9c26
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Apr 4 14:39:06 2006 +0000

   Bug #5729: Convert xf8_16bpp to fb. chips(4) users please test.

commit 4c7da861185080d15b3ff4301af4af0e85a71f93
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Apr 4 14:17:04 2006 +0000

   Bug #5300: Fix missing spaces in the Build OS line in the log. (Egmont
Koblinger)

commit fb6f61b50f1c701041680e49f6a406a6603f1577
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Apr 4 12:36:16 2006 +0000

   Bug #4806: Dump the raw EDID contents in hex to the log file for better
debugging. (Philip Prindeville)

commit 14af50371c7f23855781924cdf6afa6ah7566a87
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 22:00:06 2006 +0000

   Bug #2142: Make font path logging more readable. (Eduard Fuchs)

commit 373f9f92566290d979730c09c9c5c5d50e23390c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 21:45:54 2006 +0000
Bug #4766: Convert all Xprint drivers to fb.

commit d9b8bfbfafe8758ceb629606607e37546d51ca52
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Apr 3 21:16:30 2006 +0000

Bug #5478: More use of fbSOlidFillmmx. (Jim Huang)

commit b0e67782653033c6518944adfbf23e466bd8bc39
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Apr 3 19:50:15 2006 +0000

Bug #6346: Build fix when using gcc -mno-sse. (Jonathan Adamczewski)

commit 66500819b1ca730a7b1df400a8368a08ebe49335
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Apr 3 11:37:30 2006 +0000


commit 2a6c11aa3b06f13dad94f3441c7184e6720a2bf4
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Apr 3 09:12:28 2006 +0000

Fix a server crash due to memsetting beyond allocated memory when running
GL applications.

commit f6ca2b3ea92b7fe98408c51a17a590435e808b1d
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Apr 3 02:15:55 2006 +0000

    Coverity #38: Dead branch elimination.

commit 9b9dd747d8f4697c6d5c947c160d5991c7c8fde5
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Apr 3 02:13:47 2006 +0000

    Coverity #75: Dead variable elimination.

commit 3f87aeeefb4be3ac23ae6366d3756ffdc446eaa62d
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Apr 3 02:12:11 2006 +0000

    Coverity #82: Dead variable elimination.

commit 61926d8c592468076f8c9a666f0098d067d2213e
Author: Adam Jackson <ajax@nwk.net>
Coverity #271: Fix an unbelievably boneheaded NULL chase.

commit 7ef95da8a3e22e710882590fc47d56893159cb5d
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 01:51:54 2006 +0000

Coverity #616: Fix a rare memory leak.

commit 01ebd633017249e496f378df511586ec973d49708
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 01:43:33 2006 +0000

Coverity #833: Fix a rather nasty memory leak.

commit a01f17d6dec02f80144e108f748783cb4e429ebb
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 01:35:05 2006 +0000

Coverity #983: Move some risky debugging code inside #ifdef DEBUG.

commit c03cfca3806f45948627715b25b46839a07be979
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 01:31:59 2006 +0000

Coverity #986: Prevent a NULL chase.

commit 07ecf49521973bbb205b199c39e1171f1163df2b
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 3 01:28:11 2006 +0000

Coverity #992: Prevent a NULL chase.

commit c6b3b3354c2d9139b19b132051d434e97dd19715
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Apr 2 22:51:42 2006 +0000

Bump to 1.1.99.1.

commit 7e085f52b6f07c076bd3b5cfdee27c17d14d7822e
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Apr 2 22:31:13 2006 +0000

Use xf86LoaderCheckSymbol to check for DRI symbols instead of dlsym,
  avoiding RTLD_DEFAULT. (__glXDRIScreenProbe): Change GLX-DRI to AIGLX
  in LogMessage for consitency.
commit b2097b99a2b6e0a45ee9b6d80946be06c4d9302c
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Apr 2 21:45:03 2006 +0000

../stub

commit 4e3a4cfd1d7153eb88a05b0502d0b32601ae93
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Apr 2 06:22:05 2006 +0000

Use RTLD_DEFAULT, rather than relying on NULL happening to map to it as it
does on Linux.

commit 323fec20292fc5ad90bfee9015ecccc13e968ad
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Apr 2 00:46:20 2006 +0000

Reorder link order for Xdmx to fix new screensaver variable reference
properly; remove previous awful hack.

commit a605b9fdd3c2e7d227e35b911761f720b07b7e6
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Apr 2 00:09:43 2006 +0000

Fix some includes to point into X11/fonts/ properly.

commit e5b1d38e142807b59ce4c89764c949f707ec541
Author: Adam Jackson <ajax@nwk.net>
Date:   Sat Apr 1 23:53:33 2006 +0000

Disable Xprint freetype support momentarily. Needs ttf2pt1.c, which exists
in the monolith but has an advertising clause in the license.

commit ccca76b8083b83825fa16483b44c8926a35412bb
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Apr 1 23:41:23 2006 +0000

Clean up warnings and a debug printf.

commit 6afa814ab16f351b2eb787e5bf481a1f9738b391
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Apr 1 23:28:17 2006 +0000

Pull out fb's tile handling during fbValidateGC so we can do the necessary
exaPrepare/FinishAccess()es. Revealed by xtest with fakexa.

commit 277f612d4eb89adb8ccda4e8fd3d211d8d1705e
Author: Adam Jackson <ajax@nwk.net>
Hack around the new screensaver variable for DMX, which is otherwise blissfully ignorant of it.

commit 5f95146fcfcae60cc29265799ba3b851647105d6
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Apr 1 22:35:16 2006 +0000

Export exaPrepare/FinishGC to the rest of EXA, and use it in the ImageGlyph implementation to avoid unprepared access to the tile. Also, relocate the fbGetDrawable to avoid using a stale dest pointer after exaSolidBoxClipped() may have migrated it. Revealed by xtest.

commit c720ffe875e4b2038746ff9b4767f8b90db0a307
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Apr 1 22:17:44 2006 +0000

Use fb's depth-to-planemask computation, which doesn't suffer from getting a 1 planemask at depth 32. Fixes Get/PutImage xtest tests.

commit 5c0a2088e229d05c38e5df7daea45af0d7db7daf
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Apr 1 21:49:44 2006 +0000

Bug #6428: Fix off-by-one error when walking off the end of the vmodmap list.

commit 1e764fe8b595b781dab22d6e41c26f119c9d41b5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Apr 1 21:20:31 2006 +0000

Bug #5801: Check for MTRR support under Linux. Minor refactoring of MTRR checks for other OSes.

commit 978c7b14a18caffde5600480824d04492fc32aef
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Apr 1 21:02:40 2006 +0000

Make Xprint AC_ARG_ENABLEs and AC_ARG_WITHs unconditional also.

commit 71a6f2ef6c1138c5e6918a54dfb856183f4f242c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Apr 1 20:58:42 2006 +0000

Unconditionally run XP_USE_FREETYPE AM_CONDITIONAL, not only in the Xprint path.
commit d1e90113fc32b6ddc4dbe1a074763c31bc133e75
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Mar 31 23:22:29 2006 +0000

Don't attempt to Prepare/FinishAccess NULL pDrawables. Exposed by new
gradient testing in rendercheck.

commit 2e38fedd29e7e55d01e3edce6a73b8ceaac17911
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Mar 31 19:41:28 2006 +0000

Add an option to EXA for the DDX to request that EXA hide the pixmap's
devPrivate.ptr when pointing at offscreen memory, outside of
exaPrepare/FinishAccess(). This was used with fakexa to find (by NULL
dereference) many instances of un-Prepared CPU access to the
framebuffer:
- GC tiles used in several ops when fillStyle == FillTiled were never
  Prepared.
- Migration could lead to un-Prepared access to mask data in render's
  Trapezoids and Triangles
- PutImage's UploadToScreen failure fallback failed to Prepare.

commit f480dc797b5f080f912efc7867d6d8e50be074c
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Mar 31 19:25:42 2006 +0000

Revert mistaken commit to exa_unaccel.c. Should have been to
exa_offscreen.c: Correct a typo in debug-only offscreen validation
code. (Wang Zhenyu)

commit 1a8167c1baa767fc056d1e17d96d0ea98a5f3b17
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Mar 31 19:16:51 2006 +0000

Correct a typo in debug-only offscreen validation code. (Wang Zhenyu)

commit 7ea30b507f4ce5e20fbfaca80f7d5b53a99eb1d
Author: Fredrik Höglund <fredrik@kde.org>
Date: Fri Mar 31 18:49:38 2006 +0000

Move the screensaver extension from module to builtins.
Add the server side implementation of the ScreenSaverSuspend request.
Require scrnsaverproto >= 1.1, and change the linking order of the Xorg
static libs.

commit acca49b1a5a6c034f3b9d51d9016b8a7d43da809
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri Mar 31 17:39:35 2006 +0000
Fri Mar 31 12:37:16 2006 Søren Sandmann <sandmann@redhat.com>
Fix copyright statement

commit b074c22470ba0a51eda2af7100d09a260a1e8bb
Author: Egbert Eich <eich@suse.de>
Date:   Fri Mar 31 15:11:51 2006 +0000

    fixed typo.

commit 710bb2e6c8b2874406e48fa8ad24539290e98d41
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 31 14:52:57 2006 +0000

    Reindent with -cbi0.

commit 7c44bb8c49656133eae675377edea55322d254ca
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 31 07:33:34 2006 +0000

    Simplify XkbWriteXKBKeymapForNames a bit, and remove debug spew.

commit 4c317bbc1259fa555dc5d5278226b21c42845c0c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 31 07:21:41 2006 +0000

    Add full FreeType support for Xprint. (Drew Parsons)

commit 759033703ce17b20d57756206f48a7ae410a50d1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 30 21:44:36 2006 +0000

    Remove the exaAsyncPixmapGCOps mostly-unaccelerated ops vector, and always
    plug in the accelerated one, even if the destination pixmap is
    currently offscreen. This was a leftover from when kaa originally got
    accelerated offscreen pixmap support, and its only conceivable use was
    to avoid a little overhead on ops to in-system pixmaps that weren't
    going to get migrated. At this point, we probably care more about just
    getting everything accelerated that we easily can, which should happen
    with the new migration support.

commit b9203dc068ccd4c0d22d49a94b910783432b96a8
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 30 21:25:43 2006 +0000

    Don't do an extra fallback path for CopyWindow while swappedOut, since
    exaCopyNtoN takes care of the fallback anyway, and we don't care about
    the performance of this path.
Add a dependency on EXA, so it rebuilds when the library does. The manual indicated I shouldn't do this, but experience indicates I should.

Mark the ARGB FBConfig as nonconforming to prevent drivers and apps from falling over.
Add @GLX_DEFINES@ so GLcore gets compiled with TLS support if configured.
Only destroy the mesa buffer if it got initialized.

Added notice to last ChangeLog entry
Fixes for some vsw4 failures on 64bit BE platforms such as PPC64 and s390x.
Provided by Hong Bo Peng of IBM (slightly modified). Patches try to resolve some of the careless mixtures of ulong and uint (which are different size on 64bit). > This patch will break the driver ABI! < Bugzilla #6438.

Fixes for some vsw4 failures on 64bit BE platforms such as PPC64 and s390x.
Provided by Hong Bo Peng of IBM (slightly modified). Patches try to resolve some of the careless mixtures of ulong and uint (which are different size on 64bit). Bugzilla #6438.

Regenerate these files using updated scripts to avoid unused variable warnings.
Bug #2986: Add PutImage acceleration for the ZPixmap, planeMask =~
FB_ALLONES, bitsPerPixel >= 8, GXcopy cases. With the radeon driver on
my machine, this gives about 10% speedup in PutImage
10x10 and 500x500, and 40% speedup for 10x10 ShmPutImage, up to 65%
improvement in 500x500 ShmPutImage. Also fixes a crasher in GetImage
that slipped in at the last minute.

commit 3cf46cc1e32efc0e4be1d88be111ba0438e0f021
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 30 05:15:58 2006 +0000

Add an UploadToScreen implementation, for testing PutImage support, and
make the DownloadFromScreen more robust.

commit e799dd68e2bd0fa8ac3c344111fb12e1f32d4c10
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Mar 29 22:25:17 2006 +0000

Bug #2986: Add acceleration of GetImage using DownloadFromScreen for the
ZPixmap, planeMask =~ FB_ALLONES, bitsPerPixel >= 8 case. I'm pretty
convinced that this is the only case that we care about at all. Tested
with xwd -root and xwd on a gnome-terminal, in a composited environment
or not.

commit 4bb5ab0b0b4453208573b91b334940f190a8f7210a
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Mar 29 22:03:18 2006 +0000

Add a DownloadFromScreen implementation, used for testing GetImage
acceleration, and set the migration scheme to Always on init (since
this is all for testing, and Always should make migration happen more
frequently than Greedy).

commit e31e8ace1043eab340d6b60a6e98b23ebf102786
Author: Deron Johnson <deron.johnson@sun.com>
Date:   Wed Mar 29 17:51:54 2006 +0000

Fix composite overlay window bug 6411

commit ff6f88348c7498e83b0b143ef3737fd6eb0995e4
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Mar 29 01:05:09 2006 +0000

More warning cleanup.

commit 52d9ce7f4fc599d30dec2e61fc1720597043d91c
Author: Kristian Høgsberg <krh@redhat.com>
Fix another typo.

commit 7df64898eac46a487e8eab2af7213d133b9ca419
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 28 07:46:04 2006 +0000

Fix a couple of typos.

commit bd283c2464e2c0e1fd0aca1dedff0f39c2564c34
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Mar 28 07:21:50 2006 +0000

Add a new export, LoaderGetABIVersion. This function allows modules to
query the versions directly instead of having to guess. Bug #6416: Add
LoaderGetABIVersion.

commit a06342eccce76035ff859fee4d283b288ec90ee923
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 28 02:57:07 2006 +0000

Add --enable-glx-tls ./configure option to enable use of TLS for storing
current GL context. Use this option to let AIGLX load DRI drivers
compiled for TLS.

commit 77531dfb9f9f3ca0e38ad0555ee3735d6f28cf19
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Mar 28 01:22:01 2006 +0000

Silence some editorializing in the configure help text.

commit 7deaaa797cf8e7ca71e9b34fa6f413d1ed2b3dab
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Mar 28 01:21:00 2006 +0000

Big old pile of warning fixes.

commit 7342dbe4b2108827eaf30993ceeeebd828da2290
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Mar 28 00:18:31 2006 +0000

Remove long-dead screen region code.

commit 0e88cebfecbf0c7dd606ce0caca840f45cbe0d
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Mar 27 23:03:47 2006 +0000
Prune XKB code to only what we need to run the server. Remove dead !XKB_IN_SERVER codepaths. Remove HAVE_CONFIG_H codepaths.

commit 5be8a66d324f3d5840b134ad29069eace64e6f12
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Mar 27 22:28:32 2006 +0000

Fix remnants of previous busted _XkbStrCaseCmp commit.

commit 9e202dfef40e2bd66f461a6ba531e92782096ae
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Mar 27 22:25:56 2006 +0000

Remove remnants of XkbCF code.

commit 7257590651328789d23e80da1ec6241542a660cd
Author: Daniel Stone <daniel@fooishbar.org>
Date: Mon Mar 27 21:15:06 2006 +0000

Move XF86 DDX XKB actions into dixmods.

commit d7b9e2b0e9d6889e6b05e63892e612f4e5f19f5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Mar 25 23:09:50 2006 +0000

Bug #3819: Remove open-coding of strcasecmp.

commit b3570dd94aa72f94e537a17680150e91e7712f5a
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Mar 25 22:37:58 2006 +0000

Remove INITARGS braindamage, change to void; add XkbExtensionInit prototype to xkb.h. Explicitly initialise nTypes in xkb.c.

commit 1ef60ce8ebb681b3cfeb5e515be5c187c0442dcda
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Mar 25 22:35:48 2006 +0000

Really remove all DDX pre-config code.

commit ec10f70b2114e5369a5b2f34b084def55634dcb4
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sat Mar 25 21:52:49 2006 +0000

Remove XkbCF DDX configuration code.

commit aae4238360b842ac34dc8ee16e165a1821f9a801
Author: Daniel Stone <daniel@fooishbar.org>
Fix two glaring unconditional-NULL-dereferences.

commit a68c11bb1d7c5419004a1714e49dffac57304e78
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Mar 25 19:52:05 2006 +0000

Mark everything in xf86sym.c as _X_EXPORT.

commit ae935832facfa81a9689882406ecca74b0346790
Author: Fredrik Höglund <fredrik@kde.org>
Date:   Fri Mar 24 20:50:13 2006 +0000

Refactored the screensaver and DPMS timer code to use the screensaver timer
for both screensaver and DPMS. Removed the SetDPMSTimers() and
FreeDPMSTimers() functions.

commit d1746ec0f0c8a0b750f390e7a7faf21b67683f4a
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Mar 24 17:58:39 2006 +0000

Make sure DRI module is loaded before calling DRI functions.

commit f1616508e95d12dfaadd2cfd61b40228b3dba6f60
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Mar 23 23:54:08 2006 +0000

Add ast driver/pci id (Carl Switzky, Sun Microsystems)

commit 6d2896b384e17512e8f12036daabced575d21f804
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Mar 22 22:49:52 2006 +0000

Improve error logging.

commit 5449634e3c9428005aba5b3322ced7e86c62f185
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Mar 22 21:37:49 2006 +0000

Wed Mar 22 16:28:46 2006 Søren Sandmann <sandmann@redhat.com>
Use inline assembly for copy area, since gcc doesn't generate movq
instructions.

commit 5b3084c64f7bd1232603fffb3e985600b8d045453
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Mar 22 21:13:08 2006 +0000
Wed Mar 22 16:05:09 2006 Søren Sandmann <sandmann@redhat.com>
Use inline assembly for solid fills, since gcc doesn't use the movq
instructions.

commit a08e5e0c68baaf85b0fc3ecde74a6bcf80bcd4bf
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Mar 22 18:44:26 2006 +0000

Wed Mar 22 13:42:44 2006 Søren Sandmann <sandmann@redhat.com>
Patch by Keith Packard to make sure redirected windows don't get considered
"FullyObscured".

commit 966d93ef6d1f2ed02f3b81b5bf5a1ebbdd48c93d
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 21 22:54:38 2006 +0000

Make the server distcheck and tag 1.0.99.1 snapshot.
Bump CVS version to 1.0.99.1.
Distcheck fixes.

commit 8e3ad87d01e102591c7dc25614f6ae10e444a1b1
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Mar 21 22:32:13 2006 +0000

#include indirect_dispatch to get prototypes for FBO functions.
Fix a couple of warnings.

commit dcc43d57cbe9d2b65384fe9ba2e4e4fbb43cb0a1
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Mon Mar 20 20:10:29 2006 +0000

Finish glx_ansic.h wrapper changes to make Xvfb and Xnest link again.

commit 9509c6799e31e96677b6d07bdf24ea91ddd30020
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Mar 20 19:32:18 2006 +0000

dead file removal

commit 61a020265c5915e3d671d5b2047b81a5d15594c3
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Mar 20 18:43:18 2006 +0000

Bug #5549: Fix build for sparc64. (Matthieu Herrb)

commit 6eb4e2303aaab8d64e3f6c0bbe55689bdcb82
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Mar 20 14:01:05 2006 +0000
Bug #6213: Check geteuid's return value, not its address, otherwise unprivileged users can set the modulepath and run arbitrary code. Patch from Matthieu Herrb. (CVE-2006-0745, Coverity #4)

commit 8c1bb37d0649b269b78c457b8b41ff59a41d89af
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Mar 17 08:55:07 2006 +0000

typo fix, reindent.

commit 2d2d38d17cc2558f8a41166a4a1578bc4c663c37
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Mar 17 01:47:25 2006 +0000

Check for glproto when building GLX and make sure we have at least 1.4.6. Drop glx_ansic.h wrapper and call xalloc, xrealloc, xfree and str-funcs directly.

commit 2c11cde3367fcd22740b577a4364b1e41cf3e1d2
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Mar 17 00:35:18 2006 +0000

More patches from David Reveman:
Add __GLXcontext destructor and flush context cache there and on loseCurrent.
Chain back to new __GLXcontext destructor. (__glXMesaContextForceCurrent):
Set render table on forceCurrent. (init_screen_visuals): Index pVis array correctly. (GlxGetMesaProvider): Add this.
Hook up FBO marshalling.

commit 14aafc258cd774cf937f9798a888c2d3c97ccacf
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 16 18:43:55 2006 +0000

Change EXA so that exaMoveOutPixmap() retains the framebuffer copy of the pixmap, and damage is tracked so that a later exaMoveInPixmap won't result in an upload if no upload is necessary. This will likely improve the performance of the "Always" migration scheme significantly, and is a step in the path to more exact damage tracking between framebuffer and system memory.

commit d0d336efd58896718f31a400651bacd9b769fb5a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Mar 16 16:29:17 2006 +0000
Add support for ZX2 PCI-E local bus adaptors. (Alex Williamson, HP)
Use soft timeout register to avoid MCAs when probing for non-existent local
bus adaptors on ZX2. (Alex Williamson, HP)

commit 175980580e572745a9a381b4432e3ba0457d3ba3
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 23:05:53 2006 +0000

Bump to requiring fixesproto >= 4.0 and compositeproto >= 0.3.

commit 6fe377af5a82deb6f8b0f3b75414335e7845caac
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Wed Mar 15 21:25:38 2006 +0000

- OpenBSD needs -Wl,-export-dynamic to export symbols from main executable
to modules.
- Probe for OpenBSD aperture driver and define HAS_APERTURE_DRV
  accordingly.

commit 21f7f2fb113ee4f9cd011c3cc2d45d43bd3d5fa
Author: Felix Kuehling <fxkuehl@gmx.de>
Date:   Wed Mar 15 18:43:32 2006 +0000

Enable correct handling of the BTS instruction (opcode 0f ab) The code was
there but #ifdefed out. Insead of BTS, BT was executed. This patch
enables the BTS function and hooks it up the the correct opcode. (ATI
Technologies Inc.)

commit b726aa502a871c700bc42b5325abf2c6820ff756
Author: Felix Kuehling <fxkuehl@gmx.de>
Date:   Wed Mar 15 18:37:44 2006 +0000

Update to build against Mesa CVS HEAD.

commit c74464d92cd673ff0669375757caab798cc57e95
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Mar 15 16:59:45 2006 +0000

Don't let pinned pixmaps get migrated in when using the "Always" migration
scheme. This notably keeps the visible screen from getting migrated in
to a new location in framebuffer.
Reported by: Michel Dänzer.

commit b9c43cde1e368903786977b06368d5e36db9ffe8
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:56:10 2006 +0000

Coverity #1042, 1043: Nuke some dead variables.
commit 5e106a71b9f8077216d41619402952b0005dd8a4
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:49:04 2006 +0000

Coverity #807: Fix a memory leak in XFixesExpandRegion.

commit a3ef63696c950b2520e7c83564b6efc0a830fde
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:36:31 2006 +0000

Coverity #490: Fix a range check in xf86vidmode extension.

commit 152090ce442e94de1ae920208a92931af6493c8c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:33:12 2006 +0000

Coverity #487: Check version number correctly.

commit 72cc6307257fcb880026746487b9f918ee674328
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:32:05 2006 +0000

Coverity #491: Check version number correctly.

commit 460f2ea4a594a53536f34c4ad27795fcee50bce
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:21:04 2006 +0000

Coverity #794: Fix a highly unlikely memory leak.

commit 116d158e85ec4357ff69aeb3271ab1f888500d9
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:16:24 2006 +0000

Coverity #269: Compare the requested ABI class against the ABI class of the module, not the module class.

commit d8221a9b70a11606a0f7e1f69af6e6049d7f182f
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:11:34 2006 +0000

Coverity #484: Fix an off-by-one in module refcounting.

commit 6bb2de02a7c0f6ed7dd28e88d584920a4150749
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Mar 15 16:01:47 2006 +0000
Coverity #337: Remove useless NULL check.

commit 1e5c0842af99027cc6c30a16f967d8b60c9a894d
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Mar 15 15:34:57 2006 +0000

Coverity #1053: Nuke a dead variable.

commit 7314d16cde4c3f99d9d91d539f0c5f4942e653
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Wed Mar 15 03:18:42 2006 +0000

 Fix DRIExtensionInit() to not register callbacks when it hasn't been initialized for the current server generation. Fixes a problem where it would use stale private index and blow up in colorful ways if no driver called DRIScreenInit() on the second generation (which happens due to a bug in radeon that I'll fix separately). Note: clearing the index in DRIReset() wouldn't work as DRIReset() is called before the CloseScreen() chain.

commit 02d80a0de93f7592e69065b0fbe5820dcdebdb44
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Wed Mar 15 03:12:32 2006 +0000

Make xf86 linear allocator smarter when dealing with alignment constraints when falling back to X/Y allocations. Fixes various problems of Xv allocation failures, notably with "nv" driver.

commit c1601717d536419693b3ef6e8a3d69b9f2fde2b3
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Mar 15 01:20:08 2006 +0000

 Add a new migration scheme, "always", which will move pixmaps to their desired location always (unless they don't fit in FB, in which case they all get moved out for software rendering). The default remains as before, but can be controlled by the MigrationHeuristic xorg.conf option (which is intentionally not documented, as it may be short-lived). This is part of the exa-damagetrack work, which appears stable in testing with fakexa, unlike the work as a whole.

commit a90eff266cc81993ed804f3320c1d4be5e0d4787
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Mar 15 00:13:52 2006 +0000

Add more doxygen documentation, including notes on WaitMarker() and MarkSync() that I noticed were needed while reading the VIA driver.

commit 693e42114f1127528448126d78a5209dd1198d8d
Move migration logic to a new function, exaDoMigration(). This is largely a
manual conversion to allow for different migration schemes to be
implemented reasonably, but does include some minor improvements such
as accounting for pinned pixmaps not being acceleratable, and for our
current GetImage and GetSpans not being accelerated.

Pull code for getting the (0,0) pixel from a pixmap out to a separate
function, since it gets repeated (with bad error handling, in one
case).

Bail out early if screen doesn’t support DRI.

Updated ChangeLog for my latest composite and xfixes changes.

First batch of AIGLX fixes from David Reveman.
Add getter for Mesa provider.
Export this for Xgl.
Move resource tracking out of drawable constructor to allow wrapping.
Use current reply size #define.
Add this function. (DoGetDrawableAttributes): Fix array length.
Fix build when AIGLX is false.

Improve doxygen formatting, and attempt to clarify the 1:1 ratio of successful PrepareCopy()s to DoneCopy()s.

Make exaCopyNtoNTwoDir() call DoneCopy() at the end of each string of consecutive Copy() calls (rather than exactly once at the end of the function).

Reviewed by: jbarnes

Merge accel_indirect branch to HEAD.

Fix buffer size checks to prevent 2-byte buffer overflows. (Coverity #480, #481, #482, #483)

Add HAS_MMAP for Xvfb
   Fix Xvfb option parsing to exit on bad arguments, not just issue error messages and continue on. (Coverity #492)

Pass sizeof the correct buffer to XmuSnprintf. (Coverity #489)
If fakeX is enabled, create a larger buffer in the Ximage, but keep the same width/height for front-buffer drawing. The fakeX code then uses this extra space for offscreen pixmaps. Note that this tones down the absurdity of fakeX's offscreen pixmap alignment requirements (odd alignment is too weird, so stick with "24", which is still strange but exists out there). It also fixes a couple of bugs in the fakeX implementation revealed by using offscreen pixmaps.

Move the exaDrawableDirty in exaPrepareAccess to exaFinishAccess, which is after the drawing is done. Previously, a failed PrepareAccess could have migrated and cleared the dirty flag before the damage was ever done.

Coverity #1011: Remove a useless NULL check on a pVbe that had been dereferenced many times before.

Coverity #857: Fix resource leak in error path by freeing earlier.

Coverity #813, #814, #815, #816: Fix resource leaks in error paths of config parsing code.

Document the restriction on PrepareAccess() failure, from discussion with benh.
commit 21dcd0304879f38ea8ea01ba88e7cc7783771adf
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Fri Mar 10 01:34:45 2006 +0000

Just like FreeBSD, let DragonFly’s default mouse Device be /dev/sysmouse
(since /dev/mouse don’t even exist by default).

commit 9a99a0dfb6292f303f99d309952fdd772eed9e03a
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Fri Mar 10 01:22:26 2006 +0000

Add DragonFly support. (It is like FreeBSD.)
This patch is from DragonFly developer Joerg Sonnenberger and the pkgsrc
collection.
I tested using /dev/sysmouse with moused using my serial /dev/cuaa0.

commit 7a0f7f739804bc7d9c5562701abee8d1348789777
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 9 23:29:44 2006 +0000

Coverity #349: Fall back to software early if pSrc->pDrawable is NULL, or
pMask is non-NULL but pMask->pDrawable is NULL. This prevents NULL
dereferences on gradients and other Pictures which have no pDrawable.

commit 8a3ff42abb726d1604af39b4653ede5f760b7e69
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 9 23:25:35 2006 +0000

Commit changes missed in last commit (mis-typed path and didn’t notice): Do
a first pass of doxygen documentation of EXA. This removes the
 corresponding pieces of exa-driver.txt, which were becoming stale.
Hopefully the documentation will stay much more up-to-date this way.
Many thanks to jbarnes for writing exa-driver.txt which was used a lot
in writing this documentation.

commit ab35c3fc135ba3f6fc5057ef5d6227ca3534ed26
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Mar 9 23:18:15 2006 +0000

Do a first pass of doxygen documentation of EXA. This removes the
 corresponding pieces of exa-driver.txt, which were becoming stale.
Hopefully the documentation will stay much more up-to-date this way.
Many thanks to jbarnes for writing exa-driver.txt which was used a lot
in writing this documentation.

commit d8f8bfecece0f750d79f852b9ae7152e841227d5a
Author: Matthias Hopf <mhopf@suse.de>
Do Xorg configure checks for Xgl only as well

commit 2822ebc1fb2271844e7ae10c3629aaa940ae402
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Mar 9 06:04:07 2006 +0000

Rearrange EXA driver structures so that there's a hope of maintaining ABI when extending the driver interface. The card and accel structures are merged into the ExaDriverRec, which is to be allocated using exaDriverAlloc(). The driver structure also grows exa_major and exa_minor, which drivers fill in and have checked by EXA (double-checking that the driver really did check that the EXA version was correct). Removes exaInitCard(), which is replaced by the driver filling in the rec by hand, and the exaGetVersion() and related EXA_*VERSION which are replaced by always using the XFree86 loadable module versioning.

commit 65aa33f9173b1554924437685698f7c5f645a3c4
Author: Lars Knoll <lars@trolltech.com>
Date: Wed Mar 8 06:19:37 2006 +0000

render/picture.c Initialize the format of a source picture to PICT_a8r8g8b8. Fixes a failure in the gradients test of rendercheck. In the long term we could do better by setting the format to something without alpha whenever the gradient doesn't contain colors with alpha. This triggers a reduction of the over operation to a pure source operation.

commit cb5090e8d60f4e9780c859faee5c24587f6bee7
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Mar 8 03:32:07 2006 +0000

Bug #6150: Do the obvious fix of an insane sanity check in xf86InitFBManager. (Julio M. Merino Vidal)

commit 2e6f801fe1a749f6a4db2cfd8a43abec5caceae0
Author: Ian Romanick <idr@us.ibm.com>
Date: Tue Mar 7 23:58:22 2006 +0000

Numerous amounts refactoring and comment adding (see ChangeLog for file by file details). The primary intention for these changes is to pave the way for the new device probing and PCI configuration code that I'm working on.

commit b7d2dfc1e5e07051732303731ff3e4e76852dd94
Author: Eric Anholt <anholt@freebsd.org>
Add appropriate MIT license. Oops.

Add a new flag to ephyr, "-fakexa", which turns on an EXA acceleration implementation that calls fb to get its work done. The purpose is to have a trusted EXA driver for use with testing changes to the core of EXA. However, fakexa has not received much testing yet, lacks offscreen pixmaps support, and doesn't reliably provide garbage when EXA doesn't get its syncing right. All of these should be fixed soon.

Remove stale EXA files, which failed to get removed during the move to top-level, somehow.

Fix cvt -r check again. CH7011 TV encoder had 800x600 PAL hit the check.

Correctly initialize devPrivates variable in source only pictures to 0.

Don't try to access devPrivates of source only pictures.

Only output SetClientVersion message if verbosity > 1, like other extensions do.

define SYS_LIBS to hold system dependant libraries that may needed. and add
it to libraries list where needed. Update ChangeLog for previous changes too.

commit 82cbd2ee0d20225b9edbb5246c8ed116b4614e1a
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Mar 5 16:33:17 2006 +0000

Don't hard-code -DUSE_DEV_IO here. configure generates the proper OS specific values here.

commit b56a1513d27f84dec55f3dc6053f183aa6f7855b
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Mar 5 16:32:40 2006 +0000

Definitions for bswapxx() macros on OpenBSD.

commit 4335868476af7c821c64def52b102b93ae91f8b0
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Mar 5 16:13:21 2006 +0000

Fix build with non GNU make.

commit b2f8f410c0bb8bc24039b2a593f8a2a483659914
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Mar 3 09:54:54 2006 +0000

https://bugs.freedesktop.org/show_bug.cgi?id=4341 Make Xming error messages more meaningful.

commit 29237c1977e454511e0d0244c68d34d572b68458
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Mar 3 09:50:55 2006 +0000

https://bugs.freedesktop.org/show_bug.cgi?id=4538 Fix mouse button release on multiwindows scrolling.

commit 06f01623fde61f1a11c2c1ecfae6a4c346473b05
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Mar 3 09:43:42 2006 +0000

https://bugs.freedesktop.org/show_bug.cgi?id=5138 Check for NULL pointer

commit 054c291b274b238893e408e070aef13a7933400b
Author: Felix Kuehling <fxkuehl@gmx.de>
Date:   Thu Mar 2 18:35:08 2006 +0000

Fix build against Mesa CVS HEAD: added s_blit.c to symlink-mesa.sh.
commit c1a82b9554028640dc4e08f042f1a8fafa3372627
Author: Brian Paul <brian.paul@tungstengraphics.com>
Date: Thu Mar 2 03:43:26 2006 +0000

    added s_blit.c file

commit 5f4d11c8d926cf396e0a8e203e14a8e1e123e011
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Wed Mar 1 16:31:53 2006 +0000

    fix spelling error, document EXA_TWO_BITBLT_DIRECTIONS device flag

commit 044a3abb382a4850722c391f04d09d3160790814
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Wed Mar 1 16:28:34 2006 +0000

    Add accelerated two directional blt support to EXA

commit 96ca329382141fd50dceb1cc35a71a333d80bce4
Author: Ian Romanick <idr@us.ibm.com>
Date: Tue Feb 28 23:07:09 2006 +0000

    Remove redundant definition of struct Inst. Safeguard xf86AddDriver against
    future additions to DriverRec.

commit 1ca9f6d47e0241f4b9e56556b128d7bdf987eaca
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Feb 28 16:55:26 2006 +0000

    Bug #5216: Allow options to appear with other components.

commit e3b6b9f29cb2ea00b4290d694c5e202b8d180ad
Author: Adam Jackson <ajax@nwnk.net>
Date: Tue Feb 28 16:26:16 2006 +0000

    Bug #5627: Fix Xprint font symlinking. (TIlman Sauerbeck)

commit e7f0b84fa7bd0c40cb456ec4e447103442c8dae3
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date: Tue Feb 28 05:20:20 2006 +0000

    fix exaInitCard by making it a real function

commit 088e5768faa90fe16de41b135b1111b5d25c64ad
Author: Felix Kuehling <fxkuehl@gmx.de>
Date: Mon Feb 27 18:12:24 2006 +0000

    Fixing the Mesa build again, sigh. Add slang_execute_x86.c. Add
-I./shader/slang to swrast INCLUDES.

commit 345d99e972cac67f2cdc38750e4ba2dea1cd8360
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Feb 27 16:19:39 2006 +0000

Typo fixes (Nicholas Joly, XFree86 bugzilla #1658)

commit 6b08a5013b4e9e350ba461c9a59d30bb41feef8f
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:   Sat Feb 25 20:26:49 2006 +0000

EXA driver doc cleanups and additions.

commit f41ec003f39c575299429897d4287233184583ad
Author: Roland Scheidegger <rscheidegger_lists@hispeed.ch>
Date:   Sat Feb 25 01:17:10 2006 +0000

Add two radeon pci ids (one is used for a radeon mobility X700 XL in a
medion notebook, the other is for a AIW X800 VE)

commit 01a0bf881ada03ca3c27bdef7423c760c3bc2f9c
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Fri Feb 24 17:01:57 2006 +0000

OpenBSD supports PCVT and WSCONS. PCCONS is long gone.

commit d3e1587c20e155b7873b6646ddf0b96f806f8a7f
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Feb 24 16:50:42 2006 +0000

file glxdri.c was initially added on branch accel_indirect_branch.

commit 5d9a620726d2b0ad89625574478d2fd4536485b0
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu Feb 23 19:25:57 2006 +0000

Remove redundant composite op reduction, done in Render now.

commit 028d6903f674fa77617f333b25356710d1682b05
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Feb 22 16:29:07 2006 +0000

Bug #5978: Added missing swap of input variables. Added missing cases for
GL_SECONDARY_COLOR_ARRAY and GL_FOG_COORD_ARRAY (Colin McDonald)

commit 43324132afcb6b231efcc24ec72ee44678d5771
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Added Mesa include directory

commit 43fbbc28e960ce5abe1d3223441c3dc5a10cde27
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Wed Feb 22 02:47:00 2006 +0000

Update to build against Mesa HEAD. (Thank you Felix for feedback on xorg list.)

commit cfdacab33a62b47f22bb54683e3ca20ee9824864
Author: Ian Romanick <idr@us.ibm.com>
Date:   Tue Feb 21 00:02:08 2006 +0000

Eliminate unused PCI BIOS reading functionality. The old code used several function pointers to implement a level of flexibility that was never used. The code also had unused support for extracting a single image type from a larger expansion ROM.
Fix the spelling of PCI_BIOS_OPEN_FIRMWARE.
Fix a couple errors in #ifdef debug code.
These changes have been tested on x86 and x86-64 Linux.

commit 5fd0f94006775e2271107c960dfa3314dd9a5f
Author: Ian Romanick <idr@us.ibm.com>
Date:   Mon Feb 20 23:45:50 2006 +0000

Eliminate all the code for querying the PCI class from the PCI ID database.
Class information is not, and never has been, stored there. Therefore, this is just a bunch of elaborate code to read 0x00000000.
This has received testing on x86 and x86-64 Linux.

commit 6d7083bd69724586338d7978465328f1fcd2ae5
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Feb 20 22:16:49 2006 +0000

indent fixes (OMG SO UGLY), and nuke old RCS keywords.

commit 5480c537cee79b324736eac3e438a4713dfa1036
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Feb 20 21:50:49 2006 +0000

ANSIfy Xi/. Mostly automated via protoize(1).

commit cc42e153c2437fe9c94b0c20e1b56277474d94d0
Author: Felix Kuehling <fxkuehl@gmx.de>
Date:   Mon Feb 20 03:00:09 2006 +0000
Update to build against Mesa HEAD.

commit ed3ea887a6b1c9fde83895c40da34076121f05e9
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Feb 16 21:49:51 2006 +0000

Fix the encoding of DES's name.

commit ea0b3f65f77a7d8f1671b09739c00762a8875607
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Feb 16 21:45:12 2006 +0000

Fix build of Xorg by putting xf86bigfont back into builtin instead of
module sources list.

commit d97f29be22e22e6f5bc23229f8a5ef087f992c8c
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Feb 16 21:35:32 2006 +0000

Bug #5453: Don't forget to still do AM_CONDITIONAL for XVMC even if XV is
disabled, and also force XVMC disabled if XV is disabled. (Dag-Erling
Smrgrav)

commit d33c2e0d1079f93f4ba8b28d19950d384a9e7c32
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 16 19:36:39 2006 +0000

Add oscolor.h

commit 60d4839a2d373cc6d8e0d5004284494d3a994a63
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 16 19:03:07 2006 +0000

Forgot to include this file in previous patch

commit 8987b2c1efec9a4667e278e6ba411772ba2a4a4e6
Author: Keith Packard <keithp@keithp.com>
Date: Thu Feb 16 07:17:31 2006 +0000

Make more extensions optional in build (for kdrive). Fix kdrive build for
actual hardware. Fix kdrive pointer signed/unsigned types. Add
kdrive-required YX rotation functions. Replace rgb text file loading
with static rgb color table.

commit c8acb342695936db062e966029019a458d45459e
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date: Thu Feb 16 06:52:12 2006 +0000
Fix an occasional crash on VT switches: the server would save a pointer to
the current cursor when disabling FB access and would try to restore
that cursor when re-enabling. However, that cursor might have been
destroyed in between. This fixes it by updating the saved cursor
pointer when a cursor is set and vtSema is FALSE.

commit c845e152f52b3e8cef579797c5c8834ad2fd2cd5
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 16 05:46:08 2006 +0000

Bug #5871: Drop special build infrastructure left over from libcwrapper
times. (George Fufutos)

commit c2f685e64464ccf86ed47ae37f74bf46877e0739
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Feb 16 05:18:20 2006 +0000

Fix XSERVER64 should be _XSERVER64

commit 1bbd5e49b1dcc2e3f9785bd2bb58f946b9998099
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 16 04:59:45 2006 +0000

Bug #5869: Remove traces of EXTMODULE define, which doesn't appear to be
useful any more. (George Fufutos)

commit c03b06bf04fa8500d0f85314c7268848b4d50be
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 16 04:39:00 2006 +0000

Bug #5888: Remove orphaned laymodule.c from miext/layer removal. (George
Fufutos)

commit 3b32e902c7a12aa2320da27d984029cde28fd8c3
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 16 01:49:23 2006 +0000

Add entry missed in my last commit.

commit c4767794ef5b014ae25e8541e72348ecfb1ee49
Author: Zephaniah E. Hull <warp@aehallh.com>
Date:   Thu Feb 16 01:03:09 2006 +0000

Export xf86ActivateDevice, used by the evdev driver.

commit dc0354104cb4057dfcc7b2c8e2a8474d70b15
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 16 00:14:11 2006 +0000
Move EXA implementation up to the top level and remove its XFree86 dependencies. It was nearly abstract enough already to be used by multiple DDXes. This will be useful for EXA development through providing a fake acceleration implementation within Xephyr, so that testing can be done on new EXA code without worrying about buggy drivers.

commit c170aa830d0ce3dbff6b30081e04c3f91bf921be
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Feb 15 23:27:40 2006 +0000

Forced commit to note repocopy from hw/xfree86/esa/

commit 6770f1db145e7a6c431d0523f10d12155f58273
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Feb 15 21:09:14 2006 +0000

Define NO_LIBCWRAPPER in dix-config.h, and rely on Mesa including
dix-config.h if DIX_HAVE_CONFIG_H is defined to get it and _XSERVER64,
instead of defining things like this per directory.

commit 7d7fe927cd90146788780477b8e3379d91c3b910
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Feb 15 20:47:44 2006 +0000

Remove a few #ifdef vms; whatever problem that was solving should assuredly
be solved some other way.

commit f105b8da11fcaf337512b3c39da3368f98da07a33
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Feb 15 20:44:13 2006 +0000

Mark everything in dixsym.c as _X_EXPORT.

commit 010d6effa6fa210251b12459882e88ae82e2c0
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Feb 15 19:15:32 2006 +0000

Mark everything in {ext,font}sym.c as _X_EXPORT.

commit 3fe482c77e7b3e46739d011d8bbedee527d7a42fc
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Feb 15 19:05:55 2006 +0000

Mark everything in misym.c as _X_EXPORT.

commit 6ad4325b87889e1aada9333d750b7bb586c38b52
Update to build against mesa head.

commit 50e2ff9a2500078ebbd833fddab0d93f3a50b6a6
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Feb 15 03:20:55 2006 +0000

Remove the waitSync from KdDisableScreen and push it off to drivers' disableAccel hook, which is more correct anyway. This makes kdrive.c not have any knowledge of kaa, opening the way for using exa from kdrive.

commit 0446aafa9467f43515fb578d50f45e2c3153c8cf
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Feb 15 03:07:23 2006 +0000

Avoid some more libcwrapper damage that prevented kdrive linking.

commit 5c9b6f0fb01252d704de1bbdf3015dee7f956593
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Tue Feb 14 18:04:42 2006 +0000

DRIGetSecs() would call getsecs() when XFree86LOADER is defined, relying on the wrappers to provide it. Wrapper gone, and getsecs doesn't exist on linux so it now blows up. Fixes it by just calling gettimeofday() in all cases instead.

commit 049dca0f43eb2179d2c61033a17ff1a89f8f6b89
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Tue Feb 14 08:11:41 2006 +0000

Remove useless line of code that contained a bug and triggered a gcc warning. This variable will be overridden before being used anyway. (Bugzilla #5595)

commit 1132d0e6102d4564f70f0e8c98854e3acfc5b109
Author: Dave Airlie <airlied@linux.ie>
Date:   Tue Feb 14 06:27:59 2006 +0000

update to latest Mesa CVS HEAD

commit bb8c36690ab411c11aa8dd3d4520d513eb8f9091
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Feb 14 04:20:37 2006 +0000

Bump shadow module version number to 1.1.0 from 1.0.0
commit cc9dfab0b31c7956f99d1f1b9c195065b5e18c29  
Author: Adam Jackson <ajax@nwnk.net>  
Date: Mon Feb 13 18:57:38 2006 +0000  

(Reverted)

commit 83dd6241c8cd81e8d897bd17588ada92a945e647  
Author: Adam Jackson <ajax@nwnk.net>  
Date: Mon Feb 13 18:55:44 2006 +0000  

  Reverted, did nothing anyway, I'm not smart today.

commit 4a7f6f53cad541e8c5042a6472e3b3886fc9b7e6  
Author: Adam Jackson <ajax@nwnk.net>  
Date: Mon Feb 13 18:09:51 2006 +0000  

  Further op reduction when both src and dst alpha are absent.

commit 28ced9f3e0dd4bd81067f590a1d64ba0844edb06  
Author: Eric Anholt <anholt@freebsd.org>  
Date: Mon Feb 13 05:29:00 2006 +0000  

  Add missing ChangeLog text for r1.2 of GL/glx/indirect_reqsize.h

commit 4839e91fcab4c344e672154a447d8c7035fce1f4  
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>  
Date: Mon Feb 13 05:03:13 2006 +0000  

  HAS_MKSTEMP vs. HAVE_MKSTEMP (From Fredrik Höglund)

commit 1a4f20541a9f4f41f444d826d743899ea2dee2db  
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>  
Date: Mon Feb 13 04:56:27 2006 +0000  

  Fix linux build without libc wrappers (From Fredrik Höglund)

commit 2dc7b5e0d96a187bfbb355caa788f0fcd88eaaad  
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>  
Date: Mon Feb 13 04:43:40 2006 +0000  

  Move call to xf86WrapperInit() to OsVendorInit() in xf86Init.c and remove stubs in other DDX.

commit 34d0b9228f46c2f87be74ddde9c7d97aab091d03  
Author: Eric Anholt <anholt@freebsd.org>  
Date: Sun Feb 12 20:53:35 2006 +0000  

---
Simplify ops that would use the alpha channel when an alpha channel is always 1.0, and short circuit PictOpDst for good measure.

commit 5f45776ef3b9256bea44842d1c50f269422531a1
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Feb 12 10:30:47 2006 +0000

Add missing HAVE_DIX_CONFIG_H which caused issues with mismatched screen structure interpretations, and remove a bunch of unused junk from kdrive-config.h. Xephyr almost works on my amd64.

commit 5249416d091d59c248c8dda44529b8aa4910b1a0
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Feb 11 22:40:50 2006 +0000

Add stub xf86WrapperInits so that the servers will build even if os/ was built with XFree86LOADER set.

commit a2a5254675a6b7ef0f7da9caa76c028b7c526502
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Feb 11 19:16:51 2006 +0000

Add <string.h>, <stdlib.h>, and <stdio.h> to clear undefined function warnings after the removal of libcwrapper headers.

commit d6337c83241f0fa4bb03039a9767b58d8a1a7c91
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Feb 11 17:42:31 2006 +0000

<s.existsSync.h> -> <limits.h> so we can compile on non-BSD OS'es

commit 4fafba61d5402d4e4d2c21ba1be3ed8969b99334
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Feb 11 03:03:45 2006 +0000

Remove libcwrapper damage from GLX (requires fresh Mesa HEAD), and get it compiling in kdrive.

commit c3d14036729fd186d4ec7ca1de603e1f2d174e2f
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Feb 10 22:00:30 2006 +0000

Remove libcwrapper usage from xorg server modules. The libcwrapper is only of (marginal) use in the drivers, and that usage remains.

commit a8cec1b6656f57746758613213de1d6e5acb79451
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Feb 10 09:00:02 2006 +0000
Merge from kdrive: use RECT_PRIM to avoid tearing in xvideo.

commit efc3fab7f4b29f56fffd21304c64c03a48aa5b4b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Feb 10 07:52:05 2006 +0000

   Make kdrive (i.e. Xephyr only) buildable on FreeBSD and probably other OSes
   without linux VT switching, fbdev, and vm86 support.

commit fa3a65e33d8e893c7867ea507afc7caa1361aa9c
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Feb 10 07:47:21 2006 +0000

   Remove the include of X11/misc.h, which fails to compile and isn't
   necessary.

commit d875b9b2756b082ce93bd86016c369ea85c04d17
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Fri Feb 3 02:44:19 2006 +0000

   hw/xfree86/os-support/xf86_OSlib.h Fix sysmouse handling on DragonFly,
   mostly garbage arrived. From Joerg Sonnenberger.

commit 0946bb9427695a4314e5c43de573b3a75a18e466
Author: Jeremy C. Reed <reed@reedmedia.net>
Date:   Fri Feb 3 02:37:52 2006 +0000

   Fix sysmouse handling on DragonFly, mostly garbage arrived. From Joerg
   Sonnenberger.

commit 5e2a7af23bd0f46fd7ca34098cb297be58b7a55
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 2 21:07:06 2006 +0000

   Move the frequently-repeated code to get the pixmap that backs a drawable
   to a new function, exaGetDrawablePixmap().

commit ee3c7cbb175752db9a63b0113d0819b3fd2398
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 2 20:51:54 2006 +0000

   Remove more debugging leftovers.

commit 3366b6836572461209bb2f8aa28d9e662067dc54
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 2 20:09:14 2006 +0000
Rearrange and rename EXA code to be a bit more logically organized. Also
removes a little bit of debugging leftovers. Summary:
exa.c -> exa.c (miscellaneous code) exa_accel.c (all acceleration code)
exa_migration.c (migration logic) exaasync.c -> exa_unaccel.c (software
fallbacks) exapict.c -> exa_render.c (render extension stuff)
exaoffscreen.c -> exa_offscreen.c exaPriv.h -> exa_priv.h

commit 25d4ff870d49533d82a77f144722ff7934d52e0b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Feb 2 20:04:15 2006 +0000

Forced commit to note repocopies: exa.c -> exa_accel.c exa_migration.c
exaasync.c -> exa_unaccel.c exapict.c -> exa_render.c exaoffscreen.c ->
exa_offscreen.c exaPriv.h -> exa_priv.h

commit 2ab487d4d20e4e34e73cc6d87f41bf0836c7a8af
Author: Alan Hourihane <salanh@fairlite.demon.co.uk>
Date:   Wed Feb 1 22:20:05 2006 +0000

Add a new function RRGetRotation() which does exactly the same thing as
xf86GetRotation(), but allows for drivers to provide their own RandR
implementation. xf86GetRotation could be obsoleted by this change.

commit f4898b409376803c9a9dd8475bddd5576ff1cc59d
Author: Luc Verhaegen <libv@skynet.be>
Date:   Tue Jan 31 14:49:43 2006 +0000

Further bug #5386 fixes: Fix some problems with the EDID code: Some
bitoffsets were wrong. Unknown Detailed Sections weren't handled
properly and defaulted to Detailed Timing.

commit 437b385ce4cc3f00e14d3d39f4a2f6c80c67a0
Author: Luc Verhaegen <libv@skynet.be>
Date:   Tue Jan 31 13:55:01 2006 +0000

Bring the cvt utility up to date with bug #5386 changes. Fix 2 issues with
the generator routine: the allocated modeline wasn't nulled and
mode->name's \0 wasn't copied over. PrintModeline was rewritten and
HDisplay gets rounded up to character width instead of refused.

commit 8f3c69dcef17691f71bca7b0a2cd34f7788a97b8c
Author: Luc Verhaegen <libv@skynet.be>
Date:   Tue Jan 31 13:04:02 2006 +0000

Accept modes with less than 25% horizontal blanking again (you can push old
gtf timing to below 25%), only stop cvt reduced blanking. Users should
be free to blow up their monitors if they so choose.
Update to build against Mesa trunk.

Add libc_wrapper support for random(), which will be used in upcoming EXA memory manager work.

Remove leftover variables for cfb24 build, and finish commenting out Xglx standalone stuff, which some versions of automake get whiny about.

update pci ids

remove that, and will put it in a i810 driver specific Changelog

add changelog for i810 updates

Really allow linking against Mesa trunk to work.

commit 701b63cf1dcd3e49602114fb1dde45a74b4e1122
Author: Donnie Berkholz <spyderous@gentoo.org>
Date: Mon Jan 30 20:04:56 2006 +0000

commit dd50015b05b901fe0e60717512c854389610aea2
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Jan 28 02:20:37 2006 +0000

commit 3d1667278ff309d7f8e61a6d330f712bae5bcd41
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Jan 28 00:37:52 2006 +0000

commit ab01eb247f9e5d7c9995bf2d6432358cd64bf11d
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Fri Jan 27 12:27:34 2006 +0000

commit 261aa4403c77203f8f02b399ddd382c731dda324
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Thu Jan 26 09:04:22 2006 +0000

commit 94e678fd014c61d1d12591d7398b6591f24c3d71f1
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Thu Jan 26 08:49:19 2006 +0000

commit c5e93182905332383ca3ef5db3f334cece69c8dda
Author: Donnie Berkholz <spyderous@gentoo.org>
Date: Thu Jan 26 04:32:45 2006 +0000

commit 0dc0f17f27f99da79c99031b41b0c0e95ef035f5
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Jan 26 04:10:43 2006 +0000
Speed up checkout and autogen by removing disused iplan2p4 and ilbm.

commit 023d2b4e3c392eed1f149dc5b13a83429cd052a3
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Jan 26 00:23:44 2006 +0000

Add forgotten HAVE_BACKTRACE define.

commit 14fdd81614cdd6ef7e01976a43da8b6a3bf8386e
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Jan 25 23:05:26 2006 +0000

Remove xf8_32wid, it's dead code with no maintainer interest. Also remove
cfb24, since xf8_32wid was the only user.

commit 2e28f4104ddf94a8f9a70fe6b2a2a6859ffedc8f
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Tue Jan 24 22:05:33 2006 +0000

Allow current trunk to build against Mesa trunk

commit 0d9ed2624fe8fb95c57930da523351556ba11351
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Jan 23 22:01:34 2006 +0000

Commit #4633 - Initial mouse pointer incorrect with EXA which also fixes
the repaint of the cursor image with randr events.

commit 9148d8700b7c5afcf2644e5820c57c509378f93ce
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Jan 23 13:59:14 2006 +0000

Commit slight variation of bug #5460 which is the merge of the new shadow
code from kdrive.

commit cfdf3988ed906ab48ca4362256f8dbb8852d7ca0a
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Jan 23 13:58:19 2006 +0000

wrap with if XORG / endif

commit f51ecc66e9ad6d2c3541b1dafa7659da5a0a3a86
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Jan 23 13:54:59 2006 +0000

#include "gcstruct.h"

commit 80f45fa4d7fa011c2ae7bcb34f87aaf69176f11fe
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Jan 23 13:54:34 2006 +0000

add damage.h & damagestr.h to SDK headers

commit af5b3ea4b3d9e9c6dd6993c5e7238a366a3f508
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Thu Jan 19 14:51:09 2006 +0000

add randrstr.h to sdk_HEADERS

commit 03ebd37baba2f5af3ab502ff02ec14c15859dc3f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Jan 19 12:25:01 2006 +0000

Make error() bomb with exit code 1, not 0.

commit adce1f16e0d815e5c762407da3544a7d2eff9303
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Jan 19 00:06:57 2006 +0000

Only try to use byteswap.h on linux. Assume that everyone else (thinking of
BSDs here) has sys/endian.h, and use macros as appropriate for the
names. This should probably be in a gloabl header.

commit 1c3f8727b2349c9b988ea744f11366322d42538
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Jan 18 19:42:56 2006 +0000

More kdrive merge, fast path fbBlt to use memcpy() when possible. Good for
-5% to 60% speedup on XGetImage, and 0% to 10% speedup on copies within
host memory. Based on work by Jaymz Julian.

commit e70b64b93024d05519014fb1b76fe26bd9f3a496
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Jan 18 07:15:55 2006 +0000

Updated xgl code drop from Novell + xserver tree changes

commit b5356e0afaf2b660c8905f63d5fdecb03402b81c5
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Jan 18 07:00:50 2006 +0000

typo in last change

commit 506eca5f57b960a6650c3387047a6ae8a22181e9
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Jan 18 06:56:52 2006 +0000
Wrap sdk_HEADERS in if XORG as otherwise installing non-xorg servers breaks.

commit 8ccf4f2b8f0b5e572d2ec5f5d54731fbf83fb9d8c
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Jan 18 06:49:17 2006 +0000

This is a fix from David Reveman from the xserver tree, Make fbPadPixmap work with negative stride

commit a1f9262c64c195e0fca5f602d5ca0c252993521
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Jan 17 21:27:49 2006 +0000

file glxvisuals.c was initially added on branch accel_indirect_glx.

commit c2dedf4d17f8a5b1a8037fd2b4e29122f78945a
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Jan 12 22:14:56 2006 +0000

Thu Jan 12 17:09:18 2006 Søren Sandmann <sandmann@redhat.com>
Add new functions to enable and disable events on Map and Unmap.
Use them here to make sure Composite redirect doesn't cause Map/UnmapNotify events that would confuse window managers.

commit 847d83ec3c3e90c5b298eaf19ba55251b4a30f4155
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jan 12 00:21:59 2006 +0000

Bug #2996: libglx / libGLcore should use a dispatch table
Port all changes from the (monolithic) accelerated_indirect-0-0-1 branch to the modular trunk. This will break the Darwin and cygwin builds. Other than the changes to symlink-mesa.sh and the various Makefile.am files, the code is identical to what's in the branch.
Reviewed by: airlie, krh

commit c56e9a8849ce8dd5c09732ae1860e409e7886690
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jan 10 03:24:53 2006 +0000

Bomb when symlink-mesa.sh continues, instead of silently failing.

commit 2949c705f11f8710301555c039bcecb7e478cabd9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Jan 10 03:23:05 2006 +0000

Add all subdirs used to DIST_SUBDIRS, and files to EXTRA_DIST.
Attempt to build xeglmodule.c, not xglxmodule.c.
Add xf86Sbus.h to EXTRA_DIST, as _HEADERS doesn't appear to get the same
treatment as _SOURCES in terms of automatically DISTing.

commit 4fc9eb592a446ad5711bdaa82c60e9fe010fd76a
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Tue Jan 10 02:32:20 2006 +0000

Bomb out if symlink-mesa.sh failed.

commit 890ec849479db2510a9b4be5e5e2f7978ca37b83
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Tue Jan 10 02:30:56 2006 +0000

Add xgl to DIST_SUBDIRS.

commit 53dbd00a75313ec5301ca95b2e91d5d02bdaef820
Author: Adam Jackson <ajax@nwnk.net>
Date:  Sun Jan 8 23:43:54 2006 +0000

Remove remaining #ifdef DPSEXT stanzas.

commit 7fc9bc44e099f8f046bf707cb87ef7d736933f80
Author: Adam Jackson <ajax@nwnk.net>
Date:  Sat Jan 7 01:29:05 2006 +0000

Compile fix, again, stupid non-clean builds

commit 9d62d1e6903ccc095f784279a699b3f40a8f0cf8
Author: Adam Jackson <ajax@nwnk.net>
Date:  Sat Jan 7 00:45:17 2006 +0000

Bug #5218: Don't crash on unconfigured interfaces. (Andrei Barbu)

commit 3c58072956c28ebc3ca2eb50c1ff09823e1219d7
Author: Adam Jackson <ajax@nwnk.net>
Date:  Sat Jan 7 00:33:41 2006 +0000

One more build fix.

commit 07303c1b42afd1ada98cbc11d1ba616d366017fb
Author: Adam Jackson <ajax@nwnk.net>
Date:  Sat Jan 7 00:05:46 2006 +0000

This version will actually compile

commit 7f46aba35ee482e9b28ecc81d1a99d423fc88a70
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jan 6 23:52:23 2006 +0000

Compile fix

commit 25babf2791ad42101a86ba2a0f14564328256ee2
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jan 6 23:36:53 2006 +0000

Missed file.

commit 13c9e0c094e4e34cd1e43a7cc08b2dca39a32412
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jan 6 23:06:15 2006 +0000

Bug #5525: Build a working Xprt. (Drew Parsons)

commit fe0e8388b5d8bc8d9cf5a686bb7d3e90682d2d19a
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jan 6 18:06:02 2006 +0000

Move drawable lock acquisition into DRIClipNotify from DRIVisualizeTree, so
we only take it when clipping a DRI drawable instead of on every tree
update. Note drawable lock acquisition per-screen instead of globally,
and drop it in BlockHandler if necessary.

commit 39ce5f1544029412f4060f3e89ce1d87222ef42b
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jan 6 17:05:26 2006 +0000

Remove unused X11R4 DDX compatibility function miClipNotify.

commit 07ecb969d7eb8d4ab0bb08a55a5f40f3c8ec5e3
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jan 4 03:29:15 2006 +0000

Forced commit to note that glyph privates commit was:
Obtained from: xserver tree (David Reveman)

commit b6b88d2f62d8c596171f487dd25fd7bc85d0c5a8
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jan 4 00:05:16 2006 +0000

Correct rounding in divide-by-255 code. Obtained from xserver.

commit b9c0ae867e1b52186e26841a77745f7f5a0a76dd
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Jan 3 22:36:46 2006 +0000
Remove the manual AddFilter for convolution, which I'm pretty sure
shouldn't be necessary due to it already happening from
PictureSetDefaultFilters.

commit 601ab861b46a62b0742fffd3e937c4fab129664f0
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Jan 3 22:06:23 2006 +0000

Add glyph privates for Xgl, which uses them to implement a glyph cache. EXA
would probably also like to do this. This breaks module ABI for EXA and
XAA, and likely breaks proprietary drivers as well.

commit 1729fc882ceec392331566c95efd5968fe9e97fd
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Dec 31 08:06:00 2005 +0000

Change REGION_INIT(pScreen, &foo, NullBox, 0) to REGION_NULL(pScreen,
&foo). While it is no longer (or rather, once again not) required as of
regionstr.h r1.4, it matches the style of the rest of the xorg code.

commit c25536a7937b11a5347bfb8796d5cb6eb0445b51
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Dec 31 08:01:31 2005 +0000

Initialize the fourcc value in stack-allocated glitz_pixel_format_t
structures. Greatly reduces the number of uninitialized-value accesses
during Xgl startup according to valgrind. Allocating and filling these
in by hand on the stack seems very shady to me.

commit e6dab3d7c429a2d30d31ff88c4554e870011e051
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Dec 30 12:05:47 2005 +0000

Fix the AC_TRY_RUN for sys/linker.h which had no hope due to lacking a
main() to instead use a nice AC_CHECK_HEADERS that works. Also, fix the
nearby SYSV IPC check which was lacking an argument and giving bogus
results (it's "AC_TRY_LINK(includes, main, yes, no)").

commit eef16c36ad6e90fd8eaaad4d8bd6b1205bc28a66f
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Dec 30 05:44:14 2005 +0000

Add #undef BSD44SOCKETS, without which the listener socket on FreeBSD would
be created without the port number due to xtrans's define not being
used when xtrans was compiled in the X Server.

commit 7aa0ea23bc9b8df582fe06f2f8bc39dce34583c7e
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Dec 30 04:11:42 2005 +0000

Add an empty all-local target for FreeBSD make's sake, which doesn't deal with .PHONY.

commit 49a9249239b0dd105b83a101db6e32549978f0d5
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Dec 29 21:11:41 2005 +0000

Make kdInputMachine static const, shrinks .data a bit.

commit 6d7ee4167d9daef9b793789a70aa724c4fe6bf4
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Dec 29 20:54:08 2005 +0000

Style fix, make SCREEN_EPILOGUE two arguments instead of three.

commit b1efb3810cfea8116d76bae3ff3acfee521f4793
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Dec 29 20:42:54 2005 +0000

Missed one

commit 858b4bc14a7adc7314ce5043c7ff8ca1891dd0c9
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Dec 29 20:38:29 2005 +0000

missed changelog entry:
   Enough build fixes to get {sdl,ephyr,fake} to link.

commit 54922aeadb29df0a1819af3f616131aa56e140a
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Dec 29 20:29:26 2005 +0000

Disable building LBX by default.

commit fc69a2e729532ee062af6676fb187a89f7ffe8a
Author: Dave Airlie <airlied@linux.ie>
Date: Thu Dec 29 08:42:49 2005 +0000

Remove PowerMAX_OS define it never worked , it'll never work again, finishes running joke of OLS2005

commit 25d3852b833bc0b61ce8313ce116251a2602b827
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Dec 29 00:44:20 2005 +0000

Undo spamming of libv's ChangeLog entry.
commit d6646307f063b938c44d6193a2e8872e178aa90f
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Dec 29 00:19:33 2005 +0000

Add necessary *CONFIG_H declarations and a force-off of XF86* extensions in
mimintext in the XGL case. Prevents mismatched structure sizes on my
_XSERVER64 machine. At this point, with the uncommitted render/ diffs,
Xglx starts up but displays badly.

commit 3664c3ebf348d07ae3fe301f8720adf32cf6d64
Author: Luc Verhaegen <libv@skynet.be>
Date: Wed Dec 28 15:22:21 2005 +0000

Bug #5153: standalone CVT modeline generator.
- add hw/xfree86/utils/cvt/, cvt.c, cvt.man.pre and Makefile.am.
- Adjust configure.ac and hw/xfree86/utils/Makefile.am for cvt.
- Add MonPtr->reducedblanking and Option "ReducedBlanking" to the Monitor
  section.
- Check for reduced blanking in xf86CheckModeForMonitor and disallow modes
  with less than 25% blanking otherwise.
- Fix some warnings in hw/xfree86/common/xf86Config.c.

commit 08708f7d616a7c0a596fb71dd7acd76d45257fec
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Dec 28 11:48:14 2005 +0000

Merge from xserver: Make the existing ChangePictureFilter and
ChangePictureTransform screen hooks get called at appropriate times.

commit 31d0fdde19598ce9375cc9638ad4e2c8b5af8d9a
Author: Adam Jackson <ajax@nwk.net>
Date: Wed Dec 28 10:46:56 2005 +0000

Remove a debugging printf

commit 64ac7401ad5022462279dff4dcfb12844c9857ae
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Dec 28 10:43:02 2005 +0000

Fix a copy’n’paste-o that would result in mis-rounding of the results of
several composite operators in A and G channels.

commit 9ceffb6b92e55f0d74d71489900d4394of14dfd9
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Dec 28 10:37:17 2005 +0000

Merge from xserver a header for shm’s server internal functions, which are
called by DDXes. Desired by XGL, and should be used in other locations, probably.

commit b1b40ed6a87f72d07825624730cca193d5a89baf
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Dec 28 10:31:46 2005 +0000

Initial commit of XGL build infrastructure and XGL code changes for building within the xorg server tree. Requires additional, uncommitted dix changes to successfully build, and successful running is still yet to happen.

commit 36061c75ae42aa733cde9b3fd05e0c8280b31655
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Dec 28 10:10:59 2005 +0000

Forced commit to note repocopy from xserver CVS as of a few minutes ago.

commit 05c139d4cddf11d39c0168d0c80ac1dbdd069b4c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Dec 28 10:02:54 2005 +0000

Enough build fixes to get {sdl,ephyr,fake} to link.

commit aeb770f645ec2d591b255ec4ab06adcb1beafa5f
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Dec 28 02:43:50 2005 +0000

recommit previous changes to evdev.c

commit ce7c0c89375ec74f89ae5727998fd75f8768d280
Author: Dave Airlie <airlied@linux.ie>
Date:   Wed Dec 28 01:57:11 2005 +0000

some updates for default colormap install

commit 022aa1127c7dcd133ce73dbc12a10bfba8b1ed6e
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Dec 28 01:01:06 2005 +0000

Get Xsdl closer to linking.

commit 27d79ab2bbebb634d0b69ec851c72283a7514eb0c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 27 23:03:15 2005 +0000

s/XSERVER/KDRIVE/
Remove Imakefiles.

commit 9dd0af6cb4e2e8976ada57a4f4ed16faae090a9d
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 27 08:31:37 2005 +0000

Skeletal kdrive build system. Totally non-functional atm.

commit 7fd73d2953cf9449c15462cf4bf67639db64f997
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 27 08:29:50 2005 +0000

Build fixes: XSERVER_LIBS -> KDRIVE_LIBS, config.h -> kdrive-config.h

commit 2f3ac6e5fcbd0e954a094fbb6b975d7c8816c44b7
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 27 08:26:03 2005 +0000

Start importing kdrive.

commit 6798fd0170f4225ce4e69148978533fcee9bdc34
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Dec 26 19:13:52 2005 +0000

Bug #4190: Add a rule for 'make relink' since automake sucks.

commit 8fc4ea8620913777a903ee2b4f22c306d5778623
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Dec 26 18:55:09 2005 +0000

Nuke unsupported NDBM routines. Shrink the hash table a bit, over
25% of the buckets were going empty.

commit ed33c7e98ad0c542e9e2dd6caaa3f84879c21dd61
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Dec 26 04:23:58 2005 +0000

Remove unused -xkbdb and -noloadxkb options. Rename -ar1 and -ar2 to
-ardelay and -arinterval, respectively. Remove XKB banner from help text.

commit 7e3cb9a09ac422179b89773f7fb14a462d25434
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Dec 25 22:25:15 2005 +0000
Remove unused layer module.

commit 9b083369ded22b589eac8ac2058e06ec8a3b171178
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:  Fri Dec 23 20:11:12 2005 +0000

Change list of X server man pages in "See Also" section to list the ones actually included and remove the ones that are no longer.

commit 5fd978b1e7bce9169f87712a4a7c2c36a68ac0a
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Fri Dec 23 07:40:44 2005 +0000

Make LBX configuration default to auto.

commit 5230e86b1cc841bfb35806618052a835b7eb7e7
Author: Dave Airlie <airlied@linux.ie>
Date:  Fri Dec 23 04:13:37 2005 +0000

fix up xgglx.c

commit feb735ce5bb0cd391136f1c73476703df82dc9b0
Author: Dave Airlie <airlied@linux.ie>
Date:  Fri Dec 23 02:07:58 2005 +0000

Well there were a couple of snapshots later than CVS available outside of Novell, so I've done a crazy merge to try and get them into a workable CVS, I suspect I may have failed.. there is a pre-xgldrop-merge tag if I did.

commit ade104ce5a016623c1ce97b0d52b531185b35baf
Author: Dave Airlie <airlied@linux.ie>
Date:  Fri Dec 23 01:51:40 2005 +0000

check drawable is available

commit 7fb521e80d6e2c05e9475e74f8bf80bfbe74da95
Author: Dave Airlie <airlied@linux.ie>
Date:  Fri Dec 23 01:50:04 2005 +0000

from davidr's tree update some fixes

commit c88a3145d057ab72466a3ea8b789bf419e4efc33
Author: Dave Airlie <airlied@linux.ie>
Date:  Fri Dec 23 01:49:21 2005 +0000

from davidr's tree if source picture defined return
commit e59508566f11982aa3f4be383597d0e6178718c2
Author: Dave Airlie <airlied@linux.ie>
Date:   Fri Dec 23 01:13:28 2005 +0000

fix glx up for newest glitz interface

commit d822bc159672e7327054e572b659ae7dde040e83
Author: Dave Airlie <airlied@linux.ie>
Date:   Fri Dec 23 00:08:35 2005 +0000

make xgl code at least build against latest glitz.

commit 6e2086395d99081d8d682b90ecf650a06e41fc2c
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Dec 22 23:32:49 2005 +0000

fixups for newer glitz API

commit f3ae42c0fd910b7f9feb9be91cb056bce0cd999
Author: Dave Airlie <airlied@linux.ie>
Date:   Thu Dec 22 23:31:15 2005 +0000

small fix towards new glitz interface

commit 2af7e94aeb6847159a3439301e9c93e62a12b1a0
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Dec 22 13:54:08 2005 +0000

Adjust the rules for auto-generating some source files, so that they work
on both GNU make and FreeBSD's make.

commit 0d7ec5c7d9b451066a079fe56bce9722341a91ff
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Dec 21 02:30:08 2005 +0000

Update package version for X11R7 release.

commit b37e738d5f4e1769bdeee98acca788aeeb1556bcc
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 20 21:40:19 2005 +0000

Fix an fb regression on A8 pictures. (Fredrik Höglund)

commit 03d37eb03864cfc1a2f8d239d5a4c8341bf274f7
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 20 21:34:21 2005 +0000

Bug #5359: Fix a segfault (Mark Kettenis)
commit 7b89b643c12fa0f7a662b3ff76e05ece53101312
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Dec 19 16:44:21 2005 +0000

   Bug #5116: Refer DRI section details to dri.fd.o.

commit 3ef3add90351e3cb7b54dbcedc234bc5d3d65f1c
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Dec 19 16:34:07 2005 +0000

   Stub COPYING files

commit 3566307c8d44f89622ea51169f67c79092e56d1
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Dec 19 09:18:29 2005 +0000

   Fix typos.

commit 137447c5f3e6f1914ac869297f823ae93ce428ac
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Dec 15 01:54:45 2005 +0000

   Update to 2005-12-14 snapshot from pciids.sf.net

commit 2cf86fcee41e3fd2ae48c5088da11e19077e42e65
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Dec 15 00:20:27 2005 +0000

   Update package version number for final X11R7 release candidate. Update
   release string to 6.99.99.904.

commit f1ba3b4f33a928a3a59538799b3863de5e87e70e
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Dec 14 20:11:16 2005 +0000

   Bug #4718: Command line flag to disable ACPI.

commit cf605eb91619a8c0589a08674ffe3e018471b3fc
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 13 17:35:26 2005 +0000

   Build libglx correctly when not building the Xorg DDX.

commit b076dd787ff71c4b385ab4e2e4eb367f3de378f6
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Dec 13 17:34:06 2005 +0000
Spell it XINERAMA_SRCS, not PANORAMIX_SRCS.

commit 3666dbb5f3e06fa6a72def64556d64cf73141777
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Dec 12 23:33:55 2005 +0000

Remove unnecessary include of dgaproc.h that broke Solaris builds.

commit 438a5549f08ab03443d45dd46323579a2f2e4ba2
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Dec 12 03:06:18 2005 +0000

Bugzilla #4715 <https://bugs.freedesktop.org/show_bug.cgi?id=4715> Files in xserver/xorg/Xext not included in tarball after make dist

commit 62f3ef930adc7edd49b27dd1f7b0f51bc8bc0afa
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Dec 9 18:35:21 2005 +0000

Bug #5258: Restore binary compatibility with 6.8.2's PictureRec. (Aaron Plattner)

commit b99dea9df9f907a3536c0db1c39cc67931a5b1
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Dec 9 18:32:46 2005 +0000

Bug #4935: Fix includes. (Eric Anholt)

commit f4957ee94810b471110dee6bf03d7413399b45db3
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Dec 9 18:30:51 2005 +0000

Bug #4809: Re-fix that doesn't break distcheck. (Alan Coopersmith)

commit de22d0c2264bd6dbacbbb4160d09c7e84ad37e70
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Dec 9 15:30:05 2005 +0000

Fix a thinko so the code matches the comment

commit 6fcb049cd0d2291da5943176716d1f7bb85fde2
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Dec 9 06:49:39 2005 +0000

Bug #1288: Additional refactor of the driver probe logic to keep ati loaded before atimisc.

commit 17ac5e9fec1e07bd18ae1407043c300cb4695ede
Push the fallback drivers to the end of the list so driver probe order stays useful.

commit 80ea67e37980d07438749f1a4dfdd7ee1086799
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Dec 9 05:36:41 2005 +0000

Bug #4361: Change driver probe logic to read the driver list from disk instead of using a compile-time array.

commit 7fa2d11d85d43f42aa9c02f8d772c91d1b04df43
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Dec 9 03:57:41 2005 +0000

Bug #4361: Define XF86CONFIGFILE properly so config file generation works

commit 26b41ff43959a07a778be3d6e4db8da036f09de3
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Dec 9 03:02:21 2005 +0000

Fix sgml docs build.

commit d6f98cbdb8fb74c504a92939d3741420e9ed7110
Author: Adam Jackson <ajax@nwk.net>
Date:   Thu Dec 8 19:33:09 2005 +0000

Bug #3944: Fix 24bpp packed pixel. (Søren Sandmann Pedersen)

commit f9cecebe8c5cd674c08fe8ed860d1c456e42e937e
Author: Adam Jackson <ajax@nwk.net>
Date:   Thu Dec 8 19:27:13 2005 +0000

Bug #4928: Fix compilation for Alpha. (Stefaan DeRoeck)

commit 3a6bdf0715b994d6ecaa5b6e448695a8a8ec7d72
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Dec 8 19:21:12 2005 +0000

Add configure option to set the top level font dir.

commit 008c2dd5e4614e6a21123ee3a2ac9c5d3bafa97a
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Dec 8 17:55:19 2005 +0000

Add configure options to allow hard-coded paths to be changed.
Allow hard-coded paths to be configurable.

Change to use the app-defaults default dir configured in libXt.

Change *man_SOURCES ==> *man_PRE to fix autotools warnings.

Bug #5230: Fix whitespace bugs.

Bugzilla #5219 <https://bugs.freedesktop.org/show_bug.cgi?id=5219> Make sure all optional sources are included in EXTRA_DIST, even if they aren't used on the platform the distballs are made on.

Disable the xf8_32wid logic for now, breaks distcheck

Bugzilla #4809 <https://bugs.freedesktop.org/show_bug.cgi?id=4809> Patch #3908 <https://bugs.freedesktop.org/attachment.cgi?id=3908> xf8_32wid and cfb24 only need to be built on sparc

commit 98231e6b38e98976f4ac2b9417ecfbc37a8cbe9a
Update package version number for X11R7 RC3 release. Update release string to 6.99.99.903 (i.e., 7.0 RC3).

Define XFree86Server only where it is required.

Fix GL build when srccdir != builddir (Donnie Berkholz).

Add missing XvExtension and XvMCEXtension defines.

Fix typo: xorg_bus_linuxbsdpci ==> xorg_bus_linuxpci

Bug #5160: Fix the modular build to try to use the same logic for choosing the architecture/os-specific bus support as monolithic.

Bug #5093: Fix fb for non-SSE machines. (Xavier Bachelot)
Only build dlloader modules by default.

Fix usage of XFree86LOADER/XFree86Module/IN_MODULE and update loadable module builds to reflect this change.

Change *mandir targets to use new *_MAN_DIR variables set by xorg-macros.m4 update to fix bug #5167 (Linux prefers *.1x man pages in man1 subdir)

Add configure option to install libxf86config.a (disabled by default).

Bug #5118: Use "rm -f" instead of "$(RM)", which isn't always defined.

Fix Xprt library dependencies in the case that Xprint is auto-detected by configure.

Make sure XKM_OUTPUT_DIR (used in code) ends in / (so paths don't get hosed when appending file names) but XKB_COMPILED_DIR (used in Makefiles) does not so install-sh -d doesn't get confused when the directory already exists.
commit 385730d23944c24dd9af45b27f62c1161abc48b2
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Nov 20 04:15:15 2005 +0000

Add xext to list of modules xorgcfg depends on.

commit 63aa96c08a8390621b017ea498c88cf88152024b
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Nov 19 07:15:50 2005 +0000

Update pkgconfig files to separate library build-time dependencies from application build-time dependencies, and update package deps to work with separate build roots.

commit d3b6653a2892e8c929c79fe3ace19ac9d8366fc4
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Nov 19 03:53:04 2005 +0000

Bug #4824: Build XTrap support by default, matching monolith.

commit 627ac1fe1dbc6c070575da7bee9e686a7dce5262
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Nov 18 23:34:04 2005 +0000

Bug #5060: Fix non-Linux DRI on 64 bit post Linux 32/64 changes.

commit e3ec048ff2fe0ee0862472e9b147b7ce488ea898
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Nov 18 22:43:50 2005 +0000

Bug #4928: Unbreak Makefile.am for Alpha chips. (Stefan DeRoeck)

commit de95d8ee197a0bb738037195997d754a20e10254
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Nov 18 18:02:24 2005 +0000

Bug #4859: Don't segfault on bad DDC read. (Tony Houghton)

commit 21f7d03dbc347f6bf97a40671275ac75df15bd10
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Nov 16 07:28:19 2005 +0000

Fix builds when not building the Xorg DDX.

commit fb2d9df869af0e96f1488ef7cf364e01a9d28f3f
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Nov 15 00:29:23 2005 +0000
Make fb build on darwin/ppc without addition #define hacks

commit 16b315affa30e34b9bab81778978484137a5d9bb
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Nov 14 21:04:12 2005 +0000

Use glcontextmodes.[ch] from Mesa.

commit 0c110c80e7afbef50bb354cf1df30123ed048250
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Nov 14 20:18:03 2005 +0000

Add GL_CFLAGS so that GLX can find its proto headers when using separate
build dirs.

commit fc81c13e4dafb0eb818879454ee7ae3fa3dae6d0
Author: Kean Johnson <kean@armory.com>
Date:   Mon Nov 14 18:49:30 2005 +0000

Dont prevent SCO platforms for using the default ZAxisMapping now that the
OS layer correctly sends z-axis events when the wheel button is used.

commit bd9fb533b31c2427d854199fa59dccd357cf874b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Nov 14 00:01:34 2005 +0000

Default xkb-output directory needs trailing slash.

commit 267cbff41ffff69c692911d128462f5bab2a69
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Nov 13 20:53:24 2005 +0000

Bug #5019 <https://bugs.freedesktop.org/show_bug.cgi?id=5019> xserver
installs manpages into 'man1' instead of 'man1x'

commit 3179d29b8212e197634d81fbeb8dd2e8df995735
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Nov 12 18:03:34 2005 +0000

use RGB_DB not RGB_PATH as that's what configure defines (Jürg Billeter
<j@bitron.ch>)

commit 0e7e4e7064df64c29b1a0cccd84fba1be7c748f18
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Nov 10 04:59:21 2005 +0000

Fix typo to enable DGA support.
EXTMODULE is required to build DGA support into extmod.

commit e4554db8f87c6a39a3087186395972000bd2085c
Author: Kean Johnson <kean@armory.com>
Date:   Thu Nov 10 02:41:20 2005 +0000

Dont pass wheel mouse buttons as real buttons, map them as Z-Axis movement
on SCO and USL. Re-instate the ZAxisMapping default for the mouse
driver.

commit 1b26fe6d2092c202141a0371f47ef1cd7c66ee00
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Nov 9 21:28:54 2005 +0000

Update package version number for X11R7 RC2 release. Update release string
to 6.99.99.902 (i.e., 7.0 RC2).

commit f886e632b8dab1bfa0de42b9759a8284ecd9b94f
Author: Matthias Hopf <mhopf@suse.de>
Date:   Wed Nov 9 17:05:41 2005 +0000

Bug #4915: ButtonMapping option which allows to define arbitrary button
mappings (including left-handed mouse etc.). Fixed incorrect usage of
non-reversed, but ZAxisMapped buttons for state detection. Nuked unused
part of reverseMap.

commit a25871ae52dd5ce094ba8c1b2021dd027d3e71bd
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Nov 9 01:00:46 2005 +0000

DRM 1.0.5 import

commit c9709c0a38af46368726857f7261cebe84e53911
Author: Kevin E Martin <kem@kem.org>
Date:   Tue Nov 8 22:47:57 2005 +0000

Add newly checked in files to Xorg server build.
Fix release date. Enable DGA extension by default.

commit f8430a1b8651f4b52d9d3b54694a60d929b48925
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Tue Nov 8 19:04:56 2005 +0000

Bug #2880, add functions for byte and word level access to pci config
space.
Fix broken utf8 again.

commit 5390c7ab05d23f64e6d9afaa558be246af6d6e1b4
Author: Kean Johnson <kean@armory.com>
Date:   Tue Nov 8 06:33:30 2005 +0000


commit f5814bf3fff5352ed6edef4c58aadf2d4593f094
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Nov 8 03:12:43 2005 +0000

Don't reference noXkbExtension when building without XKB. (Bob Terek - Sun Microsystems)

commit e73cdba865f36ebf78c2dc4ff674b4d9bfe85013
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Nov 7 21:03:49 2005 +0000

Fix Xvfb to work properly in depth 15 mode. Fixes XTS5 XCloseDisplay-3 server crash.

commit 890ed0e082e048fa8daf48229b40558381bd131d
Author: Thomas Hellstrom <unichrome@shipmail.org>
Date:   Sun Nov 6 16:40:59 2005 +0000

Fix a bug where a system memory pixmap got a wrong address if memcpy() fallback was used for downloading from screen.

commit 70aedcf32a0c924fd073f5b36d20813e8323026b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Nov 5 18:56:50 2005 +0000

Bug #4948: <https://bugs.freedesktop.org/show_bug.cgi?id=4948> Incorrect URL in log file for Xorg CVS. Also fixed wording of statement to not refer to monolithic CVS since modular uses the same code, so it was appearing in modular builds too.

commit 89e661d61f1b9c70a08237476fa1f7f42c1783ab
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Nov 4 21:37:32 2005 +0000

Only use fbCopyAreaemmx if planemask is FB_ALLONES (fixes XTS5 XCopyArea tests 22 and 23).

commit 0b150a05e6fadca7ee8240697d6cebeada0c53b3
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Nov 3 17:12:53 2005 +0000

Whitespace change just to make sure I created the branch correctly.
Fix vendor string and release version reported by the servers. Enable security, lbx and xevie extensions to give us parity with monolithic tree.

commit: 90cf8e339b71c2f8f2d7a362e6e1ca8078d7f4fd
Author: Kevin E Martin <kem@kem.org>
Date: Thu Nov 3 17:08:06 2005 +0000

Use APP_MAN_SUFFIX for Xserver man page instead of hardcoding section 1

commit: f23defef285b4a5bb58405589294bd557c9bb01
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Nov 3 16:57:01 2005 +0000

Add support for enabling/disabling DBE (part of generic enable/disable extension support in the server).

commit: a311bfa73afa1af76f81958d23bc8e0c631d6828
Author: Kevin E Martin <kem@kem.org>
Date: Wed Nov 2 15:56:40 2005 +0000

Fix support for enabling/disabling extensions loaded from modules.

commit: 462a2407d540eac831c9be4dcece8a16aa1cea6ac
Author: Kevin E Martin <kem@kem.org>
Date: Tue Nov 1 15:01:51 2005 +0000

Add xorg-server.m4 for driver dependency checking.
Update pkgcheck dependencies to work with separate build roots.

commit: 56101c9d6ec3585a0a8550da4b83dd399e3bcce6
Author: Kevin E Martin <kem@kem.org>
Date: Mon Oct 31 05:45:40 2005 +0000

Fix fd leak by closing them in the ACPI code instead of just using shutdown.

commit: 7993486e80711bd6f6f5b6c2b1f2ac32bfa735b
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date: Sun Oct 30 17:38:49 2005 +0000

RandR: Add a driver fun to let the driver determine the physical size of a screen size (display mode). Useful for faked widescreen modes, modes which are scaled by the driver, etc. This really helps fixing RandR's
sometimes dumb DPI assumptions.

commit c818d3a1a5439c546c687927a99d69712602ed5e  
Author: Thomas Winischhofer <thomas@winischhofer.net>  
Date: Sun Oct 30 09:27:06 2005 +0000

Add xf86RandRSetNewVirtualAndDimensions to loader symlink

commit fdbb3ea60949a12eb2f4805d16e8acc2348e39c7  
Author: Thomas Winischhofer <thomas@winischhofer.net>  
Date: Sat Oct 29 21:31:23 2005 +0000

Add function for drivers to change RandR's idea of the virtual screen size.  
(This allows drivers to reserve a larger virtual size at start and change it later)

commit e921eec1c6d6ce32630977bd876c529a7c694459  
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>  
Date: Sat Oct 29 00:12:33 2005 +0000

Make X -> Xorg symlink at install time.

commit f842c229d4c4dbd5c01364f9e99709bedfd32be6  
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>  
Date: Fri Oct 28 16:01:17 2005 +0000

build fix on alpha

commit 7416fd61a17a70a2c27c4b1d19796955c296dc7a  
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>  
Date: Thu Oct 27 21:03:27 2005 +0000

Improved stack trace dump code for Solaris - try fork & exec of pstack  
first so we can see the names of non-exported symbols that aren't  
visible to walkcontext/dladdr1 code.

commit b588bdf62ac3758dd7188706078d79fa276a303e3  
Author: Dave Airlie <airlied@linux.ie>  
Date: Sat Oct 22 04:38:50 2005 +0000

programs/Xserver/GL/mesa/X/xf86glx.c: Missing initializer in xf86glx.c  
spotted while debugging something else.

commit 59279da49806b032027bb54410bc2513d21e3d9e  
Author: Adam Jackson <ajax@wnkn.net>  
Date: Fri Oct 21 19:06:13 2005 +0000

Bug #1429: Report input device type correctly. (Stéphane VOLTZ)
commit 4a8072011895e6f472c429af7503fc07e0561144
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Oct 21 18:50:09 2005 +0000

    Bug #4730: Byte-swap the pixmap ID correctly. (Neil Campbell)

commit 81e913d3106066de73792f59f3e50e2b5458c567
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Oct 21 18:23:33 2005 +0000

    Bug #4840: Typo, x$xRES -> x$RES. (George Fufutos)

commit f5a58178347878e0409b592330a07867bea02bef
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Oct 20 23:24:47 2005 +0000

    Make sure that the __gl* Size prototypes are seen in all the places that
    they need to be seen.

commit 279cf9f79da5778b6e14eccc437379d73e3bec5b0
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Thu Oct 20 22:41:28 2005 +0000

    Bug #4817 <https://bugs.freedesktop.org/show_bug.cgi?id=4817> Restore '='
    to '==' in test for mmx_capable.

commit 1f43d218cc24358a0379535ed517c23011633c31
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date:   Thu Oct 20 21:45:40 2005 +0000

    EXA: The "optimization" for using a fill operation instead of 1x1 copies
    checked the destination drawable's dimensions (!) instead of the
    tile's. Really....

commit 15f56b203dbc14ea59885d40fd4bed3da9e8e190
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu Oct 20 18:52:51 2005 +0000

    Move xf86XTrapModule.c to dixmods, guess at a build system.

commit da43c778f4a831061ad2ec8b8a312b7a54c9cd79e
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Oct 19 22:45:54 2005 +0000

    Bug #3224: Degrade XKB fallback message to X_WARNING.

commit 4ebd26f04b32f1b09e0759f1a83437d0b1c4d646
Bug #3196: Fix Load foo.so syntax.

commit af211a9b1bca0aa631558e5d6ce013095f9802
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Oct 19 22:36:22 2005 +0000

Fix PCI bus scan on ia64 E8870 chipsets.

commit 5744308e2957781449bef6fee9b465617a8384d
Author: Kevin E Martin <kem@kem.org>
Date:   Tue Oct 18 22:06:54 2005 +0000

Update package version number for RC1 release. Update release string to
6.99.99.901 (i.e., 7.0 RC1).

commit 2769e3e72c470b472d0ae013e256a7ee73c3e53f2
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Oct 18 19:43:48 2005 +0000

Fix distcheck by forcing Xorg to be installed before chmod/chown.

commit dd0d010e9c34278f968be486a6c5c91e021b6609
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Oct 18 19:14:08 2005 +0000

Fix parallel builds my ensuring libdmxconfig builds first.

commit 79e6ac79f83b6c88a868d9d2235d9c9be75e8b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Oct 18 07:18:21 2005 +0000

Don't use $< in explicit rules since neither BSD nor Solaris make allow
that.

commit fb282ef43a1936decdef57f16a8363b2ada9f983b
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 18 04:03:01 2005 +0000

Add miext/damage so misym.c can export DamageDamageRegion.

commit 959db6028d232dc76396cb658aa48d3b4605aed
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 18 04:02:31 2005 +0000

Export DamageDamageRegion. Not bumping the ABI version since we did that
already for this release.

commit b61c828b0455ec1d4a7ffbb54b5ac9b65764a458b
Author: Kevin E Martin <kem@kem.org>
Date: Tue Oct 18 02:23:58 2005 +0000

DRM 20051017 import

commit d6a40bcd4a745b5d6d1070deb696b21d128ca0fe
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Oct 18 00:32:55 2005 +0000

Change default install dir for app-default files from
$(sysconfdir)/X11/app-defaults to $(libdir)/X11/app-defaults to match
the monolith & allow localization

commit e7007f7d51c9e1d39118865fefb1716c579a70bd
Author: Adam Jackson <ajax@nwnk.net>
Date: Mon Oct 17 22:42:03 2005 +0000

More automake 1.7 braindamage: use mkdir -p, not .

commit 151ba8b67f88a721f9f72d3019212b22f5cd3e2
Author: Adam Jackson <ajax@nwnk.net>
Date: Mon Oct 17 22:25:58 2005 +0000

Work around automake-1.7 braindamage by providing an explicit rule for
XOrgCfg.

commit eec3df1503e561aff6656e15c73b25a0bba1b06b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Mon Oct 17 17:11:12 2005 +0000

Fix whitespace in AS_HELP_STRING uses, convert all help strings to use
AS_HELP_STRING.

commit 1859c62607d567aa05334df1662f7249c983f793
Author: Kevin E Martin <kem@kem.org>
Date: Mon Oct 17 07:18:59 2005 +0000

include/dix-config.h.in Add support for more extensions
Add missing files to EXTRA_DIST

commit ccfe9e7e9b49cbbf7e50bf1a5c33178f27f79eb
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Oct 16 21:57:34 2005 +0000

Link Xprint config directories in $(C_LOCALE) list to C locale dir, not
commit a7d6a4fb321415b8aaad72760ff8a1ca3fd077f9
Author: Donnie Berkholz <spyderous@gentoo.org>
Date:   Sun Oct 16 03:02:53 2005 +0000

  Change '==' to portable '='.

commit c2e461c7e970830ea430de35e5f352d144e9f0239
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Oct 15 20:44:44 2005 +0000

  Fix typo and add new Makefiles to AC_OUTPUT
  Fix typos
  Add xorg.conf.man to CLEANFILES
  Add missing files to EXTRA_DIST

commit 34b7b57b3c8050763a542c6adb4b5c8ed80b642
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sat Oct 15 19:34:28 2005 +0000

  Doh, remember to add this file.

commit 744aa34ca5228ea176cc56a7b0d48bbf5f29b0b5
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Oct 15 02:19:09 2005 +0000

  Add an additional meaning to the "dirty" flag. Now, if !dirty && !area, the
  pixmaps's contents are undefined, so we won't need to upload the
  undefined contents in MoveIn. Use the ExaCheck* for async ops as well,
  so that dirty is always tracked. While the performance impact for my ls
  -IR test was not significant (though the avoiding-upload path was being
  hit), it's likely to be important for the upcoming Get/PutImage
  acceleration from ajax.

commit 21e7339c1eadd1148ee462be99c8fa02c8d39
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Oct 14 22:44:56 2005 +0000

  Hook up lbx.

commit d62943c040fd3d45079e9918e57bf74f993b585d4
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Oct 14 22:19:51 2005 +0000

  Set default font path to match the default in the monolith so fonts are
  actually found.
Install Xorg & xorg.conf man pages even when not building docs

Add sysv and sco os-support subdirs and add simple EXTRA_DIST Makefile.am in those dirs. Remove unsupported os-support subdirs (bsd, dgux, hurd, nto, os2, pmax, qnx4) that have no maintainer and we don't dist.
Add Options.

remove reference to non-existent agpgart.h

Add XTRAP_LIB to XPRINT_EXTENSIONS to fix xprint build when xtrap is enabled.

Require glproto >= 1.4.1 if building DRI with GLX. This fixes a build failure on a number of hyperpipe functions.

Remove reference to XF86config-4. Add xorgcfg(1) to See Also list.

Set substitutions needed in xorgconfig man page.
AC_SUBST VENDOR_STRING & VENDOR_RELEASE for xorgcfg's app-defaults file

commit b349b20d783252d5126451142419aae554f9b776
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Thu Oct 13 18:08:24 2005 +0000

Dist NOTES.
Dist helper shell scripts.
Dist XAA.HOWTO and a few more unused C files.
Dist xorgconf.cpp.
Fix DIST_EXTRA typo.
Clean yacc and lex generated files only during make maintainer-clean as we
don't expect users to have those tools installed.

commit 35a767590e481b15ae66dccc2dd91098992b2751
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Thu Oct 13 01:13:58 2005 +0000

Fix stupid mistake in yesterday's allocator commit, would cause exa to
consider a random available memory size

commit a16dabd05ee7ec97877f07bd40ed83c01e72fc22
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Oct 12 11:15:44 2005 +0000

Remove an RM line that appears unnecessary and was breaking the build at
xf86DefModeSet.c with FreeBSD make, where RM was undefined. While here,
make the build of xf86DefModeSet.c depend on its sources, so it'll
rebuild properly, and make it a normal CLEANFILE rather than a
DISTCLEANFILE, since the intention seems to be to build it at the
user's build time.

commit b819c8378fbf29f185332e8435a80eb35991cd1f
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Wed Oct 12 08:22:31 2005 +0000

remove unneeded line of code

commit e573b272bf2b06fb62d0306dce966f3230ead967
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Wed Oct 12 07:46:36 2005 +0000

Use proper access size when reading pixel based on bpp of the source pixmap

commit 55efb41f6cc064763cbfd3ee2a1239dc46cb109a
If a window background is a 1x1 pixmap, read the value out and go to exaFillRegionSolid rather than sending piles and piles of Copies to the hardware.

commit fce11fd03acc1f3f1dafb79fc8fff0251cf5473
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Oct 12 02:11:06 2005 +0000

Fix typo (DIST_EXTRA -> EXTRA_DIST)

commit 12994b9afbc18bfb7209f677abf673415c9ddf15
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Tue Oct 11 23:11:37 2005 +0000

Fix a couple of bugs in the offscreen allocator. One mostly harmless was causing our search loop for evictable blocks to possibly skip a good candidate, and another was the allocator would occasionally use area->offset as if it was the base of the pixmap, while for a pixmap that is not in available state, it is not. This caused some funny miscalculation leading to overlapping pixmaps and accesses beyond the end of the framebuffer. To make things clearer, I renamed save_offset to base_offset, made sure it's the one used everywhere in the allocator, and only align "offset" for the client at the end of exaOffscreenAlloc().

commit 8444a1f3918b0433f89cae31673ab63628b4543d
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Oct 11 21:01:04 2005 +0000

missed commit

commit 3b683b63eed603ae58a8cddb48eb81f7ba0dbdf
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Oct 11 20:12:24 2005 +0000

missed ChangeLog entry for previous commit

commit b4450f3242ab408e80bc3d6d5d1cf6765f3e5339
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date:   Tue Oct 11 19:03:02 2005 +0000

Add DGAReInitModes, Part 2

commit d91d18e1d6d663244288748ab86a35a6c151a535
Author: Thomas Winischhofer <thomas@winischhofer.net>
Add DGAReInitModes in order to allow the driver to change the list of
supported DGA modes. (Part 1)

commits: c1a2abadfbb862cbaca3e23d0c1317ce5473ebdd
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Tue Oct 11 14:50:47 2005 +0000

fix a typo

commits: 697f64a22ac5a7742a0022605a1074351296d4f8
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Tue Oct 11 14:50:03 2005 +0000

check randrp has been initialized

commits: 2828d92c6ca400b603b6a20a221d9c858732292f
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Tue Oct 11 14:45:01 2005 +0000

tweaking.

programs/Xserver/hw/xfree86/common/xf86RandR.c
programs/Xserver/hw/xfree86/loader/xf86sym.c
Add a new function
xf86GetRotation to allow third party modules to obtain the current
rotation.

commits: cad18ec979e38ef80a606f0e4abf2142b9d0d2b1
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Oct 10 10:07:47 2005 +0000

don't move x or y depending on the screen size change

commits: 7172f94aa4f0655b8aab6c67eeff2a5f5ac4b418f
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Oct 10 09:31:49 2005 +0000

rework that again

commits: 7c1d9a31a36552467d194c7d009c17de526256c2
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Oct 10 09:24:28 2005 +0000

a further tweak to the randr cursor position fix

commits: 13f958f8e8420e406f24e01d320f29002e860b7
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date: Mon Oct 10 05:58:41 2005 +0000
Add missing {Prepare,Finish}Access() wrappers for the tile pixmap in the fallback case

commit d82ae5b55ca3b6abe4c6afa7b9c39777a5f67308e5
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Oct 9 23:47:52 2005 +0000

Bug #3254 <https://bugs.freedesktop.org/show_bug.cgi?id=3254> Make sure
screensaver & DPMS timeouts don't overflow when multiplied by
MILLI_PER_MIN. (Reported by Zachary J. Slater)

commit 29b5f846d261976f466d2c7181d6a75de670066b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Oct 9 17:47:34 2005 +0000

Bug #4715 <https://bugs.freedesktop.org/show_bug.cgi?id=4715> Add
SecurityPolicy to EXTRA_DIST (Bill Crawford)

commit 046234b3ebdfe2212e9e87d70d287f69a6f59d6e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Oct 9 02:03:22 2005 +0000

Don't try the accelerated glyphs path for component-alpha text (which I
don't expect drivers to be able to accelerate without exa assistance).
Instead, drop back to plain old miGlyphs for a 62.5% +/- 1.5% reduction
in runtime of my ls -IR test (n=5) with component alpha. While a
reasonable approach would seem to be making a better test to see
whether the entire path would be accelerated and force migration
appropriately, my attempt at this made the situation much worse.

commit 526d1502df8db6799c9d1155b866ce79cef90872b
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Oct 7 21:29:39 2005 +0000

another update to the RandR fix (thanks Aaron)

commit 5a71a5667eb5b01e0f65f9310f4af1f6e5711ab7
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Fri Oct 7 19:01:10 2005 +0000

   Add Xprint init scrips to EXTRA_DIST.

commit 470213753b158225b44a39a872599344acbc7101
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Oct 7 18:15:08 2005 +0000

   update the last RandR fix
commit 348242f35ae2b869ef3902410355f3266fc0288
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Fri Oct 7 15:39:52 2005 +0000

    programs/Xserver/hw/xfree86/common/xf86RandR.c Use PointerMoved instead of
    SetCursorPosition, as PointerMoved will call AdjustFrame to reposition
    the window if necessary and avoid the cursor ending up offscreen.

commit 578e18d11b3d61449e1dd7eb804e1748f19c68f3
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Oct 7 14:27:47 2005 +0000

    Add darwin to dist
    Include missing docs in EXTRA_DIST
    Include headers and other files in dist

commit 148df64a05d69adaac4b0f3684b846eb1da60219
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Oct 7 04:11:02 2005 +0000

    Add README.compiled to dist tarball

commit ff258ac2783203ed2a7698894d951391d1aecebc
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date:   Thu Oct 6 23:45:29 2005 +0000

    Clients tend to set picture->repeat when not necessary. Most HW cannot
    accelerate repeat NPOT thus triggering software fallback (this is the
    case with gnome desktop for example). This adds a simple optimisation
    to exa that removes "repeat" when it's obviously useless, that is, the
    single picture instance covers the entire rectangle being used

commit e4ed43c3a6c248ba2b82b8bbf29da537a68407e6
Author: Sørren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Oct 6 22:25:35 2005 +0000

    symlink.sh:
    New files linked:
    xorgconf.cpp Options
    usb.3 usb_hid_usages
    lynx_ppc.S
    BUSmemcpy.S IODelay.S PortIO.S SlowBcopy.S
    sun_inout.s
    xaaTEGlyphBlt.S
    xkbcomp/compiled/README
    New files excluded:
    All of lib/GL/apple
    xlib18n/*/mapfile
xxserver/xorg/configure.ac, xkb/Makefile.am:
Install README.compiled in the xkb output dir

commit 1614a31a9dad9482ae4526c194c2bae1c4993f8f
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Oct 6 21:55:41 2005 +0000

Bug #4699: Correct some memory leaks in EXA and damage related to region handling.

commit cd9ff6ae81e04bbfe14364407ccb28df05fc063
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Oct 6 20:16:13 2005 +0000

cpp processing for Xvfb man page

commit 370b8c8f1cb1a3531d52ea3b430852a0d76b2a4c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Oct 6 20:14:43 2005 +0000

App-defaults file not supposed to have .ad suffix when installed Fix cpp rules to set needed flags for app-defaults file

commit 2770233069d3845c681bea8eccff22e92254487e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Oct 6 19:59:26 2005 +0000

Don't build "ev" example on systems without <linux/input.h>

commit 460145a5d52b5325fa5e920cee3699fcf7dd9afe
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Oct 6 19:37:39 2005 +0000

Add cpconfig.c to EXTRA_DIST.
Add CURSOR.NOTES to EXTRA_DIST.
Add extrapci.ids to EXTRA_DIST and fix xf86PciIds.h rule.

commit e63f76caa1b1342422567fdeb9f8af24792c8ca1
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Oct 6 17:55:54 2005 +0000

Sun bug #6326551: xkbSetDetectableAutoRepeat broken when using XEvIE
(Derek Wang, Sun Microsystems)

commit 5f30a7b10286bf4f55821acd4eb5580a8f5a3c56a
Author: Benjamin Herrenschmidt <benh@kernel.crashing.org>
Date: Thu Oct 6 08:08:04 2005 +0000
Bug #4689: Treat DirectColor as TrueColor in Render. It fixes some crashes with xcompmgr when using apps that use a DirectColor visual for their windows

commit 9000e0321baf1e25e1796e6a333aad0e5a22cbe2
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Oct 6 04:05:30 2005 +0000

Install correct man page and add to dist

commit 9b894df44b575f768a2400d044d8c1eb6ef2ec97
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Oct 6 02:40:41 2005 +0000

Include dmx-config.h for modular build
Use <X11/extensions/dmxext.h> instead of "dmxext.h"

commit 30c1369bf5816f6fd7bd52d9a9dbcb72500684e2f
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Oct 6 02:35:22 2005 +0000

Add support for building DMX config and examples programs Add missing files to EXTRA_DIST Install Xdmx man page

commit 1f9b6de1ccd999c90ba825cf5fbdfa29770224a6
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Oct 6 00:34:29 2005 +0000

Clean up generated files to pass distcheck
Clean up generated files to pass distcheck Distribute getconfig.man.pre, not getconfig.man

commit 61cd478b545de0313271cf6852e2df770c8f5914
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed Oct 5 22:39:41 2005 +0000

Bug #3652: Server-side GLX support for GLX_SGIX_swap_barrier and GLX_SGIX_hyperpipe extensions. (Eric Kunze, SGI)

commit e891d9c078bd31447ae3e1fc7f8c15953b0bb916
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Oct 5 22:19:09 2005 +0000

Update to 2005-10-05 snapshot from pciids.sf.net (includes a couple new Radeon id’s).

commit dc6ac8e46f80157960a24a1be1fb83f22df45a0
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Oct 5 21:38:40 2005 +0000

Add DGA configure option and add various files that we should be dist'ing.
Simplify xf86DefModeSet.c rule a bit.

commit 8391eaa44a1ae3744ad8c45f5d148ba362d2c9dd
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Oct 5 21:13:49 2005 +0000

Preprocess and install XOrgCfg.ad as in the monolith.

commit a9df169f108b15d312421e498675cd2e48206660
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Oct 5 17:27:58 2005 +0000

Add missing $(DESTDIR) to custom install target

commit a6cbe0776fccc8fb19a2bf2ecef41559eed6e5cef
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Oct 5 16:39:09 2005 +0000

Fix the rest of the XFree86 DDX options that require an argument to say so
instead of reporting "unrecognized option" when the argument is
missing. Also give correct error instead of "unrecognized option" for
options only available to root.

commit 8c524f9966d2a167ea71dd81e235140e9db31471
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Oct 5 15:33:40 2005 +0000

Xdmx & Xprint also need xau & xdmcp module dependencies

commit 9f3ad652518326316307e587b409b750a144bd3
Author: Luc Verhaegen <libv@skynet.be>
Date: Wed Oct 5 07:27:52 2005 +0000

Fix lnx_pci.c's xf86GetOSOffsetFromPCI return value. Clears up the resource
ranges awkwardness and the "INVALID MEM ALLOCATION" warning.

commit da989e988ce960ec4f07fceb4c36b30c2e37f4a
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Oct 5 02:18:10 2005 +0000

Xnest depends on xdmcp & xau modules too

commit 9e8b5f3d478ca18a9ff9c26745de77e91a5d36d9
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Oct 5 01:38:50 2005 +0000

Make Xorg -config stop lying to people and claiming it doesn't exist when 
you fail to specify a file name. Also, include it in the list of 
available options for non-root users when listing all available flags.

commit 34a8411ede185553f1387ee0bf534cf77b0fc004
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Oct 5 00:55:08 2005 +0000

    Bug #4038: Unbreak the SYSVIPC check for cross builds. (Detlef Vollman)

commit f47f00ab747563678c8625de5e5b2a588660064e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Oct 4 11:24:09 2005 +0000

    Mark the temporary pixmap dirty if UploadToScreen succeeds. Failure to do 
so resulted in a solid black glyph if the font rendering actually 
resulted in a fallback (subpixel AA, for example) and the temporary got 
migrated after 10 or so glyphs.

commit 89a1a91b88b94b341075bc208941337ce11465b7
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 4 07:42:21 2005 +0000

    Add miext/cw to the module loader include path so that misym.c can export 
miDisableCompositeWrapper.

commit 43625a47063c246e7b9d687caded0b7e2ea0dc6
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 4 07:31:53 2005 +0000

    Bump the video driver module ABI minor version to 8 so modules statically 
linked against miDisableCompositeWrapper won't load on older servers. 
#include "cw.h" instead of #include "cw/cw.h"

commit ca57db6fc1e6100c47ad935d626fdd490ed6116e
Author: Aaron Plattner <aplattner@nvidia.com>
Date:   Tue Oct 4 04:30:33 2005 +0000

    Export miDisableCompositeWrapper.

commit b2e451b93c20efc49a6cc565239432b2c705fe37
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Oct 4 03:44:14 2005 +0000

    Correct the test for whether projective transform is necessary. Also, use 
"affine" to describe the variable (universally) on suggestion from
vектор. Corrects a rendercheck failure.

commit cded97a0ad717f4f9120b37d2687fa661696c9b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Oct 4 00:45:42 2005 +0000

Add #include <xorg-config.h> for modular build

commit 4ae4fc7d51aeb0f27bed52f7e6a346745f3ea453
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Oct 4 00:43:16 2005 +0000

Add gtf to xserver/xorg/hw/xfree86/utils

commit d51962378ef6371456e034d6d7f6780e05bc1207
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Oct 3 19:31:50 2005 +0000

Bug #3781: Only use fbCopyAreammx when alu == GXcopy. Originally Gentoo bug #96053, patch by bartron@gmx.net.

commit 6d4b350dee9495c54e6e5492815885f1d8455ac9
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Oct 3 16:46:14 2005 +0000

Bug #3815 <https://bugs.freedesktop.org/show_bug.cgi?id=3815> Patch #3463 <https://bugs.freedesktop.org/attachment.cgi?id=3463> GNU/kFreeBSD Xserver support (Robert Millan)

commit 22b4200b01310e7b4743ef0b3541c3053a2d8279
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Oct 3 15:41:10 2005 +0000

Whoops, need to be in DIST_SUBDIRS too.

commit 14a2bd33307fd937804a9fb03787ec30858a05c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Oct 3 15:37:57 2005 +0000

Add missing ] (Dawid Gajownik)
Add getconfig (Dawid Gajownik)

commit 84141fc299b03b5552be093f9b698a85bc670d65
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Oct 3 11:43:55 2005 +0000

Merge r1.36 of fbcompose.c from xserver CVS: Special case projective transforms so we can avoid doing the expensive
64-bit math. Unroll the bilinear interpolation loops for an extra boost. I tested this with the up/downscaling cairo-benchmarks with Xvfb and saw a 12% +/- 4% decrease in time taken to run them.

commit c024262eae4e00567ccb66a59b4d572621233cbc
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Oct 3 10:20:29 2005 +0000

Merge r1.2 of fbedge.c from xservr CVS: Optimize spans where the same value is being added to multiple pixels. This improves the speed of rendering wide trapezoids. I tested this with a small set of xlibs cairo-benchmarks with Xvfb and saw a 4% decrease in time taken to run them.

commit a7e3c6fa8ceb6a3a423377aa32ab0da5a6ab9286
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Oct 3 06:31:48 2005 +0000

Real configure check for execinfo.h (Yuri Vasilevski)

commit e3d2a7d57bc57453d66aa63ca7fe4d910b64737c
Author: Adam Jackson <ajax@nwk.net>
Date:   Mon Oct 3 06:29:14 2005 +0000

Bug #4393: uClIBC lies and defines __GLIBC__ even though it's not source compatible with glibc, so the backtrace support check fails. Work around this by wrapping the code in a configure check for execinfo.h, and emulate detection for the monolith. (Yuri Vasilevski)

commit 5037d3441d65f1fb6493c3b55137e1fb5edd6d0
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Oct 2 22:17:38 2005 +0000

Bug #1465 <https://bugs.freedesktop.org/show_bug.cgi?id=1465>
/etc/init.d/Xprint should use PROJECTROOT from build (Grzegorz D?browski)

commit b05e78dd40e1fe915096362f32c3af8aee0ed36a
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Oct 2 19:30:57 2005 +0000

Fix typo in MAN_SRCS (Dawid Gajownik)

commit 8814896da83b19be01beedd0b2b3380298778328
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Oct 2 08:53:18 2005 +0000

Fix include path for commit of bug #4616.
Bugzilla #4616:
- Merge various fb/ bits of COMPOSITE support from xserver, which weren't necessary before due to cw hiding the issues. Fixes offset calculations for a number of operations, and may pull some fixes thatcairo has wanted for XAA as well.
- Add a new call, miDisableCompositeWrapper(), which a DDX can call to keep cw from getting initialized from the damage code. While it would be cleaner to have each DDX initialize it if it needs it, we don't have control over all of them (e.g. nvidia).
- Use the miDisableCompositeWrapper() to keep cw from getting set up for screens using EXA, because EXA is already aware of composite. Avoiding cw improved performance 0-35% on operations tested by ajax in x11perf.

commit 2e82429f8957ed0268c0e4e4fe5aed9093f33960
Author: Ian Romanick <idr@us.ibm.com>
Date: Sat Oct 1 22:25:13 2005 +0000

Refactors __glXImageSize and __glXImage3DSize into a single function. It replaces all calls to the old functions with calls to __glXImageSize with the new parameter list.
I have also added 'target' as a parameter. This is a stepping stone to the code in patch #2410. Basically, if the texture target is one of GL_PROXY_*, the image size is always zero. This gathers all the checks for that into a single place. I have *not* modified the existing callers to take this into account. They still do their own checks for GL_PROXY_. However, when the generated versions of those functions are added to the tree, they *will* rely on that.
The code growth is mainly due to the new 40 line comment before __glXImageSize.
I have tested this with a few of the texture using demos and tests from Mesa, including tunnel, texdown, and drawpix.
Reviewed by: Adam Jackson, Eric Anholt, and Brian Paul.
Bug #3822: out of bound reads in fbbltone and fbblt (Mark Kettenis, Thierry Deval).

commit 54b2a14f0fa4397f3e9ae75dd63d5cacfdd778eb
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sat Oct 1 17:30:58 2005 +0000

Bug #3411: fix handling of keyboard Autorepeat rate in xorg.conf.

commit a07dd03748c8fa2633e294ee4d9ab38265970e5e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Oct 1 07:17:55 2005 +0000

Add hw/xfree86/getconfig

commit abc6aa50fb52fa4fa9b9436dbc3a70f86e62dc27
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Oct 1 06:27:12 2005 +0000

Oops - fix build/install of fbdevhw.man

commit 13e0db19d8c0b1df636f218bcbfbb2c54fa7576f
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Oct 1 06:19:02 2005 +0000

Adding more doc files & fbdevhw man page

commit b5ce065a5e91e2ad3213ea8c711cfe7ed9060c16
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date:   Fri Sep 30 08:54:44 2005 +0000

RandR: Fix failure handling (Closes #4635; Thomas Winischhofer)

commit 4608a2b654be84b2e345bcada63422d18c74a06e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Sep 30 02:37:57 2005 +0000

Man page processing/installation and other doc file updates

commit aa74468aa59b95424cd0000179b8985b267d639b
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Sep 30 02:03:45 2005 +0000

sparse cleanups. s/0/NULL/ and mark a few things static.

commit c65fde5343719d3e9ebc76cc371c6f5f7948de8c
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Sep 28 20:38:42 2005 +0000
Make the server distcheck:
- Fix up the XpConfig directory to remove the stuff it installs
- Add a few files to CLEANFILES here and there

commit 58abce3f90504dd48838a2f7ae7bb5db6a6cfe70
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Sep 28 20:01:37 2005 +0000

- Use the dirty flag (which should be set correctly all the time,
  particularly thanks to Prepare/FinishAccess) to avoid DFS/memcpy on
  pixmap move-out if it's unnecessary. This was disabled in KAA because
  cache misuse on ATI made me guess that this code was wrong.
- Unwrap Glyphs on closescreen.

commit f53404bdbba23fd46420564565ab815f7e20b101
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Sep 28 16:55:25 2005 +0000

Add kbd_mode build system

commit 940158a6f2e98069a47293d713df674e16ad8a11
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Sep 28 03:37:22 2005 +0000

Replace all uses of __glEvalComputeK (and the doubly redundant
  EvalComputeK) with calls to one of __glMap[12][df]_size. This was
  tested with progs/samples/eval (from Mesa).

commit 806d74bc0640f4f3d0c36a36a5289b01685
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Sep 28 01:57:47 2005 +0000

Add __SVR4 #ifdefs to work in non-Imake builds.

commit 88957862b812b3e1e19d5e11365a22dc249cf4d2
Author: Kevin E Martin <kem@kem.org>
Date: Tue Sep 27 23:28:46 2005 +0000

Fix distcheck build and install errors.

commit 003655c02ad3a031031bb4ac859966a513f63e10
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Sep 27 18:36:14 2005 +0000

Make XpConfig build system call mkfont{scale,dir}
Add forgotten Makefile.am

commit f3d0cb4a5722e0512bbdcd179215532795cba38f
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Sep 27 16:15:55 2005 +0000

Get XpConfig build system in pretty much working state

commit 1c2e8b1ecc8b7b8c8562461eed7892f22d17e71
Author: Kevin E Martin <kem@kem.org>
Date: Tue Sep 27 15:11:56 2005 +0000

Fix make dist to include only sgml files.

commit ca64aab609e3585234410cd8d908f8e1efe5c788
Author: Kevin E Martin <kem@kem.org>
Date: Tue Sep 27 14:09:31 2005 +0000

Add build system for building docs and fix setuid issues.
Add build system for sgml docs.

commit 1a4e30d508e62ab304722c3525748ff0e3c2899d
Author: Kevin E Martin <kem@kem.org>
Date: Tue Sep 27 13:47:26 2005 +0000

Include xorg-config.h so the generated file will also include it.

commit 30ff9e26196dbda8435e0dcb96864e81c8cb136
Author: Ian Romanick <idr@us.ibm.com>
Date: Tue Sep 27 00:04:40 2005 +0000

Fix some problems that caused incorrectly annotated prototypes for
__gl*_size functions to be used. The result was that, on x86, the code
would be compiled with FASTCALL semantics, but the callers would not.
This should fix GLX protocol errors that people are seeing. There
doesn't appear to be a bugzilla associated with this problem.

commit 6c5c54b9a2872f1bb7de36a8d2d4efcef70b14c6
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Mon Sep 26 23:07:44 2005 +0000

Various small fixups to get XpConfig to 'build'

commit 604f7c64efb57a48ec667c2ed62d3b4bad0c302b
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Mon Sep 26 22:45:43 2005 +0000

Check in skeleton Makefile.am's for the rest of XpConfig

commit 8907195d784ff2c72a00b64edab6a8ac3b31dec5
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Sep 26 20:58:26 2005 +0000

Take care of more files from monolith's Xserver/hw/xfree86/etc dir:
  hw/xfree86/utilis/ioport/Makefile.am
Add ioport and pcitweak utils from monolith hw/xfree86/etc dir.
Generate xf86DefModeSet.c from vesamodes & extramodes
Add apSolaris.shar to EXTRA_DIST

commit 9abcb5e65628c938c6f01b685ab8fbffae7bc3b
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Mon Sep 26 19:33:06 2005 +0000

Add initial build system for XpConfig

commit 0531c4be2f1a30082cfec5e411ab34d17978d66e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Sep 26 02:41:38 2005 +0000

  alanc@alf:/export/alanc/X.org/head/cvs-rw/xc [7:40pm - 628] head -14
  ChangeLog
  include xorg-config.h for modular build
  Adjust XF86CONFIG defines for modular build
  Fixes for modular build:
  - include modular server config headers
  - change default XCONFIGFILE to xorg.conf
  - define XKB_RULES_DIR if not defined by Imake

commit 256fa24945bcaa6e5a68a48c1b757f8084e88a38
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Sep 25 17:48:09 2005 +0000

  Add SecurityPolicy file for XCSECURITY extension.
  Add README to EXTRA_DIST

commit 54639964cc344f1086196729fde37515f11e7972
Author: Bogdan Diaconescu <b_diaconescu@yahoo.com>
Date: Sat Sep 24 21:56:00 2005 +0000

  Changed the license to a X/MIT one

commit 3192f400c72b3b606fccc1798d577737502897b43
Author: Adam Jackson <ajax@nwnk.net>
Disable the {Open,Close}FullScreen DRI protocol. Remove empty FullScreen stubs from drivers, comment the non-empty ones.

commit a5477ae7ac9a56c1a586950db1dee6661bff149d
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Sep 24 02:40:51 2005 +0000

Add scanpci, xorgcfg, & xorgconfig utilities.

commit 2ba865b3f57340fd1d75f7614e17f615cc127b89
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri Sep 23 23:04:04 2005 +0000

Fri Sep 23 19:00:06 2005 Søren Sandmann <sandmann@redhat.com>
Apply patch from Ronald Wahl to make sure that the stack pointer is not modified at points where we access external variables. (Bug 4269).

commit 7554e1bf29e5ae8e76f88bac2994ea45a924f2b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Fri Sep 23 00:27:07 2005 +0000

Sun bug #6321613
<http://bugs.opensolaris.org/bugdatabase/view_bug.do?bug_id=6321613>
xorgcfg dumps core when it reads a configuration file that has a Monitor Section, but does not have a "VendorName" entry inside it. (Henry Zhao, Sun Microsystems)

commit 99793543c0ffcf4d699549fccc2bf0ed12aed6a19
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Thu Sep 22 12:40:41 2005 +0000

put back some agp related allocation messages

commit 02566dff4abbb6888f719727c169b966617a83d
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Thu Sep 22 12:33:36 2005 +0000

fix typo

commit 56e7766c775385b0c6e09e6a65a1c8e10dba786e
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Sep 21 22:26:07 2005 +0000

Bug #4541: Fix text drawing in the case where a list contains no non-zero-sized glyphs. Several variables weren't updated, resulting in rendering simply stopping when this case was hit. (Anders Kaseorg)
commit 32497ff479d0c34e05eb5acfcfd5f7e186bac3227
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Wed Sep 21 18:14:32 2005 +0000

Accept --with-xkb-output argument to specify output dir for compiled xkb
keymaps. Define XKM_OUTPUT_DIR and XKB_BIN_DIRECTORY. Add XKM_OUTPUT_DIR and XKB_BIN_DIRECTORY.
Add XKB_CFLAGS.

commit 361a9eb9533aa88f86e057185629e50f9eef26
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Sep 21 10:27:53 2005 +0000

- Change migration-in rule slightly: previously, if your score was less
  than the max, it was bumped, and then if you were above the threshold
  you got moved in. Instead, do the above-threshold check separate from
  score starting out less than max. While this will likely make thrashing
  cases worse, I hope it will fix some issues with long term performance
  (think of an xcompmgr with a backbuffer it's doing only accelerated
  operations to. If some new pixmap comes in and bumps it out, even once,
  it will never get a chance to re-migrate because its score will be
  maxed). Change migration-out to be the same way for symmetry, though it
  shouldn't ever affect anything.
- Fix a lot of debugging output, both in terms of printing quality, and
  completeness. The fallback debugging covers a lot more now, pointing
  out new areas for improvement. Debugging toggles are now centralized in
  exaPriv.h.

commit 6a29c4cec156a135da1d9edcbe65995f7a84de7cb56
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Sep 21 07:43:01 2005 +0000

Add support for hardware accelerating tiled background painting. One
example of this is the root weave, which paints slightly slower on SiS
now in my testing. However, according to keithp some apps use this
feature for a sort of cheap backing store, which this could help with
significantly. While I haven't done much performance testing with it,
it will at least rule out one possible source of terrible performance.

commit 1115ff4c008deea6d6cafe939e4ce6d0b3ed4fccc0
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Sep 21 00:38:05 2005 +0000

Bug #4487: Add the bsd subdir to DIST_SUBDIRS. (Joshua Baergen)

commit 00bd8968b264c1f69487dd99c212e0ce889b11db
Author: Adam Jackson <ajax@nwnk.net>
Bug #4257: Move cfbcmap.c to cfb_common_sources.

commit b7e723ed6f23cc8d85f1f1eced9d8ccbc2a6b38c
Author: Adam Jackson <ajax@nwnk.net>
Date: Tue Sep 20 23:32:21 2005 +0000

Missing backslash

commit 15b2f94de5e2cc7e4df8d897d562dffe431c82c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Sep 20 18:26:24 2005 +0000

Update CVS project tag & notice about pci.ids license in output .h.
Update to match recent changes to pci.ids, extrapci.ids, & pciid2c.pl for
people building on systems without perl.

commit 7d0f47c43c5c177cae0f375ceaeef892e4c9663a
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Sep 20 15:50:31 2005 +0000

Add --disable-install-setuid option so you can build as non-root and
chown/chmod later. Also disable by default on platforms that don't need
setuid root X servers (Darwin & SPARC's, according to
InstallXserverSetUID settings in the old Imake config files).

commit b623c60745ca486667657fc39ad517d1f7a7794
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Sep 19 22:44:49 2005 +0000

Linux/Alpha support (Stefaan De Roeck)

commit bd906c6b803b286c399ca80e437a21c14e808a3
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Sep 19 18:54:05 2005 +0000

Update to latest version from pciids.sf.net
Sync with updates to pci.ids & PCI id list in nv driver

commit 535cd292c809314efe4730a27b0271adfa842775
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Sep 19 18:38:26 2005 +0000

#include "xf86Axp.h" -> "shared/xf86Axp.h" for modular build. (Stefaan De
Roeck)

commit a1bcf25a1f819768672ace837cb0a3d0c66937656
Break EXA ABI while we still can. Add coordinates to the UploadToScreen hook so we can upload a subset of a pixmap, and convert the current drivers to respect that. Use this support to directly UploadToScreen in exaGlyphs, providing a 47.4% +/-2.4% decrease in wall time for ls -IR programs/Xserver in an antialiased gnome-terminal on an M6 (n=3, caches hot). I would have bumped major version, only I can't tell what the EXA_VERSION_* is supposed to be doing as opposed to the module version.

commit 074913c8a9c1f66c8752387db2c81ad669e91878
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Sep 17 20:02:02 2005 +0000

- Don't try to upload 0 byte-per-pixel (PICT_a1) data using RADEONHostDataBlit.
- Disable the shortcut for switching from 3d to 3d in radeon_exa.c. It appears that we do need the cache flush here, thought it's not clear why. Disable the 2d to 2d shortcut while here, since I'm unsure of what we're doing. Exposed by the following bit:
- Bug #4485: Add a new routine, exaGlyphs, to handle font drawing. Glyphs were being accumulated in from non-migratable scratch pixmaps, causing the destination pixmap to move towards screen but the migration necessary for source never to happen, leading to abysmal performance. Instead, copy the scratch glyph data into a real pixmap first, then composite from that into the destination, allowing for migration. time ls -IR from programs/Xserver showed 26.9% (+/- 6.3%) decrease in wall time (n=3).
- Create exaDrawableUse* wrapping exaPixmapUse*, but which are aware of windows needing backing store. Makes migration code prettier, and ensures that composited windows will be migrated as normal when we turn off cw for EXA. (issue brought up by keithp)

commit be2bdab4339e493bb0ac3d0e36508b7aa1cd6e92
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Sep 15 06:46:05 2005 +0000

Bug #3990: Require glproto in the cases that it's necessary (DRI or DMX with GLX). (spyderous)

commit ef7ee0f68af6bfb4ee56115ac2f3c1b7425755
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Sep 15 05:55:21 2005 +0000

Bug #4046: Install the X.Org server setuid root. (David Schleef)

commit 88d7eb1f7ed6afc85c07797838714f2601356018
Bug #3889: Create the log dir on install, and allow configuring specifically that directory. Failure to have the directory keeps the xorg server from starting.

commit 25a0ecdc1868f4b53225b92e8cdd222814e2da2a
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Sep 15 04:07:19 2005 +0000

Don't put a version number on the module filename.

commit 0888ad3874414e32535fecebd717ee7ab86f9d4cc
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Sep 14 07:49:22 2005 +0000

Build xf8_32bpp, which is wanted by the mga driver, and export elf.h, which is wanted by the rendition driver.

commit dfb5da93bc16b2fd2b00e939dbe101a04bdeab4f
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Sep 13 20:59:05 2005 +0000

Turn on DRI by default on Linux, NetBSD, FreeBSD, and fix the build of the module for FreeBSD by setting some missing defines (XFree86Module, IN_MODULE) in the dri directory. Note that those missing defines should be somewhere generic, since there are other consumers of them, but I haven't figured out where.

commit 12fbcfefe672ec226bdbc7597bf2fd2cb0ee1e19
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Sep 13 18:37:35 2005 +0000

Add some initial BSD support for the xorg server. Incomplete on NetBSD, OpenBSD, and non-i386/amd64 FreeBSD for sure. Plus I haven't actually run it yet.

commit 51eb6e83a3b2721703ca50758853bbf9f99fe4d2
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Tue Sep 13 15:28:29 2005 +0000

Tue Sep 13 11:27:05 2005 S%Giuseppe%@ren Sandmann <sandmann@redhat.com>
* programs/Xserver/miext/shadow/shadow.c (shadowDamageBox): Add missing REGION_UNINIT.

commit 133edf1b499b2c794fccc9a1860c1b5526b58869
Author: Eric Anholt <anholt@freebsd.org>
Don't define POSIX_SOURCE on any BSDs, since it breaks things.
Define NO_SYS_HEADERS, as the monolithic build does. Helps FreeBSD.
Don't include validate.c in the library, since it seems to be a userland
  test program.

commit c3d6799cee7ff8411b3a05a7ab7e2a9e80c95059
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Sep 13 05:44:47 2005 +0000

Bug #594: CAN-2005-2495: Fix exploitable integer overflow in pixmap
  creation, where we could create a far smaller pixmap than we thought,
  allowing changes to arbitrary chunks of memory. (Søren Sandmann
  Pedersen)

commit b290884719e18646326f0c2412c2494a07fe3cfd
Author: Adam Jackson <ajax@nwk.net>
Date:   Tue Sep 13 00:44:52 2005 +0000

  Bug #3284: Make the DRI lock reference count per-screen.

commit 846f797f37c1ae57a8dad981113b1139359d8c94
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Sep 12 08:24:48 2005 +0000

  Add missing fontsproto and fontenc to REQUIRED_MODULES.

commit 5b218617fa8ba52bf65aef35da39e06c662495e6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Sep 12 07:53:16 2005 +0000

  Add missing resourceproto to REQUIRED_MODULES.

commit ade158d238475ce923fbc5c49275c78cf3864223
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Sep 12 07:07:59 2005 +0000

  Define WITH_VGAHW, since we always build it; add to Xorg headers.

commit 34dc481a16c0c1cbed69a9ec7172331b59b85e9a7
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Mon Sep 12 07:02:46 2005 +0000

  Put DMX AC_CONDITIONALS at the top level, since they must always be called.

commit b0f6fe1f38b448b5f1a280e86b01353865866c70
Author: Eric Anholt <anholt@freebsd.org>
Add some optional (disabled) fallback debugging code to the async code, for better tracking of when we're hitting software.

commit 1c003ccf5d68baaef6afaefdc75eff964f2a62fc35
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Sep 11 19:08:10 2005 +0000

Add a pair of hooks, PrepareAccess() and FinishAccess(), which get called around CPU access to the framebuffer. This allows the hardware to set up swappers to deal with endianness, or to tell EXA to move the pixmap out to framebuffer if insufficient swappers are available (note: must not fail on front buffer!).
Submitted by: benh

commit ca210830bd361e3d91b6bc741c495b61c424d1d2
Author: Adam Jackson <ajax@nwk.net>
Date: Sun Sep 11 18:43:55 2005 +0000

Simplify life for EXA drivers by reducing some [Con,Dis]joint ops.

commit 04f81cacb9fd0944879b2c23a99fa3a1ae979b12
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun Sep 11 18:33:31 2005 +0000

OpenBSD also doesn't like defining POSIX_SOURCE: it limits available functionality in headers beyond what's used by Xorg.

commit 089b4272cf32e9429c10ae666c2fbd4a0b93
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Sep 11 01:16:14 2005 +0000

use RGB_DB not RGB_PATH as that's what it's looking for
define HAVE_XKB_CONFIG_H so setting xkb-path works (Jürg Billetter)

commit 2f9d01c9e9681d80235a70263e2e087dc6c181cde8
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Sep 8 01:15:47 2005 +0000

Remove some references to mfb/cfb support that is no longer there.

commit b5d42012f9be87f3b45a089c596ce6dba8845794
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Sep 7 01:30:23 2005 +0000

Fix typo resulting in failure to swap between RGB/BGR properly. (Stephen P. Becker)
commit c8de8c23fbc8b3296747f429a02c0c0682b74bf5
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Mon Sep 5 07:43:51 2005 +0000

Fix tests for maximum number of colours when creating a colourmap, so a
32-bit visual (e.g. ARGB) doesn’t overflow an int when attempting to do
1 << 32. (Benjamin Herrenschmidt)

commit 5c5c51fa6da03f19831632a092761a1e4b653b
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Mon Sep 5 07:40:50 2005 +0000

Initialise private arrays with calloc, rather than standard malloc.
   (Benjamin Herrenschmidt)

commit 691669c0121494df90c8523f7d17e01ba0b14a57
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Sat Sep 3 07:08:58 2005 +0000

   xorg-server.h -> dix-config.h (thinko).

commit 4b2f5ba1b5d59fd6bd7f82da5730f72e8df04858
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:  Sat Sep 3 03:27:55 2005 +0000

   Use macros from xtrans.m4, issue error if not found.

commit 733a6d7a268945d149bcea159253408bedc69b12
Author: Jesse Barnes <jbarnes@virtuousgeek.org>
Date:  Sat Sep 3 02:21:36 2005 +0000

   Add EXA driver writer documentation for the benefit of future generations
   of X hackers.

commit 854010d71dc0f1e9b73c76d4c92cf3f1da625
Author: Daniel Stone <daniel@fooishbar.org>
Date:  Fri Sep 2 03:22:01 2005 +0000

   Add -include dix-config.h to GL/mesa/X to catch __XSERVER64, et al.

commit 287336f3e9e5023acbfbba6508b05a68cca9dd0
Author: Kristian Høgsberg <krh@redhat.com>
Date:  Thu Sep 1 19:56:14 2005 +0000

   Teach xkb how to optionally run xkbcomp from $bindir instead of
   $datadir/xkb.
Make RGB_PATH configurable.
Move I2C modules back to $(moduledir)/multimedia.

Include xkb-config.h if we have it so we pick up the paths defined there.

Save keyboard LED state on startup and restore on exit so text console mode
LEDs match text console mode state. Move push of streams module earlier
so it's loaded before we start using kbd ioctls provided by the streams
module.

Use the $(moduledir) makefile variable instead of @moduledir@ so it can be
overridden at make install time.
Remove driverdir and inputdir from pkg-config file. The directory layout of
moduledir is fixed and well known by drivers.

programs/Xserver/hw/xwin/winmultiwindowshape.c Fix off by one error (Colin
Harrison)

commit 94fbd5e6d2c67b70edcabe22a9de8b9aabec6
Author: Daniel Stone <daniel@fooishbar.org>
Date: Thu Sep 1 14:56:35 2005 +0000

commit a65c5796133d126b1810749b5206607e7c42d787
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Aug 31 14:58:09 2005 +0000

commit 9d3b5e899d6f899ea3361e6dc82938c22d70d0f3
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Aug 30 22:34:14 2005 +0000

commit fa6fbd018da939fda7cc2b9a9aa27179675a178
Author: Kristian Høgsberg <krh@redhat.com>
Date: Tue Aug 30 22:31:52 2005 +0000

commit b4f4bf028a88ee709f4536373de2d40b6445006e
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Tue Aug 30 19:51:59 2005 +0000

commit 0e50af8b7f459aaf1d1d524f629e926167a751
Author: Adam Jackson <ajax@nwk.net>
Date: Tue Aug 30 19:35:06 2005 +0000

commit 0c74799af4f924ba64ebd6052802b73547f55c72
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Aug 30 04:41:04 2005 +0000
Remove existing broken maxX/maxY code for composite (results in infinite loops, doesn't deal with failure, doesn't present the interface to drivers that I expected) and instead replace it with a simple fallback to software when coordinate limits could be violated. Act similarly in other acceleration cases as well.

The solution I want to see (and intend to do soon) is to (when necessary) create temporary pictures/pixmaps pointing towards the real ones' bits, with the offsets adjusted, then render from/to those using adjusted coordinates.

commit f20e845b04dee5fc0780811f565180e322b60b73
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Aug 30 03:42:07 2005 +0000

    More 0 -> NULL for pointers missed in previous commit to this file.

commit 7777d325a3d049cc233c004c8288ed5d10539c2
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Aug 30 03:05:21 2005 +0000

    Apply an xserver patch from cworth: Avoid buffer overrun when a trapezoid's right edge is on a pixel boundary.

commit e321f9e7ff7de99a702e33a22743b55c8bb66953
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Aug 30 03:01:38 2005 +0000

    Apply the xserver patch from vektor for bug #4208: Use NULL for pointers instead of 0.

commit 20813d3af065f9b719b39d2e7a3382b8fa278a48
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Aug 28 19:47:39 2005 +0000

    Bug #3974: Fix unaligned memory access on LP64. (Matthieu Herrb)

commit 8296cf79c030f29dce32a9d9e9447349600cc93d19
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Aug 26 20:21:57 2005 +0000

    Add diagnostic messages for exaDriverInit failure cases.

commit 5ff7eb896a768307ff6fafa164210020e4b94a2
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Aug 26 20:08:09 2005 +0000

    Bug #4160: Fix Altix kernel version check.
commit 6b0dec5dd9e451021c562ac4b6b2101d50187a30
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 16:46:41 2005 +0000

Change use of dix-config.h to xorg-config.h.

commit 9d1b349b3765fb587b353c78caa9a083f5d0ee
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 16:34:55 2005 +0000

Back out previous change until I figure out something smarter.

commit 3075df24e7931901c6f0526e10a89631fd73c4d0
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 07:35:55 2005 +0000

Subvert SIGUSR2 to reload all input devices. (Ubuntu #020)

commit 89c84575ea905c7598d6b6029c9209abe1cfe074
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 07:24:21 2005 +0000

Undo rate/period change after function body, so the damage doesn't leak
into other functions. (Debian #050)

commit bb5e934df7f23fb3656d673a12d283f52af79e0
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 07:15:04 2005 +0000

Only open /proc/bus/pci/devices once. (Ubuntu #029)

commit c937faadd0a0a5f2598b84286ac1ed8996a512e5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 06:48:24 2005 +0000

Better error message on failure to set iopl. (Debian #021)

commit 6d34a248a333bd6c9083106b38fab6062e033e39
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 06:35:00 2005 +0000

Add Xv symbol from Xext.

commit b8f0d4c3ebec363279f9dc7318de3e3c854ca5ef
Author: Daniel Stone <daniel@fooishbar.org>
Date: Fri Aug 26 06:29:15 2005 +0000

Spit out an error when there is no valid FB device, instead of just failing
silently. (Debian #070)

commit b48a24e7969d99a0f116bc780c70d3e1c18b34769
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 26 06:23:41 2005 +0000

Don't assume that all sun4m CPUs support muldiv; the Cypress CPU, which
implements the 4m MMU but only v7 instructions, does not. (Debian
#100).

commit fd158d3d5215b0a1073e505a760977b0b8fa14cf6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 26 05:49:44 2005 +0000

Get prototype for ntohl from SuSv3-compliant location, fixing it for
systems which define ntohl as a macro only, not both macro and
function. (Debian #076)

commit 53e489c0e39b89f41213a726fe1b611d7d9a18db
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 26 05:47:36 2005 +0000

Work around ATI expansion ROM problem on IA64 caused by prototype HP
McKinley systems. (Bdale Garbee)

commit 40374d1149d6dcf0b4521faae8bdfecc8a3af077
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 26 05:00:07 2005 +0000

Accept 'Enabled' and 'Disabled' for Extensions section (Ubuntu #990)

commit ea80b56d257f4e22cf5a152084aef5fe05079db0
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Aug 25 22:11:04 2005 +0000

Fix a use-after-free of cursor data by refcounting for the sprite.current
reference. The particular path seen was XFives' ReplaceCursor() resulting in the sprite.current being freed, but then it getting
accessed during the ChangeToCursor() that happens as a result of
WindowHasNewCursor().

commit 54cc45b09bc6e860b3de2012b57c4b35ca18fffd2
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Aug 25 21:22:41 2005 +0000

Thu Aug 25 17:15:01 2005 Søren Sandmann <sandmann@redhat.com>
Add all the drivers to the module_LTLIBRARIES instead of having separate
variables for them. Pointed out by Kristian Høgsberg.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

commit ff22adc09763b2bd860c7f780a5d0855cab0ab30
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Thu Aug 25 14:19:43 2005 +0000

Remove sun_inout.s so make dist works (discussed with Alan Coopersmith).

commit 344a24b6229f477c892dd855546391be1e091bd7
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Aug 25 04:09:45 2005 +0000

Use system curses library on Solaris for xorgcfg text mode.

commit 0711502f1847ed461672b9842218b9afa9d349ed
Author: Eric Anholt <anholt@freebsd.org>

Bugzilla #4226: Change the pixmap migration strategy for the CopyNtoN case.
   Now, if either source or dest were in framebuffer, try to get both
   there, but prefer system memory for both otherwise. Required making
   exaasync.c go through the try-acceleration path. This significantly
   improves window resizing under composite, because previously the
   pattern of creating a new pixmap and copying default contents from the
   screen caused a fallback every time due to the new destination pixmap
   being in system memory.

commit 2261710fe0dffd6043362ac12ad570fe5
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Aug 24 23:38:25 2005 +0000

Fix a bug where NULL could be dereferenced during the pixmap kick-out
   process by referencing the correct offscreen area. Also drive-by the
   comments related to these for clarity.

commit 55c5c6953a3a661758a42b147f9542950a62fc4d
Author: Eric Anholt <anholt@freebsd.org>

Bugzilla #4090: Introduce getters for pixmap pitch and offset, to
   simplify/clarify it for driver writers who probably don't want to know
   what pPixmap->devPrivate.ptr or pPixmap->devKind mean. Converts the sis
   driver to use them, and bumps the EXA module minor version.

commit 079ad773e09ed0c5baf01de3d4f02a5568da5634
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Aug 24 22:37:15 2005 +0000

Fill in xf86DeallocateGARTMemory stub based on lnx_agp.c version. Add
include of xorg-config.h for modular builds

commit 8fd250e5e4c2016614b2e2d653b7fbf8a3a5b99
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Aug 24 21:51:28 2005 +0000

Bugzilla #4089: Fix crashes in !EXA_OFFSCREEN_PIXMAPS case by not trying to
do migration when the EXA pixmap private is NULL.

commit 79dc5f3d5fe5a66f5fa53af9afc30d27d1af0bce
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Aug 24 21:28:40 2005 +0000

Don't export non-standard symbols generated GCCs stack protection feature
(__guard, __stack_smash_handler).

commit d2952de6e3d9197529695bb88d8c3af679ad71af
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Wed Aug 24 19:41:43 2005 +0000

Wed Aug 24 15:39:07 2005 Søren Sandmann <sandmann@redhat.com>
Add GLX_{INC,LIBS} for xprint.
Add @DIX_FLAGS@ to AM_CFLAGS

commit 81e708440ced309adc62ebf43d00beccd32338db5
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Wed Aug 24 19:35:51 2005 +0000

Wed Aug 24 15:29:50 2005 Søren Sandmann <sandmann@redhat.com>
Conditionally include dix-config.h
Conditionally include dix-config.h

commit 9657e0e9def47dba5b0bfa7461874362712a07bb
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Aug 24 15:18:06 2005 +0000

Don't try to build dmx/input/lnx-* .c if <linux/keyboard.h> isn't found
Don't try to build dmx/input/usb-* .c if <linux/input.h> isn't found
Replace -rdynamic with $(LD_EXPORT_SYMBOLS_FLAG) for compatibility with
compilers other than gcc

commit 825a95a1fab69f84e99ae132888fced22e28be33
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Aug 24 11:18:35 2005 +0000

Remove use of dix-config and xorg-config.h from public headers.

commit 1fb4a5a4ea993a7913a7bce362315d31b2907836
Add xcmiscproto and bigreqsproto to REQUIRED_MODULES, since Xext uses them.

commit b47535bd661743946851099f226f9e6aa4cc8e90
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Wed Aug 24 08:49:31 2005 +0000


commit 9f498a37dd3d8456d2a97be9c039b63abc81a5fe
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 23 20:58:29 2005 +0000

  Display more friendly mouse protocol names. Enable mouse wheel mapping by default.

commit cff4b1c2166aa2e75618ec8df09554a602c3a68c5
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 23 20:12:26 2005 +0000

  Check for getconfig in GETCONFIG_DIR if it's not found in module dir.

commit bfd13645867aab831b7a0f2b1757cb80837c07d9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 23 09:20:49 2005 +0000

  Add missing saver, evie, video, trap proto pkg-config checks. (Georgi Georgiev)

commit 27afac2ce6a77bc68669c1af6a61c589aa9ef384
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 23 08:59:30 2005 +0000

  Fix test for Xnest presence. (Donnie Berkholz)

commit fed61462be281c568df6407f94ea519748f0b720
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Tue Aug 23 08:58:40 2005 +0000

  Fix up warning on debugging.

commit e848eb289c9251742a88e76017603952394f4262
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 23 01:14:35 2005 +0000
Rename app-defaults entries from xf86cfg to xorgcfg to match name passed to XtAppInitialize. (Henry Zhao, Sun Microsystems) Also, display vendor version instead of 4.0 for server version.

commit 6076fca82528da8d50b0ed6be8da6f811321474d
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 23 00:32:27 2005 +0000

User message cleanups/updates for modern configurations.

commit b07602014061cb41540f6a7e74e4132e67aa1117
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Aug 22 21:47:59 2005 +0000

If MAKE_XKM_OUTPUT_DIR is defined, call trans_mkdir to create directory if it doesn't already exist. (ported from Solaris Xsun bug #5039004)

When BuildLikeSun is set, define MAKE_XKM_OUTPUT_DIR and set the xkb output directory to /var/run/xkb.

commit 4a19a33db6d04b5835830a665daa679ee2fcafe7
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Aug 22 21:29:18 2005 +0000

bugzilla #2880 (https://bugs.freedesktop.org/show_bug.cgi?id=2880)
attachment #2987 (https://bugs.freedesktop.org/attachment.cgi?id=2987)
Use system method to access PCI config space for inb and inw in addition to inl (Olivier Baudron and Kevin Martin).

commit 5557a40a022b0ede36edd3370a60f5fe3d147796
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Aug 22 19:52:26 2005 +0000

Fix linking errors for xprint.

commit 7693f668efd206a6c259166665bc36d3c6335e8d
Author: Alan Hourihane <salanh@fairlite.demon.co.uk>
Date:   Mon Aug 22 12:05:18 2005 +0000

Include Xv and XvMC headers in the SDK.
Fix linkage for Xnest, Xvfb, Xdmx and Xorg DDXes; include all libs.

Fix inclusion order of dix-config.h, so _XSERVER64 gets defined before X.h or Xdefs.h get included. (Jürg Billeter)

Add _XSERVER64 definition to config headers.

Huge cleanup. Group into sections: hardware feature detection, extension detection/configuration, DDX options. Make building of Xorg DDX fully optional. Clarify and correct some help texts. Change all comments to use dnl instead of #. Quote all tests correctly, and guard pure-variable tests with 'x' (e.g. test $DMX = yes -> test "x$DMX" = xyes). Since the DDXes seem to have pretty divergent extension support these days, get rid of EXTENSION_LIBS, DMX_EXTENSIONS and XPRINT_EXTENSIONS, and go back to building extension lists by hand in the DDX-specific sections. Use portable POSIX constructs everywhere (e.g. test foo && test bar, instead of test foo -a bar).

Clean up old cruft.
Set _XSERVER64 on 64-bit architectures, and use x86_64 for host_cpu instead of amd64 (Jürg Billeter).

Change xorg_bus_sbus to xorg_bus_sparc; build sparcPci.c on all SPARCs.
Typo fix (SOURCE -> SOURCES).

commit db2909ce76b178663de301c09fb97f2936b1997e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Aug 21 06:56:19 2005 +0000

   Add test for SPARC. Build SparcMulDiv.S on all SPARCs.
   Make the default font path configurable.

commit d96e6666862553d59fc1f9fdd14fb65f36d589af
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Aug 20 18:52:07 2005 +0000

   Add sparcPci.c to EXTRA_DIST.

commit a402c876a465904ac71ebf39af67ea451b2457dc
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 20 18:11:17 2005 +0000

   Make DRI/GLcore builds srcdir != builddir safe, and invoke symlink-mesa.sh
   in our builddir, not our srcdir.

commit 238d45d2f148e1e0a4f4b1619cc1d5e8cc4b9661
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 20 18:10:03 2005 +0000

   Make Xprint build optional.

commit abab3fd628c2d1096e8534192f33c1068a573c12
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 20 18:09:21 2005 +0000

   Make Xext linkage srcdir ! = builddir safe.

commit bb1d99ee72cc560e95010ea1008d5e796177ae62
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Aug 20 18:07:59 2005 +0000

   Build libxkbstubs.la to stub XKB DDX functions (e.g. VT switches), and
   build libxorgggxb.la from within the Xorg DDX to replace the previous
   xf86VT.o, et al, hacks.

commit 8a32ed46480d78b69f289e90098f5ed4a830851f
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Aug 19 15:48:18 2005 +0000

   Really hopefully the last xorg-commit test.
Another test commit for xorg-commit.

Testing xorg-commit, nothing else.

Fix dates on Søren's entries.

Make symlink-mesa.sh call srcdir != objdir safe. Remove requirement for XF86Rush protocol headers, which we don't even use.

More updates for Panoramix -> Xinerama rename

Move fbmmx to a convenience library since the mmx flags may be harmful when applied to non-mmx code.

Replace gnu-makeism with portable rules
commit 22694500e0ddd8752b4c01e340f587ecba1ff7f7b7
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Aug 17 23:20:27 2005 +0000

Add xf86Sbus.h to EXTRA_DIST files (bugzilla #4128)

commit df938987d6c19bdfff8d3334bb497f4814ae384
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Aug 17 19:03:18 2005 +0000

Add buildsystem for Xprint, and:

Wed Aug 17 14:50:58 2005 Sören Sandmann <sandmann@redhat.com>
Include <X11/extensions/Print{,str}.h> instead of "Print{,str}.h"
Include <X11/fonts/fontstruct.h> instead of "fonts/fontstruct.h"
Wed Aug 17 14:54:49 2005 Søren Sandmann <sandmann@redhat.com>
Conditionally compile in xprint.c
Add Xprint

commit f2f6820c3f01810a4da5a8bb4e43119ef2a3fcb6
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Aug 17 17:20:13 2005 +0000

Wed Aug 17 13:13:00 2005 Sören Sandmann <sandmann@redhat.com>
Make asm labels local. Bug 4073, patch from Diego Pettenò.

commit ad7f2fc67376f4f8e81047273de12f7926f0b17
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Tue Aug 16 16:21:09 2005 +0000

symlink.sh: Temporarily disable xkbdata, add type1mod.c
Tue Aug 16 12:09:09 2005 Sören Sandmann <sandmann@redhat.com>
Add ft and type1 modules.

commit 24597a1ee2c567ec6bc2f2208457f2778937a034
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 16 00:40:25 2005 +0000

2005-08-15 Alan Coopersmith <alan.coopersmith@sun.co>m
Convert sunPostKbdEvent to use xf86ProcessAction like xf86PostKbdEvent.

commit b86282b764387ef8315fc4045d4e1ca1bb74fee1
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Aug 15 23:48:35 2005 +0000
Set ZAxisMapping default to "4 5 6 7".

commit a6c8d0d71ee7cb964797f7595be36ee0ac10a1a
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Aug 15 19:42:48 2005 +0000

Mon Aug 15 15:41:26 2005 Søren Sandmann <sandmann@redhat.com>
Link this module with libXext.la.
Mon Aug 15 14:56:57 2005 Søren Sandmann <sandmann@redhat.com>
Remove the xkb* files.
Add xkbVT.o and friends as the last things on the link line so they will
override the symbols in libxkb.a. Add a comment on how this situation
might not be considered ideal.

commit 46aede552aa43cd59f81980303826b5c3d889c02
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Aug 15 18:59:16 2005 +0000

Mon Aug 15 14:56:57 2005 Søren Sandmann <sandmann@redhat.com>
Remove the xkb* files.
Add xkbVT.o and friends as the last things on the link line so they will
override the symbols in libxkb.a. Add a comment on how this situation
might not be considered ideal.

commit bcc95c83406a4498227fffd8384bc272fd8c49e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Aug 15 18:32:08 2005 +0000

Add AC_SYS_LARGEFILE to match flags used in monolith

commit 809906a754a1289b7e88489241a2065aa0bf27a2
Author: Dave Airlie <airlied@linux.ie>
Date:   Mon Aug 15 08:24:45 2005 +0000

make mouse support work - note you need to change the evdev devices in the
source.. hacky...

commit fe5abff38e65c1a49886924efdf0242ab8048008
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Mon Aug 15 07:30:05 2005 +0000

Egbert's 64bit fixes for mixed 32/64bit clients

commit eb4dc8bb54b9b4e1814bc2758216af2bab93540
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Aug 14 19:46:55 2005 +0000
- Fix the exa pixmap offset/pitch alignment to deal with non-POT alignment requirements. MGA, notably, uses a multiple of 3 in some cases.
- Rename the pixmap offset/pitch alignment fields to more clearly state their meaning.

commit e3509c940fa1fc3988d23f884ca8bffec87d091e5  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sun Aug 14 16:24:30 2005 +0000

Don't link libXext, as it is linked in to the server also.

commit 05071ae0fb847c211b1f20770d3b57fe2172738c  
Author: Daniel Stone <daniel@fooishbar.org>  
Date:   Sat Aug 13 07:41:33 2005 +0000

Don't link in libx86emu.a as this a) fails badly on non-x86 systems, and b) is done via x86emu.c including all the source files anyway.

commit 1ffe9ceb2f6a7261fb62e90dfc861f9dadd27ce  
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>  
Date:   Sat Aug 13 06:15:35 2005 +0000

Oops, forgot a file in earlier Solaris kbd commit

commit c290519d108fe49ec23d9ef36fd08cc64c87262a  
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>  
Date:   Sat Aug 13 00:11:28 2005 +0000

Add LintTarget()  
Bugzilla #1068 <https://bugs.freedesktop.org/show_bug.cgi?id=1068> Port Solaris keyboard code to work with kbd driver.  
Also incorporated "audio bell" feature from Xsun keyboard DDX to play bell tones via /dev/audio (specified via Option "BellDevice" "/dev/audio" in keyboard device options).

commit 616a65c4cc528278168db1414776f3a867cd463e  
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>  
Date:   Fri Aug 12 18:50:33 2005 +0000

Fri Aug 12 14:49:24 2005 Søren Sandmann <sandmann@redhat.com>  
Apply another patch from Billy Biggs to fix precision issues.

commit 1eed84f227311730ce1f9ffab190e95de967c7da  
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>  
Date:   Fri Aug 12 18:47:17 2005 +0000

Fri Aug 12 14:45:54 2005 Søren Sandmann <sandmann@redhat.com>  
Fix up multiplications based on patch by Billy Biggs. Part of bug 3945.
commit 8bfff96b552a3facb77ff9e81658e80becbf2f4
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri Aug 12 18:31:07 2005 +0000

Fri Aug 12 14:29:09 2005 Søren Sandmann <sandmann@redhat.com>
Apply patch from Billy Biggs that fixes rounding problems with division.
   Part of bug 3945.

commit 812ed2e17bfe8e232313cf9ab78000a564cb6b3c
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri Aug 12 17:43:38 2005 +0000

   Fri Aug 12 10:45:01 2005 Søren Sandmann <sandmann@redhat.com>
Make this function compute the same results as the fbByteMul macro.

commit 370b111f4882a952488bccc4727438c95a065c174d
Author: Ian Romanick <idr@us.ibm.com>
Date: Fri Aug 12 16:30:57 2005 +0000

   Use '$(DRMSRCDIR)/shared-core' instead of '$(DRMSRCDIR)/shared' for DRM
   includes. This matches the way drivers are built in the Mesa tree and
   fixes a build problem in the Savage driver.
   Convert uses of __glPointParameterfvARB_size to
   __glPointParameterfvEXT_size and uses of __glPointParameteriv_size to
   __glPointParameterivNV_size. This eliminates the need to hand-edit
   indirect_size.c after it is generated.

commit 5f51177729de3a8a4eb6e17dc9979e4b1c1ef9918
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Fri Aug 12 01:17:58 2005 +0000

   Fix segfault when "kbd" fails to load and "keyboard" driver is not
   configured.

commit 13e16ee93a328a55494c2933143c66559fe7ba98
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Thu Aug 11 15:46:42 2005 +0000

   Thu Aug 11 11:43:32 2005 Søren Sandmann <sandmann@redhat.com>
Make sure we don't crash on glyphs with NULL bits. Bug 659.

commit 3e471ddf1dbf58ed021d6f31bdaf438872f03ca8
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Thu Aug 11 14:36:29 2005 +0000

   Add check for whether the platform is MMX capable and add the relevant
   flags if so.
commit 130fffc0cdeb6dc29f33f1ee97c09e744c19e243a
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Aug 10 20:22:57 2005 +0000

Wed Aug 10 16:17:38 2005 Søren Sandmann <sandmann@redhat.com>
Add back non-SSE implementations. Define USE_SSE if the CPU is amd64/x86-64

commit ef50bba5694ef276a239882fae3502638b4ec784
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Aug 10 19:42:36 2005 +0000

Revert previous patch as it causes build failures

commit b99360e264e9531593ce8eb67bd006275ca5e5a0
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Aug 10 19:15:44 2005 +0000

Add XF86DDX_ACTIONS to AM_CFLAGS

commit 73a335a926e50afde36816ab47da689202df319
Author: Jon Smirl <jonsmirl@yahoo.com>
Date:   Tue Aug 9 16:51:05 2005 +0000

Point xegl at the DRI driver

commit 29d0ba9f06d90a1c7f619db87d681ca53fa1bf38
Author: Jon Smirl <jonsmirl@yahoo.com>
Date:   Tue Aug 9 15:58:20 2005 +0000

Touchup xgl for modular tree

commit 435e2a09de7c9dd843b05f4a0484371a67940515
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 9 01:18:04 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=3950> Xorg prints version numbers in
   wrong format for modules compiled for Xorg 6.99 & later (Adam Jackson &
   Alan Coopersmith)

commit 5849c69db80b2320bddd7fa8b519300cc0435c84
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Aug 8 18:02:08 2005 +0000

Mon Aug 8 13:39:45 2005 Søren Sandmann <sandmann@redhat.com>
Conditionally include xorg-config.h

commit 5e6e5e6d8c6add3aae5c3aebe984d3af842edc1
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Aug 8 17:38:37 2005 +0000

Mon Aug 8 13:36:23 2005 Søren Sandmann <sandmann@redhat.com>
#undef PIXPRIV here.

commit a11ce76b0625501a202fa34e18777b7bd42b2713
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 8 06:25:21 2005 +0000

Build with modular X.org libraries and headers.
composite/compwindow.c Don't damage unmoved windows. Let border clip reset
leave damage alone, pending actual damage for painting.

commit 129e812c339879b68bb162331ae9b7e0f86a7474
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 8 02:30:31 2005 +0000

Re-add _XOPEN_SOURCE as it's needed *sometimes*. Place it in #ifndef to
avoid whinging.

commit 4dfc3357a78a52ef70750608138dfee0371cbc4
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Aug 8 00:38:41 2005 +0000

Add autogenerated source files and other various non-CVS material to
 cvsignore files
Use XORG_CFLAGS. Ensure that all exa files are in SOURCES
remove _XOPEN_SOURCE as it's always in xtrans.pc these days and gcc whines
libdamage.la needs libcw.la when COMPOSITE is defined, but that
libdamage.la must be after libcomposite.la, so add libcw.la to
DAMAGE_LIB instead of EXTENSION_LIBS. Regularize library link order
across all X servers

commit 7d2b08aa4786eb4d181c88f7dc6b7eb059cc9dad
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Aug 7 20:42:50 2005 +0000

Invert the sense of the composite configure flag to match reality.

commit fcaa6f30c489578589af19ef798ab31150e696a2
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Aug 7 19:02:32 2005 +0000

Bug #3989: Fix Composite builds, enable Composite build by default. (Olli
Helenius)

commit 3639fb243450ae447e9901de9f909e975a919514
Enabling EXA by default in the modular build.

commit a16357ebc9344bf3e393da9e7b28164ad5b9dc8
Author: Chris Lee <clee@c133.org>
Date:   Sat Aug 6 23:46:38 2005 +0000

Last bits of changes to make exa build properly in the modular server.

commit cc67bd187f06bfade0d2fe1b4cca92805458b210
Author: Chris Lee <clee@c133.org>
Date:   Sat Aug 6 23:34:09 2005 +0000

EXA support in the modular build.

commit 33326f4ee884aa677e4568c3eaed4311a8ed0f2a
Author: Chris Lee <clee@c133.org>
Date:   Sat Aug 6 23:27:33 2005 +0000

Adding exa support to the modular server.

commit b90a88e80310e5650e2abed4c151889d9c0bd316
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Aug 6 19:48:12 2005 +0000

Add checks for functions used in os/access.c & os/connection.c:
getdtablesize(), getifaddrs(), getpeerid(), getpeerucred()

commit 2304c14fe5d3796c557a86d0ecee1f0fb92591469
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Aug 6 19:14:24 2005 +0000

Fix endian test to work on big-endian platforms correctly

commit fc29d014aa586229cde976aa1bfe38bd949f7cde
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Aug 6 16:29:20 2005 +0000

Merge in patch release RC handling code from 6.8.2 (Kevin Martin)

commit 9828a38ed695fed9788ace8bbba575e521fa354b7
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Aug 6 03:14:50 2005 +0000

Solaris build fixes needed for modular builds
Fix 32-bit vs. 64-bit test for Solaris

Make Xephyr work without shadow fb

EXTRA_DIST hacks to get all the OS support files into the tarball.

- Bug #3960: Add remaining GLX and pci.ids stuff to DIST (Cha Young-Ho, Olli Helenius)
- Fix some distcheck problems for non-solaris systems
- Change server version number from the Xorg rev to an independent one
- _POSIX_SOURCE and _XOPEN_SOURCE defined to the right values

Make the fbCompose paths use the existing inline functions instead of macros. Various other cleanups.
Remove macro definitions, move typedef to fbmmx.c
Fix inline assembly versions of in*/out* for Sun compilers Add check for ancient USL console code on Solaris to allow building on old Solaris x86 versions

commit 9802106864a6b2c24df8e9fcb3c3471033abd5c6
Author: Adam Jackson <ajax@nwk.net>
Date: Wed Aug 3 01:41:34 2005 +0000

dist fixes for cw and GL (Donnie Berkholz, me)

commit d7c246f35b1ba7ecbcb086d1229b298faddc96
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Aug 2 23:57:52 2005 +0000

  Only build ix86Pci.c on x86 & amd64 platforms Set DEFAULT_INT10 to x86emu on everything but Linux/x86 Fix Sbus.c inclusion onsparc platforms

commit 3d0d95004c65cd3a29c94fec99e13ab7fde19c7c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Aug 2 20:47:47 2005 +0000

  Add check for walkcontext() to enable stack trace dumper on Solaris

commit bb5258a21d9efbb7d8b4226a44bd5738eb46d32a
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 2 17:57:36 2005 +0000

  Mark generated files as BUILT_SOURCES and CLEANFILES to ensure they are regenerated after 'make clean' and to make parallel builds work right.

commit 0c608a690e85064345d7ebdf6b03e2f3bd861708
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 2 06:48:20 2005 +0000

  Note yacc and lex generated files as BUILT_SOURCES so they are created before anything is compiled; required for parallel builds

commit d31de217e6e9fb0e1cc99141d80def9382de9a9
Author: Adam Jackson <ajax@nwk.net>
Date: Tue Aug 2 03:36:09 2005 +0000

distcheck fixes

commit c83772fe67ea0379db9bab1120f064b80b74f377
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Aug 2 01:50:48 2005 +0000
Set OSNAME for "Build Operating System" line in Xorg log

commit 005a9cf1f5fe688f303b954870af3d35635fc33bf
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Aug 2 01:03:25 2005 +0000

  Fix Solaris assembly source to work with libtool

commit 48b130285ad1309a1ff5b2148b3bae5f5b642488
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Aug 2 00:47:08 2005 +0000

  Move AM_CONDITIONAL for ia64 to global scope

commit 03379474e0fd9c21ac058e2319618934359b3262
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Aug 2 00:45:30 2005 +0000

    only do the AS_HELP_STRING workaround once, d'oh

commit 2d7b1893befb84850f3221cbe70b3bce4e621d63
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Aug 2 00:41:07 2005 +0000

    - Workaround for AS_HELP_STRING compatibility with older autoconf.
    - New intermediate build target for Xorg server
    - ia64 fixes

commit 7c84189ea1dc236bc979bb4bf158ecb1a6b45137
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Mon Aug 1 22:22:16 2005 +0000

  Bugzilla #3566 <https://bugs.freedesktop.org/show_bug.cgi?id=3566> Patch
  #2906 <https://bugs.freedesktop.org/attachment.cgi?id=2906> Fix for
  RENDER, repeating pictures and offscreen memory (Owen Taylor)

commit 2acd29c93fd3b3d438887f0ca9be6713db81c1e8
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Aug 1 22:13:20 2005 +0000

  Bump autoconf dependency to 2.57 from 2.53. Add 2.57 compatibility hack for
  the new AS_HELP_STRING syntax from 2.58+

commit b7a43fa0f112d92ccc71642142e07276da4de681
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Aug 1 19:00:21 2005 +0000

  Bug #3739: Fail soft on unknown extension string.
GLX fix for loadable servers: indirect_size.c goes in libglx, not libGLcore

commit 78d51253e229bcb428039911d80a5d89d4bf4491
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Aug 1 16:07:14 2005 +0000

Fri Jul 29 17:20:53 2005 Søren Sandmann <sandmann@redhat.com>
Fix rounding bug.

commit fd84b3b562800f88a8c848c4338f0bea906ce6d8
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Jul 30 18:56:32 2005 +0000

Clear compiler warnings. (Stefan Dirsch)

commit 9e9f9cb4878d597b3fa6de7732d2866e24c32f54
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Jul 29 21:55:57 2005 +0000

Need to define SVR4 on SVR4-ish systems since many headers and source files
check for it, expecting Imake to have defined it already. (Should be
replaced with more specific checks & defines, but there's too many to
get them all right now.)

commit 14ade55b83a72240a555b3b9def9f40a6a38cd9
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 29 21:22:58 2005 +0000

Various changes preparing packages for RC0:
- Verify and update package version numbers as needed
- Implement versioning scheme
- Change bug address to point to bugzilla bug entry form
- Disable loadable i18n in libX11 by default (use --enable-loadable-i18n to
  reenable it)
- Fix makedepend to use pkgconfig and pass distcheck
- Update build script to build macros first
- Update modular Xorg version

commit 2654f88cee86f9e2867b86ca8668492857fbbad98
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 29 18:40:54 2005 +0000

Fix code to handle printing 7.0 release candidates properly.
commit d5d669b04ecbd91bb2db9ddc6238acabbeaabbe0
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 28 23:33:57 2005 +0000

If neither --enable-dmx or --disable-dmx are specified, default to "yes" on
Linux, "no" on everything else (matches defaults in monolith Imake)

commit 86529c07d6ff69ef936ee370be07b373e2961360
Author: Kevin E Martin <kem@kem.org>
Date: Thu Jul 28 23:28:34 2005 +0000

Fix distcheck for server

commit 3e4bf8a8f46e14078c64c56ad303c80cd9d8d5be
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 28 02:38:23 2005 +0000

Rework wrapping of common mouse driver to not require mousePriv.h, so that
modular tree xserver can be built on Solaris. Wrap more ioctls in
SYSCALL() to restart on signals.

commit cfd6c74067de7fdb2aeddee6780c29231a56acdc
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Wed Jul 27 17:50:13 2005 +0000

Add dbestruct.h to sdk_HEADERS

commit 5ced854186b851ba2e9ac84eb6d7f141fdee487b
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Wed Jul 27 17:35:25 2005 +0000

Add miwideline.h mistruct.h mifpoly.h to sdk_HEADERS

commit 7bd6b0640e69552ed4c9daac26e41410dd7338b4
Author: Kevin E Martin <kem@kem.org>
Date: Wed Jul 27 08:16:35 2005 +0000

Add #include <dmx-config.h> for building dmx/glxProxy in the modular tree.

commit b9ccd89918e1c79d6013fe563c7fa933c1274837
Author: Kevin E Martin <kem@kem.org>
Date: Wed Jul 27 08:11:26 2005 +0000

Fix dmx/glxProxy build

commit 8f6664fcef319ee155e7864ce25fa11c1fa5594b
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Jul 26 23:40:45 2005 +0000

Add these files to the sdk:
cbf32.h cbf16.h cbfmap.h cbfunmap.h cbfunmap.h cbmskbits.h xf86sbusBus.h
    mifillarch.h mispans.h

commit 3cbf55f309b8eaba246d1d948b59883f9ed28bf4
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Jul 26 22:17:27 2005 +0000

Install xorgVersion.h

commit df5d47560c19b01f2998806c4b62f459a6b5fc02
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Jul 26 18:56:45 2005 +0000

    xserver/xorg/fb/Makefile.am: install fboverlay.h

commit b25e6f82a1189a67208a2a4980d732ab77e64a35
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Tue Jul 26 18:21:22 2005 +0000

    fb/Makefile.am: add fbpseudocolor.h to sdk_HEADERS
    hw/xfree86/xaa/Makefile.am: add xaaWrapper.h to sdk_HEADERS

commit e7502158d6922a149d0aafl1de209f0b58fa44bf
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Jul 24 16:24:17 2005 +0000

    Add xf86DeallocateGARTMemory stub so that Xorg can be built on Solaris
    again.

commit 7c1148c0fbc00716bb7ee621a1b968b4127cbb00
Author: Adam Jackson <ajax@nwnk.net>
Date: Sat Jul 23 19:32:57 2005 +0000

    Fire the Mesa symlink script from the configure stage.

commit f331a325447449982efba8aade5bc079371dfb77a
Author: Adam Jackson <ajax@nwnk.net>
Date: Sat Jul 23 19:29:58 2005 +0000

    Add the symlink script for the Mesa source.

commit a5532e456d763718036e84891f57c6f7417615a
Author: Stuart R. Anderson <anderson@netsweng.com>
Date: Sat Jul 23 18:16:06 2005 +0000
Change the default depth back to 8 like it was originally. Disable the addition of depth 12 & 30. It causes more than MAXFORMATS depths to be added to the screen which causes an array in the Screen structure to overflow and crash on server reset.

commit d8a1241a24d75c258548875350bfff4d0acc795ab
Author: Stuart R. Anderson <anderson@netsweng.com>
Date:   Sat Jul 23 17:49:45 2005 +0000

Add a safety check to catch when numDepths GCperDepthexceeds MAXFORMATS

commit 93d29b4554d26b22ca43311264f85ea8e14804c2
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 23 02:04:39 2005 +0000

Emit makefiles for glapi, slang, and grammar. Conditionally define GLX_LIBS if GLX support is requested. Add GLX_LIBS to the link deps for Xvfb and Xnest. All GLX support should work now for the vfb, xnest, and xfree86 DDXes.

commit 525d663ec5a8a181a1e36f3787b24cdb77290c17
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 23 02:02:18 2005 +0000

glapi build (forgot this one somehow)

commit 6aaceef3231818682dcecf1969b211f1dc798da1f
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 23 02:00:52 2005 +0000

Fix the build system to reflect the rest of the Mesa core. Almost links, needs a code fix to Mesa though.

commit d7e2cadb13ef0e77d864c8282489f544b0e1dede
Author: Adam Jackson <ajax@nwnk.net>
Date:   Thu Jul 21 02:29:05 2005 +0000

GLX needs gl.h from Mesa too

commit bf32f4739c6ef7f41cde6cc409d42e00462402fb
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Jul 19 20:51:46 2005 +0000

programs/Xserver/hw/xfree86/os-support/shared/agp_noop.c
programs/Xserver/hw/xfree86/os-support/linux/lnx_agp.c
programs/Xserver/hw/xfree86/os-support/xf86_OSproc.h
//bugs.freedesktop.org/show_bug.cgi?id=3164> Add xf86DeallocateGARTMemory() function call (Austin Yuan)
commit 931abd8a410bf1188d69d54e57543a21ea36968
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Jul 19 02:50:00 2005 +0000

    Change #include "X.h" to <X11/X.h>

commit 4f2e731aba0c5694abb65a877395cc5f9869c556
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 17 07:34:31 2005 +0000

    objdir != srcdir fixes.

commit a6bd7ad985e1388744bb0e1f33f545651dfde32a9
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Jul 17 01:52:33 2005 +0000

    Set GLX automate conditional after we've tested for mesa source and set GLX
 to "no" if it's --with-mesa-source wasn't set.

commit ead37b08699f665a856c7ba29578c27c27db4100
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Jul 16 20:52:25 2005 +0000

    Mark variables modified in signal handlers as volatile (part of Sun bug id 4496504)

commit bbb49449cbe0815fd9c4caf3b6ee32be99a8aa3d
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 16:30:40 2005 +0000

    Fix --with-mesa-source parsing, and turn GLX off if no path to Mesa given.

commit d69e9872ae91c9c17a331ed76398453d950b39
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 16:29:30 2005 +0000

    Typo fix, and re-add GLcore to the dixmods build

commit 8bc8883c48c8f99502707998a8257c0563cae7d3a
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Jul 16 09:00:44 2005 +0000

    Update build instructions. Add details about how the expat, fontconfig,
    libpng, freetype, and xterm builds are now handled.
    Update text docs from SGML masters.

commit 8e600b87643f7f4e19923dd6a0f2e8d3303363a
Only pass -rdynamic when using gcc

commit 4f04e26c69747929243f176feaa90f3042481f53
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 04:30:33 2005 +0000

Say --with-mesa-source to get GLcore built.

commit 4913316f25e76381844cf15aa64eff620c2807a1
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 04:29:28 2005 +0000

Switch to MESA_SOURCE which we're already AC_SUBSTing

commit 7fach209a705ca406b05272c233ea0cf6a5b266
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 04:24:21 2005 +0000

Hook in the GLcore build

commit 2f9a7c6ee1012b2e7664c53f405affaf82bd0953
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 04:13:33 2005 +0000

Hey look, GLcore links

commit 5f81eb1d89f623dd9281e686a4d4d4f403e459c6
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Jul 16 03:49:59 2005 +0000

Fix the *.config.h includes so that it is possible to build modules without
having to use -include in the Makefile.

commit 0635acab08bade9b69d2abd3ea5a3fe525bc647
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Jul 16 03:46:01 2005 +0000

Add record module building support Change module building to not use
#include Fix xnest, dmx and vfb builds to -DXFree86Server for fbcmap
compilation

commit 92b23ff426936909e1ff5e063b75e5f112b93ca1
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat Jul 16 01:17:52 2005 +0000
Update to match recent changes to pci.ids & extrapci.ids for people building on systems without perl.

commit 6ce3743948a7151c721194594091a7e1183e2f32
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 16 00:51:14 2005 +0000

    start the GLcore build system

commit 2f0487521da3da6784dd964c915071b82d749108
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 15 23:08:31 2005 +0000

    Fix the *-config.h includes for the files that have moved in the modular tree.

commit a407fa373bb72f29050e3f027042011075b3bdf0
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 15 22:05:05 2005 +0000

    Move drm up to os-support since the files are shared by multiple platforms.
    Fix the dri and drm build. Fix server-side DMX extension build. Make
    xf4bpp use the correct version of mfbline.c for mfbseg.c. Add #ifndef
    _HEADERNAMEx_H_/\#define _HEADERNAMEx_H_/.../#endif to the headers.

commit eb6fa0dc15516a0a436090efc6d85f22baeec015
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Jul 15 22:14:28 2005 +0000

    Enable GLX build by default

commit 0e352a8b2b4c78c291074b9531ed7afa7a20ac17
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Jul 15 21:59:39 2005 +0000

    disable GLcore momentarily until a build system exists. --enable-glx should
    work now.

commit 4bf453086418e93e81b24d3d2a0f49a9357acff3
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 15 05:48:29 2005 +0000

    Fix keyboard state when XEVIE is not enabled (Keith Packard).

commit 562acff2e69dcf08f8db8f8eaa162949d45f70b2
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Jul 14 23:41:15 2005 +0000
Add `-I$(top_builddir)/hw/xfree86/dixmods/extmod` to `Xext/Makefile.am` Patch from Stefan Dirsch

commit defeb56fe9559661fa632935a4c76c500c7edcf4
Author: Kevin E Martin <kem@kem.org>
Date: Thu Jul 14 22:20:16 2005 +0000

Fix the build when DRI is enabled

commit 6b546d0ec07e493b501e82300b3e6c143cd4d0ac
Author: Kevin E Martin <kem@kem.org>
Date: Thu Jul 14 03:36:44 2005 +0000

Add `#include <xnest-config.h>` to the Xnest source files for modularization.

commit 7375f4d13626bba4204e2f08f41c212b2eed992
Author: Kevin E Martin <kem@kem.org>
Date: Thu Jul 14 03:32:09 2005 +0000

Add support for Xnest

commit c582560c62fd8181b7521e470f118a59c418a95f
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 14 02:59:34 2005 +0000

Add partial in*/out* assembly support for Sun compilers on x86

commit 64bf3a81a3212dc2e0f55aebdc74a618ca6a32c0
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Jul 14 02:53:31 2005 +0000

loadable extmod build system.

commit 6c96e0e9e4b3f1e8d8fa5dfc7366bb838dc0724ec
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Jul 14 01:36:58 2005 +0000

loader support for extmod

commit 8ea4a1b7599ae0279ce619c663f2cd2f6dee8d71
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 14 01:00:39 2005 +0000

First pass at Solaris os-support

commit f07e90553783dc0133015bcbf94d3b6be68b19c
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Thu Jul 14 00:28:47 2005 +0000
- Add build system for xf86-video-ati
- Add build system for xserver/xorg/hw/xfree86/dri
- Add glcore.h to symlink.sh
- Symlink.sh: add some more DRI files, symlink glcore.h from extras/Mesa/include/GL/internal to proto/GL
- proto/GL/Makefile.am: install glcore.h
- xf86-video-ark: s/module-dir/xorg-module-dir/

commit 939b7720f17ec5ac5edcc6cfe70453160ecb0161
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 14 00:02:05 2005 +0000

Merge SVR4/pre-Solaris 8 and Solaris 8+ sections for greater consistency, easier maintenance, and to fix some missing headers when building the modular Xorg on Solaris.

commit 23d25a656d7fdaba1c78be2950fb405f0a1b87b
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Jul 13 23:41:21 2005 +0000

Remove references to DDX-specific extensions

commit f4626bb72bb9955846abee018ae31c1aeb51b8dbf
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Jul 13 22:59:39 2005 +0000

dlloader is the default in 6.9, but the loader doesn't get told to prefer dlloader modules unless you -DDLOPEN_HACK.

commit 4f38526566dbc296d124bb852adfa30ac4d927e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Jul 13 22:54:02 2005 +0000

- Use fbdevhwstub.c if <linux/fb.h> is not found
- Use x86emu on Solaris instead of vm86
- Better per-OS control over which xf86Kbd*.c and *Pci.c files to build
- Set various #defines to be defined or not on Solaris as needed

commit db8aa17f15f62f243400b0267bf281dd27738644
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Jul 13 22:19:36 2005 +0000

updated comment for libbitmap

commit 4f9e76ed6a61b414ff94550727a138c3f73996f
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed Jul 13 22:09:52 2005 +0000
Dear libtool: Loadable modules do not need version numbers. kthnxbye.

commit 40ad7321f5d8d216523d575c4414736d8cfe9e88
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Jul 13 21:52:51 2005 +0000

Generate useful loadable modules by actually linking in the blobs from the
DIX

commit 0e08818d3951c324e5953bd23a8a9457b3fec78f
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Jul 13 21:41:02 2005 +0000

Hook dbe into the build

commit 2d4ddb560b7328c591a7bffaafbb49bdaf2adecf9
Author: Adam Jackson <ajax@nwnk.net>
Date:   Wed Jul 13 21:36:27 2005 +0000

double-buffering extension

commit c2ec9fbb15c776b9e64451cf32927b1b8d1c560c
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Jul 13 21:17:53 2005 +0000

Only build Xi/stubs.c on DDx that don't support the Xinput extension

commit 74a534f63c1ed016f24dbc3ca31f0f81076e8f0
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Jul 13 20:19:38 2005 +0000

xc/programs/Xserver/hw/xfree86/drivers/i2c/*.c: include xorg-config.h
instead of config.h xserver/xorg/hw/xfree86/i2c/Makefile.am: Add i2c
drivers

commit 1dc3e96e4077a912dd3aa13fa80099f5864b641f
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Wed Jul 13 16:30:53 2005 +0000

Fix compilation where uint is not defined.

commit 19e20c1470c1f8d15f2a78f2b29545bde06a65516
Author: Lars Knoll <lars@trolltech.com>
Date:   Wed Jul 13 08:58:37 2005 +0000

don't clobber %ebx in the assembler.
commit bfb10bd2dcca65ba5d346c9d7da594a81c35c101
Author: Lars Knoll <lars@trolltech.com>
Date: Wed Jul 13 07:28:17 2005 +0000

  Fix potential buffer overflow and a smaller bug in the convolution filter

commit 778a2703b233641e298fa81ef9e477943c496305
Author: Lars Knoll <lars@trolltech.com>
Date: Wed Jul 13 07:12:33 2005 +0000

  fix compilation

commit 66bc36473c238fdee7e6c1d31e6e5f6813a7541a
Author: Daniel Stone <daniel@fooishbar.org>
Date: Tue Jul 12 23:36:27 2005 +0000

  Use builddir, not srcdir, for built files.

commit d6808a48d2d72f618fa372fa993736638799
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Jul 12 18:16:03 2005 +0000

  Fix scanpci -v core dump when subsys vendor/device id's are NOVENDOR &
  NODEVICE. Bug #3763 <https://bugs.freedesktop.org/show_bug.cgi?id=3763>
  Patch #3074 <https://bugs.freedesktop.org/attachment.cgi?id=3074>

commit cda9c7b2678ea08ac6176a9ee72e6e511134b8e
Author: Lars Knoll <lars@trolltech.com>
Date: Tue Jul 12 14:50:10 2005 +0000

  add x86emu.

commit 41002623f314444bd416fd5f445a0425c5b59df0
Author: Lars Knoll <lars@trolltech.com>
Date: Tue Jul 12 10:02:10 2005 +0000

  Add MMX Code paths for the basic composition operations in
  fbComposeGeneral.

commit 697cf74fb50a550b8f7e124dc8f463a55519795f
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jul 12 03:09:20 2005 +0000

  Make Xpnt run when linked against Xlib for Xrm

commit 419448ea7b0d7f672e568cb1d8b4e190a1f54825
Author: Adam Jackson <ajax@wnkn.net>
Date: Tue Jul 12 03:03:16 2005 +0000
Pull libdri out of the build for now until I get something better worked out.

commit f054bf2ff6b94e285e7f2d174163c01b07b07143
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Jul 12 01:29:41 2005 +0000

build fix

commit 02427d4d04f70109a499578c6762654463ebdae4
Author: Kevin E Martin <kem@kem.org>
Date:   Tue Jul 12 01:20:36 2005 +0000

Add support for building Xdmx and Xvfb

commit 3fe6b5bb30e8e1b9017a9cf818fcceeb279a28e65
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Jul 12 01:17:39 2005 +0000

GLX server support

commit 377e3bddd4d73154520a9582d75de2b20ae532a5
Author: Adam Jackson <ajax@nwnk.net>
Date:   Tue Jul 12 00:55:43 2005 +0000

Forgot to add these for some reason

commit e348ac4b44b1112c19fe5fe5441182e66716087
Author: Kevin E Martin <kem@kem.org>
Date:   Tue Jul 12 00:52:48 2005 +0000

Prepare Xdmx and Xvfb for modularization by adding appropriate #include
<{dix,dmx}-config.h> to the source files.

commit b7a9a6a03560bdf6584c71bf0b546301bba9ab89
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Jul 11 17:52:00 2005 +0000

Remove unneeded xf86drm.h includes to fix modular build.

commit cf4dfd650dbc2bb65eeae4ee2acfb4a4e5295548
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Jul 11 02:29:50 2005 +0000

Prep for modular builds by adding guarded #include "config.h" everywhere.

commit c5548086f3864c828f0cad65d2708cefd2025947
Start filling in glx build. Add xf86Version.h and a few DRI headers to the sdk (needed for modular driver builds).

commit 955fe17133d841758a18072a9acabedc81dc4562
Author: Adam Jackson <ajax@nwnk.net>
Date: Sun Jul 10 21:45:55 2005 +0000

add some convenience variables for the drivers

commit 78fab90230c61241af29f0c94f401ce0bc749b6b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Jul 9 16:51:58 2005 +0000

Bug #3740 <https://bugs.freedesktop.org/show_bug.cgi?id=3740> Patch #3058
<https://bugs.freedesktop.org/attachment.cgi?id=3058>
08-Jul-2005 nv driver updates from Mark Vojkovich:
Change some console restore code for NV11. Hopefully, we can more reliably
restore the console for desktop systems using DVI. This may correct a
recent regression on NV11.
Also, new PCI IDs.
Add new nVidia PCI ids to match nv_driver.c changes.

commit 3c92389185f0e9fa3b8c299a084b10c12bcab52c
Author: Zack Rusin <zack@kde.org>
Date: Sat Jul 9 14:15:35 2005 +0000

Patch from Thomas Winischhofer to kick out all pixmaps to system ram upon a
VT switch and vice versa when returning.

commit 327741486e807c068383a771c04e9042b0589e37
Author: Adam Jackson <ajax@nwnk.net>
Date: Sat Jul 9 02:22:29 2005 +0000

Don't try to link fb, shadow, or vgahw into the loadable Xorg server, as
they're only supposed to be loadable modules.

commit 2b8e4db9ac4b4c8f8fd73c00436d6abec2faa535
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Jul 8 20:27:30 2005 +0000

-LXfont isn't enough for libbitmap, you need to get the -L from pkg-config

commit e84648df7d7eb700b7c2d35fdef0be1f463853fa
Author: Zack Rusin <zack@kde.org>
Date: Fri Jul 8 17:07:52 2005 +0000

---
mark drawable as dirty on copying/painting windows

commit 4ab73a73f4aa1f02cc8dada185b5debddfe43878
Author: Zack Rusin <zack@kde.org>
Date:   Fri Jul 8 07:43:00 2005 +0000

heh, oops (thanks Thomas)

commit 0a28516a6e641b41e674f69fc228b0babbe1743b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Jul 7 19:07:28 2005 +0000

More compiler warning fixes for missing prototypes:
Add prototype for XkbSetExtension()
Add #include <ctype.h> for isspace() & isdigit()
Add #include <grp.h> (for initgroups()) and remove extra *
Add prototype for xorgGetVersion()

commit 2c3c4060fd2a52f147eda01b11222c341c6e3dee
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Jul 7 16:18:52 2005 +0000

Bug #2901 <https://bugs.freedesktop.org/show_bug.cgi?id=2901> Add prototype for XdmAuthenticationInit() (Peter Breitenlohner)

commit d0dc574adb79ffac90b786d4ccfcd1cd8598728
Author: Zack Rusin <zack@kde.org>
Date:   Thu Jul 7 15:05:02 2005 +0000

Check vtSema before accelerating primitives and sync in fallbacks only if we got vtSema

commit 6cb5a51260c20b3bc072fdcc5f3e49fa28ba6414
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Jul 7 14:59:48 2005 +0000

Bug #2901 <https://bugs.freedesktop.org/show_bug.cgi?id=2901> Patch #2332
BUGS <https://bugs.freedesktop.org/attachment.cgi?id=2332> This patch avoids
79 gcc-3.4.3 warnings 'xxx' declared `static' but never defined mostly
due to including "ffunsc.h" with the declaration of static functions
defined in "ffunsc.c". (Peter Breitenlohner)

commit 7da3f4a786d9b61f4129c7dbbe80c84abbfde68
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Thu Jul 7 03:12:40 2005 +0000

Bug #2901 <https://bugs.freedesktop.org/show_bug.cgi?id=2901> Fix warnings
about redefined macros (Peter Breitenlohner)

commit f86562540d1c945bdf96d4b89259d81e4ed25255
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jul 7 02:47:06 2005 +0000

Bug #2901 <https://bugs.freedesktop.org/show_bug.cgi?id=2901> Patch #2325
<https://bugs.freedesktop.org/attachment.cgi?id=2325> Avoid 38 gcc-3.4.2 warnings: suggest parentheses around assignment used as truth value suggest explicit braces to avoid ambiguous `else' suggest parentheses around && within || suggest parentheses around arithmetic in operand of ^`/*` within comment (Peter Breitenlohner)

Bug #2901 <https://bugs.freedesktop.org/show_bug.cgi?id=2901> Patch #2326
<https://bugs.freedesktop.org/attachment.cgi?id=2326> This patch removes these 2 gcc-3.4.3 warnings: missing braces around initializer implicit declaration of function `XpOidTrayMediumListHasTray' (Peter Breitenlohner)

commit 4047191124c237518110e698bde6dab4456444449
Author: Damien Ciabrini <braun@club-internet.fr>
Date: Wed Jul 6 15:34:22 2005 +0000

Added hardware support for transformation matrix (zoom, rotation, etc...).
Fixed the composition function for RGB and A8 format. Avoid syncing hardware after HW fills or copies.

commit 4073f24c90d4aff3f7d83af4c0e733eed082b53b
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Wed Jul 6 15:14:30 2005 +0000

add missing PictureTransformPoint3d call

commit c48f631c0d6a2799b1a24a486b05956cfa9ca3da
Author: Damien Ciabrini <braun@club-internet.fr>
Date: Wed Jul 6 13:57:41 2005 +0000

Fix offset alignment code in the offscreen memory allocator to prevent textures from being allocated in the next free memory area.

commit baa99be190c51b533bf8748c66a9bce62594e96
Author: Ian Romanick <idr@us.ibm.com>
Date: Wed Jul 6 07:16:19 2005 +0000

Put the correct value in the length field of the reply. Previously, the number of tag/date pairs was specified. This was incorrect. The correct value is the number of values (one for the tag and one for the value). Xorg bug: #3210
commit 6ba4a2e78a73858648b5b6a39306446d519c3a75
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 23:01:51 2005 +0000

Add more defines for XWin DDX Make building of cfb*, afb and mfb
    conditional Set FD_SETSIZE=256 on cygwin

commit 71ed3ae0c696152e82a98ce2ac0fa67ce6f23464
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 22:58:29 2005 +0000

    wrap fInternalWM with XWIN_MULTIWINDOWEXTWM

commit 456844a613240ce56181f6f3ec7873be9b2dc85d
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Jul 5 18:42:32 2005 +0000

    Remove Speedo font module documentation.
    Remove Speedo from list of font directories
    Update default font path to remove Speedo, add TTF.

commit 20c15003f9648de0c03f7d4fa4508afdb96b19f5
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 18:25:44 2005 +0000

    Fix crash on server shutdown

commit d72ef26d44e649f39a56730830148d48d77ee9e
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 17:52:35 2005 +0000

    Fix simultanious presses of Left and Right Control and Shift keys.
      https://bugs.freedesktop.org/show_bug.cgi?id=3677

commit 0f2c8221c938ce8ebdb90e111a6b87223c18f9e
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 16:35:42 2005 +0000

    Fix typo which broke window titles

commit 0bb2eb88eaaf405f4efbc45bf3cb47bbcf10b7cfd
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 5 15:43:20 2005 +0000

    Fix problem with fake Control press on Alt-Gr
      https://bugs.freedesktop.org/show_bug.cgi?id=3680
      https://bugs.freedesktop.org/show_bug.cgi?id=3497
    Fix static declaration of winGetBaseDir
External windowmanagers could connect in multiwindow mode which lead to strange results with the internal windowmanager.

Build miinitext.c and fbcmap.c as DDX specific files
Do not define _POSIX_SOURCE on cygwin.

Revert last changes. They have to be addressed in a different way

Add XWin DDX, make Xorg DDX conditional Make XF86VidMode and XF86Misc conditional Add XWin DDX Added DDXTIME, DDXOSFATALERROR, DDXOSVERRRF and DDXBEFORERESET Added fbcmap.c Added miinitext.c Added -I$(top_srcdir)/Xext/extmod to INCLUDES

Include xwin-config.h if HAVE_XWIN_CONFIG is defined Cleanup X11 includes Warning fixes

remove the temporary debugging output
Bug #2216: Multiseat support. From various Debian and Ubuntu patches by
Aivils Stoss, Andreas Schuldei, Branden Robinson, and Daniel Stone.

commit ba011dc77dcaea2843481fbba45a76d8cb9aa83
Author: Lars Knoll <lars@trolltech.com>
Date: Mon Jul 4 14:47:03 2005 +0000

don't be too smart and try to replace PictOpOver by PictOpSrc when we have
an external alpha map.
Make fbmmx.c compile on gcc 4.0.1.

commit a4df8ad75579d9c183f110d79d87e9af23acd
Author: Lars Knoll <lars@trolltech.com>
Date: Mon Jul 4 14:23:59 2005 +0000

Fix handling of "super luminescent" colors Fix off by one error in the
transformation handling.

commit e34f31762e0454930f30547a9407cc8b941c70f2
Author: Zack Rusin <zack@kde.org>
Date: Mon Jul 4 14:15:57 2005 +0000

This fixes the close screen mess (crash reported by Thomas). Also hide the
private Exa screen definition. Properly cleanup on screen close and do
not delete the private screen in the DriverFini call.

commit 4ef813961dc8dea8924a79e0954d5b6da12e77c0
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Jul 4 09:01:43 2005 +0000

provide the uint datatype on WIN32

commit 7dc547252af3b23652bd496957645726c7125a4
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Jul 4 00:16:23 2005 +0000

Fix builds on non-GLIBC systems (missing __GLIBC_PREREQ). Add Solaris stack
backtrace dumper.

commit d010de6979a6c51a628f2f8e6d7f479a542d1e8b
Author: Daniel Stone <daniel@fooishbar.org>
Date: Sun Jul 3 15:51:23 2005 +0000

Abandon the nostdinc experiment.

commit b0d80e76d28db4bc1ee14453950db00bb4d7f377f
Add missing include paths.

commit 461eb6ebd9273dc3dc6d01ee0a0491981a98acd9
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 12:16:29 2005 +0000

Change HAVE_CONFIG_H to HAVE_DIX_CONFIG_H.

commit c1e69798ad14fb706f5f6de67e3f53df56f524c6
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 12:15:16 2005 +0000

Add explicit PSZ defines, remove unnecessary dix-config.h include.
Add -DXF86PM, forgotten from last commit.

commit 4e501d35e260775a43f340b3e1a9aa092570aba4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 10:51:16 2005 +0000

Remove needless usage of DECkeysym.h.

commit a107f599518a175dd689417b48788a746303966a
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 09:39:54 2005 +0000

Predicate usage of xf86OSPM functions on #ifdef XF86PM.
Remove needless include of ../input/mouse/mouse.h.

commit 0bb669638f032e61471007b2fa88285aa5d63903
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 08:53:54 2005 +0000

Change <X11/misc.h> and <X11/os.h> to "misc.h" and "os.h".

commit 401e4580d6dd9867a691045688680ce410f84cb5
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 07:55:00 2005 +0000

Move misc.h and os.h from proto/X11 to xserver/xorg/include.

commit 46b64bd5c66abb1bb9f3538c887d10867607bff
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 07:37:35 2005 +0000

Fix more include paths; add dix-config.h to XKB code.
commit e03198972ca78b03ad13cb49112c03a052bb763b
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sun Jul 3 07:02:09 2005 +0000

Add Xtrans definitions (FONT_t, TRANS_CLIENT) to clean up warnings.
Add XSERV_t, TRANS_SERVER, TRANS_REOPEN to quash warnings.
Add #include <dix-config.h> or <xorg-config.h>, as appropriate, to all
source files in the xserv/xorg tree, predicated on defines of
HAVE_[DIX,XORG]_CONFIG_H. Change all Xfont includes to
<X11/fonts/foo.h>.

commit b8ae6fc474ff6d637bec178674898ea95ccde47
Author: Kevin E Martin <kem@kem.org>
Date:   Sun Jul 3 03:28:27 2005 +0000

Fix build issues.

commit 826a6f029faebaa783a93dfedc988e946f9326b58
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Sat Jul 2 18:59:44 2005 +0000

Continuing Makefile cleanup; add DIX_CFLAGS and XORG_CFLAGS everywhere.

commit e58c09d31bdf90210e2ce1ef976cea0459c02a
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 2 18:06:05 2005 +0000

Bug #3687: Print backtraces on fatal signal on glibc systems.

commit e6602b041fe489d51a1d7fac55cbb12b1826ba1
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Jul 2 17:02:23 2005 +0000

Bug #3546: Use MAP_LENGTH instead of a magic number. (Mark McLoughlin)
Bug #3664: Further fixes to Xnest modifier state handling. (Mark
McLoughlin)

commit 9b1debcdb6c7d956c06350a6525af86d691fa
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 22:43:43 2005 +0000

Change all misc.h and os.h references to <X11/foo.h>.

commit 657b4eb8aa0076acae85997c4f0c352a4d86632
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 22:32:34 2005 +0000
Change all misc.h and os.h references to <X11/foo.h>.

commit 303c281f956d55e35b05ef8521d0b60d24aa7a10
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 21:15:20 2005 +0000

Add auto-generated header files.

commit 9a6ec34d2545a23586f11ad51c81f41a940d73d0
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 21:13:36 2005 +0000

Use canonical autogen.sh, which supports srcdir != objdir autogen.

commit 7ecc2d526c4ea5db2589644a2fee0daf71df36da
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 21:12:24 2005 +0000

Remove fbcm.p hacks from the DIX.

commit 6251f9c00a866f64207d23b0a06306ead15298e8
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 21:11:16 2005 +0000

Minor build system tweaks.

commit 641f32c4368db07831d9d703161a9d4699307621
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 20:54:30 2005 +0000

Adding initial build system.

commit 507d30546f56bfd172fc43857459c78c1026e97c
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 20:54:01 2005 +0000

Adding initial build system.

commit a822df1cc16d150614dead70fd00750095a05c35
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 20:49:35 2005 +0000

Adding initial build system.

commit ded56b1a74e6b3e4c48054b7e142d924b19e6104
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri Jul 1 20:29:53 2005 +0000
Adding initial build system.

commit aab8868920658e9d3979dc194c6bd9702171f1d
Author: Zack Rusin <zack@kde.org>
Date: Fri Jul 1 13:30:29 2005 +0000

removing all debugging output from the default build :)

commit 0fa9d1f4886c418e3d8e0886ad815513eda0633
Author: Zack Rusin <zack@kde.org>
Date: Fri Jul 1 12:24:30 2005 +0000

Leave debugging output for only the interested parties.

commit 0df446ab8875430508ff51d3548955a215475084
Author: Zack Rusin <zack@kde.org>
Date: Fri Jul 1 10:39:21 2005 +0000

Missed this. Spotted by Thomas.

commit b5b2a0522efd61bd99b5d5d75cdd27960cd1c7e1
Author: Lars Knoll <lars@trolltech.com>
Date: Fri Jul 1 10:05:43 2005 +0000

Add support for gradients and solid fills to Render.
Changed the semantics of the Convolution filter a bit. It now doesn't try
to normalize the filter values but leaves this to the client. This
gives more reasonable behaviour in the limit where the filter
parameters sum up to 0.

commit 30c019e847adeff7f3963d8ef1f3f994669a54
Author: Zack Rusin <zack@kde.org>
Date: Fri Jul 1 08:56:12 2005 +0000

Adding the new acceleration architecture: Exa. It's meant to replace XAA in
the coming months.

commit 276821605ee50e71f30dd52f2c12237fc61f288f
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Jul 1 03:14:54 2005 +0000

Fix return values in Xgl render texture implementation

commit 5e381441fff411316ea202a9f85aceb0e0df46b
Author: Alex Deucher <agd5f@yahoo.com>
Date: Fri Jul 1 02:56:04 2005 +0000

- Fix Support for Philips FM1236/F tuner on ATI AIW 9600 XT (Jeff Smith)
Bug 3401

commit c4d1b4e0424d53cd0470e0e3f57c10ee8fe3d8c2
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Jun 30 21:33:46 2005 +0000

Added another test of checkForInput for WIN32 Windows keyboard and mouse
events are added to the input queue in Block- and WakupHandlers. There
is no device to check if input is ready.

commit 1230ce55ac3f75f4902b51b223d40354a54d0d0ab
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Jun 30 18:50:20 2005 +0000

Pass serverClient instead of NULL to ConfigureWindow. This should fix a
crash reported by Øyvind Harboe

commit 0929f79c1b985b65808ab034591510906623e841
Author: Matthew Allum <breakfast@10.am>
Date: Thu Jun 30 13:39:00 2005 +0000

Another Xephyr focus/modifier fix

commit b6c7afe0b9faed705c70334d464fd75ce5c84c4
Author: Lars Knoll <lars@trolltech.com>
Date: Wed Jun 29 15:19:14 2005 +0000

compile

commit d8a98454e305973dd7fec76db2ef80705cf7c298
Author: Lars Knoll <lars@trolltech.com>
Date: Wed Jun 29 11:57:16 2005 +0000

Add support for gradients and solid fills to Render.
Changed the semantics of the Convolution filter a bit. It now doesn't try
to normalize the filter values but leaves this to the client. This
gives more reasonable behaviour in the limit where the filter
parameters sum up to 0.

commit ce0e11aeac76119b96b463605bc1f5318e3d2bde
Author: Adam Jackson <ajax@nwnk.net>
Date: Tue Jun 28 21:05:31 2005 +0000

Bug #2447: Fix argument order to xf86DrvMsgVerb. (Luc Verhaegen)

commit 5ef5ace9bb5ee85295c0913afca891572d1315a4
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Jun 28 02:04:54 2005 +0000
Update to latest snapshot (27-May-2005) from http://pciids.sf.net/

commit b262a18aad36b2de729f6d00d144ac7277687f19
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Jun 26 02:48:36 2005 +0000

Cosmetic correctness fixes: miEmptyBox and miEmptyData are variables, and
miGlyphExtents is a function.

commit aa7fb99bc76e62036ec73ff50f58337558859b814
Author: Adam Jackson <ajax@nwk.net>
Date:   Sat Jun 25 21:28:48 2005 +0000

Bug #3030: Fix Xnest keyboard state handling. (Mark McLoughlin)

commit 8562f800b879ae461317da96409611753e107250
Author: Adam Jackson <ajax@nwk.net>
Date:   Sat Jun 25 21:16:54 2005 +0000

 Bug #3626: _X_EXPORT tags for video and input drivers.

commit 582a9f0d2ee01fa3c5625e2f45a4599be7a11d5
Author: Zack Rusin <zack@kde.org>
Date:   Sat Jun 25 12:39:58 2005 +0000

Correctly handle empty rects on region initialization.

commit 56201222067e793a3542bedcd39bb257b4fad2a6
Author: Matthew Allum <breakfast@10.am>
Date:   Thu Jun 23 16:50:07 2005 +0000

 Fix issues with focus in and modifiers from host confusing Xephr

commit a668b6c11a2d6d4800407ad918481d90be87a732
Author: Matthew Allum <breakfast@10.am>
Date:   Thu Jun 23 16:34:07 2005 +0000

 redo tslib

commit 5e863851a61207ade1ac807bc8cf7d9cf02dbbe
Author: Adam Jackson <ajax@nwk.net>
Date:   Sun Jun 19 01:30:29 2005 +0000

 Build workaround. Add glcontextmodes.[ch] from Mesa.

commit 9743adbe94f29417818b90e18aeb96a72f332f0
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Add Type1 subdirectory to lib/Xfonts, update build system accordingly.

commit 68e856ff5b1842ba10421714b5f6b21d528f6071
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jun 15 18:31:52 2005 +0000

DRM 20050615 import

commit 6e301a8e97e99d58eaed25453f66c6d73baf460
Author: Ian Romanick <idr@us.ibm.com>
Date:   Wed Jun 15 18:31:52 2005 +0000

Initial revision

commit f0c76610b72a5b54bae5a5eb51ff4e420a27320e
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 15 16:46:59 2005 +0000

Conditionaise another use of XEvIE.

commit 28ee3dd955302a1e99f0f0f0512c6234d043
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Jun 15 16:27:16 2005 +0000

Conditionaise building of XEvIE code with #ifdef XEVIE.

commit c6166ee74137084775c7550b708c5f71f16e7d3f
Author: Lars Knoll <lars@trolltech.com>
Date:   Wed Jun 15 14:51:12 2005 +0000

Fix projective transformations in fbcompose.c Bugfix for convolution filters

commit bd54b96034e640f202821eac0a2c40e66c1ddfd0
Author: David Reveman <c99drrn@cs.umu.se>
Date:   Wed Jun 15 05:50:15 2005 +0000

Shut up compiler

commit 7fa782d75d548498474830c7268032ff5c5f406a5
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Mon Jun 13 21:51:46 2005 +0000

Add xkbfile to symlink.sh, conditionally include "config.h" in xc/lib/xkbfile
Correct the CHIPSET lines for the 3dfx cards so the tdfx driver will recognize them. I'm not sure if this file is supposed to be maintained still, but I'd like to close FreeBSD ports/32121 which has been around for far too long.

Build fixes

add the convolution filter from xserver to xorg

Remove xgloffscreen.c

Bug #3513: Silence unhandled event messages from Xnest when running with -parent. (Mark McLoughlin)

New implementation of GLX_MESA_render_texture

file usl_xqueue.c was initially added on branch sco_port_update.
Bug #2799: Input shape. (Keith Packard)

commit d24ed90547122832d4168ad761f68e107bb1a2db
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Jun 10 02:14:44 2005 +0000

Axe a few dead fields from the port priv struct and add my name to the
"Copyright" line of the license to ati_video.c that already has my name
in the text.

commit 75065f3a54ec760bbe81160fa233810f14d8aa2
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Jun 9 23:22:55 2005 +0000

Perform a warnings sweep on hw/kdrive. A number of these were my fault, but
some come from others.

commit e11e60b361d63ae02918dd6b43038a5e92b73a49
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Jun 9 21:59:26 2005 +0000

Greatly improve the correctness and performance of the MGA render
implementation. Includes cache flushing to prevent bad first reads of
the framebuffer, fixing blending of many formats, falling back on many
unsupported operations, and falling back early to prevent migration.
Passes all of rendercheck except some of the blend (!) tests.

commit 9f81ce945680515e6db7da6c87458bee7c0f053d
Author: Ian Romanick <idr@us.ibm.com>
Date:   Thu Jun 9 21:48:45 2005 +0000

Re-enable GL_HP_occlusion_test. The problems in Mesa that caused this bug
were fixed by Brian Paul in Mesa version 6.1. The current Mesa version
in the X.org tree is 6.2.1.
Xorg bug: 762

commit 92b3775ae8bdd4a84d7e101b36b306fbd3ac17a2
Author: Matthew Allum <breakfast@10.am>
Date:   Thu Jun 9 16:22:27 2005 +0000

TSLib fixes. Add fullscreen support to ephyr

commit 545c082cf9c86f2a809ea6b4dca33643afb0c3d3
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Jun 9 10:44:45 2005 +0000
- Replace the syncAccel hook in the kdrive structure with a pair of hooks in the kaa structure: markSync and waitMarker. The first, if set, returns a hardware-dependent marker number which can then be waited for with waitMarker. If markSync is absent (which is the case on all drivers currently), waitMarker must wait for idle on any given marker number. The intention is to allow for more parallelism when we get downloading from framebuffer, or more fine-grained idling.
- Replace the KdMarkSync/KdCheckSync functions with kaaMarkSync and kaaWaitSync. These will need to be refined when KAA starts being smart about using them. Merge kpict.c into kasync.c since kasyn.c has all the rest of these fallback funcs.
- Restructure all drivers to initialize a KaaInfo structure by hand rather than statically in dubious order.
- Whack the i810 driver into shape in hopes that it'll work after this change (it certainly wouldn't have before this). Doesn't support my i845 though.
- Make a new KXXV helper to avoid duplicated code to fill the region with the necessary color key. Use it in i810 and mach64 (tested).

commit 72ca8e1b5432db57401e66af8a07fcd8cbbbb9f1
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Jun 9 03:11:58 2005 +0000

Add agpgart support for Solaris x86/x64. [Requires Solaris "Nevada" build 16 or later to get kernel side for now.] (Sophia Li - Sun Microsystems)

commit ca37d5755259ca03c61cf0567be3dea99d0c79f6
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Jun 9 03:01:57 2005 +0000

Bug #2469: More accurate damage reports. (Jonathan Lennox)

commit cdc15e2294a9bffe570e33bc31170081abf55fb
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Jun 9 02:29:42 2005 +0000

Bug #1846: Add intentionally undocumented -disablexineramaextension flag to the server to work around ignorant clients on large display walls. (Kevin E. Martin)

commit e3cdec7cdec76f6294ba1f296e4bdee43b1eb3c
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Jun 9 02:19:10 2005 +0000

Bug #1880: Remove unused xnestConfineWindow. (Mark McLoughlin)

commit 0f7136191b54e587b66958985e14d8b0687c5ee1
Author: Adam Jackson <ajax@nwk.net>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  36696

Date: Thu Jun 9 02:03:50 2005 +0000

Bug #3434: Don't define fbAddTraps twice. (Mike A. Harris)

commit c7fe996eb43a0b0ea94a37d329e3902299e6e895
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Jun 8 16:13:11 2005 +0000

Merge from CYGWIN Added layout "French (Canada)" as ca_enhanced Added Czech (QWERTY) layout
Merge from CYGWIN Print error code if winStoreColorsShadowDDNL fails

commit d0d164e6d6af6c1d8afe8099fb6187d8a74ff652b
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Jun 8 09:01:41 2005 +0000

Fix crash reported by yvind Harboe

commit d146c41882e50dd1ed6022f8a5866514067ba9d2
Author: David Reveman <e99drn@cs.umu.se>
Date: Tue Jun 7 08:53:40 2005 +0000

GLX improvements and remove use of pbuffers for offscreen rendering in Xgl

commit 8237b31f60245a8e67735d6c231dfb7dd0bb3c88
Author: Jon Smirl <jonsmirl@yahoo.com>
Date: Mon Jun 6 04:06:38 2005 +0000

Keyboard sort of works now with evdev

commit c50265777cb70c7365a9c81b2775136b45c850d2
Author: Jon Smirl <jonsmirl@yahoo.com>
Date: Sun Jun 5 17:32:41 2005 +0000

Create a default colormap

commit 021a5cd170051aae25cf61651d07b47a4df31ab4
Author: Jon Smirl <jonsmirl@yahoo.com>
Date: Sun Jun 5 01:58:41 2005 +0000

Enable egl server in automake
--enable-xeglserver

commit aa959672863aad71c807d6c09938bb296c347bcf
Author: Jon Smirl <jonsmirl@yahoo.com>
Date: Sat Jun 4 23:33:03 2005 +0000

Initial Xegl check-in. Works on EGL fbdev driver Input is totally broken.
commit 88d49bed008264092245c4f6c53174f93f6ab387
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Fri Jun 3 21:49:11 2005 +0000

Need to set initial screen size at device open time too.

commit 0d206e177f46eedfffd8f88e985efdfaf117021c
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Fri Jun 3 08:12:22 2005 +0000

Backout last winRaiseWindow patch which caused stacking problems

commit 2fc290f646eb48f3c20ccff98355c2d082569160
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Jun 1 17:45:17 2005 +0000

Solaris VUID mouse protocol updates:
- support for mouse-like devices that report absolute coordinates
- support for mouse-like devices that need to know screen size so they can
  scale absolute coordinates to screen size
- fix 3-button emulation

commit 8537146e3662cdc66ef4692b6d3886a676096fb8
Author: Adam Jackson <ajax@nwnk.net>
Date: Mon May 30 18:44:55 2005 +0000

Bug #3368: Cosmetic cleanup to DIX export list.

commit 547c47aaea9f31f7c873376b0db859c1c1d3d918
Author: Adam Jackson <ajax@nwnk.net>
Date: Mon May 30 18:36:19 2005 +0000

Bug #3407: Clean out ancient #ifdef X11R5 conditionals.

commit cebd7348d271591b7ebebe3b332f835cfa8a068
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat May 28 00:08:03 2005 +0000

Bug #3407: Clean out ancient #ifdef X11R5 conditionals.

Change hardcoded /usr/X11R6 to PROJECTROOT. Change hardcoded XF86Config to
XCONFIGFILE.

commit 1cb18a4bad565d1f783a4cefb3ed467699051068
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed May 25 12:14:29 2005 +0000

Workaround bug in pthread.h
commit 62343f5162066f19ca6e62d1c85a4a40d45b3295
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun May 22 01:12:49 2005 +0000

  Bugzilla #2800 <https://bugs.freedesktop.org/show_bug.cgi?id=2800> Xevie
extension crash with signal 11 on keyboard Bugzilla #1205
  <https://bugs.freedesktop.org/show_bug.cgi?id=1205> Xevie client
  receives two KeyPress events on consumed keys when XKB is enabled
  Patch #2223 <https://bugs.freedesktop.org/attachment.cgi?id=2223> Fixes for
  both of these and some other Xevie bugs (Derek Wang - Sun Microsystems)

commit a8a61bbe22361b12d4a2dd511894987a338e3eef
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sat May 21 07:46:38 2005 +0000

  Initial experimental support for AMD64 builds on Solaris 10 x86. Improved
  support for 64-bit SPARC builds on Solaris as well.

commit cf4401ff8a8c4d7c22ef6af7bf47cbb24f83967f
Author: Adam Jackson <ajax@nwk.net>
Date:   Thu May 19 18:53:51 2005 +0000

  Bug #3334: Clean up remnants from the PEX, XIE, and BEZIER extensions.

commit 1e51e18382de61a67027759eccee9cbb0924304
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu May 19 01:25:02 2005 +0000

  Wed May 18 21:20:35 2005 Søren Sandmann <sandmann@redhat.com>
  s/dst/src that I missed in the previous patch. Pointed out by Owen Taylor.

commit be3875994d7778ffad0cd957a4bd1500bf58ac2c
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed May 18 20:49:31 2005 +0000

  Wed May 18 16:47:44 2005 Søren Sandmann <sandmann@redhat.com>
  Actually assign the computed results. (Reported by Michael Dänzer, patch
  by Owen Taylor).

commit 07d1e9ae5f0da65427ac52f065b173d340d70d6d
Author: Adam Jackson <ajax@nwk.net>
Date:   Wed May 18 19:44:35 2005 +0000

  Bug #3066: Promote frameBufferPhysicalAddress to pointer from CARD32; bump
  DRINFO version to match. Fix various pointer printfs in libdri to be
  64-bit aware. Silence a warning about redefining noXFree86DRIExtension.
  (Jesse Barnes)
commit b87a32fb0eafa6d5f12a6fa634662c71fde97fa
Author: Adam Jackson <ajax@nwnk.net>
Date: Wed May 18 17:47:35 2005 +0000

Bug #3163: Create new DRIINFO_*_VERSION macros to indicate the version number of the DRIInfoRec, disambiguating it from the XF86DRI protocol version number. Modify DRIQueryVersion to return the libdri version number, which all DDXes were requesting implicitly. Fix the DDExes to check for the DRIINFO version they were compiled against.

commit fddcde777f50611099d8888456d93be7e566c84e
Author: Egbert Eich <eich@suse.de>
Date: Wed May 18 15:38:50 2005 +0000

VBESetVBEMode() calls int10 0x4f02 to set a VBE video mode. This can be a standard mode solely determined by the mode ID or it may be a detailed mode with almost arbitrary mode parameters. The mode parameters are passed to the BIOS in a memory area pointed to by es:di. If bit 11 in the video mode is set this memory area is evaluated. When we don't have such an area (passed to VBESetVBEMode() this function should unset this bit for sanity reasons. (Bugzilla #3329)

commit f28d644d9fb1f0e1ab1aabb3d5e68255bfa20905d8
Author: Zack Rusin <zack@kde.org>
Date: Wed May 18 14:24:14 2005 +0000

rewrite the rootless compositing code (1) compiles which is already a huge improvement ;) , 2) matches the new render composition semantics)

commit bbbb0a3a84bf21f5120c73ef387d6190154c0f65
Author: Egbert Eich <eich@suse.de>
Date: Wed May 18 10:31:53 2005 +0000

Avoid segfaults if the number of user supplied monitor ranges exceed the number of preallocated slots. We should really make this dynamic - but I don't think this ever caused a problem so it's more or less academic.
A. Avoid that *SyncStart starts before *BlankStart. If *BlankStart > *SyncStart it is made = *SyncStart and its width is made maximal but such that the blank does not exceed *Total. Since the Sync width has the same restrictions as the Blank width monitors should still be able to clamp after the sync pulse. B. Over time mode validation has become inconsistent when people started to add additional features to the mode validation. One such feature is that the mode->Crtc* values have been (ab)used to allow the driver ValidMode() function to pass driver normalized timing values back to the validation function. The introduction of these features made the code less readable and created numerous possibly unintended side effects in the validation semantics. I've attempted to consolidate these changes making the code more
consistent and eliminating a number of side effects. This should not cause problems for the majority of drivers, still it should receive testing - especially with ATi Mach64 and Radeon code. (Bugzilla #3325).

commit a90af4a2e6e38be20af13aaa7822836c01290ae
Author: Thomas Hellstrom <unichrome@shipmail.org>
Date: Sun May 15 17:45:47 2005 +0000

Bug 2750: Prevent mtrr_remove_offending from ending up in an endless loop if the offending region refuses to be removed.

commit f58a54668b96884ececbff732e880677d5d19e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat May 14 20:13:45 2005 +0000

Change return statements to fix compiler errors: "fbcompose.c", line 2815:
   void function cannot return value "fbcompose.c", line 2861: void function cannot return value

commit a9d820b454bbb418d04e1d3c3d5d4dd10d7bb3af
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri May 13 22:53:44 2005 +0000

- For now put xtrans in X11/Xtrans/X11, since libX11 is looking for it in <X11/...>
- For Xcomposite and Xdamage, don't link the build system out of the xc tree
- Link the public X11 headers into their own directory
- Add links to XKeysymDB and XErrorDB
- Add links to all the Xlib man pages
- Add links to the lcUniConv subdirectory
- Conditionally include config.h in Xlib source

commit 8993e70d8da89e130455369cc504b3adea5344f
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue May 10 00:12:17 2005 +0000

Bugzilla #2561: Disable some keycode translations on PC98, which had various bad effects including modifier keys not working.

commit e78af3bdfbf5fc13fbc5b1d3ec00e9484297b89
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon May 9 23:42:26 2005 +0000

Bugzilla #2429: Correct the sysarch prototype for FreeBSD/alpha.

commit 3f1a1551df2a9f45b3b8821f3f168d4dc8b8b438
Author: Eric Anholt <anholt@freebsd.org>
Increase the maximum number of buttons from 12 to 24. Helps with button-happy mice like the Logitech MediaPlay. (Bugzilla #2390)

commit eca5dff173d5af0a31bbf84579909b88a86e4c92
Author: Adam Jackson <ajax@nwnk.net>
Date: Mon May 9 12:46:53 2005 +0000

Render performance improvements. (Lars Knoll, Zack Rusin)

commit 2de24db63eb65974ac547facf2a99aa4709d54b3
Author: Adam Jackson <ajax@nwnk.net>
Date: Sun May 8 23:34:15 2005 +0000

Render performance improvements. (Lars Knoll, Zack Rusin)

commit 2c9b1e337b2e82e10909f62e8c8d8c27a402fdd8
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sun May 8 21:14:55 2005 +0000

Only call ConfigureWindow from winRaiseWindow if the windows message dispatch loop is running.

commit 78e4cb67d0f595f4fba5e98a9fa46de044556905
Author: Torrey Lyons <torrey@mrcla.com>
Date: Fri May 6 00:45:30 2005 +0000

Fix build issues on Mac OS X 10.4.0.

commit d5739efd2c266081ed6b844767dcedd0a3331bdf3
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed May 4 04:14:58 2005 +0000

Port X.Org to FreeBSD/powerpc. This makes a bit of math for sysmouse in mouse.c explicitly signed, avoiding the need for -fsigned-chars. (Peter Grehan, grehan at FreeBS dot org)

commit 6700847458427cbdbaf837ab06bfe9b80d92df2
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Mon May 2 22:01:08 2005 +0000

Fix comments for pointers in parameter lists to work with fussy compilers

commit e50ab8feade400ef8e88ee0b2deeb924f169034
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Mon May 2 21:57:32 2005 +0000
Fix message type (response->response) and fix */*comment*/ blocks to work
with fussy compilers.

commit baa0cfce15442287557e44fa2614d89ab0b5c2539
Author: Alexander Gottwald <alexander.gottwald@s19999.tu-chemnitz.de>
Date: Mon May 2 14:07:31 2005 +0000

Print correct logfile in FatalError message

commit be977945a53206d70ef9817d6ede4137eb5f7e3c
Author: David Reveman <c99drn@cs.umu.se>
Date: Mon May 2 00:33:52 2005 +0000

Set stencil size for Xgl GLX visuals

commit 5b4462ed9bb17212dd57617cb7e837142b6270a
Author: David Reveman <c99drn@cs.umu.se>
Date: Sun May 1 22:55:25 2005 +0000

New algorithm for calculating glyph extents in Xgl

commit e4b33f4e91a5379ce99eef78ff6a3e836cb42491
Author: Egbert Eich <eich@suse.de>
Date: Wed Apr 27 15:42:15 2005 +0000

Catch SIGCHLD in OsBlockSignals() too to make sure this signal doesn't
intercept reading the authority file (Fabian Franz, Bugzilla #3137).

commit 246b14cb29250517912d9c661ab037a953f4bbf4
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Apr 27 10:34:33 2005 +0000

Minor optimization

commit 28a2d841cee596c0242b1649587d6b180529c0ef
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Apr 27 09:29:33 2005 +0000

Line drawing improvements to Xgl

commit abcc8e352e5fe6dd3b7ce5c6a25f435f877264c3
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Apr 27 08:45:16 2005 +0000

Fix typo

commit 8bc5a387c365d6367813eac374150440d0edbf6e
Author: David Reveman <c99drn@cs.umu.se>
Add glCopy operation and glPushAttrib/glPopAttrib support to Xgl GLX

commit f010131a1964b5e35f3b333ff7a7459c38f8e45
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 26 06:12:07 2005 +0000

code/programs/Xserver/Xprint/Init.c
//bugs.freedesktop.org/show_bug.cgi?id=2879) attachment #2556
(https://bugs.freedesktop.org/attachment.cgi?id=2556) Refix for bug
2879 - downgrade 15bit PseudoColor to 14bit - the current datatype for
the [ColormapEntries] is a [signed short] which is too small for
[32768] colors (=integer overflow).

commit ba24ae89d33f93a4c88bba920d7436b77fda46
Author: David Reveman <c99dtn@cs.umu.se>
Date:   Mon Apr 25 17:18:01 2005 +0000

Add scissor based clipping to Xgl GLX

commit 07cc29c69ff1e079e9e3c9bfc55e8ac0f9bae93
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 25 00:25:39 2005 +0000

Bug #2138: When the server is built with MakeDllModules YES, prefer
dloader modules to elfloader modules, and vice versa when
MakeDllModules is NO. Based on 028_loader_speed_hack.diff from Ubuntu
(Daniel Stone).

commit 6c37648754c9bd901adecf8d38f9bb46db6efada
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Apr 25 00:11:21 2005 +0000

Bug #2141: Rework misleading warning message when APM support is
unavailable. (Previous patch on 2005-04-14 changed the wrong message.)

commit a369d390a87ab0189c4656c6cfd914e4b9329691
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sun Apr 24 01:10:12 2005 +0000

code/config/cf/X11.tmpl
code/programs/Xserver/Xext/Imakefile
code/programs/Xserver/dix/Imakefile
code/programs/Xserver/dix/main.c
code/programs/Xserver/dix/xpstub.c
code/programs/Xserver/mi/miinitext.c
//bugs.freedesktop.org/show_bug.cgi?id=2792) attachment #2526
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

[Link to bugs.freedesktop.org/attachment.cgi?id=2526]

bug 2792 part II:
Make Xprint headers in dix/, mi/, os/ and Xext/ conditional on whether
the Xprint extension is build or not. Patch by Egbert Eich
<eich@freedesktop.org> and Roland Mainz <roland.mainz@nrubsig.org>.

commit 13fcfee37305f46e95ff81d7d5eecc4d88a63a63b
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Apr 23 22:55:40 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=3118) attachment #2525
Get Xprint server working again which was broken by the
05/04/20 05:49:46 commit commit (the CPP symbol |XPRINT| is not universally
available when building the Xserver and should be used with care).

commit 39eb2797183bf871a2dd01bfff63dd35c146471f5
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Apr 23 19:16:10 2005 +0000

Bug #3016: Don't complain as loudly about failing to load a module that's
already loaded.

commit 139f900c56a6f44df2b411fe4bbcf025a147e3abe
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sat Apr 23 19:01:13 2005 +0000

Bug #3109: Handle R_ALPHA_BRSGP relocations in elfloader. (Sergey Tikhonov)

commit 0e80fe0e607cc73856332563becd70ef92d1aa75
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Apr 22 22:11:26 2005 +0000

Clean up formatting, projectroot substitution, and grammatical nits.

commit dcfb97204b021738c0ee9f1f8f40243dfa0b2ce0
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Apr 22 22:04:37 2005 +0000

Work around clash between Solaris headers and module loader headers over
definition of FILE.

commit 07bd7df6a6a07834277b4bf505db6727841e1153
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 22 20:49:50 2005 +0000

Bug #3069: Drop the BuildLowMem hack, it doesn't compile and isn't useful.

commit d450a70e00b50427ecb2065d3ce44f43d102cade
Bug #2373: SGI Altix platform support. (Shrijeet Mukherjee, Jesse Barnes, Bjorn Helgaas, Egbert Eich.)

commit 16c2499b8f5c2405e36c7d5a922bb0b150df1762
Author: Adam Jackson <ajax@nwnk.net>
Date:   Fri Apr 22 16:49:22 2005 +0000

Bug #2373: SGI Altix platform support. (Shrijeet Mukherjee, Jesse Barnes, Bjorn Helgaas, Egbert Eich.)

commit 8565b6c0e2851cc3f194ba72d3db02a4e2976528
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Apr 21 00:31:31 2005 +0000

Change xf86bigfont.h include to X11/extensions/xf86bigfont.h.

commit b241c703a2c4164420dd26ee11f583bbf9cefe0f3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Thu Apr 21 00:31:13 2005 +0000

Change keymap.h includes to X11/keymap.h

commit 44528218d5ca75b842e4cefd8fde58be2f35f0f4
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Apr 20 23:33:53 2005 +0000

Change dmxext.h and dmxproto.h to <X11/extensions/...>.

commit efa9d5f4757bfc0588cee361bccc78dd8a09efa62
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Wed Apr 20 23:11:12 2005 +0000

Change "eviestr.h" to <X11/extensions/eviestr.h>.

commit db5bd04097fd815ab6523f187679682a5e5047fa
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Apr 20 16:40:52 2005 +0000

Fix includes right throughout the Xserver tree:
apply changes to windows specific includes

Fix includes right throughout the Xserver tree:
apply changes to Xdmcp.h

commit 8963a220f36cf0ae2a8a653fd39e983140e29736
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
warning fix for Win32

commit e6a0820d1b479058bddef66018d321940e79260c
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 15:16:36 2005 +0000

Change "xf86bigfstr.h" to <X11/extensions/xf86bigfstr.h> for includes.

commit 025724f9f5874159c20ebd705288ec60b960caac
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Apr 20 14:17:35 2005 +0000

Add missing space after -query hostname

commit 35cd1684622f4528c68e07eea798c33bc4b93667
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 14:16:37 2005 +0000

Change xf86bigfstr.h to X11/extensions/xf86bigfstr.h for includes.

commit c7c27e61870b42de044b183c854a960582d98dbf
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 13:33:54 2005 +0000

Change xf86bigfont.h to X11/extensions/xf86bigfont.h for includes.

commit abd246c6c272a2e6f9ec37404b2ed439911880e75
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 13:01:55 2005 +0000

Add glyphstr.h to includes.

commit 956dfa22f6076969776546fb1151e900d8d773a1
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 12:49:46 2005 +0000

Conditionalise usage of Xprint functions and headers.

commit 2cdfab0ed7eb33a6a50f9b7ec212b498dd8318b5
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 12:42:02 2005 +0000

Change keysymdef.h to X11/keysymdef.h for include statement.

commit fa5539247d3b246db9ff1469d08167178c85d7ad
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 12:39:28 2005 +0000

Change Xalloca.h to X11/Xalloca.h for include.

commit 292e4cff26687e6ef86c285b97813ab587daf009
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Apr 20 12:25:48 2005 +0000

Fix includes right throughout the Xserver tree:
change "foo.h" to <X11/foo.h> for core headers, e.g. X.h, Xpoll.h;
change "foo.h", "extensions/foo.h" and "X11/foo.h" to
 <X11/extensions/foo.h> for extension headers, e.g. Xv.h;
change "foo.[ch]" to <X11/Xtrans/foo.[ch]> for Xtrans files.

commit c062d7f96f47bddd31640be1fbec682d0774db3d9
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Tue Apr 19 18:21:01 2005 +0000

    Prevent recursive calls to winRaiseWindow.

commit 4e914c5ed7679a1102f3e25af0c087380f834865
Author: David Reveman <c99drn@cs.ume.se>
Date: Tue Apr 19 14:51:29 2005 +0000

    Hash texture objects and display lists in Xgl

commit 6bde764de102a56d2c71b971eaa36535e9760b52
Author: Bogdan Diaconescu <b_diaconescu@yahoo.com>
Date: Sun Apr 17 23:02:25 2005 +0000

    Added a log pring for the parameters

commit 8594b8f2893e58ae824e140334e18ba3d7467217
Author: Bogdan Diaconescu <b_diaconescu@yahoo.com>
Date: Sun Apr 17 23:00:58 2005 +0000

    Added new tuner FM1236MK3 PAL version

commit 7f74e3aebdf79fbca4141e6ffcdad39812df9335
Author: Bogdan Diaconescu <b_diaconescu@yahoo.com>
Date: Sun Apr 17 22:58:03 2005 +0000

    This is the UDA1380 sound coder-decoder module

commit 7a4e5f4006319e025e3ff561ecce3f1ad6c661a0
Author: Torrey Lyons <torrey@mrlca.com>
Date: Sat Apr 16 00:21:21 2005 +0000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36707
Fix cases in Darwin build where a variable is declared static and later as extern (XFree86 Bug #1576, Jordan Frank).

commit 4f686f158b00478a3d074128f9e4cb6dc0d928cd
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Fri Apr 15 23:34:39 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2885) attachment #2434
(https://bugs.freedesktop.org/attachment.cgi?id=2434) Fix Solaris build
bustage caused by namespace collision between symbols defined in
<sys/kbd.h> and those in "xf86_OSlib.h". Patch by Alan Coopersmith
<alan.coopersmith@sun.com>.

commit 7472fcfdd40e29cd2847e45d4bd2dd11ccc41ff5
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Apr 15 00:18:58 2005 +0000

Bug #2141: Rework misleading warning message when APM support is unavailable.

commit 504067819a4f1a8564dcacc278933f533618b666
Author: Adam Jackson <ajax@nwnk.net>
Date: Thu Apr 14 17:51:51 2005 +0000

Bug #3025: gcc4 build fix.

commit e40db7f26af39a8b1f3675a2c87ce90c4fd59d85
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Apr 13 14:27:47 2005 +0000

Add GLX code to Xgl

commit ddfa6f00da7c80b246b57c592361baa4bc5a8e9d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Apr 13 00:05:37 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=3001) attachment #2404
(https://bugs.freedesktop.org/attachment.cgi?id=2404) Improve rendering
performance when glXSwapBuffers() or [XPutImage()] are called for the
PostScript DDX via optimizing the codepath around
[PsOut_OutImageBytes()]. Patch by Simon Toedt <simon.toedt@gmail.com>
and Roland Mainz <roland.mainz@nrubsig.org>.

commit f45208a7e9c39345ac431c27da8777d6c466dcc
Author: Alan Hourihane <salanh@fairlite.demon.co.uk>
Date: Mon Apr 11 11:06:21 2005 +0000

update static file from pci.ids
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36709

commit b47f39b417cbe220690155a08c6bc18cd7cfa388
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Mon Apr 11 10:57:33 2005 +0000

import latest pci.ids file

commit 00a551393ce7aa9d2b23634737ced5071e3cdd35
Author: Egbert Eich <eich@suse.de>
Date: Mon Apr 11 10:54:13 2005 +0000

Reenable BackingStore in Xvfb.

commit 1fbd38f3b46df62561f8be74cbe05fcf8ad88a21
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Apr 11 10:16:25 2005 +0000

Added wizard page for clipboard selection and additional server parameters

commit 6848b0353897a6a5d1218b266c22fb87a7c6d730
Author: Egbert Eich <eich@suse.de>
Date: Mon Apr 11 10:05:38 2005 +0000

Correct the mask bits when checking for a 64bit memory base in PCI config space (bugzilla #2963).

commit adac7011965ed75ea399b93dae917cb48180c77a
Author: Egbert Eich <eich@suse.de>
Date: Mon Apr 11 09:33:43 2005 +0000

Preventing hight for drawing from becoming negative when face->dy < 0. The height value is used in miFillPolyHelper() to calculate the size of memory to be allocated. A negative value will lead to a crash (Bugzilla #2690, Keith Packard, Egbert Eich).

commit 5e2080ef93a598c6d68e1b2f446f251ab025b702
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Mon Apr 11 01:06:15 2005 +0000

xc/programs/Xserver/Xprint/attributes.c
xc/programs/glxgears/glxgears.c
xc/programs/xdbedizzy/xdbedizzy.c
xc/programs/xedit/Imakefile
xc/programs/xedit/Xedit-xprint.ad
xc/programs/xedit/util.c
xc/programs/xedit/xedit.h
xc/programs/xlogo/print.c
xc/programs/xlogo/xlogo.c
Fix passing of non-RGB visuals. The old code did not initialize the structure properly which lead to a crash in 8bpp mode.

First import of xlaunch frontend for Xming

Fixed sentinels in Xt, editres and xedit to reduce number of warnings with gcc4 (Andreas Schwab).

Fix typo leading to bogus code in xorgcfg (Andreas Schwab).
Date: Mon Apr 4 09:55:25 2005 +0000

Support for HP's IPF ZX1 systems (Alex Williamson).

commit 231c00e8fb9a91b580ec3e2703dd1ceacf13a6624
Author: Egbert Eich <eich@suse.de>
Date: Mon Apr 4 09:47:07 2005 +0000

When not using dlopen ia64 needs an extra cache flush to ensure the icache
is coherent when modules are loaded (Alex Williamson).

commit 55de930a180553c08d8546cc2078451c20c34934
Author: Torrey Lyons <torrey@mrcla.com>
Date: Sat Apr 2 02:29:24 2005 +0000

Fix XDarwin's handling of Wacom tablet mouse buttons (Based on patch
suggested by Daphne Pfister).

commit 03d126083e5ba57ea2304753289528a896f3baa
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Fri Apr 1 21:45:20 2005 +0000

xc/programs/Xserver/Xprint/Init.c
xc/programs/Xserver/Xprint/ps/Imakefile
xc/programs/Xserver/Xprint/ps/Ps.h
xc/programs/Xserver/Xprint/ps/PsArea.c
xc/programs/Xserver/Xprint/ps/PsColor.c
xc/programs/Xserver/Xprint/ps/PsImageUtil.c
xc/programs/Xserver/Xprint/ps/PsInit.c
//bugs.freedesktop.org/show_bug.cgi?id=2879) attachment #2287
(https://bugs.freedesktop.org/attachment.cgi?id=2287) Follow-up to
bugzilla #1299: Add new visuals in the Postscript DDX (including
TrueColor 16bit, PseudoColor 15bit/12bpg(12 bits per R-, G-, B-channel
as in PostScript Level 2 (and above) colors can have 12 bits per
component (36 bit for RGB)), PseudoColor+GrayScale+StaticGray
12bit/12bpg) and switch the default visual from PseudoColor 8bit/8bpg to
PseudoColor 12bit/12bpg.

commit fe37e677c8b3036e538930c16b9df39e7a7915b1685
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Fri Apr 1 21:28:50 2005 +0000

programs/Xserver/hw/xfree86/loader/xf86sym.c
programs/Xserver/hw/xfree86/os-support/shared/libc_wrapper.c Fix setjmp0
declaration for DllLoader.

commit ef60998a828951e61f1480e29c2f62e7454bbc
Author: Kevin E Martin <kem@kem.org>
Date: Fri Apr 1 20:21:38 2005 +0000

bugzilla #2880 (https://bugs.freedesktop.org/show_bug.cgi?id=2880)
attachment #2285 (https://bugs.freedesktop.org/attachment.cgi?id=2285)
Use system method to access PCI config space.

commit 33ab2a2abc8c1e4ca9c7139454c60f5ad8a61a94
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Apr 1 20:05:11 2005 +0000

Bug #2835: Add symbol exports to support the ReadDisplay extension.

commit cbccac448a1466ab098e8fe5dbff98264c7260a
Author: Alex Deucher <agd5f@yahoo.com>
Date: Thu Mar 31 23:18:10 2005 +0000

- Add new Radeon pci ids (ATI devrel), bug 2827

commit 59d7222b13775efb2159159cc897e7789bdf10b2
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Sun Mar 27 00:17:12 2005 +0000

Sat Mar 26 19:00:30 2005 Søren Sandmann <sandmann@redhat.com>
Remove accidentally committed prototype.

commit 476ae15640d2b97cb0ebccab8255ccf728596c62
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Sat Mar 26 23:50:24 2005 +0000

Sat Mar 26 18:49:21 2005 Soeren Sandmann <sandmann@redhat.com>
programs/Xserver/fb/fbmmx.h
New function.
Hook it up here

commit 0d33b588376a4d86d50ed8b7e06eaf0dbd8c5ba5
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Fri Mar 25 23:11:14 2005 +0000

xc/programs/Xserver/Xprint/ps/Imakefile
//bugs.freedesktop.org/show_bug.cgi?id=2821) attachment #xxx
(https://bugs.freedesktop.org/attachment.cgi?id=xxx) Remove the cfb
dependency from the PostScript DDX as this is not needed in a vector DDX
(mfb is still needed to fill the |BitmapToRegion()| callback with
|mfbPixmapToRegion()|).

commit 5f320335c3a8148ae98f82a00ff44954197f4251
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Wed Mar 23 21:09:48 2005 +0000
bugzilla #2194: fix an alignment problem on 64 bit architectures.

commit f4e9f522fe8bec3dd6294d062c2244a06623add3
Author: Thomas Hellstrom <unichrome@shipmail.org>
Date: Wed Mar 23 21:03:41 2005 +0000

Bugzilla #2750 (https://bugs.freedesktop.org/show_bug.cgi?id=2750)
Linux-only fixes: Fix case where a smaller write-combining region blocks write-combining setting of the whole frame buffer. Fix bug in wc setting code when regions are first splitted and setting of write-combining then fails.

commit 1be6e2388b5835ab62f0855d443fb508697deb
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Mar 23 20:49:52 2005 +0000

xc/programs/Xserver/hw/vfb/InitOutput.c
//bugs.freedesktop.org/show_bug.cgi?id=2791) attachment #2197
   (https://bugs.freedesktop.org/attachment.cgi?id=2197) Add support for 12bit PseudoColor and 30bit TrueColor to Xvfb.

commit 26aec10adad51deb35a8398abb884d970be077a6b
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Mar 23 19:58:45 2005 +0000

xc/programs/Xserver/Imakefile
xc/programs/Xserver/Xprint/DiPrint.h
xc/programs/Xserver/Xprint/Imakefile
xc/programs/Xserver/Xprint/Init.c
xc/programs/Xserver/Xprint/ddxInit.c
xc/programs/Xserver/dix/Imakefile
xc/programs/Xserver/dix/main.c
xc/programs/Xserver/dix/xpstub.c
xc/programs/Xserver/os/Imakefile
//bugs.freedesktop.org/show_bug.cgi?id=2792) attachment #2193
   (https://bugs.freedesktop.org/attachment.cgi?id=2193) Fix build bustage when [PrintOnlyServer] is set to |NO|. Patch by Roland Mainz <roland.mainz@nrubsig.org> and Julien Lafon <julien.lafon@gmail.com>.

commit ac18f8e308221af368fd4153b4eece7b89f8dd4bc
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Mar 23 00:32:49 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2789) attachment #2187
   (https://bugs.freedesktop.org/attachment.cgi?id=2187) Fix Xvfb to honor the "-dpi" option (instead of using a hardcoded value of 100DPI).
commit 45bcb8e22ad949c456368b77d4f4226110f8b5cfc
Author: Adam Jackson <ajax@nwk.net>
Date:   Tue Mar 22 21:30:43 2005 +0000

Bug #1821: Typo fix in xorg.conf man page (Jens Schweikhardt)

commit cc95e597b51f06e835c6a9def1bc6681029bf41e
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Tue Mar 22 17:49:14 2005 +0000

Tue Mar 22 12:47:16 2005 Søren Sandmann <sandmann@redhat.com>
Only validate the source if it is a viewable window. Stops the cursor
flickering when it is above an unviewable window.

commit 1d68ede0eed62b48354a954a62fca98aa2ce9d2d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Mar 19 20:51:34 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2771) attachment #2148
(https://bugs.freedesktop.org/attachment.cgi?id=2148) Remove RENDER
extension from exclusion list for the standalone print server (Xprt) to
get this extension enabled if the print DDX support it.

commit 64f1b3fe7e85245865666607d7b32ef7807df08f
Author: Michel Daenzer <michel@daenzer.net>
Date:   Fri Mar 18 22:36:47 2005 +0000

Add support for production version of ATI RN50/ES1000. (ATI Technologies
Inc.)

commit 36dcc9bb1d51fb8c0d67c7e15700e3473a06e47b
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Thu Mar 17 01:12:07 2005 +0000

Fix build on stock Mac OS X: Out of the box, Mac OS X does not include
Freetype2, Expat, or PNG. Also global variables should be initialized in
the Xserver.

commit 82f5a127522e48ff7ff78400eadbce0a5a362064
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Wed Mar 16 21:25:43 2005 +0000

Wed Mar 16 16:17:43 2005 Søren Sandmann <sandmann@redhat.com>
Only validate the source if it is a viewable window. Stops the cursor
flickering when it is above an unviewable window.

commit 226c0907d4327a440fb0ac5380a19538ffdc6fa0
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Mar 16 21:05:51 2005 +0000

Add cursor support to Xglx

commit 7109ae147c3a9d243d11f386efbcf7b4ea7918
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Mar 16 20:05:19 2005 +0000

Fix a few problems in Xgl

commit 04ccha4d40bef6cee902b118598272f26eebb1df
Author: Egbert Eich <eich@suse.de>
Date: Wed Mar 16 12:16:06 2005 +0000

Don't fail calling function when DriverFunc() for RandR fails as
DriverFunc() also returns FALSE when the specific sub function isn't
supported. In the case of xf86RandRGetInfo() we simply rely on what has
been set before and return TRUE. In the case of xf86RandRSetConfig() we
only bail with FALSE if we have to do a rotation and the call fails. We
presently cannot do rotation on the fly without the help of a driver
function (Bugzilla #2745).

commit 1011762254b41db5ce67cb652a2d4965efd7ec20
Author: Egbert Eich <eich@suse.de>
Date: Wed Mar 16 11:54:54 2005 +0000

Make message that gets printed when loader encounters a .o with no symbols
less conspicuous.

commit 816606b9eabee334ce6e0b79e8aa6754f428c19
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Mar 11 12:26:20 2005 +0000

Return early from xglFillRect when no rectangles should be filled

commit 4de5aa428514f2cacc60d4708dad996dedee1092
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Mar 11 00:58:49 2005 +0000

Use negative stride and PBOs in Xgl

commit 8653db5d57199d53c9b2b993c35a7b70c8949989
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Mar 10 20:05:46 2005 +0000

Force rebuilding of window stack if a window changes it's state from
minimized.
Adding more errnos to the libc wrapper (Bugzilla #2672).

Return early from xglCopy if fall-back is more efficient

Better ShmPutImage support in Xgl

Minor improvement to CopyArea in Xgl

Improve Xgl offscreen memory manager

Fix Xgl glyph caching

xc/programs/Xserver/dix/atom.c
xc/programs/Xserver/dix/colormap.c
xc/programs/Xserver/dix/cursor.c
xc/programs/Xserver/dix/devices.c
xc/programs/Xserver/dix/dispatch.c
xc/programs/Xserver/dix/dixfonts.c
xc/programs/Xserver/dix/dixutils.c
xc/programs/Xserver/dix/events.c
xc/programs/Xserver/dix/extension.c
xc/programs/Xserver/dix/gc.c
xc/programs/Xserver/dix/glyphcurs.c
xc/programs/Xserver/dix/grabs.c
xc/programs/Xserver/dix/main.c
xc/programs/Xserver/dix/pixmap.c
xc/programs/Xserver/dix/privates.c
xc/programs/Xserver/dix/property.c
xc/programs/Xserver/dix/swaprep.c
xc/programs/Xserver/dix/swapreq.c

//bugs.freedesktop.org/show_bug.cgi?id=2560) attachment #2037
(https://bugs.freedesktop.org/attachment.cgi?id=2037) ANSI-fy
Xserver/dix code. The conversion preserves the comments which annotate
variables. These have been moved into doxygen(esque?) "stubs" above
each function. Patch by Mike Owens <etc@filespanker.com>.

commit cb0aa2b4d887f1ea66e720ca7c6cc2f403be26a
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Mar 7 22:26:59 2005 +0000

Prevent winRaiseWindow from calling ConfigureWindow if the message was sent
from within winDestroyWindowsWindow
DestroyWindow send a WM_WINDOWPOSCHANGED to another window causing a
restacking of all windows, even of the window which is just about to
destroyed and whose structures may not be intact anymore.

commit 978f3b496b9951ee8120a0efc5cd12503e26770
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Mar 5 21:38:29 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2653) attachment #2020
(https://bugs.freedesktop.org/attachment.cgi?id=2020): Cleanup Xnest
usage of the DPMS dummy stub functions from dpmsstubs.c instead of
using it's own copy of these functions.

commit 602209990dbbc96b4c5a96e2221a418cf29e613d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Mar 5 20:47:12 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2543) attachment #2019
(https://bugs.freedesktop.org/attachment.cgi?id=2019): Fix
[xf86SignalHandler()] which resets the signal handler before setting
the flag indicating a signal has been caught, theoretically allowing
the possibility of infinite recursion. Patch by Andrew Church
<xzilla@achurch.org>.
commit d995fe631a5706de93a05fda498333442af3d207
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Mar 2 14:21:40 2005 +0000

xc/programs/Xserver/hw/xnest/Screen.c
xc/programs/Xserver/hw/xnest/Window.c
//bugs.freedesktop.org/show_bug.cgi?id=2546) attachment #2005
(https://bugs.freedesktop.org/attachment.cgi?id=2005): Fix Xnest to
update the shape regions in the backend server whenever a client
changes them in Xnest (the fix is to add a new wrapper which calls
[xnestShapeWindow()] before calling [miSetShape()]). Patch by Mark
McLoughlin <mark@skynet.ie>

commit 3f79c5eefc0d62d3a9b095472cd75b446ba2a56e
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Mar 2 11:20:30 2005 +0000

xc/config/cf/DragonFly.cf
xc/config/cf/Imake.cf
xc/config/cf/Imakefile
xc/config/imake/imake.c
xc/config/imake/imakemdep.h
xc/extras/drm/shared/drm.h
xc/include/Xos_r.h
xc/lib/xtrans/Xtranssock.c
xc/programs/Xserver/hw/xfree86/os-support/xf86_OSlib.h
xc/programs/Xserver/hw/xfree86/os-support/xf86_libc.h
xc/programs/Xserver/hw/xfree86/os-support/linux/lnx_agp.c
//bugs.freedesktop.org/show_bug.cgi?id=1712) attachment #2004
(https://bugs.freedesktop.org/attachment.cgi?id=2004): Add support for
DragonFly/BSD platform. Patch by Jeroen Ruigrok <asmodai@tendra.org>
and Mike Verona <firedragonfly@gmail.com>.

commit 6c6151b2339a05c60ec58e013f915f79a3f9d756
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Tue Mar 1 18:58:17 2005 +0000

If a context is already attached copy it instead of reattaching to keep
displaylists and share displaylists Enable tracing of often called
functions with GLWIN_ENABLE_TRACE ForceCurrent is a no-op now

commit d323c4f59a653f364164d2a57fbbd102306a6ee9
Author: David Reveman <c99drn@cs.umu.se>
Date: Tue Mar 1 16:57:54 2005 +0000

Minor improvement to pixel transfers in Xgl
commit 2d2c1732620a83215983ee7a7dd469a1a85fccc12
Author: David Reveman <c99drn@cs.umu.se>
Date:   Tue Mar 1 16:34:31 2005 +0000

Add dither support to Xgl

commit b4b27e9eaa43401ae70e5d03823012bf8c78848f
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Feb 28 20:45:15 2005 +0000

Force DPMS normal on screen enable
Add placeholder for bit used to redirect input
Add macrovision register defines

commit 409c0618bec66d02e3d7af77107ff74508c0f3f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Thu Feb 24 22:53:17 2005 +0000

on WM_WINDOWPOSCHANGED raise window directly and in sync without utilizing
the async windowmanager thread. Fixes some restacking problems occurring
which were timing dependent Do not raise the window on WM_ACTIVATE
Removed unused code for WM_WINDOWPOSCHANGING ESC is debug key. Print
status but do not abort processing the message

commit 775efbd79448040b822fccc0556e98d3968ba8c3
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Feb 23 19:17:10 2005 +0000

Bugzilla #2599 (https://bugs.freedesktop.org/show_bug.cgi?id=2599)
 attachment #1964 (https://bugs.freedesktop.org/attachment.cgi?id=1964):
mov miScreenInit in front of pScreen->function initializations to
prevent it from resetting ClipNotify.

commit c4b3fcda98a92c204534f04bd386ace5d3620d86
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Feb 21 03:44:10 2005 +0000

Move the draw tracing supplies into ati_draw.h, and do some touchups on it.
   (When tracing drawing, I want to know what I'm drawing to, at a
minimum).

commit de34b0ee9f8a29147659454398cabbb187c7cb6
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Feb 21 03:05:55 2005 +0000

Extend the filter support to R200, and do the check for filter settings in
Check rather than Prepare, to avoid migration of things we won't be
able to accelerate.
commit 535e178286f94cc593b6cda753bbefb97cf6df4c
Author: Michel Daenzer <michel@daenzer.net>
Date: Fri Feb 18 19:55:35 2005 +0000

Bug #2576: Add support for ATI RN50/ES1000. (ATI Technologies Inc.)

commit 2f07222106358a02f56bf1e344d1f7ead14cb6d
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Feb 18 17:52:48 2005 +0000

Bug #2455: Make x86emu handle JNL correctly. (David Wong)

commit 01b156240ce66703b38a67ee3cfbb475352cdef68
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sat Feb 12 14:55:24 2005 +0000

winmultiwindowwindow.c
winmultiwindowwndproc.c
Cleanup some message debugging

commit 8df7126f09d6d7cb35a5912a71531cad28ba2545
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sat Feb 12 14:47:17 2005 +0000

win.h
winfont.c
winmultiwindowshape.c
winmultiwindowwindow.c
winpfbdd.c
winshadd.c
winshaddnl.c
winshadgdi.c
Fix incorrect wrapping of functions. Ensure the pointers from pScreen point
to the called function even if wrapped functions changed it
Set the window properties to NULL to avoid referencing freed memory because
of timing problems after deleting a window
Do not wrap ChangeWindowAttributes. All functions are noops currently

commit 676fdb03f3f2b7ac24834aeb895df7d6d6e83f78
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sat Feb 12 14:43:07 2005 +0000

print window handle in message outout

commit 046dbdb17169ecb1361a42ab52043da699590d39a
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Feb 11 20:19:20 2005 +0000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36720
Fixes a few problems in Xgl

commit 35bd81dfe62402f9d6c68d98e651e8cd87a8758
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Fri Feb 11 19:38:04 2005 +0000

Fri Feb 11 14:28:22 2005 Søren Sandmann <sandmann@redhat.com>
When COMPOSITE is enabled, call CopyWindow even when the pixels "don't
move" on screen.
Don't reject modes that are not supported by the unused monitor.

commit e5cccfbd45c78c1be5e311b2cb4135a9a27540b
Author: Adam Jackson <ajax@nwnk.net>
Date: Fri Feb 11 06:37:38 2005 +0000

Bug #826: Make xorgconfig respect font installation outside $PROJECTROOT.
(Donnie Berkholz)

commit c7369daba58bb4fad5cef37efbd851e59446045
Author: Egbert Eich <eich@suse.de>
Date: Wed Feb 9 11:12:54 2005 +0000

Added PCI2Host bus translations for linux PPC and fixed fixed bugs in
macros that apply these functions (Bill Randle Bugzilla #325 and #327).

commit aab9a8dd99e52297ed9b40c936600429f38fe9ad
Author: Keith Packard <keithp@keithp.com>
Date: Wed Feb 9 03:56:35 2005 +0000

Add initial evdev framework

commit a85c33b52e40fbae544c7dd40df8c8968e0cf7e9
Author: Keith Packard <keithp@keithp.com>
Date: Tue Feb 8 22:45:21 2005 +0000

update Xgl to changes in damage API. Remove some flags to support software
mesa

commit db2c83551cd3516800b88784c461fb33ee15aacf
Author: Keith Packard <keithp@keithp.com>
Date: Tue Feb 8 22:43:54 2005 +0000

hw/kdrive/ati/radeon_composite.c Support linear filtering
Change how touch screens work -- make them just another 'mouse' device. Add
unfinished (and unused) code to accelerate tiled fills.

commit 70d3a9192feefd54be93ea71231574c3ed815bf2
Updated fix for ABNT2 and HK_Toggle keys.

commit 384099457e9d938871019ba2e5afe20280328884
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Feb 8 15:20:01 2005 +0000

Backout ABNT2 and HK_Toggle fix since it broke keys F1 and F4.

commit ea5b09f95d6f25d8b0f8858c36b680055edd0da9
Author: Egbert Eich <eich@suse.de>
Date:   Tue Feb 8 10:15:49 2005 +0000

Save gs register before calling the vm86_old syscall thru int 0x80. This is
required for linuxthreads as the TLS uses this register to keep track
of local thread storage (Bugzilla #2431, J. Scott Berg).

commit 4d55065b35bba7e13f6e726cb9d6675562648000
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Feb 7 18:16:05 2005 +0000

Moved keyboard layout table to external file.

commit e132cb7590b5518ef1b7fcee5f9151beed916fafe
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Feb 7 15:08:39 2005 +0000

file winlayouts.h was initially added on branch CYGWIN.

commit c12ef1b34a55544f54401a5a66a36cd728e2f944
Author: Egbert Eich <eich@suse.de>
Date:   Mon Feb 7 11:56:31 2005 +0000

Check the pixel clock chosen for a specific refresh rate against the
maximally allowed pixel clock when choosing mode lines for
VBESetVBEMode() and VESA BIOS version >= 3.0 (Bugzilla #2486).

commit 859be7a7a52b7778df8ace676683351a6562a6d4400
Author: Felix Kuehling <fxkuehl@gmx.de>
Date:   Fri Feb 4 01:14:49 2005 +0000

Applied patch (id=1354) by Mike A. Harris from bug #1901: The attached
patch updates a couple of PCI IDs for the Savage driver --
Debian/Ubuntu/Red Hat/Fedora.

commit 5feca068d740b165d3c36a690f5a68b7588b6625
Bugzilla #1865 (https://bugs.freedesktop.org/show_bug.cgi?id=1865)
  attachment #1827 (https://bugs.freedesktop.org/attachment.cgi?id=1827):
    check for va_copy not being defined and use __va_copy if available

commit 3dda2fe0e2e7e4d2c058d32fa8691d12386b978d
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Feb 2 18:06:14 2005 +0000

  Force ShowWindow if XWin was started via run.exe. Fixes mainwindow not showing bug

commit e8d3da3c753677cc1ae86bc5a79f2b7eba181d74
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Feb 2 17:17:56 2005 +0000

Bugzilla #1866 (https://bugs.freedesktop.org/show_bug.cgi?id=1866)
  attachment #1819 (https://bugs.freedesktop.org/attachment.cgi?id=1819):
    Define APIENTRY on windows to prevent <GL/gl.h> from loading
    <windows.h> removed leftovers from attachment #1818

commit 81b862509c87281705f8a8641c28ae2f45f15751
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Feb 2 15:03:44 2005 +0000

Bugzilla #1866 (https://bugs.freedesktop.org/show_bug.cgi?id=1866)
  attachment #1818 (https://bugs.freedesktop.org/attachment.cgi?id=1818):
    Include Xwindows.h before GL/gl.h on windows to prevent loading windows.h which pollutes our namespace with some symbols.

commit b532bfb483cc8ea87c28302e3d676234cab7c3f0
Author: Adam Jackson <ajax@nwk.net>
Date: Wed Feb 2 04:07:04 2005 +0000

  Bug #1294: Make sure RenderAccel hooks get wrapped in XAA init.

commit 4e2d9167943182feaf530df7ec16aa53db20f4c
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Feb 2 00:55:21 2005 +0000

  xc/programs/Xserver/hw/xfree86/os-support/bus/xf86Sbus.h
  xc/programs/Xserver/hw/xfree86/os-support/linux/lnx_io.c
  //bugs.freedesktop.org/show_bug.cgi?id=825) attachment #956
  <eradicator@gentoo.org>. Approved in the 2005-01-31 Xorg
release-wranglers phone call.

commit 15c555a25df76e0e95bc8eaa2ca7ec80a7695a6c
Author: David Reveman <c99drn@cs.umu.se>
Date:   Tue Feb 1 21:22:02 2005 +0000

Use negative stride for trapezoid masks in Xgl

commit 2f0bd77dd37d1763c4f4f409d55a6aad60311b9f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Feb 1 18:14:01 2005 +0000

xc/programs/Xserver/xkb/ddxLoad.c
Bugzilla #2245 (https://bugs.freedesktop.org/show_bug.cgi?id=2245)
attachment #1649 (https://bugs.freedesktop.org/attachment.cgi?id=1649):
cleanup the generation of xkbcomp command lines. Allocate them
dynamically and remove unmaintainable length calculation.

commit d3ca132061a861cb9292b5a95dbcb2f67695883b
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jan 31 10:49:30 2005 +0000

winmultiwindowwindow.c
Create windows with SWP_NOACTIVATE flag (updated) (Kensuke Matsuzaki)
Fixes for window ordering problem (updated) (Kensuke Matsuzaki)

commit 374b9aa8ce14cd20a6768519ee63948c83488d6
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jan 31 10:47:32 2005 +0000

Added hungarian keyboard layout.

commit 8d277ce22929fcb44f2d4def8c5b70535eb087f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jan 31 10:43:37 2005 +0000

winmessages.h
winmsg.h
winmsg.c
winmultiwindowwndproc.c
winwin32rootlesswndproc.c
Make logging of messages configurable with environment variables

commit 2982d173cad762b801869b7ceacc237afdad88d6
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jan 31 10:32:19 2005 +0000

resolve SHGetFolderPath dynamically since it is not available on all Windows
commit 8ac3be3f6c4bca8c3f6080cbfe72db4967ff8
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Jan 30 21:18:46 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=1692> Remove reference to nonexistent Monitors file from xorgconfig (Report & patch from Dejan Lesjak <dejan.lesjak@ijs.si>)

commit 206072c475408b8d4ef75d897854d8478fe0905
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sun Jan 30 20:12:07 2005 +0000

programs/Xserver/hw/xfree86/os-support/bsd/bsd_kbd.c Fix option dontVTSwitch under *BSD, when XKB is disabled. Bugzilla #2252.

commit 327922f006dce230ec0391d7fa786560fcd1599
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Jan 29 01:01:03 2005 +0000

Update to latest rev from http://pciids.sf.net/
Remove entries that now duplicate pci.ids Add entries for new Nvidia boards added in recent nv driver update

commit d23c46dd3e2cbf84012055bad43b1bb15809a244
Author: Egbert Eich <eich@suse.de>
Date: Fri Jan 28 16:13:00 2005 +0000

Modifying X.Org Xserver DDX to allow to run X with ordinary user permissions when no access to HW registers is required. For API changes which mostly involve the modifications to make the RRFunc (introduced with 6.8) more flexible please check Bugzilla #2407. NOTE: This patch applies changes to OS specific files for other OSes which I cannot test.

commit 1562ec5cc3706acfac1db04366f78e4949ef5502
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Jan 27 20:33:34 2005 +0000

Functions like glGenTextures and glBindTexture are in OpenGL 1.1 and can be resolved at linktime. Fixes tuxkart (at least with wine)

commit 5ca5fe71119f35f1f24ae9e2608684024d450a
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 27 05:25:57 2005 +0000

Add an OUT_RING_REG macro for use with DMA_PACKET0, which is like OUT_RING
but includes debugging to ensure that the reg being submitted is the one that follows in the packet. Convert most uses of OUT_RING to it, and convert a couple of OUT_REG sets to DMA_PACKET0/OUT_RING_REG. Also, add checking to see if more registers are submitted to a DMA_PACKET0 than should be, to avoid hangs during stupid mistakes (checking for less isn't done).

commit 0bd459488b88f580f07d03d801b6d5e79ea6d2b5a5
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 27 03:52:49 2005 +0000

Move the bailing out due to ATIUploadToScreen() being unfinished up farther, so that the traces aren't as confusing.

commit a973af4a9ade68b271d0695898d72ea50d8953b
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 27 03:50:48 2005 +0000

Remove an unused field.

commit 59c7005bb155393c44792d457d98d72e34bb1b51
Author: Egbert Eich <eich@suse.de>
Date: Wed Jan 26 15:50:17 2005 +0000

When we tested if a PCI base address was unassigned we didn't take into account that this bar could have been the upper part of a 64bit base address. This fix makes this code 64bit bar aware (Bugzilla #2382).

commit 7c3dd0a5a76bea2c64972ae199d99775b5a992513
Author: Egbert Eich <eich@suse.de>
Date: Wed Jan 26 15:45:49 2005 +0000

Rewrite of RemoveOverlaps() to make the code more readable. It was virtually impossible to determine if the old code did what it was supposed to do. Also changed paradigm: Trust the based address more than the (guessed) size. (Bugzilla #2383)

commit 9817582328cdafef59de61603d72e3461a4b3
Author: David Reveman <c99drn@cs.umu.se>
Date: Wed Jan 26 10:58:52 2005 +0000

Xgl improvements

commit 13b5a93b70839053b9165b5087872164f0612536
Author: Egbert Eich <eich@suse.de>
Date: Tue Jan 25 10:08:18 2005 +0000

Fix interpretation of 64bit PCI bases: read hi long word from the right bar
Fix R100 text by forcing the 3d engine to idle before executing more 3d commands. Add docs for the ISYNC_CNTL register, which doesn't quite do what we want.

Finish converting RB2D_DSTCACHE to RB3D_DSTCACHE. Remove an extra pixel cache flush in the idle function. Init an extra reg for r200, and annotate the TCL_BYPASS better. Also, clean up some style nits from the last commit.

Add tracing. Hack Radeon cache registers to use 3D addresses. Works on M6

Fix a leak of a region when the driver's CheckComposite fails.

Silence a warning about uninitialized variable (though it would be).

Bug #2004: Make DDC delay slightly longer. (Thomas J. Moore)

Alan Cox requested that we check the kernel version before we use kernel
VGA font save/restore as the required features have been added to Linux 2.6.11 (Bugzilla #2277).

commit d7263b11f043c8c0f83d6e05095143c70177926b
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 20 20:51:27 2005 +0000

Reinitialize offscreen memory before enabling cursor on VT switch-to

commit 13c6b2f0b6c464ce11f6c332b2fa1a529bdab01
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 20 16:22:04 2005 +0000

Add a set of macros for dealing with the repeated code to wait for a while reading a register/attempting DMA. Now it'll wait for a certain number of seconds rather than a certain number of times through the loop before deciding that it's timed out and resetting the hardware. Also, add more timeout handling, and reset the draw state after resetting the engine.

commit dbe45c71590ac319250d04a2bf37ec07cd79e42a
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 20 07:28:02 2005 +0000

Use RadeonSwitchTo3D() instead of doing the WAIT_UNTIL ourselves (RST3D() also does DC_FLUSH, which may be important).

commit fc43c154943fb1d277a9effa9a4db7e6db461bc
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 20 07:09:00 2005 +0000

Add R200 XV support, and make R100 (hopefully) use linear filtering instead of nearest. Also, use RadeonSwitchTo3D instead of doing the WAIT_UNTIL ourselves.

commit 77755065345eb71c997c1ff74dcfd2b2b9f1305
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 20 01:09:48 2005 +0000

Make R200 PDMA work -- primary queue sizes are now 9 bits, not 8.

commit 9bd876768b2165ec3903ad0848ae2ae950330290
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Wed Jan 19 22:23:20 2005 +0000

Fix debugging ErrorF() so it compiles when DEBUG is true.

commit ff433adba3a643512fdd44e41cd08965fab9e9cb
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jan 19 06:35:28 2005 +0000

    Prefer 32bpp to 24bpp. Fix 16 color planar mode (!)

commit cbcdae5a3f7c4009121f86de52bbaf6c657f20fff
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Jan 17 17:17:45 2005 +0000

    more static server build fixes

commit 79a7120983eff6a114d4250fe01b62d4a99a612
Author: Adam Jackson <ajax@nwnk.net>
Date:   Sun Jan 16 01:59:23 2005 +0000

    Bug #1895: Fix fbComposeGetSolid for BGR. (David S. Miller)

commit 24cdd188de3c10b56d6a7b46dabefb16c6d13efc
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Fri Jan 14 22:07:59 2005 +0000

    Fri Jan 14 17:03:40 2005 Søren Sandmann <sandmann@redhat.com>
    Fix from Keith Packard for bitgravity bugs in the Composite extension,
    reported by Amir Bukhari.

commit 7db2e666e2dc9a1db468e35e9d382e76ed8be54
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Fri Jan 14 21:56:51 2005 +0000

    Fri Jan 14 11:12:46 2005 Søren Sandmann <sandmann@redhat.com>
    Use mmx CopyArea in a few more places.

commit 76f937fdee9cc10ad54e106e12f102547a6
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jan 14 19:29:18 2005 +0000

    - Don't suspend Xserver on APM standby request as this seems to cause
      problems on may systems which don't support APM standby and might not
      be required as according to the APM specs the chips should receive
      enough power to retain its state.
    - Print out power state change requests to log file in all verbosity
      levels.
    - Don't change server state if no driver PM function is registered.
      (Bugzilla #2279)

commit 16f9d2d72a2378470e9c5b31c59fa6c9a00892d6
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jan 14 18:42:26 2005 +0000
Let the OS instead of X save/restore text console fonts on Linux. So far we relied on the generic VGA layer to restore text console fonts for us when shutting down the server or VT switching back to the text console. This has worked rather well but it has some downsides on Linux: 

a. Many people use fbdev as console text mode. In this case it is not necessary to save/restore console fonts as the console is running in graphics mode anyway. 
b. Some architectures don't have a fbdev console but require a full POST of even the primary card (ie. IA64). This posting has to take place before we even have a chance to save anything. Therefore the fonts we save are the once written to the chip by POST, not what has been programmed by the user. 
c. Certain chipsets utilize the BIOS to perform mode setting. This may interfere with the vga save/restore font function in a strange way. It would therefore be preferrable to let the OS - which has been used to set up the font in the first place - take care of saving/restoring the data. I will attach a patch which will do so for Linux. To make this fully functional a small patch needs to be applied to the Linux kernel. To disable this feature add: #define DoOSFontRestore NO to your host.def. (Bugzilla #2277)
commit 61b3c3ae5437f14d413a60da792257b01e9f8fa
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Jan 13 23:07:41 2005 +0000

Thu Jan 13 17:45:13 2005 Søren Sandmann <sandmann@redhat.com>
Make sure the pixmap is a valid new resource
Make sure the context is a legal new resource.
Handle null attrib_list.
Handle null attrib_list; copy attrib_list to data; actually allocate the
new GLXDrawable.

commit 433c38f22fa96486a43dc0e9871cc09875251b34
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Thu Jan 13 20:49:21 2005 +0000

Thu Jan 13 15:40:29 2005 Søren Sandmann <sandmann@redhat.com>
Add MMX implementation of non-repeating source IN repeating mask, aka
"translucent window".
Add MMX implementation of CopyArea.
Use MMX implementation of CopyArea.
Use the new implementations.

commit a303670107f205c6ca76919ca6cd6af6013073f1
Bug #2114: PPC64 Linux build fix: use system definition of eieio().
    Originally Gentoo bug #66223. (Tim Yamin, Donnie Berkholz)

commit 15895b411779a3c14ff92fb58cd8ec24845ea7
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Jan 12 16:10:00 2005 +0000

    winmsg.c
    Introduce function winTrace which prints log message with verbosity 10
    Use winTrace for 3 heavily called functions

commit 8aabc94596dae0fd4ce2c975de75946685fa2cd
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jan 11 17:33:03 2005 +0000

    Document the -silent-dup-error switch

commit b6301dc41090899b20003eab1356bc09fc5eed1a
Author: Egbert Eich <eich@suse.de>
Date:   Tue Jan 11 14:59:02 2005 +0000

    Minor format fix.
    Added explanitory comment and debug code.
    Added comment.

commit 27fc6874b34d70a7ddae5ed8f516f6caab518b8
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jan 11 12:03:34 2005 +0000

    Do not grab ALT-TAB when window is in multiwindow mode

commit d365664c58919eddb5e121a7c884384435f7f9776
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jan 11 11:58:12 2005 +0000

    Fix crash with not matching definitions of PATH_MAX

commit 65b893a707ad8b3e4d0971825c05a965dca36d10
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Mon Jan 10 23:38:50 2005 +0000

    //bugs.freedesktop.org/show_bug.cgi?id=2167) attachment #1641
    (https://bugs.freedesktop.org/attachment.cgi?id=1641): Fix broken
    Solaris print queue enumeration.
commit c6b5a9431178ac7eb90ec498e6830366865d1268
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Mon Jan 10 18:47:55 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2254) attachment #1659
(https://bugs.freedesktop.org/attachment.cgi?id=1659): Refix for gcc4.0 build failure. It seems that the |ExecCommand()| function has no consumer and can safely be removed.

commit eb701e9b4481f984fdefecee181126f7424e2bf45
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Jan 10 17:54:31 2005 +0000

winkeybd.h
Adjust keysyms for Hiragana_Katakana toggle and backslash/underscore on Japanese and ABNT2 keyboards

commit 2ef9d01c4d3b03f0a5d829304f2a7e2cc1327f3b
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Mon Jan 10 14:16:29 2005 +0000

xc/programs/Xserver/Xprint/Util.c
xc/programs/Xserver/Xprint/attributes.h
//bugs.freedesktop.org/show_bug.cgi?id=2254) attachment #1654
(https://bugs.freedesktop.org/attachment.cgi?id=1654): Fix gcc4.0 build failure. Patch by Egbert Eich <eich@freedesktop.org> and Roland Mainz <roland.mainz@nrubsig.org>

commit 57387e115caf5a4b9501cc8f6ddeb1946b0e6547
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Jan 10 13:13:08 2005 +0000

winkeybd.h
winkeyhook.c
Make keyhook feature work in multiwindowmode too Hook windows keys

commit f417159e51afe22de7d4e6ba9f154313c6af59bc
Author: Egbert Eich <eich@suse.de>
Date: Mon Jan 10 12:20:33 2005 +0000

Make option 'DontVTSwitch' work again with kbd driver under Linux. The kbd driver now calls the OS layer to handle special keys. Possibly other special keys and other OSes need to be looked at also. (Helmut Fahrion).

commit fe4e74241f6791cb1cefddeb492edf56ce99b4
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sun Jan 9 17:35:47 2005 +0000
xc/programs/Xserver/xkb/ddxList.c
//bugs.freedesktop.org/show_bug.cgi?id=2245) attachment #1647
(https://bugs.freedesktop.org/attachment.cgi?id=1647): export
Win32System and Win32TempDir remove #ifdef WIN32 block for building
xkbcomp commandline create win32 tempfile in system tempdir use
PATH_MAX*4 for commandline buffer unlink tmpfile again

commit ba25f7e8dcaa2690ce3eab839904fac034002e0b
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Sun Jan 9 15:29:45 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2245) attachment #1645
(https://bugs.freedesktop.org/attachment.cgi?id=1645): cleanup some
#ifdef __UNIXOS2__ and WIN32 blocks. make OutputDirectory check the
size of the buffer quote all file and pathnames in the xkbcomp
commandline use PATH_MAX*4 for commandline buffer

commit 2410b61f430c3ac4be79043f8b00defe6d53148c
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sun Jan 9 00:38:08 2005 +0000

//bugs.freedesktop.org/show_bug.cgi?id=2240) attachment #1642
(https://bugs.freedesktop.org/attachment.cgi?id=1642): Fix incorrect
usage of /usr/bin/tr in startup script (the used "\[\n\]" is neither
correct or portable, using "\n" seems to be sufficient (this fixes
various "random" issues, including including Debian bug #258419 and
Debian bug #264983). Patch by Drew Parsons <dparsons@debian.org>.

commit 709a2343a8c12ea7e158c63a9737b11744b50994
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Sat Jan 8 13:01:03 2005 +0000

    Fix a possible null-pointer dereference (Keishi Suenaga)

commit d332a909f8b8741af75047d78a62a3d19e0776e1
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Thu Jan 6 21:29:09 2005 +0000

    Imakefile
    InitOutput.c
    XWin.rc
    winerror.c
    wintrayicon.c
    winvideo.c
    winshadd.c

    Set PROJECT_NAME in Imakefile to create alternative window titles for
    Cygwin/X and Xming

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36734
commit d6a74f2c4ae9c914ec0837bd0bf0d212019093f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Jan 6 16:02:47 2005 +0000

Imakefile
InitOutput.c
XWin.rc
winerror.c
winrayicon.c
winvideo.c
Set PROJECT_NAME in Imakefile to create alternative window titles for Cygwin/X and Xming

commit 3165236483de936b4ca22f8b6d2d2b8b1a1a4909
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Thu Jan 6 13:24:57 2005 +0000

Fix crash with non-nullterminated strings (reported by yvind Harboe)

commit 591ac9ae8e1e0871d3bdcc19ceda0ff6715bf67c
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Tue Jan 4 00:16:20 2005 +0000

Bugzilla #2211 (https://bugs.freedesktop.org/show_bug.cgi?id=2211)
attachment #1627 (https://bugs.freedesktop.org/attachment.cgi?id=1627):
xorgconfig default keyboard model outdated (should be pc105, not pc101/pc102)

commit af8bd7161724b6709ffe582d0f630c05d9b4f426
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Mon Jan 3 21:32:22 2005 +0000

Mon Jan 3 12:45:10 2005 Søren Sandmann <sandmann@redhat.com>
Clean-ups and support for AMD64. Bug 1067. Patch by Nicholas Miell
(nmiell@comcast.net)
Add support for AMD64
Many cleanups using <mmintrin.h> instead of __builin_ia32_* , and intrinsics instead of inline assembly. Also unconditionally use pshufw on AMD64.
s/USE_GCC34_MMX/USE_MMX/g

commit 5f39eff85109a73d006832ad35d9d5b58f93ef0c
Author: Egbert Eich <eich@suse.de>
Date: Mon Jan 3 15:43:55 2005 +0000

Added missing return value (Bugzilla #2205) Problem found by Stefan Kulow.

commit ae6d52092bec6068a7847b3944148336ab489869
Author: Egbert Eich <eich@suse.de>
Date:   Mon Jan 3 15:39:35 2005 +0000

Added missing return value (Bugzilla #2206) Problem found by Stefan Kulow.

commit 83e13e21c8d9a3b54cae2e2cc2943be3316659870
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Dec 24 14:40:28 2004 +0000

Print error message if CreateProcess fails Simplify popen simulation code
for WIN32 Remove temporary file after executing xkbcomp

commit 106703edf67139fa52f6810f9ced0ce5ba86a3cd
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Dec 22 18:39:41 2004 +0000

Back out the previous day's broken R200 "fix" -- the same number of coords
are always emitted. Fix the real problem, which was not enough regs
being initialized in ati_draw.c. Fix a typo that was resulting in alpha
coming out as 0 * src or 0 * broken instead of src * 1 or src * mask.
Assign the blending results to R0, as appears to be necessary. Unbreak
the dst-alpha-blend-with-no-dst-alpha code. Yow. And set the right DMA
count for the r200 traps code.

commit 3035739e5b7d5a9042292d64455feb4b38788fe4
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Dec 22 08:28:16 2004 +0000

Bug #2123 <https://bugs.freedesktop.org/show_bug.cgi?id=2123> Attachment
#1587 <https://bugs.freedesktop.org/attachment.cgi?id=1587> Call to
uname should not check for return == 0, but for >= 0 instead

commit fa0677ab43722462042f87e4636a7d59d1eb873f
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Dec 21 09:51:47 2004 +0000

Fix r200 render (for real this time?) by setting tex1_comp_cnt right for
non-mask rendering. Reenable it. Also, R200TexFormats was used instead
of R100 in one place. Harmless so far, because the formats were in the
same order.

commit 4b0247b9e0a6b7f40cd2738f8b29d2ed1acba99e7
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Dec 21 09:49:30 2004 +0000

Whitespace nit.

commit 894431412613265fd315cf7a707ffa74193cf47
Use snprintf.

commit eea11301fd9247a28b1daeb340a018c7ea309c41
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date:   Wed Dec 15 15:05:35 2004 +0000

   Another fix for MiscPassMessage(): Initialize returned "status".

commit 264c33e6e0cdee1ff0a5de914f051ab23026b7
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Dec 15 12:22:39 2004 +0000

   latest changes from CYGWIN

commit c7fec26b50f8a64360d1252cdf48370935fb2f76
Author: Thomas Winischhofer <thomas@winischhofer.net>
Date:   Wed Dec 15 00:32:56 2004 +0000

   Make MISC extention's PassMessage() actually work and fix memory leaks

commit d0b17bda4de469e2ce72f4f8965916b316e1deb7
Author: Egbert Eich <eich@suse.de>
Date:   Tue Dec 14 08:59:20 2004 +0000

   Removed #ifdef'ed out code together with the comment explaining why it was
   #ifdef'ed out.
   Fixed typo.
   Added comment to a changed that's been committed with one of the previous
   commits.

commit 0e6a122316a94e96051f1d832990032a386097bc
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Mon Dec 13 03:42:32 2004 +0000

   //bugs.freedesktop.org/show_bug.cgi?id=1695) attachment #1230
   (https://bugs.freedesktop.org/attachment.cgi?id=1230): Fix crash in
   Xscreensaver code which allowed any authenticated X client to crash
   the Xserver using [XScreenSaverUnsetAttributes()]. Patch by
   ajax@nwnk.net

commit 159e443a2209eb3ea305e84b847b76ef1637d005
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Mon Dec 13 02:13:32 2004 +0000

   //bugs.freedesktop.org/show_bug.cgi?id=1688) attachment #1530
Fix the current implementation to make it possible to slow down the mouse pointer or use arbitrary fractions (without running into rounding error issues). The change is using the same method of preserving rounding errors that the exponential method is already using. Patch by Jan Brunner <Jan_B@gmx.ch>.

commit f1768677f73150c686cf5678f5f5d63c0cfa8e56
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Dec 12 23:29:20 2004 +0000

Reduce vmode logging.

commit 9286a5d032ea6bed102db39281c3d2537da4dccc
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Dec 12 22:58:37 2004 +0000

Add fix for 460gx pci scan code.

commit 8266a2581d21a1a2880a0e8bab8b0305c435ec0
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Thu Dec 9 22:40:35 2004 +0000

Fix crash with more than one screen reported by John Davidorff Pell.

commit 081b33d7373572cfefb7e5489408a7117b6e9f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Dec 8 15:48:15 2004 +0000

import changes from CYGWIN branch

commit 6c317c1c1323bd11292f8f9f179d75c96a18e616
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Wed Dec 8 05:52:20 2004 +0000

//bugs.freedesktop.org/show_bug.cgi?id=1361) attachment #1287
(https://bugs.freedesktop.org/attachment.cgi?id=1287): Avoid DRI intialisation when the Xfree86-DRI extension was turned off. Patch by Kristian Hgsberg <krh@bitplanet.net>.

commit b9476cd96faf19153c11e3370e9fced8045600f4
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Wed Dec 8 05:48:16 2004 +0000

//bugs.freedesktop.org/show_bug.cgi?id=1361) attachment #938
(https://bugs.freedesktop.org/attachment.cgi?id=938): Allow more extensions to be enabled/disabled.
commit 47935ddf7f010f2f77768774ceb6f85667efe4264
Author: Matthew Allum <breakfast@10.am>
Date: Mon Dec 6 22:29:31 2004 +0000

Xephyr on Xorg fix

commit 8091b301c941473ab99626a6e66f72acdb6750f7
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Mon Dec 6 21:54:19 2004 +0000

xf86Config.c references USE_DEPRECATED_KEYBOARD_DRIVER so define it if needed when building this file
- bug fix: pointerMsg -> keyboardMsg in auto-configuration code.
- make the 'kbd' driver the default for autoconfiguration everywhere.

commit cde3a175005104e061c1ff133f07ce598868bdc4e
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Dec 6 18:28:12 2004 +0000

include windows.h

commit 9c94971617db11861aed82e16804fc14a9ca1260
Author: Egbert Eich <eich@suse.de>
Date: Mon Dec 6 15:53:00 2004 +0000

Use the same method of finding the screen pixmap of COMPOSITE extension is compiled in or not.
Removed stale make variable.
Updated xaaWrapper.c: Under certain circumstances the accel path was not used when possible. Removed some debugging stuff and stale code that had been commented out.
Check if maps are really installed before attempting to list them.

commit 4945034792b28d1a222a615404bfceaf48a130c5
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Dec 6 12:26:50 2004 +0000

problem with max() macro. this one slipped though again

commit 531776becf95f66e6e435aad0dc21ead436ff5aa
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sun Dec 5 21:33:23 2004 +0000

missed another wBOOL issue

commit 9bd1328c49aaeae67a6a6d9fd17063c75d8547a2
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sun Dec 5 21:24:48 2004 +0000
redone ddraw.h to be able to mix it with w32api style COM header files.
obj_base.h is not needed anymore. Using <objbase.h> instead.
Use Xwindows.h instead of windows.h
do not include win_ms.h
remove extra definition of sleep()
Set HOME to Documents and Settings/username if not set
Use Xming basedir instead of ProjectRoot for system.XWinrc
Fix callback functions to use wBOOL instead of BOOL.
Fix compiler warnings. Added debug output.
Fix warning about undefined macro max

commit bf0a760331e2fe4dbc00e78f87022c7464d9ca4f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sun Dec 5 04:39:34 2004 +0000

//freedesktop.org/bugzilla/show_bug.cgi?id=1800): Fix Postscript DDX's 1bit
  StaticGray visual to report only 1 bit of significant bits in color
  specification (instead of 8bits). Patch by Julien Lafon
  <julien.lafon@gmail.com>

commit 44f4713a056b7a6a076b2f65fbed43e0cfe9ff06
Author: Markus Kuhn <Markus.Kuhn@cl.cam.ac.uk>
Date:   Sat Dec 4 00:43:13 2004 +0000

  Encoding of numerous files changed to UTF-8

commit f264a7ea741f57fbc3bb900cfbb9e0ce23f46e90
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Dec 3 12:04:15 2004 +0000

  Removed scprintf, aprintf and snprintf stuff and use newXprintf

commit 16a683f4d164899ecfdaf8853f484f10fd13fd4
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Dec 3 11:57:42 2004 +0000

  Bugzilla #1865, https://bugs.freedesktop.org/show_bug.cgi?id=1865 Added
  X(NF)printf and X(NF)vprintf functions which allocate the buffer with
  X(NF)alloc
  Bugzilla #1865, https://bugs.freedesktop.org/show_bug.cgi?id=1865 extend
  snprintf to work on NULL.

commit fe2a2213d1db8700f6078379f86ebe8827793c20
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Thu Dec 2 23:47:39 2004 +0000

  //freedesktop.org/bugzilla/show_bug.cgi?id=1998): Fix Xserver standalone
build when RENDER extension includes are not available.

commit 30a4202f3d59a32fd6f93dfd257d93ee21b68ed9  
Author: Kristian Høgsberg <krh@redhat.com>  
Date: Thu Dec 2 21:58:58 2004 +0000

Use __printf__ in gcc function attributes to avoid clash with libc wrapper define, and remove the last bits of the old workaround.

commit e62d85baa31fc853ae8fdefe49962ad4eb86ae8245  
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>  
Date: Thu Dec 2 21:49:54 2004 +0000

Remove some of the ifdef WIN32 checks from WaitForSomething

commit 2782b8871196ef28f9a6c84bf6c8b5086d00d5d4  
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>  
Date: Thu Dec 2 14:19:01 2004 +0000

Adjust the width of the rootless backbuffer to match 32 bit alignment  
Make multiplemonitors default for -internalwm

commit 3b3e24dc4d4e89b471d80428dd9ad122f259b1fc81  
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>  
Date: Thu Dec 2 13:38:30 2004 +0000

Set HasFfs to NO  
Fix link order problems with mingw. Add libdix.a after libmi.a.  
Pass -DHAS_FFS to compiler  
remove inline code for ffs(). It will link to dix/ffs.c instead added declaration for ffs()

commit 2620676306d1eccd24a6bf0637a608426566f7c  
Author: Phil Blundell <pb@reciva.com>  
Date: Wed Dec 1 19:43:29 2004 +0000

Patch from Florian Boor <florian.boor@kernelconcepts.de>:  
Check return value from ts_config. (TslibInit): Likewise.

commit 96545d038837b9c7dc435ed7c1f631454e86e6cb  
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>  
Date: Wed Dec 1 14:57:45 2004 +0000

Remove code which sneaked in recently. It is not proven to be correct, just a workaround and disabled by default

commit 3f063fc49cc2d456359a1b0b9f36f27bef6b09b0  
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Dec 1 14:16:07 2004 +0000

Set XERRORDB environment variable to relocate the XErrorDB file

commit 908442301478b21f6ebab17e31aa55918eaaa5101
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Tue Nov 30 23:43:33 2004 +0000

//freedesktop.org/bugzilla/show_bug.cgi?id=811): Updating generated
Xprt.html which was forgotten during the previous work.

commit af717ae57dd6c5e6ad41b4142d62c6bb55f13777
Author: Egbert Eich <eich@suse.de>
Date: Tue Nov 30 08:38:44 2004 +0000

Make Xorg the default server to install.
Avoid PIO access on IA64. Some IA64 machine check if legacy ports outside
the VGA range are accessed. The ATi driver however does this to probe
for ISA Mach8/32/64. Since no IA64 has ISA slots this restriction
should not be relevant to the user.
Avoid recursive calls of xf86scanpci(). This function normally detects that
it has been called before by checking if the PCI structure is filled
out. So far if this was not the case (because PCI probing has failed
for some reason) the function is traversed again. With the chipset
specific PCI bus probing this can lead to an endless recursive loop as
the post-probing code calls xf86scanpci() from within this function.
The OS specific PCI code for Linux worked only if bus 0 was populated as it
checked for the presence of /proc/bus/pci/00. Fixed to check for
/proc/bus/pci/<bus_to_look_for> instead.

commit 59ccc6465ca15e046ad11362ae5fbb3c71d2c148
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Mon Nov 29 12:34:55 2004 +0000

Fixed windows.h include for cygwin.
Bugzilla #1945: Stop unnecessary reordering.

commit df2f2ff5a4e6b6c5289da64bf3f572341a0f7656
Author: Phil Blundell <pb@reciva.com>
Date: Sun Nov 28 23:20:17 2004 +0000

Re-read "fix" structure from kernel after mode selection, in case line
pitch has changed.

commit 6062f6a6e7b3c444a35f11b2541df2aa0066a2
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Thu Nov 25 22:42:51 2004 +0000
xc/programs/Xserver/Xprint/Imakefile
xc/programs/Xserver/Xprint/Xprt.html
xc/programs/Xserver/Xprint/Xprt.man
//freedesktop.org/bugzilla/show_bug.cgi?id=811): Add missing manual page
for "Xprt" (DocBook master file (Xprt.sgml) and the generated files
(Xprt.html, Xprt.man).

commit cbce4c96d9a2e5ebc253d73d79aceebc52ad67
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:    Thu Nov 25 12:48:21 2004 +0000

    Bugzilla #1914: fix size limit for -fp argument

commit 2b75c19ea2bb76512d51e99c5c9ecb073fd9163
Author: Matthew Allum <breakfast@10.am>
Date: Wed Nov 24 17:50:50 2004 +0000

    minor Xephyr fix

commit a96254234e9410944406f6ae878815cd3cfcee3
Author: Matthew Allum <breakfast@10.am>
Date: Wed Nov 24 17:08:06 2004 +0000

    XEephyr -parent switch fixes

commit a7a07d0c71aa3f2e224ceee7e8d8348523136ee
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Wed Nov 24 16:56:03 2004 +0000

    Finally the multiwindow mode defines a default cursor

commit ca4da62478a3ad86ab087245bf8eb7d3f31bde
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Nov 24 09:07:58 2004 +0000

    Add <sys/types.h> include to unbreak build on FreeBSD.

commit da3df7522d15855fa871c45f3b8db3e7c639a44
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Nov 24 02:45:33 2004 +0000

    Remove this file and all references to the binary expiry code.
    Remove old obsolete include/extensions/damage.h.
    Include srvrv_ctrl(xfree86) in macintosh US XKB symbol file so VT switching
    works again on mac (#1872).
    Remove out of place #define's of printf to xf86printf. This definition
    should only be in xfree86/os-support/xf86_libc.h
Bugzilla #1883 (https://freedesktop.org/bugzilla/show_bug.cgi?id=1883): Fix insufficient SHM detection in XvMC local test. Removed reference to getpagesize() which caused linking problems on s390. Reported by Stefan Dirsch <sndirsch@suse.de>

commit fec868bf0f67a8f62fc69d55e2f72b6cacea6f8
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Nov 23 17:10:55 2004 +0000

//freedesktop.org/bugzilla/show_bug.cgi?id=1204): Fix X11 test suite (caused by DAMAGE layer) failure with Xvfb when rendering text using XDrawText*() (XDrawText() tests 1, 3, 4, 27, 28, 29, 30, 34, 37, 39, 41, 43 and XDrawText16() tests 1, 3, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 34, 37, 39, 41, 43). Patch by Hong Bo Peng <penghb@cn.ibm.com> and Stefan Dirsch <sndirsch@suse.de>.

commit b09f2a0495071a068c2b6b36084c974acf7aab9b
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 22 16:04:04 2004 +0000

Windows does not have ffs() implementation. added one
Enable RootlessSafeAlpha and RootlessAcceleration for the Windows port too

commit bb43f234c5d418e064c89b928b81b53987f14e92
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 22 15:00:04 2004 +0000

Use GetTempPath for finding a place where to store temporary files on Windows

commit bc7493801d1f5177d9ba3fe09acc2a2d72cfe3d
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 22 14:28:25 2004 +0000

Fixes for building multiwindow and internalwm on mingw
Changed some debugging output

commit 255c3c0e8ca0f402b2c327d70c8a254ba65eda03
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 22 14:12:33 2004 +0000

Xming: Place logfile in users tempdir
commit 0f7874cbbfc01da339ce6be221351ddffdb37805d
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 22 13:23:25 2004 +0000

Use a simple hashtable as ConnectionTranslation instead of a plain array on
Windows because socket fds are not sequential and do not start at 0

commit e6bc551e3451efe4fcb55475d6d0ff53fccc9807
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 15 18:13:41 2004 +0000

Use CreateProcess instead of system() to spawn xkbcomp on windows. system()
can not handle spaces in the path component. Quoted all filenames on
the commandline.

commit 661856731f41f5e237f12b4204aa32ce174a514
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 15 15:58:51 2004 +0000

Remove override of HasSnprintf

commit 9826b83826190e514ed115e15691ca015780f9bc
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Nov 15 15:06:51 2004 +0000

Bufzilla #1802, http://freedesktop.org/bugzilla/show_bug.cgi?id=1802 Added
mingw (Win32) port

commit ceb668149e1956f29bc89855182349122e2f4e
Author: David Reveman <c99drn@cs.umu.se>
Date:   Sun Nov 14 23:21:29 2004 +0000

Add xglPixmapToRegion

commit 343f965749af0a985573c525dc6084c2519b6ffe
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun Nov 14 17:29:56 2004 +0000

Fix typos in output file. (Bugzilla #1849, reported by Yi Ren-Chen)

commit 636a9e786881dd42cd6d579e13b7895cf9f10eb
Author: Phil Blundell <pb@reciva.com>
Date:   Sat Nov 13 18:03:16 2004 +0000

Don't leave stale pointers hanging around after ts_close(). (TslibFini):
Likewise.

commit 36d9e01c0d36eaf0d9e77d2908b09d55a35d
New global variable. (KdProcessArgument): Set it to TRUE on -nozap switch.
(KdUseMsg): Add help for -nozap and -rgba switches.
Declare.
Honour dontZap flag.

commit 3b0dce3620e4cce74e3a2c7f9077ce28be11740d
Author: Thomas Hellstrom <unichrome@shipmail.org>
Date:   Sat Nov 13 11:09:23 2004 +0000

lib/XvMC/Imake
Added support for automatic loading of the correct hardware XvMC driver.
This involves a protocol extension of the XvMC protocol. The XvMC
revision number was bumped.

commit a97548b1c9bb69b5824609c1da1ad66c3a9c5065
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Thu Nov 11 20:10:28 2004 +0000

Cosmetic fix to make xf86pciBus.c use standard min() macro.

commit e5040e24f03a2fe770139e6f37acef3da48aa0f9
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Thu Nov 11 16:09:58 2004 +0000

oops commited wrong version previously

commit e380fd548ed5452d08184723145dd992ad72288c
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Thu Nov 11 15:44:31 2004 +0000

update shared lib revisions on OpenBSD (Bug #1828).
update references to xf86site.def in comments (Bug #1827).
fix kbd driver for wskbd protocol and pure wscons console driver (Bug
#1825).
don't add `-4' to generated default file name (bug #1826).
typo in resource name (XFree86 bug #1300, X.org bug #1825)

commit d7f4f6f71d892768ea85552a0d5458b69b561fe21
Author: Matthew Allum <breakfast@10.am>
Date:   Thu Nov 11 14:55:30 2004 +0000

Xephyr grab fix

commit 2854fa438ff721637f2e53fbafa141b3db8a9082
Author: Adam Jackson <ajax@nwk.net>
Date: Tue Nov 9 17:06:15 2004 +0000

Bug #557: Don't use "bool" as a variable name in xf86cfg, to avoid compiler bugs. (Donnie Berkholz)

commit 367b963b6333ee58e197845f1389a95ff26f108e
Author: Adam Jackson <ajax@nwnk.net>
Date: Tue Nov 9 15:58:41 2004 +0000

Bug #1765: Add support for R_ALPHA_SREL32 relocations in elfloader. Originally Debian patch
202_alpha_elfloader_support_R_ALPHA_SREL32.diff. (Falk Hueffner)

commit 50cdff7ee2a1b448da24e85efae02237cff9b6b7
Author: Matthew Allum <breakfast@10.am>
Date: Tue Nov 9 11:36:49 2004 +0000

Xephyr improvements

commit 81a3b6fe27567b4f91033ece69996aa6bf8d01a3
Author: Matthew Allum <breakfast@10.am>
Date: Mon Nov 8 22:39:47 2004 +0000

Add support to Xephyr for lower depths than hosts

commit e494e24c508b34b144355cb380aac16abf2fb891
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sat Nov 6 11:56:57 2004 +0000

Wrap all mwextwm and internalwm code with XWIN_MULTIWINDOWEXTWM

commit 16ee24cd994fa3f8d479e972f18c8207a5116cb7
Author: Torrey Lyons <torrey@mrcla.com>
Date: Fri Nov 5 19:51:38 2004 +0000

Use ROOTLESS instead of platform specific defines.

commit 64c7f8e667eef955b266c359291206c7188ce20c
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Nov 5 13:26:07 2004 +0000

Use UTF-8 encoding in Xgl sources

commit 1d994e1d14225c1dec5251edeae40e24923a31c6
Author: David Reveman <c99drn@cs.umu.se>
Date: Fri Nov 5 12:46:29 2004 +0000

Use negative strides in Xgl if pixel data have bottom-top scanline order
commit 2dd76d646c517e1988897692e9ff8b6194d25c87
Author: David Reveman <c99drn@cs.umu.se>
Date: Thu Nov 4 23:19:13 2004 +0000

  Add working X11 server code

commit 1ae0f1060647d22b676a29f6def1ac54f9fe7f5d
Author: Kensuke Matsuzaki <zakki@peppermint.jp>
Date: Thu Nov 4 11:52:22 2004 +0000

  Add InternalWM mode.

commit 522e878ca3bfe97cd408e37065f827ce004faa04
Author: Egbert Eich <eich@suse.de>
Date: Tue Nov 2 08:54:53 2004 +0000

  Removing unneeded private FreeType2 symbol.
  Updating to EDID 1.3. (Bugzilla# 1490, Jay Cotton, Egbert Eich).
  Removing unneeded code.
  Fixed KGA handling for i810. KGA handling for chips derived from C&T chips
  is slightly different. The changes make the code consistent with the
  C&T (chips) and i740 drivers.

commit 1074992c285835ca9d96d11e8352bbe2cdbe2a28
Author: Egbert Eich <eich@suse.de>
Date: Mon Nov 1 16:05:27 2004 +0000

  Fixed sig11 which occurred when calling a CloseDisplay() after
  XScreenSaverSetAttributes() followed by XScreenSaverUnsetAttributes().
  Caused by missing FreeResource() in XScreenSaverUnsetAttributes().
  Removing unused DDC sections that caused misinterpretation of DDC data due
  to a missing break statement in a switch.
  Fixed typo: #if <-> #ifdef.

commit 7e588ba9abdce2078b6c361c81806337b8ff0827
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Oct 30 20:33:43 2004 +0000

  Add -d flag for compilers like the Sun C compilers that produce dependency
  lists themselves. To use with the Sun compilers, add to host.def: #
  define UseCCMakeDepend YES # define DependFlags -cc $(CC) -d -xM (Sun
  bug id #4245688 - fix by Alan Coopersmith)
  Add Solaris to the platforms on which mprotect is run to set execute
  permissions when necessary. (Sun bug id #6175128 - fix by Alan
  Coopersmith)
  Internationalize digital output (Sun bug id #4119396 - fix by Steve
  Swales), add -bgpixmap option to set XPM file as background (originally

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36748
from STSF project version of xclock by Alan Coopersmith
xc/programs/xmodmap/handle.c pf.c xmodmap was printing line numbers which
are one too low in error messages (Xorg bugzilla #1739, Sun bug id
4637857 - fix by Sam Lau)

commits:
commit 612bd1c27322a69a98b59193c7d31501688359bd
  Author: Thomas Winischhofer <thomas@winischhofer.net>
  Date:   Fri Oct 29 02:07:15 2004 +0000
  
  Add facility for catching signal 4 from driver. This can be used to check
  for OS SSE support. (Part 2)

commit 09fdda28d2afe33dfadd4293b39a34da268fbdb
  Author: Thomas Winischhofer <thomas@winischhofer.net>
  Date:   Fri Oct 29 02:06:17 2004 +0000
  
  Add facility to catch sig 4 from driver. This can be used to check for OS
  SSE support. (Part 1)

commit b0185a4bf77a668e65e94197bdb13331680521c7
  Author: Thomas Winischhofer <thomas@winischhofer.net>
  Date:   Thu Oct 28 22:12:23 2004 +0000
  
  Add xf86[GetGammaRamp|ChangeGammaRamp|GetGammaRampSize] to symlist in order
  to allow drivers to use them

commit 9d4823adc8319a20d2ace3d0944ca32e300f6eeb
  Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
  Date:   Thu Oct 28 14:23:08 2004 +0000
  
  Import recent changes from CYGWIN branch

commit db65fce04ddec1dac0d92ad3ace95ab4996bd206
  Author: Torrey Lyons <torrey@mrcla.com>
  Date:   Mon Oct 25 19:09:11 2004 +0000
  
  Fix rootless Cygwin crash due to acceleration code illegally modifying a
  const structure (Reported by Kensuke Matsuzaki).

commit a57e85b52357f15f52e81c8d9b310a76e0c62b3f
  Author: Roland Mainz <roland.mainz@nrubsig.org>
  Date:   Mon Oct 25 07:12:21 2004 +0000
  
  Fix for https://freedesktop.org/bugzilla/show_bug.cgi?id=1664 - RFE: Add
  support for the DOUBLE-BUFFER extension to the Xprint server and DDX.
  Additionally a " pixmap-scrubber" optimisation is added to the
  PostScript DDX to remove all content from a vector pixmap when a
  [PolyFillRect()] call covers the whole pixmap surface with a solid fill
(this avoids that a backbuffer vector pixmap gets constantly filled even when the content is not visible anymore after \texttt{XdbeSwapBuffers()} has cleared the hidden buffer with the background color).

commit e0cc4871491ab7a8c52749ff2e077d8f11516b15
Author: Phil Blundell <pb@reciva.com>
Date:   Wed Oct 20 18:06:58 2004 +0000

Add epson.
Build Makefile in hw/kdrive/epson.

commit 258e9016a0e966187a81f9d956766791d6e8c505
Author: Phil Blundell <pb@reciva.com>
Date:   Wed Oct 20 18:02:32 2004 +0000

Block SIGIO before disabling input fds. \texttt{(KdEnableInput): Unblock it after enabling them again.}

commit cbd5fbc7e5b802ebcfff317fde2f848043207690
Author: Phil Blundell <pb@reciva.com>
Date:   Wed Oct 20 08:20:51 2004 +0000

Import Epson 13806 driver from Costas Stylianou:
New files.

commit 0584d92b36910d42e4fba96cee5f3380eeb3b493
Author: Egbert Eich <eich@suse.de>
Date:   Mon Oct 18 14:21:46 2004 +0000

Made handling of DevelDrivers for x86-64 more conformant to other platforms.
Compress all font encodings (Stefan Dirsch).
Fixed warnings.
Turn on forwarding XNSpotLocation event to XIM server in OffTheSpot and Root mode (bugzilla #1580, James Su).
Added another compose key combination for the Euro symbol (Stefan Dirsch).
Added support for UTF-8 in ja_JP, ko_KR and zh_TW locales (Mike Fabian).
Changed default encoding for ru from KOI8-R to ISO8859-5 (Mike Fabian).
This is the encoding that is also used by glibc. We may break other libc - lets see who complains.
Added explanation for DESTDIR to install to a different directory than /.
Added some early bailouts to atiprobe if PCI structure pointer is NULL to prevent sig11.
XV support doesn't depend on 2D acceleration any more. This patch removes this limitation from the NSC driver. This is a patch that I have committed to XFree86 a while ago but never ported over to X.Org.
Matthieu Herrb contributed some build fixes.
Fixing \texttt{SetDPMSTimers()} so that \texttt{DPMS*Time == 0} disables the appropriate
timer. This takes advantage of the fact that TimerSet() with a timeout argument 0 behaves like TimerCancel().

Use /dev/xconsole (named pipe) or devpts for system logger (Werner Fink).

Create missing links for backward compatibility to XFree86 (Stefan Dirsch).

Changed comment to mention xorg.

Changed cursor for the 'kill' action from XC_draped_box to XC_Pirate. If you don't like it we can change it back (original author unknown).

Added 'pic' to the man page rendering command pipeline (Werner Fink).

Added missing return value (Stefan Dirsch, Roland Mainz)

commit 77dab254402073b96234a6b1056b2277578a976
Author: Alex Deucher <agd5f@yahoo.com>
Date:   Sun Oct 17 20:29:35 2004 +0000

- Add interlaced support to S3 driver (bug 332, Leo Savernik)
- EmulateWheelTimeout (bug 323, Mathias Fröhlich)
- single button double-click (bug 322, Rob Brown)

commit 9a0cf1eb43878308c0a83e4f935933b647edc6d5
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Oct 17 10:46:14 2004 +0000

Remove some remaining AMOEBA specific code.

commit 5505555c15bfa2de1f596ae9997335fd6f07eb5a
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Fri Oct 15 22:29:40 2004 +0000

Fix for https://freedesktop.org/bugzilla/show_bug.cgi?id=1647 - Fix the problem that |XpSubmitJob()| returns a random value (patch by Stefan Dirsch/SuSE).

commit 60caca718d23012c4e85ce70547610fe5168342
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Fri Oct 15 22:08:38 2004 +0000

Fix for https://freedesktop.org/bugzilla/show_bug.cgi?id=1646 - Fix the problem that |PsCreateColormap()| returns a random value (patch by Stefan Dirsch/SuSE).

commit 4782b2f7c10708f9662d9fc743c692d0bec85743
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Fri Oct 15 21:43:31 2004 +0000

Fix for https://freedesktop.org/bugzilla/show_bug.cgi?id=1637 - Fix problems in oid code which may cause the usage of an invalid string pointer (original patch by Egbert Eich).
Bug #1628: Convert xf86{BusToMem,MemToBus} to PIC code, eliminating a text relocation and enabling the server to be built as a position-independent executable. (PaX Team)

commit a0251ee285e1f1e28d06927d8ab7d35d59fda607
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Thu Oct 14 02:20:52 2004 +0000

Fix for https://freedesktop.org/bugzilla/show_bug.cgi?id=1629 - Fix crash on AMD64, regression caused by bug 1496 ("Xorg Xprt does not support "*xp-listfonts-mode: xp-list-internal-printer-fonts“ to toggle the usage of printer-built-in fonts").

commit 3a055ea35b687e381da4d729dbdd0ebac47f673b
Author: Vladimir Dergachev <volodya@mindspring.com>
Date:   Wed Oct 13 23:02:42 2004 +0000

Modified:
xc/programs/Xserver/hw/xfree86/drivers/ati/radeon_video.c
xc/programs/Xserver/hw/xfree86/drivers/i2c/fi1236.h Squash annoying warning about fi1236_dump_status

commit 3364e7bd44537b98212820fb2b1941abf0d5ef3
Author: Egbert Eich <eich@suse.de>
Date:   Tue Oct 12 19:13:43 2004 +0000

Set fbdev mode as the default mode on PPC (Olaf Hering).
Added support for IBM space saver keyboard (Stefan Dirsch). Added support for Cherry CyMotion Master XPress (Marcus Schaefer).
Change order of SetDisplayDevice(), HWRestore(), UnbindGART() and RestoreBIOSMemSize() to be exactly opposite to the Save procedure in EnterVT() (Matthias Hopf, Alan Hourihane).
Fix text mode restoration by removing the assumption that the register which determines which head is programmed is set to the active head by the BIOS (Mark Vojkovich).

When I wrote the resource code 5 years ago I made some assumptions which turned out to be false: I've assumed that the bus number of the PCI hostbridge would be the PCI bus the bridge links to. This is not correct. Fixing this assumption is not easy. However I hope that the attached patch will make the system work regardless as it 'ignores' host bridges from which the target bus is not known. This should not matter at all as we really don't care about host bridges (unless we have bridge specific code which retrieves information about the bridge).
Fixed server crash on reset when a structure allocated in PreInit() was freed on CloseScreen().

Fixed ring buffer lock ups that happened because the structure that contained ringbuffer data was not zeroed after allocation.

Fixed numerous warnings due to signed unsigned comparisons.

programs/Xserver/hw/xfree86/drivers/nv/nv_driver.c:
(NVBacklightEnable): Changed the order in which the sequencer registers and the backlight control registers are written. The sequencer control register need to be written first otherwise DPMS screen blanking produces vertical bars on a mobile device.

lib/Xau/Imakefile: Build libXau static library PIC so it can be linked into toolkits that would like to wrap its functionality.

commit 4ab7d316eeeb23c81c1b208f9291750cf6b37513
Author: Egbert Eich <eich@suse.de>
Date:   Mon Oct 11 09:58:04 2004 +0000

Improving DPMS handling on VT switch and server termination/abort: previous version called the driver directly and too late.

Unblank secondary screen explicitly. Don't rely on the value read during register save as the BIOS have blanked the secondary head.

Checking if server isn't switched away before calling sync. Sanity check for possible bugs in other areas of the code.

Fixing default amount of allocated video memory from AGP for i810: Use 16MB if less than 192MB are installed else use 24MB (Matthias Hopf).

commit ca1fda2a3f674a6d59de236612c7077387738ec3
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Sun Oct 10 17:48:43 2004 +0000

programs/Xserver/Xext/saver.c Fix for XFree86 bugzilla #1224.

commit fa9847aeb9094aafc3798ae1fc8379e77a18d6a
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Fri Oct  8 00:35:08 2004 +0000

Allow rootless implementations to override frame reordering. This is used on Mac OS X when genie-restoring from the Dock to ensure that the animation completes before drawing the frame.

commit d737bc3300cf1847bcea08ca781f37ee3ee62692
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue Oct  5 17:28:15 2004 +0000

Make xorgconfig ask again instead of giving up and throwing away all your answers when you give a bad file name or bad amount of video RAM. (Sun bug id 5070654 - Derek Wang)
commit 75217be88cc87a54c84e31697ff98b5f9b8e0a
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Mon Oct 4 05:34:32 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=661 - Xprt
producing spurious characters in PS output when using the bitmap cache
(Originally reported against Solaris Xprt as Sun bug id #4369307, and
fixed in Solaris by Jay Hobson.

commit 658b4ed81f777df2d8b9f47904de90bde1897113
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Mon Oct 4 05:04:14 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1299 - Add more
visuals to the Postscript DDX (8bit GrayScale/StaticGray, 1bit
StaticGray and the basic infrastructure for "deep" visuals with more
than 8bits per RGB gun).

commit e622b346113f657881107777d7d1b5fc436600a4d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Sun Oct 3 23:29:21 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1496 : Fixed Xprt
font handling which did not support "+xp-listfonts-modes:
xp-list-internal-printer-fonts" or "+xp-listfonts-modes:
xp-list-glyph-fonts" to toggle the usage of printer-builtin and glyph
fonts in XListFonts(*), XLoad*Font(), etc. Additionally the Xprint DDX
now explicitly list "xp-listfonts-modes" in
"document-attributes-supported" (for document-level) or
"xp-page-attributes-supported" (for page-level) when the DDX implements
this feature (as described in the CDE DtPrint specification).

commit 8b2f127ea0db2c7fee223b69f4fceeef0427fb2e4
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Sun Oct 3 15:34:33 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1416 - Fix Xprt
PostScript DDX crashes when copying offscreen pixmap content to the
same pixmap.

commit 7b27bf869dcbf02bcecf730706fc451c6f4c72b1f0
Author: Vladimir Dergachev <volodya@mindspring.com>
Date: Sun Oct 3 15:01:31 2004 +0000

Modified:
xc/programs/Xserver/hw/xfree86/drivers/i2c/fi1236.c Make sure formatting
style is consistent within a single function. MT2032 functions are best
be in separate file anyway.
commit 4046653cb63f4cd752212c7cf65fad5408d8f5b8
Author: Vladimir Dergachev <volodya@mindspring.com>
Date:  Sun Oct 3 14:38:31 2004 +0000

Modified:
xc/programs/Xserver/hw/xfree86/drivers/i2c/fi1236.c Fix compilation with gcc 3.4.x
Cleanup xf86DrvMsg noise.

commit ebe7b3f3e160259b6f19fe760d6ff4f5bb1dd4b72
Author: Vladimir Dergachev <volodya@mindspring.com>
Date:  Sat Oct 2 01:35:33 2004 +0000

xc/programs/Xserver/hw/xfree86/drivers/i2c/*_module.c Change version strings to XORG.

commit 0d474149f1cb68a60927529f6eac611a12acf5e6
Author: Vladimir Dergachev <volodya@mindspring.com>
Date:  Thu Sep 30 22:58:07 2004 +0000

Initial code from GATOS. This needs to be cleaned up, for example the bt829 code is practically untouched since xatitv (which was a standalone test program). However, it all worked and was debugged over long period of time, so I prefer to to mess with these for now.
New drivers: fi12xx (including MT2032 - this would be be split off later).
tdaXXX msp34xx bt8xx

commit 1dfafe2aeec864a9bdf6da3324243b2be8e3a62
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:  Wed Sep 29 04:17:44 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1489 - Use |long| instead of |int| for BIGREQUESTS commandline option.

commit de89181444a2f2258a446fe20a25e37fd225a568
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:  Fri Sep 24 02:11:14 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1453 - Fix spaces in usage output for BIGREQUESTS extension (option "-maxbigreqsize").

commit 884cb060ea2b914191c269a0ec955ed83d07ff9
Author: Torrey Lyons <torrey@mrcla.com>
Date:  Wed Sep 22 23:52:39 2004 +0000

Update XDarwin project to Xcode 1.5 format and remove unused QUARTZ_SAFETY_DELAY code.
Add option for XDarwin to track system keyboard layout changes as they occur (John Harper and Torrey T. Lyons).

Warning fixes.

Allow overriding DPMS defaults (timeouts & default for on/off) from #defines/-D options.

Bug #1252, #1253, #1255, #1256: Various typo fixes from Dave Jones.

Add offscreen GLX direct rendering with XDarwin's xpr backend (John Harper).

Merged over libXpm security fix provided by Chris Evans, Matthieu Herrb and Alan Coopersmith from release 6.8.1.

Fail during initialization with error if font/fontset is not set for widget. This prevents a sig11 later when the non-existent font/fontset structs are referenced.
Check if xf86Info.kbdProc pointer is really set before calling it on abort as this pointer won't be set if the new modular keyboard driver is used (Matthias Hopf).
Added new libs to the bindist control files.
Removed inclusion of unnecessary kernel header on Linux. This may fail in an -ansi environment.

commit 814b74662103710665c0b5659a93974ad609276c
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Sep 20 08:44:54 2004 +0000

Bugzilla #1402: The last patch was broken on linux. Take definition of badSysCall out of the OS specific block.

commit b600fcda38f4ab4796b5536cbedc5dee1abd25b1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Sep 20 03:12:00 2004 +0000

Fix the R200 Render code. Composite and Trapezoids are now supported just as well as on R100.

commit 908287addaff10a0f5f6f14bf06a9b85870737ec
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Sun Sep 19 12:59:52 2004 +0000

Bugzilla #1402: fix BigFont extension if SHM is compiled in but not working. Does not access SHM and privates if the SHM syscall failed during extension initialization.

commit 90ff3688cdec0c2c1b5ccdbd9cc0659b9a355e85f
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Sep 19 10:57:31 2004 +0000

Unbreak the AGP DRI case. That was quite a pile of broken code.

commit 9297c6149f83de22395503e484a2ca65dbffaf6b
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Sep 18 23:18:35 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1404 - Fixing random crashes (like in DAMAGE code etc.) in Xnest due uninitialised GetWindowPixmap. Original patch by Alexander Gottwald <ago@freedesktop.org>

commit 6344bb51e2a97d9678cec2ec1dab19abfe9d9e8d
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Sat Sep 18 00:38:30 2004 +0000
Bugzilla #1032: Make rootless acceleration functions compatible with Damage.

commit cedb9a8d62df3391fd89a8b05a2dd64bd098a7df
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Fri Sep 17 21:57:26 2004 +0000

Update Apple's list and hash utility routines to latest versions (John Harper).

commit b56f4532d1a5febb8df45da0e3d3ad7bf8838e5f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Thu Sep 16 13:22:52 2004 +0000

Remove code which prevented the use from specifying the window size in nodecoration mode.

commit c4083511acd1d0f20a242b8cd3ed62629629ce8f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Wed Sep 15 17:58:50 2004 +0000

add support for mice with more than 3 buttons and one scroll wheel (Chris B)

commit 516f452e78170bc643117a71bd2246a83b071316
Author: Egbert Eich <eich@suse.de>
Date:   Wed Sep 15 09:23:59 2004 +0000

Adding support for OS dependent probing of IA64 chipsets. Not all IA64 chipsets can be probed without OS support as probing them is only possible using ACPI. One example of this are the HP ZXJ/2 chipsets: previously the code assumed that these chips were present when no other of the known chipsets could be probed. This assumption brought SGI Altix machines with 64 CPUs to a grinding halt.

commit a3aa6a2d865239e5b8f29ebd849ae3288e36b8a9
Author: Egbert Eich <eich@suse.de>
Date:   Wed Sep 15 09:05:22 2004 +0000

Unregistering events in XSelectInput() when unregistering IM filter callbacks may be a bad idea as others may be interested in this event. Removed the call to XSelectInput() altogether as we are in root window anyway (Lubos Lunak).

Fix size of a variable that gets assigned the value of SmartScheduleTime (long) to long. This should help to prevent smart scheduler lockup on 64 bit systems due to overruns (Andreas Schwab).

commit f642fc729b481c55073c75beca301b2f17881179
Refix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1361 - RFE: Allow enabling/disabling of more extensions (fixing duplicate symbols caused by previous checkin; attachment #899)

commit 0d95d6f1baf4c526f6f54d6f1de8811f4e6d5d5f
Author: Phil Blundell <pb@reciva.com>
Date: Tue Sep 14 23:08:10 2004 +0000

Only set screen parameters if resolution has changed from current values.
Patch from scoony@noos.fr.

commit ba3b6fd23be5f1f900cf0f57bc586e08bc524e99
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Sep 14 06:26:54 2004 +0000

Add proper PCI/AGP detection, based on Mike Harris's code for Radeon, but using the MMIO mirror of the bits instead of config space.

commit d9df39ee2b5b462be87718046b16d30c231563ec
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Tue Sep 14 00:51:25 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=1361 - RFE: Allow enabling/disabling of more extensions

commit 80dc84d067c5af29e33a0c7ac62eecc8ba4e0871
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Sep 12 23:22:31 2004 +0000

- Fix a segfault on VT switch with DRI. Still dies due to cursor allocation troubles.
- Move the RemoveBlockAndWakeupHandlers to match RegisterBlockAndWakeupHandlers.
- Enable R100 trapezoid "acceleration" when DRI is working, so that it can be exposed and worked on.

commit ab50679aabd9a9e6197568f745d02fe1e65c7a24
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Sep 12 23:01:24 2004 +0000

Fix a bad argument missed in the previous commit for ATIDRIDMA* functions.

commit 2d069b1d1950b5ff6f9140e5573e349e6559251e6
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Sep 12 22:21:12 2004 +0000
Move the RegisterBlockAndWakeupHandlers to before DRI initialization. The change to use that instead of manual wrapping made the DMA dispatch come after the lock had been dropped, causing lots of pain.

commit 27b5a65f05c78a0b6de0d0ace4f4275d990cc3a4
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Sep 12 20:31:39 2004 +0000

Reset the CCE/CP on engine reset, and make the ATIDRIDMA functions take a more useful argument.

commit fcd52d276f0276490ef08af2f0d6c52ed631f130
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Sep 12 20:19:15 2004 +0000

Add missing kaa.h include for kaaInitTrapOffsets.

commit b5d406e8c84d8aba2b45e985e43d02c2e6770019
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Sep 12 20:02:10 2004 +0000

Fix handling of is_agp. is_agp is whether the card is actually AGP, while using_agp should say whether AGP is being used as part of DMA/DRI.

commit 7cab70d1cb7298035429dd8953e521a31fc6770019
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Sep 12 19:52:51 2004 +0000

Improve error handling, especially in the DRI case. Do some FatalErrors instead of ErrorFs for things that are really bad, and put limits on some loops. Now, sometimes instead of hanging the entire system, we (mostly-) cleanly drop to console when the card has hung.

commit 0cd662ea80579c317d706ebe04971bb29d0f9b4f
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Sep 11 09:28:19 2004 +0000

- Add disabled WIP trapezoid code for R128 and R100. The R128 rendering is not doing an add of 1 per triangle like I hoped, and instead seems to be saturating all the pixels or something. The R100 acceleration renders pretty well, with some gaps. Note that both are slower than software due to lack of DMA to submit vertices.
- Mostly fix R128 and Radeon transform support, including supporting bilinear filtering on R128. Subpixel offsets are still probably an issue (reported by rendercheck), but I want to make 100% sure about my understanding of the protocol before changing everybody, including fb.
- Add support for dst formats without alpha to R128 Composite.
- Remove the R128 Blend code, which has long outlived its usefulness. (I kept it around for one reason: It could be useful for the w/h > 1024 case with no mask and a non-src op. That seems pretty infrequent and not worth the trouble).

commit 396100dd235105a0e2c9013f1e07e4dae0cc3404
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Sep 11 09:23:12 2004 +0000

- Don't require Imprecise mode for Trapezoid acceleration. It looks like we might be able to do Precise in hardware, so leave it up to the driver.
- Add a helper function for computing a set of offsets for smooth trapezoid rasterizing using many sharp trapezoids.

commit 501dcf37aac4ec9298e8c9298e8c79ca65c048c362bce31
Author: Matthew Allum <breakfast@10.am>
Date:   Wed Sep 8 11:31:49 2004 +0000

cursor fixes

commit 20918ab480c8c8285a68e9f974b0208a18acec94
Author: Matthew Allum <breakfast@10.am>
Date:   Tue Sep 7 19:00:04 2004 +0000

  avoid ephyr breakage when tslib enabled

commit 8bf6ea903be4c052c747e3e811fc977155072299d
Author: Matthew Allum <breakfast@10.am>
Date:   Tue Sep 7 12:44:19 2004 +0000

  fixes to Xephyr debug mode

commit b3322257815ec4550e1634453167535b02c1bfbd
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Sep 3 23:41:21 2004 +0000

  Update formatted docs.

commit b2135e589baeb2ea26da50b9167feaea23bcce3c
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Sep 3 16:18:23 2004 +0000

  First set of documentation updates.
  Include more correct fix for rootless interaction with damage (Bug #1168, Keith Packard).

commit d7fef52254126aa5897a5c58faeda1f61d5b13d8
Author: Kevin E Martin <kem@kem.org>
Workaround for servers using rootless layer with damage (Bug #1168, Torrey T. Lyons).

commit 0e56515aa3ebc5ee8cc33213fb22b69bb4b3a0da
Author: Kevin E Martin <kem@kem.org>
Date: Thu Sep 2 01:38:17 2004 +0000

Fix AGL display problems (Bug #1210, Torrey T. Lyons).

commit 2753c8e2c84cc1fb6d73a05258ab7200068e7830
Author: Matthew Allum <breakfast@10.am>
Date: Wed Sep 1 15:30:58 2004 +0000

'see changelog'

commit 7c0aaa53bf8dcf3d0a8ce9e78d31c62b1766fb35
Author: Matthew Allum <breakfast@10.am>
Date: Wed Sep 1 11:13:36 2004 +0000

'-dpi' fixes for Xephyr

commit 16ff3a872731633b6f1f4920f793153722026189
Author: Matthew Allum <breakfast@10.am>
Date: Wed Sep 1 08:31:20 2004 +0000

Actuall select events for -parent option

commit 2d065c4c33b9ec17c4c791070cf8189cb57bb9c
Author: Matthew Allum <breakfast@10.am>
Date: Tue Aug 31 16:33:05 2004 +0000

Added ephyr server sources

commit 6ec9ecd591fba9e9b69b8ebbd2fa08c0a2beac08
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Aug 30 22:16:46 2004 +0000

Add a set of three hooks for accelerating trapezoids, and use it for the RasterizeTrapezoid screen function. These hooks will be called for imprecise, non-sharp trapezoids with A8 destinations.

Note that the current main consumer of trapezoids, cairo, is requesting precise, sharp trapezoids by not changing the default Picture attributes, but gets non-sharp effects in software because fb bases its choice of sharp/non-sharp on the mask format being A8 vs A1, and cairo asks for A8. Follow fb's (poor?) example by ignoring the sharp setting and basing the choice off of the mask being A8.
Rather than initially place pixmaps in framebuffer based on a size heuristic, delay the decision until the first kaaPixmapUse{Screen|Memory}, and put it in framebuffer if UseScreen was called. Provides a significant improvement in cairo speeds (100% speedup in cairogears here) and is likely to improve text performance as well.

Fix make install when BuildServersOnly is YES (Bug #1213).
Fix build failures when UseDeprecatedKeyboardDriver is YES and DoLoadableServer is NO (Bug #1229, Kristian Hgsberg).
Fix failure when using DLL loader and LD_BIND_NOW is set (Bug #1212, Adam Jackson).

Don't define _XOPEN_SOURCE before including math.h on Solaris - it's not needed on older releases, and breaks builds on Solaris 10. (Same as bugzilla #189).

Fix for XV memory allocation: Also use tiled area for allocation even if it hasn't been used before.

Bug #1101: Fix PaintWindow in the pixmap case when the window's origin is not at the backing pixmap's origin. Resulted in incorrect rendering in at least aisleriot, fluxbox, and KDE apps, and probably many more. While here, move the ParentRelative loop above the drawable grab -- may improve correctness with ParentRelative background origins as well. Note that the border code doesn't handle ParentRelative yet.
Add missing reply for DMX (Rik Faith).

commit f30fbc600f3e5c3b4aceaf8b256594af0069f2e9
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Aug 27 20:39:17 2004 +0000

- adding missing file

commit ecd889c6ef7427b4e7d3f820586aacc178a4dfe2
Author: Egbert Eich <eich@suse.de>
Date:   Fri Aug 27 19:27:12 2004 +0000

  Added support for LynxOS 4.0 (Thomas Mueller).
  Fix arm netwinder build (Donnie Berkholz).

commit 7c087078694a6895a9bcbe62d091665c05a86b5a
Author: Egbert Eich <eich@suse.de>
Date:   Fri Aug 27 12:32:14 2004 +0000

  - Make DDC code more VESA compliant: when MaxClock is set to 0xFF it means
    'no value specified'. Therefore setting it to 0.

commit c0bff215de2d034118d06eac42e234008612204b
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Aug 27 01:15:10 2004 +0000

  Fix xtest failures in Xvfb from XMatchVisualInfo test.

commit 5335be8a0657b3c378795b44698ed23020c13891
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Aug 26 20:32:59 2004 +0000

  Bug #1138: Wrap funcs in CW's GC ops as well. While this is unnecessary
  according to the rules as I understand them (bug #1045), not everybody
  follows the rules. GC funcs were being called on the same GC from
  within GC ops, and the cwValidateGC caused a loop in the funcs chain
  that resulted in a crash, notably in cwPolylines.
commit c8672e7ac79c872344f287f7cc106cb5c006e619
Author: Egbert Eich <eich@suse.de>
Date: Thu Aug 26 11:58:08 2004 +0000

Fixed support for LynxOS 3.1 (LynxOS 4 will follow) (Thomas Mueller).

commit 198e62c44b99ee0890b944f92b162387f77aa10d
Author: Torrey Lyons <torrey@mrcla.com>
Date: Sat Aug 21 00:46:01 2004 +0000

Documentation only update: Update XDaria application version for release.

commit 74d84d7b122802230579a4da8c2e6914d2f5f060
Author: Kevin E Martin <kem@kem.org>
Date: Fri Aug 20 05:22:39 2004 +0000

Fix keyboard driver failing to initialize if DoLoadableServer is NO (Bug #1133, Kristian Hgsberg).

commit bd3e6e44259155cb37f39eb2ca5e1f0de1c2e6b7
Author: Kevin E Martin <kem@kem.org>
Date: Thu Aug 19 04:08:40 2004 +0000

Add missing no.*Extension symbols (Bug #1131, Aaron Plattner).

commit 87842285007e9ac4f9de0349ab1ee1fb66b7c795f
Author: Kevin E Martin <kem@kem.org>
Date: Wed Aug 18 21:11:17 2004 +0000

Fix CopyArea for non-redir dst, redir src (Bug #1105, Eric Anholt).

commit 9223baaf985778c536ce93846c431b46a0192cf32
Author: Kevin E Martin <kem@kem.org>
Date: Wed Aug 18 18:41:41 2004 +0000

Fix AIX build problems (Bugs #1020, 1102, 1103, Dan McNichol).
Remove old config files (Bug #1123, Jim Gettys).
Remove old log message (Bug #1123, Jim Gettys).

commit a45bc0df7a1c369e8429e84414ac813187c90059
Author: Kevin E Martin <kem@kem.org>
Date: Tue Aug 17 17:55:02 2004 +0000

Fix DRI module loading (Bug #1057, Ronny Vindenes).
Fix Xvfb at 8bpp (Bug #1091).
Fix link order when building with Xprint in glxgears (Bug #1060, Alexander Gottwald).
Update release and date for first RC.
Fix kbd/keyboard driver for DoLoadableServer NO.
Revert change since it is better to set date in the config files.

Add kdb <-> keyboard aliasing when UseDeprecatedKeyboardDriver is NO (Bug #1072, Kristian Hgsberg).

document broken composite in XWin

Fix banner to print out proper version information.

Clip destination instead of source. Should be the same, but it looks nicer to me.
Clean up transition between cheap and expensive GC wrappers by using the prologue and epilogue macros. Before, the GC would be left unvalidated sometimes which would cause all kinds of entertaining bugs against a DDX which cares (XAA).

Remove debugging code which did a full tree walk on every window operation Eliminate needless (and, it turns out, dangerous) call to ChangeGC on DestroyGCPrivate.
in cwSetWindowPixmap, check if the pixmap is the screen pixmap and disable the wrapper by setting the private to NULL.
commit 5db70ae2575e3e8669d7a66e2218ba28e8bdfae68
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Aug 15 15:40:19 2004 +0000

    Remove #error used for testing.

commit 1e728c3e88f6a74b93dc11827c9fefe7b39ca5a5
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Aug 15 03:34:18 2004 +0000

    Copy bits from parent window when allocating pixmaps so that Background ==
    None works.

    Copy filter to backing picture during validation.
    Mark picture serialNumber when setting Filter or Transform so Validate
    occurs.
    Initialize xf86Screens[i]->pScreen to NULL so that RADEON driver doesn't
    crash during server reset using old pScreen.

commit 943308517905d16bda1bb27cd745bd291a84dbf6
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Aug 15 00:43:39 2004 +0000

    Redraw window borders when switching window pixmaps around
    Make cw "own" the window pixmaps by wrapping
    GetWindowPixmap/SetWindowPixmap.

commit 597fdae93e6e1b7e4052097ba93d91e7a134c162
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sat Aug 14 23:59:52 2004 +0000

    More kbd fun: write out "kbd" from Xorg -configure (#1078).

commit e483fe3ec384da556c31292001a86ec95c2ddc46
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 14 21:57:58 2004 +0000

    Fix offsets again. Really, it works this time. Promise.

commit e6216b485f5ee72f107348cb21bad724536ee62
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 14 21:36:10 2004 +0000

    Fix offsets, do whole region at once by using GC clipping

commit ed425d1d88a72586d5d7a4aad9d0be0b06637070
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Aug 14 20:29:28 2004 +0000
Bug #1077: Fix source copy performance problem exposed by Composite.

commit cc3ad0ed4302f54318e190a2b10646337f242d40
Author: Keith Packard <keithp@keithp.com>
Date: Sat Aug 14 19:53:36 2004 +0000

Fix clip list computation and setting to ignore clip changes to "real" GC/Picture and track serial numbers correctly when copying pCompositeClip down.

commit 183c6d06455114c61f6db57ec0a084c0a11e53a
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Aug 14 19:51:11 2004 +0000

Wrap CopyWindow in cw, which fixes scrolling in many apps.

commit e61b5d38ab30c4f73ba0d070f485a32708a03eb6
Author: Keith Packard <keithp@keithp.com>
Date: Sat Aug 14 07:12:37 2004 +0000

Use XLIB_SKIP_ARGB_VISUALS environment variable to disable all depth 32 visuals. Necessary to keep Flash from crashing.
Must call ValidateGC/ValidatePicture on "real" GC/Picture to ensure pCompositeClip is set correctly.
Need to take the composite clip from the "real" GC/Picture and turn it into the clientClip for the backing version.
Adjust pixmap screen origin to account for drawable->x/y Change debugging output a bit (disabled by default)

commit 05f6329eb6f564ad4fc366d75f4ebf9f3ba4b5dd
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Fri Aug 13 23:57:38 2004 +0000

Don't enable speedo & type1 modules if they're not being built
Clean up a couple of hardcoded paths & vendor names to use defines set by Imakefile

commit 3f84e4f71d9c7c560f9bef675b1cc96fa1d83b14
Author: Kevin E Martin <kem@kem.org>
Date: Fri Aug 13 19:51:34 2004 +0000

Fix Xprt bug by disabling code that merges multiple audit messages (Bug #964, Roland Mainz).

commit 922fd3a2e568571171df6d4a94f804350829230f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Fri Aug 13 19:18:29 2004 +0000
Added $(MESASRCDIR)/src/mesa/glapi to INCLUDES. Removed $(SERVERSRC)/mi
from INCLUDES. Rearranged INCLUDES for better readability.
Removed mipointrst.h and miscstruct.h from #include since they are not used
anymore.

commit f63f4b768cd5ec5b5f6d270e448e6e51b8ad67016
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date:   Fri Aug 13 18:24:07 2004 +0000

Fri Aug 13 19:53:10 2004 Soeren Sandmann <sandmann@redhat.com>
Fix for lockups on some versions of Matrox Mystique. #687, Patch from Mike
Harris.
Call xf86EnableDisableFBAccess though the function pointer instead of
directly. #1041, Patch from Aaron Plattner.
Swap the physical size of the screen when rotation. #1050, Patch from
Aaron Plattner.
Fri Aug 13 19:47:12 2004 Soeren Sandmann <sandmann@redhat.com>
Make HAVE_FT_BITMAP_SIZE_Y_PPEM conditional on the FreeType version instead
of proping it. This way it will work with the monolithic version too.
#1062, Patch by Owen Taylor.

commit a29bfbd3d0a5d39ccee5b83ac1ba632091b031bb
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Aug 13 08:16:14 2004 +0000

Fri Aug 13 08:16:14 2004 Soeren Sandmann <sandmann@redhat.com>
Fix for lockups on some versions of Matrox Mystique. #687, Patch from Mike
Harris.
Call xf86EnableDisableFBAccess though the function pointer instead of
directly. #1041, Patch from Aaron Plattner.
Swap the physical size of the screen when rotation. #1050, Patch from
Aaron Plattner.
Fri Aug 13 19:47:12 2004 Soeren Sandmann <sandmann@redhat.com>
Make HAVE_FT_BITMAP_SIZE_Y_PPEM conditional on the FreeType version instead
of proping it. This way it will work with the monolithic version too.
#1062, Patch by Owen Taylor.

commit 24bed5cff908a6f8b1857e3dadaccc22d6db54c69e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Aug 13 07:47:21 2004 +0000

Fri Aug 13 07:47:21 2004 Soeren Sandmann <sandmann@redhat.com>
Fix for lockups on some versions of Matrox Mystique. #687, Patch from Mike
Harris.
Call xf86EnableDisableFBAccess though the function pointer instead of
directly. #1041, Patch from Aaron Plattner.
Swap the physical size of the screen when rotation. #1050, Patch from
Aaron Plattner.
Fri Aug 13 19:47:12 2004 Soeren Sandmann <sandmann@redhat.com>
Make HAVE_FT_BITMAP_SIZE_Y_PPEM conditional on the FreeType version instead
of proping it. This way it will work with the monolithic version too.
#1062, Patch by Owen Taylor.

commit 5825e4559e7aa7f3b40205a0dca49a785c8de7b92
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Aug 12 23:14:50 2004 +0000

Fix copy'n'paste-os of x/y in CopyPicture for AlphaXOrigin and ClipXOrigin.
Fix after Mesa 20040812 merge: revert glxext.h to vendor branch, and fix bug #1022.

commit 2889ad2cb8827f20b6d69da4fe99db33bf9c5ff2
Author: Torrey Lyons <torrey@mrcla.com>
Date: Thu Aug 12 20:24:36 2004 +0000

Fix crash in rootless XDarwin due to rootless being initialized before damage extension.

commit 961333143e2df3e3f33e8624fc61e79cf3e86cd1
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Aug 12 08:45:33 2004 +0000

Apply a kludge to initialize the composite wrapper before DamageSetup. If not, DamageSetup will wrap some operations first, and the cw initializes during ExtensionInit, so cw comes higher in the wrapping chain. cw going first will result in damage getting confused when the drawables get changed around.

commit 6e0228722cc2fa37a0e2359bc3dab3646b36c4b7
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Aug 12 08:11:59 2004 +0000

Fix various cw issues, including a couple reported by deronj:
- Fix wrapping of GC ops/funcs according to policy described in bug #1045.
- Remove ValidateGC/ValidatePictures on the redirected drawables/pictures
  -- it's not needed, and DDXs shouldn't be seeing redirected drawables in render or GC ops/funcs when cw is running.
- Mark all GC/Picture state as dirty when moving from redirected to non-redirected, since it hadn't been passed down in Change* or Validate* while redirected.
- Remove CreatePicture wrapper that didn't do anything.
- Comment on why AddTraps wrapper isn't needed.

commit 789cf3ed846045d91f950cb177e6fbae4c8966fc
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Aug 12 07:57:03 2004 +0000

Fix some issues reported by deronj:
- Hopefully fix a crash in compCheckRedirect on unrealizing windows.
- Remove an extern that doesn't point at anything.

commit 1a073786e0159a80ac3b8772a1d89b0618a8ff33
Author: Kevin E Martin <kem@kem.org>
Date: Thu Aug 12 05:11:57 2004 +0000
Update version and date for next snapshot

commit 47ee5f4ba72f0e0bc92a5e04073c70808e85fc08
Author: Kristian Høgsberg <krh@redhat.com>
Date: Thu Aug 12 01:57:51 2004 +0000

Add call to SourceValidate() when pDst == pSrc, so misprite.c get a chance to remove the sprite before the area is copied. The drivers handle pDst != pSrc (#1030).

commit 09d0056b8bc103f67a35980934f03d28fed51164
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Aug 12 01:30:57 2004 +0000

Wrap the Propolice fix in #ifdef __SSP__; Propolice doesn't define this yet but an RFE has been submitted upstream.

commit e30c22dbbfa2605f8d7ac010c8208a135a2293a
Author: Adam Jackson <ajax@nwk.net>
Date: Thu Aug 12 01:16:36 2004 +0000

Back out the propolice fix for a second, it causes linktime errors.

commit 9d0213525f4f692c250f10309146fe9db76ba12d
Author: Keith Packard <keithp@keithp.com>
Date: Thu Aug 12 00:09:30 2004 +0000

Paint to parent window instead of parent window's pixmap (helps for servers that don't have a pixmap for the root)
Fix offsets for render drawing.

commit c7bc76f663008119b3681d4b7ade7dc9ffdc236
Author: Torrey Lyons <torrey@mrcla.com>
Date: Wed Aug 11 23:53:36 2004 +0000

Fix leftover XF86_VERSION_SNAP macro.

commit eb607030c32cbad846696a20efb3045c5f865c1
Author: Adam Jackson <ajax@nwk.net>
Date: Wed Aug 11 23:10:02 2004 +0000

Teach the loader about the extra symbols needed for Propolice-protected modules to work under elfloader. From Travis Tilley (Gentoo).

commit fd439afdfc7ba451aff19b62d1764e4df0b782f
Author: Keith Packard <keithp@keithp.com>
Date: Wed Aug 11 22:40:14 2004 +0000
Add COMPOSITE change to fbCopyWindow (not needed yet)
Xnest was half-using midispcur and doing a bad job of it. Replace all of
that code with mipointer which does a lot of the work.
Support DDXen which don't provide GetWindowPixmap, or which return NULL for
the root pixmap.

commit f95293e5253904883d3b40f9e68e6175247754a3
Author: Kevin E Martin <kem@kem.org>

Fix bogus contact address in Xserver/os/util.c (Bug #738).

commit 56520ecd5ceb9526541e241634b467eba6a8f7cf
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Aug 11 22:13:01 2004 +0000

In CopyPicture, add missing call to ChangePicture to notify about the
changes that CopyPicture has done.

commit f77f1d50723aceb5059a96f7a4068046b7961c51
Author: Kevin E Martin <kem@kem.org>
Date: Wed Aug 11 21:14:18 2004 +0000

Apply PPC64 build patch (Bug #303, Mike A. Harris, Alan Coopersmith).

commit 3dbaeb2e126d9424b21df910be9129c4eea6f1b
Author: Kristian Høgsberg <krh@redhat.com>
Date: Wed Aug 11 20:25:13 2004 +0000

Patch xorgconfig to generate config files with correct keyboard driver; use
"kbd" by default, "keyboard" if Use Deprecated KeyboarDriver is YES
(#1040).

commit ca458e3c9b25c3efc10532eb8e31bdef44dc321
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Aug 11 13:55:03 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=492 -
/etc/init.d/xprint did not source xorg.conf for font paths additionally
to xfree86 config files

commit 81881b96861d707b0729e0146a4b53b3dd234885
Author: Kevin E Martin <kem@kem.org>
Date: Tue Aug 10 21:37:35 2004 +0000

Update version to 6.7.99.1 and fix problem with snapshot string generation.

commit 21c7c8cde7d2607177634601cfef8b0290f0e80
Fix install problem on platforms not using xorg.cf/xfree86.cf (Bug #339, Harold L. Hunt II, Alexander Gottwald).
Fix crash when using X core font in zh_CN.UTF-8 locale (Bug #368, Yu Shao, David Dawes).
Fix glXMakeCurrent(Dpy, None, NULL) crash (Bug #719, Adam Jackson).
HP-PA build fix (Bug #828, Guy Martin, Paul Anderson).
Fix SDK build for GATOS and Wacom driver (Bug #829, Bryan Stine).
Fix attempt to read video ROM before enabling it (Bug #843, Ivan Kokshaysky, Mike A. Harris).
Fix detection of primary adapter (Bug #843, Ivan Kokshaysky, Mike A. Harris).
Clarify xset man page description of how to use the keyboard repeat rate settings (Bug #846, Mike A. Harris).
Fix problem where print-screen key would get remapped to sys-req in certain keymaps, which broke GNOME printscreen functionality (Bug #847, Owen Taylor).
Fix several render problems:
- MMIO mode support
- Hang on IGP chips
- VT switching hang
- 3D render corruption (Bug #922, Hui Yu).

commit 26847ef9268f687c4f45f3d048eff4b06c2ba3bf
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Mon Aug 9 03:40:50 2004 +0000

Move the new render symbols to dixsym.c instead so they are grouped with the other render symbols.
Initialize screen_x and screen_y to 0. This fixes a problem with the new Damage based sprite, where intersection test against the root pixmap would fail because the two fields were not initialized (damage.c, 166-170).

commit 57eab4dc87670da42e645a4c341d1ee661b43b5b
Author: Kevin E Martin <kem@kem.org>
Date:   Mon Aug 9 02:08:35 2004 +0000

- Fix building without Xfixes extension
- Fix building without Xevie
- Fix building without DPMS
- Fix "Extensions" section config file support to accept general boolean options

commit a2e51b13ea5a2e5fc5626905b6c2caac6358eb11
Author: Kristian Høgsberg <krh@redhat.com>
Disable legacy keyboard driver "keyboard", unless
USE_DEPRECATED_KEYBOARD_DRIVER is defined. Print warning if the old
driver is used.

commit 3431692bf44e7be01187b421cfb0e46131c5e4c7
Author: Kristian Høgsberg <krh@redhat.com>
Date:   Sun Aug 8 17:02:19 2004 +0000

Add new render symbols to list of exported extension symbols so
DoLoadableServer works again.

commit 1e694d2bf51a954d1bc4afdde390723e9a1a5b9bf
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 7 01:23:07 2004 +0000

Fix minor timestamp lossage in mieq.
Replace miSprite implementation with Damage-based one. Otherwise damage and
mispire conflict causing looping.
Change pScreen usage around a bit to eliminate warnings

commit 45fde3b041c071ae5a604cefbbfa4da5c1e828f8
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 7 01:19:01 2004 +0000

Eliminate mfb support. Fix visuals to match "normal" PC hardware (making
lightpipe work).

commit 2bdbc2c0d39b1618440a6a8ed1c38a11703e898c
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 7 01:02:41 2004 +0000

Clean up cw initialization, make sure wrappers re-wrap on exit.

commit cff0043a347ba06e8ab16a84a35c99794b45149b
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 7 00:58:21 2004 +0000

Remove alpha-related fields from visual structure to retain binary
compatibility. Applications using ARGB visuals will need to use Render
or other mechanisms to compute pixel values instead of AllocColor

commit 196aabf19a3cfd8c8e21f9bf75814cf0d84ff4446
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Aug 6 23:42:10 2004 +0000

Add RenderAddTraps. Rewrite trapezoid rendering code.
commit e847bcda0827ff8b87689a0162c648570de6d6f69
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Aug 6 00:31:28 2004 +0000

    Fix missing ';' in cw.c and unwrap the render wrapper properly.

commit ae1580c494fde2b56f9faa40f7ebcf637728efc8
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Aug 5 18:24:58 2004 +0000

    - Add a new Render function, CopyPicture, which will update a picture with
      the flagged bits from a source picture. Approved in principle by
      keithp.
    - Use CopyPicture and SetTransform to update most of the backing picture's
      state in the composite wrapper. Filters are still missing.
    - Don't allocate a picture private, now that we calculate clipping properly
      and don't need the serialNumber or stateChanges.
    - Use the format of the source pixmap rather than generating the format
      from the window's visual.
    - Wrap the rest of the Render primitives that were stubbed out before.

commit 73e14bd611fa7ec649a2b4c7964959d9eae887b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Aug 4 23:18:38 2004 +0000

    - Always validate the backing GC in cwValidateGC, not just when the clip
      list changes.
    - Use FillTiled instead of FillSolid for painting tiled border/background
      pixmaps, and don't needlessly change the scratch GC's defaults.
    - Use the preferred dixChangeGC instead of DoChangeGC.
    - Simplify a silly loop and clean up a couple of comments.

commit d240c41a3ab9cde9921cc96c86e630ca5c9005a
Author: Egbert Eich <eich@suse.de>
Date:   Wed Aug 4 12:21:48 2004 +0000

    Optimization of CJK rendering when using versions of freetype prior to
    2.1.8 (Chisato Yamauchi).
    A small backward compatibility fix to make the freetype module build with
    freetype version < 2.1.7.
    Fixed/added some debugging code.

commit 751fd11a9ad1a473d7311362246b0869a008001b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Aug 4 10:05:37 2004 +0000

    - Add two new XAA hooks, SetupForCPUToScreenTexture2 and
SetupForCPUToScreenAlphaTexture2. These add a dstFormat argument after the previous format argument, which the driver needs to use to properly set up the destination format. Two new arrays are added for the list of destination formats supported that correspond to the previous format arrays for sources.

- Make Render acceleration only occur when the new hook for that acceleration type is supplied and the dst format list is set, along with the src format list being set. Without knowing the destination format, the Render acceleration couldn't properly support all the destinations it might encounter.

- Bump XAA module minor version.

- Update the Radeon Render acceleration to use the new hooks when the XAA module is sufficiently new. Fix a bug in the src/dst alpha booleans for ops, and use them to set blend_cntl to support destinations without alpha. Add missing PICT_a1r5g5b5 texture format, and add list terminator. (!)

commit 9c1d52a69db841ac85ef97d7223361b83a66ae29
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Aug 3 10:12:25 2004 +0000

Merge from CYGWIN branch
2004-08-02 Kensuke Matsuzaki
Fix the bug that we can't copy & paste multi-byte string to Unicode-base Windows application. Rename fUnicodeSupport to fUseUnicode, because it don't mean whether Windows support Unicode or not.

commit defcfe3c7ee3e39ef02da08b7227b758dbede325
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Aug 3 09:33:54 2004 +0000

programs/Xserver/hw/xfree86/ddc/xf86DDC.h
programs/Xserver/hw/xfree86/vgahw/vgaHW.c
programs/Xserver/hw/xfree86/vgahw/vgaHW.h
programs/Xserver/miext/shadow/shadow.h
programs/Xserver/miext/shadow/shpacked.c
programs/Xserver/miext/shadow/shplanar.c
programs/Xserver/miext/shadow/shrotate.c Fix glitches in pointer to functions declarations.

commit e6d0b18c24f7f84aaebd763be1cc8414883fab95
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Aug 3 08:52:17 2004 +0000

Fix declaration of XAACachePlanarMonoStippleProc. Rename XAACachePlanarMonoStippleWeak to XAACachePlanarMonoStipple() for consistency with other parts of xaa and fix forward declaration in xaalocal.h. Fixes last comments on Bug #962.
Major improvements to Composite wrapper. Several issues remain, but it now appears stable in limited testing.
- Allocate the picture private, avoiding segfault.
- Wrap PaintWindow to draw the background/border to the backing pixmap (based on Deron Johnson's comptran.c).
- Set the x_off/y_off returns to translate coordinates properly.
- Don't bother allocating temporary areas for the modified coordinates.
  Layers above are responsible for handling lower layers changing the arguments, so cw doesn't have to worry about it. mibstore.c has to do the allocation because it calls down twice (front buffer and backing store). (Suggested by keithp)
- Handle the mode argument to PolyPoint, Polylines, and FillPolygon.
- Remove some dead elements in the cw privates.
- Kill a prototype warning in compinit.c by adding the cw.h header.

The Damage extension has to wrap after (be called before) the Composite extension so that the redirecting of drawables by the wrapper doesn't confuse Damage.

Bug #962: Remove LoaderSymbol calls introduced by the dlloader work so DoLoadableServer NO builds work again.

Removed double cast.

Removed distro specific stuff.
Fixed FreeType module to build with FreeType versions older than 2.1.7.
Fixed typo.
Added vtSema to protect call of driver DPMS function.
removed unneeded variable
Modified RandR driver hook to reduce the number of function calls to one.
   Function is sufficiently generic to be extended in the future.

commit b759da83ae62a897b7727d9180a68b962b571286
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Sun Aug 1 16:16:18 2004 +0000

   added README for Cygwin/X
   This file currently contains the Cygwin/X specific release notes from 6.7.0
   and a first collection of what will make up the release notes for the
   next release

commit d638a50f3f039d84d86c00696d7d3ec22560bc3c
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Sat Jul 31 18:33:56 2004 +0000

   adjust prototype for winInitCmapPrivates to match Egberts change.

commit 488be6611919af97d7e4f8b0994487882eb78e18
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Jul 31 09:41:27 2004 +0000

   Fix typo

commit 383b6b59864098b03d991628ff5933d997793ea1
Author: Kevin E Martin <kem@kem.org>
Date:   Sat Jul 31 09:14:06 2004 +0000

   Add "Extensions" section support to configuration parser

commit d690556d496c7331bd112903a0c9e6553c7d3342
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Jul 31 08:24:14 2004 +0000

   Integrate COMPOSITEWRAP branch including composite wrapper. This code still
   has several issues, including:
   - CopyWindow and PaintWindow wrappers missing (will be done soon)
   - Some segfaults seen in the Render wrappers.
   - Xprt server build breaks with Composite.
   - DDXs must be recompiled for Composite due to VisualRec size change.
   - Composite bugs pointed out by Deron Johnson in email.
   Also, reorder XFixes initialization according to comments by Keith which
   are also in xservr CVS.

commit 8763cca7f9927bd6c9caf804bf09dcea929e9d0
Update xfixes server code to major version 3 from xserver CVS, and perform minor diff-reduction versus xserver CVS.

commit 25bd6ff4a622d09fb0c247b7c40281744c61431e
Author: Kevin E Martin <kem@kem.org>
Date: Sat Jul 31 04:23:21 2004 +0000

Add new extension enable/disable feature. This code is a small step in the right direction -- i.e., moving towards full run-time config of extensions. Currently, only XTEST, XINERAMA, RENDER, XKB, and XEVIE are supported.

commit 326729ebca863c99cf913445126294a3c6d3db5d
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Jul 31 01:48:27 2004 +0000

- Add some XFIXES bits apparently missed in the DAMAGE-XFIXES merge
- Add missing XCSECURITY ifdef.
- Sync some whitespace to xserver CVS and surrounding style.

commit 370bda820b2912b93dce34c088075f8e65a9e5cb
Author: Eric Anholt <anholt@freebsd.org>
Date: Sat Jul 31 01:38:46 2004 +0000

Integrate latest damage bits, including the addition of Composite code.
   Includes REGION_INIT -> REGION_NULL necessary to avoid segfaults with inlined region macros.

commit 7542d8a17ad469f9c760f0f843bd6a4fb6deb57d
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date: Sat Jul 31 01:37:47 2004 +0000

Turn on XEVIE https://freedesktop.org bugzilla/show_bug.cgi?id=947 Modified Files: miinitext.c

commit b2065f376b932e49f1f96dfb92dd52d15796abe
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date: Sat Jul 31 01:34:26 2004 +0000

Integration of XEVIE branch to trunk, latest updates
   https://freedesktop.org bugzilla/show_bug.cgi?id=947 Modified Files:
      Imakefile xevie.c

commit e68bc801680f2852c59099aa3d7502e49b48b2c
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date: Sat Jul 31 01:33:40 2004 +0000

Integration of XEVIE branch to trunk, Some updates from latest reviews
https://freedesktop.org/bugzilla/show_bug.cgi?id=947
Modified Files: events.c

commit 706b2a7e02aa0085769f87782118488d0f90eaa
Author: Adam Jackson <ajax@nwnk.net>
Date: Sat Jul 31 01:21:19 2004 +0000

Change several LoaderSymbol calls introduced by the bug #400 patch to *Weak() resolver functions.

commit 9e13805b02f37497971c789b4035abc29463c550
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date: Sat Jul 31 00:44:45 2004 +0000

adjust prototype for winInitCmapPrivates to match Egbert's change.

commit 4da507a03fd5659e5944d9e47dd2f8920636383b
Author: Kevin E Martin <kem@kem.org>
Date: Sat Jul 31 00:32:43 2004 +0000

Fix compiler warning

commit 64a6d3e9c84a36b4e0550d112f288b695c5056cd
Author: Hui YU <hyu@ati.com>
Date: Fri Jul 30 22:20:21 2004 +0000

Support for New radeon chips: R420/M18, R423, RV370/M22, RV380/M24, RS300.
Add special handlings for DELL triple-head server (RV100). Misc. bug fixes for flat panel, host aperture, etc (Bug #946)

commit d3c98fed2c37a863a6765a3e288bcdbe2738878a
Author: Egbert Eich <eich@suse.de>
Date: Fri Jul 30 21:53:09 2004 +0000

Add support for on-the-fly screen rotation when supported by hardware (Aron Plattner).

commit 4baf0029418d3eeec5d1026a7cfe31023ae44e48
Author: Egbert Eich <eich@suse.de>
Date: Fri Jul 30 21:46:38 2004 +0000

An experimental pseudocolor emulation layer. Not fully completed, currently only works for 16bpp.

commit 63a152f7812d0981e3e7aa41a42e59cd0c3e50dc
removing some unnecessary restrictions on the allowed visuals.

commit 0ba15599466d5bb594728c5668e64e05b1317ac2e
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jul 30 21:39:20 2004 +0000

Adding a colormap index to the InitColormapPrivate() func call. Without it it was completely useless.
test if colormap with index really exists in the list of installed maps before using it.

commit bbfe7bed3fe4d9b089327cd59e6faed3b592dabb
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jul 30 20:56:53 2004 +0000

Set DPMS to ON when VT switching away or shutting down the server. Failing to do this may leave the text console blank.

commit 40b975e3acb1ec1c1e4c5984f5efa20b669489
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jul 30 20:51:09 2004 +0000

Improved error messages.
build fixes for AMD64.
Made shm* functions in the libc_wrapper more standard conformant by setting errno correctly.
Use xf86ExendedInitInt10() in VBEExtendedInit() to be able to pass flags.

commit 7643199de1c4f12a2aadeaf2d539a37ddc45672b
Author: Egbert Eich <eich@suse.de>
Date:   Fri Jul 30 20:38:27 2004 +0000

Fix static build.
add i845 to the list of chips that allow memory size tweaking.

commit 48514fee3c88e42f36e142f69272e510b9a4238
Author: Adam Jackson <ajax@nwk.net>
Date:   Fri Jul 30 20:30:57 2004 +0000

Bug #400 (partial): Driver fixes for the dlloader. When using dlloader, all framebuffer formats except cfb and the overlay modes should work, and r128 and radeon need to be loaded from the ati driver (both issues to be fixed soon). Tested on i740, s3virge, mach64, tdfx, vesa, and vga drivers. elfloader users shouldn't be affected.
Add generic rootless layer documentation missed from last commit.

Merge many XDarwin improvements:
- Fix launch of X clients by double clicking in the Finder when there is a space in the path (Torrey T. Lyons).
- Interpret scroll wheel mouse events correctly when shift is held down (Benjamin Burke).
- Add option to always use Mac command key equivalents (John Harper and Torrey T. Lyons).
- Add support for dynamic screen configuration changes in rootless mode (John Harper and Torrey T. Lyons).
- Add documentation on generic rootless layer (Torrey T. Lyons).

Removed bugs on TweakMemorySize() which prevented it from working at all. Initialized last element of BIOS version number string to 0 to avoid random problems.

Fixed typo in a comment.
Deleted bogus comment.
Added debugging support.

Add initial Xinput support for XDarwin (Greg Parker).

Make XDarwin not default to StaticColor on ix86 (Shantonu Sen).
commit f4c84e7dbf0f25a2544d4400e600310421683f3c
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Fri Jul 30 12:03:56 2004 +0000

Fix for http://xprint.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=940
- Filter /etc/init.d/xprint through CPP/|MakeScriptFromCpp()| to allow
platform-specific customisation.

commit ed923a42b800e3f701084ef5828cabbbe8361f
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:41 2004 +0000

    file cw_render.c was initially added on branch COMPOSITEWRAP.

commit 69e379ddaf85fed6a163b5f4e855f8e86b254df
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:41 2004 +0000

    file cw_ops.c was initially added on branch COMPOSITEWRAP.

commit 0ee93acd103af947f0a28e32b5b3f2857789bf
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:40 2004 +0000

    file cw.c was initially added on branch COMPOSITEWRAP.

commit 3bdaa0e7fa7bf65d550907d5fe7d0fb16c53e243
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:40 2004 +0000

    file cw.h was initially added on branch COMPOSITEWRAP.

commit 94e1ea569171334eb40a2d4a63138c02915203db
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:40 2004 +0000

    file compwindow.c was initially added on branch COMPOSITEWRAP.

commit 705536d04c4f09c84abb04827c07b899584f399d
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:40 2004 +0000

    file compinit.c was initially added on branch COMPOSITEWRAP.

commit b80d8d886d7cc3a72772f3231a8c888df7f6679f
Author: Eric Anholt <anholt@freebsd.org>
Date: Fri Jul 30 06:54:40 2004 +0000
file compalloc.c was initially added on branch COMPOSITEWRAP.

commit beh26caf68d3e25bf85fd63dbb499eca4b1f05ba
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Jul 30 06:54:40 2004 +0000
ile compext.c was initially added on branch COMPOSITEWRAP.

commit 97afc846003bb521cf9d6e92b298024d83db8759
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Jul 30 06:54:40 2004 +0000

file compint.h was initially added on branch COMPOSITEWRAP.

commit 854c1afa867ff617b47c4cde3cfd86bd26e9931a
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 30 04:44:13 2004 +0000

Fix "DoLoadableServer NO" build

commit 71164d118c192e96eb2b0fc45514233e9563a568
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Fri Jul 30 01:21:57 2004 +0000

Integration of XEVIE branch to trunk
    https://freedesktop.org/bugzilla/show_bug.cgi?id=947
Modified Files: cursorstr.h input.h inputstr.h windowstr.h

commit 82a6a659248bb66a0364eb9eaf331747834fb5c6
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Fri Jul 30 01:20:42 2004 +0000

Integration of XEVIE branch to trunk
    https://freedesktop.org/bugzilla/show_bug.cgi?id=947
Modified Files: Imakefile Added Files: xevie.c

commit dd7077cadec323e1a301ed5eefa7ff12599aa4d
Author: Kevin E Martin <kem@kem.org>
Date:   Fri Jul 30 01:15:57 2004 +0000

Cleaned up code since client's saveSet is no longer defined as a pointer*
    (forgot one change in previous check-in)

commit 813d75f9d3c7b540977926e37310fa683daf12e1
Author: Kevin E Martin <kem@kem.org>
Date:   Thu Jul 29 23:43:40 2004 +0000
Use LibraryTargetName when not building a loadable server
Move extern function declarations to window.h
Cleaned up code since client’s saveSet is no longer defined as a pointer*
Added externs back in
Change #if to #ifdef to fix compiler warning
Add function declarations that were inadvertently removed by previous check
in
Disable extensions that are not (yet) supported by DMX

commit 274d5044ac41523ff23912c223177c429c710e09
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 18:49:42 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
https://freedesktop.org/bugzilla/show_bug.cgi?id=859
Modified Files: Imakefile miinitext.c

commit 406c49eb810cbdfcfd833c4e6a465598238691
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 18:46:37 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
https://freedesktop.org/bugzilla/show_bug.cgi?id=859
DAMAGE calls some shape functions. Modified Files: Imakefile shape.c

commit 0bca00e1205bf1a4537cbf7be6339b3b1f9b953f
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 18:43:58 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
https://freedesktop.org/bugzilla/show_bug.cgi?id=859
Modified Files: dispatch.c dixutils.c events.c window.c

commit d4a101d4ef9943dcdff08b00b2d3ab4319597193
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 18:37:54 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
https://freedesktop.org/bugzilla/show_bug.cgi?id=859
These RENDER changes come from the experimental freedesktop tree formerly
known as "Xserver". Partly motivated by compatibility with DAMAGE as
pulled from that tree, also some of the code just is better
implemented.
Modified Files: filter.c picture.c picture.h picturestr.h

commit e1281790bb3d7cdcc5de85829806dd53da67e326
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 18:16:56 2004 +0000
Integration of DAMAGE-XFIXES branch to trunk
   https://freedesktop.org/bugzilla/show_bug.cgi?id=859
Modified Files: cursorstr.h dix.h dixstruct.h regionstr.h window.h

commit d2f798b6dbaebd0300f42c2e083a962c37647620
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 14:42:24 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
   https://freedesktop.org/bugzilla/show_bug.cgi?id=859
Modified Files: cursorstr.h dix.h dixstruct.h regionstr.h window.h

commit 682ee8a9f8d55c6a6f517a277d1bfad2a0f28594
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 14:40:33 2004 +0000

Integration of DAMAGE-XFIXES branch to trunk
   https://freedesktop.org/bugzilla/show_bug.cgi?id=859
Added Files: Imakefile damage.c damage.h damagestr.h

commit 6ed1c3845517c7731dce74baa51bb801838afaff
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Jul 29 14:33:43 2004 +0000

bugzilla 859 -merging DAMAGE-XFIXES into trunk

commit 736e511824c4f5e77e637c680a4e45f0b7631644
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Jul 28 03:57:19 2004 +0000

Fix shared reqs for Xlibi18n, Xaw6 & Xmux for Solaris
Improved support for Compose and Kana Lock LED's on Sun keyboards
Add event definitions for additional keys on Sun Japanese keyboards
VUID mouse protocol support for Solaris Make default mouse message clearer
   on machines that use a default other than /dev/mouse.

commit d374dfb20364a3df184cc28888ee7edbe50f474
Author: Rik Faith <faith@alphanull.com>
Date:   Wed Jul 28 00:28:00 2004 +0000

When using DMX console input, make detached screens display as grey (vs.
   white for attached and black for dead-space).

commit 1498414cc85c148ef15b9b57d9f9b6b850bf2702
Author: Torrey Lyons <torrey@mrcia.com>
Date:   Tue Jul 27 20:26:47 2004 +0000

Fix Xprint build on Darwin.
commit ddd58356123f61b863754eb0bd42a8defa0461b
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Tue Jul 27 20:24:00 2004 +0000

Fix XDarwin's broken build of libGL and server side GLX. GL library is only
known to build correctly on Mac OS X 10.3.4 and still needs some work
for earlier versions.

commit 8ef3e7052e8e1db869411e9f6fc88491e3f05474
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 27 09:53:14 2004 +0000

Merge latest changes from CYGWIN branch
Use find | xargs combination instead of simple shell globbing to prevent
commandline argument overflow

commit a12a678bc9af8df1a3078f574b0c910e3e6983f8
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Tue Jul 27 06:20:52 2004 +0000

Fix a bug that caused an entire batch of events to be thrown out when one
of an unknown type is encountered. (Ty Sarna, NetBSD).

commit 19002e47af0dbf55e035b674116a533ec9814edfa
Author: Alex Deucher <agd5f@yahoo.com>
Date:   Tue Jul 27 02:50:41 2004 +0000

- enable maven support for TV detection, DPMS, and DDC on crtc2 on G400
  (Ryan Underwood) (http://bugs.xfree86.org/show_bug.cgi?id=1098)
- expose I2CStart; needed for mga maven support (Ryan Underwood)

commit 2a7b137d41eb8ce6efc45b47b5df0c89eb4f5d93
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date:   Mon Jul 26 22:41:47 2004 +0000

remove extra ';' (Alan Hourihane, Keith Packard).

commit 799208d4a65b18dda97b4843a27a2628f955f4
Author: Adam Jackson <ajax@nwnk.net>
Date:   Mon Jul 26 19:06:04 2004 +0000

Bug #377: Make lib{glx,GLcore,dri} work when compiled as dloader modules.

commit f15f881727cee9a879bd43be8dc849320f8d3cbd
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 26 17:14:27 2004 +0000
Eliminate bogus rate check in fbdevModeSupported. Hmm. Potentially bogus rate selection necessary for Mac fbdev.

Don't know about fb changes to pixmaps, so can't track dirt.

Add Mac specific 1280x854 mode. Warn when requested mode isn't found.

Add ability to soft-boot video cards.

Add region expand request. FIXME: need test cases

commit 20913b7d5da90e0f7ad1ee967ad2f0daae40f9
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sat Jul 24 17:35:39 2004 +0000

Fix a problem with wsmouse driver loosing events on 64bit architectures
(XFree86 Bugzilla #1438, John Heasley). "To fix this, I've added a mouse buffer (Xisb buffer) "scale" value to the MouseDevPtr type. If set, it is used as structure size of which we want space for a few."

commit c57944cd9aaac717d4d4ada44626e35925b39bbd
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jul 24 17:02:49 2004 +0000

Check for mmio before restoring crtc/crtc2 pitch registers

commit 5fdf88b95e8f90221a46717c2f84715ab38460c
Author: Matthieu Herrb <matthieu.herrb@laas.fr>
Date: Sat Jul 24 16:32:39 2004 +0000

Bugzilla #884: OpenBSD/amd64 support.

commit cc3e0173d9fafa8a40eb46606d9951e3aa1df975a
Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
Date: Thu Jul 22 19:24:50 2004 +0000

Thu Jul 22 20:03:11 2004 Soeren Sandmann <sandmann@daimi.au.dk>
Call MMX solid fill routine when available.
Call MMX operations when available.
New HasGcc34 macro
New file with many operations implemented with MMX intrinsics, conditional on having GCC 3.4 on i386.

commit 9565d9e0cf85e6f5fb47acebdd66212bd6cc3e08
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jul 22 18:17:59 2004 +0000

Correct pitch so that accelerator can run on 1400x1050 screens. Add a few more register sets for cursors.

commit 67dbad6b3b9163eafa7d9dd7698708e10372a21
Author: Eric Anholt <anholt@freebsd.org>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  36789

Date:   Thu Jul 22 06:48:19 2004 +0000

DRM 20040721 import

commit 829b2c72a6433ebaf63f2d2726259c73cca4bd1a
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Jul 22 06:48:19 2004 +0000

    Initial revision

commit 448e0754e369d433a61ae337bbfd7dba195c5e69
Author: Phil Blundell <pb@reciva.com>
Date:   Wed Jul 21 20:33:35 2004 +0000

    Include -lts if appropriate. Patch from pattieja@bentham.ispvip.biz.

commit 0c32a94623b13dd1ac5b015b465bd890f498282
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Tue Jul 20 15:15:13 2004 +0000

    Bugzilla #889: Bind -from address to port number 0 instead of 177

commit 07e6011106dcfa0ab69861aa7dcbb88382625c16
Author: Phil Blundell <pb@reciva.com>
Date:   Tue Jul 20 14:33:42 2004 +0000

    Select optimized

    16bpp shadow copy functions if screen is 16bpp. Select -YX versions for
    90 and 270 rotations if architecture is ARM.

commit 797114414096d7bf7ed0d73a878d0cffe262301
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Mon Jul 19 22:01:52 2004 +0000

    Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=893 - Fixing the
    bug that Xprt did not honor ${LC_ALL} when looking for model-config
dirs.

commit 8853f9331826899229e5b7c964e9e852c0371ce5
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Jul 19 12:07:01 2004 +0000

    Add support for a8b8g8r8 and x8b8g8r8 pictures, which showed up frequently
    with metacity usage.

commit adf4b38f49da063576b48f9c0750b78bb753b3de
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Jul 19 11:42:49 2004 +0000
Breakage in last commit to this file: pCurPriv->area isn't set up until Enable, these days.

commit d2e74e419d2c75c5a5b97236d2714730e6f69ee0
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Jul 19 11:19:12 2004 +0000

Set the right number of texture coordinates for r200 Render support (still disabled, needs to be tested).

commit cefcb7f123c962c3715b0c46f30430e87c82a017
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Jul 19 11:16:13 2004 +0000

- Add Radeon picture transform support.
- On R128, don't refer to an old Composite's mask transform when the current Composite doesn't have a mask.
- Staticize some global variables in r128_composite.c.

commit 9fe216a45836b98b5aea55725019668de3900e83
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Jul 19 07:53:54 2004 +0000

Use the offscreen memory manager as much as possible to do the reservation of memory at startup. Do some drive-by cleanups while I'm here (sorry!).

commit e2bb9f38cdeb74fd7630f4efe310ad14d597171e
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Jul 19 07:20:01 2004 +0000

Add support for transforms of textures on R128.

commit c04264727860cbe2e276e1934d6700d0baaf9f73
Author: Rik Faith <faith@alephnull.com>
Date: Sun Jul 18 22:19:33 2004 +0000

Addition of console input after removal of core backend input that is not on screen 0 can cause a segfault. Fix by preventing reinitialization of detached inputs. When Xinerama is active and screen 0 is detached, pixmaps for XGetImage must be obtained from another screen.

commit 0add0d499046fc8a6cde18fc41d34cac2ba77ea
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Sun Jul 18 05:21:20 2004 +0000

Fix for http://freedesktop.org/bugzilla/show_bug.cgi?id=858 - Fixing the
problem that clients cannot use the TrueColor visual without calling
[XInstallColormap();].

commit 7f9e263658b1c9e435db851a8af904a2f584d13
Author: Kevin E Martin <kem@kem.org>
Date: Sat Jul 17 20:44:14 2004 +0000

Revert change to MAXFORMATS to maintain binary compatibility

commit c47a1bdd7463b6863018e2c4237acfd28b89f38f
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Jul 17 01:13:31 2004 +0000

Fix typo in debug message in MakeAllCLTSServerListeners
Add $(GETPEER_DEFINES) to DEPEND_DEFINES for makedepend
Add "localuser" and "localgroup" access types to server-interpreted
authentication scheme.

commit 3e52373fc8179a59efe9e7ab22ce0cb5160d0409
Author: Carlos Romero <kcrashcore@bellsouth.net>
Date: Thu Jul 15 09:56:40 2004 +0000

Enable i810.

commit aeb78ea980ac93f6af3e947ab1ad8bce5bc5bd1
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jul 8 08:21:25 2004 +0000

Commit the rest of the dirty optimization from 20040703 and add a missing
header include. I don't know how this happened, but I'm going to blame
a "few" fscks having happened between testing the code and committing
(due to other driver changes that made me not blame dirty for the
failures I saw) for disappearance of kasync.c changes. Fixes a lot of
corruption.

commit b46767352822b09e5dab8b54ecbb7a37a9b62de53
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jul 8 06:57:58 2004 +0000

Remove duplicate protos in kdrive.h.

commit 764d9e822b01fdfe3ff088028959cbc48b349026
Author: Carlos Romero <kcrashcore@bellsouth.net>
Date: Wed Jul 7 20:43:25 2004 +0000

missing xkb/[xkb.h, xkbDflts.h] and hw/kdrive/mga/g400_common.h

commit f96ef08d48b0f6119799ede9ff43d0134cbf8b
Initial kdrive XKB/XINPUT support, use --enable-xkb --enable-xinput

commit a5c9b3229ce418a5e3eacc40b7a7f11c0a26d958
Author: Rik Faith <faith@alephnull.com>
Date: Wed Jul 7 04:32:52 2004 +0000

Bugzilla #817

commit 1498d7a096f0855fa965585acd9ca4a2780ce959
Author: Kevin E Martin <kem@kem.org>
Date: Tue Jul 6 23:51:00 2004 +0000

- Disable building DMX on OSs that have not been verified to build correctly (Kevin Martin).
- Fix DMX build when Xinerama is not enabled (Kevin Martin).

commit 0e45f2a7536bf4b66d6f64d96b44431310884af3
Author: Egbert Eich <eich@suse.de>
Date: Tue Jul 6 14:49:13 2004 +0000

ifdef'ed some IA32-only assembler statements. Presently these chipsets are IA32 only, anyway (Egbert Eich).
Disabling generic VGA testing for IA64 architectures. Temporarily disabling support for ZX1 bus. This code is extremely invasive and is executed as fallback without testing for a ZX1 chipset. It brings a SGI Altrix to a grinding halt. (Egbert Eich).

commit df2b55a25b7056ac92c1f6cbee9f16bd0a37ba8c
Author: Egbert Eich <eich@suse.de>
Date: Tue Jul 6 14:37:48 2004 +0000

Separated Intel drivers from default DriDrivers to avoid building them on IA64 (Egbert Eich).
Fixed wrong function prototype (Egbert Eich).
Don't test for generic VGA on IA64 (Egbert Eich).
Fixed a segfault when accessing a structure before verifying the pointer exists (Egbert Eich).
Added a showcache option for debugging (Egbert Eich).
Increase default video RAM size to 16MB when DRI is enabled and more than 128MB are available (Egbert Eich). Fixed lockups during mode switch. Problem was introduced when attempting to copy the behavior during LeaveVT()/EnterVT() but but forgetting to call I810DRILEave() before I810DRIEnter(). The entire DRILEave()/Enter() scenario has been commented out as it didn't seem to be necessary (Egbert Eich).
Fix TweakMemorySize() (tested with i855/i865) (Egbert Eich).
increased MAX_DEVICES to 128 (Egbert Eich).
Use OS provided PCI config space access as default method (Egbert Eich).
Added support for Linux 2.6 proc file format.
Fixed unaligned accesses to pieces of the VBE info block. VESA did not
align elements to size (Egbert Eich).

commit 7c466d64c34e68e0bc50e083861874161ae02db9
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Jul 3 10:23:03 2004 +0000

Clean up Rage 128 composite code. Now it composites more operations
correctly and is simpler.

commit 020701566916c8569f5af7f2efe1de36fe2002e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Jul 3 09:16:30 2004 +0000

Add a "dirty" flag to the pixmap private. Clear it when setting up an
offscreen pixmap area, and set it when any rendering occurs. When
moving a pixmap out of offscreen, don't read data back if it wasn't
dirtied (compared to the system memory copy).

commit fd594b0559caa98ee0823be956aefc9d2e52bc
Author: Phil Blundell <pb@reciva.com>
Date:   Fri Jul 2 21:30:00 2004 +0000

Call ts_read multiple times, to avoid events getting stuck in the pipeline.

commit 7976ee51afcad41b611e642d2feb31d805dedcf6
Author: Kevin E Martin <kem@kem.org>
Date:   Wed Jun 30 20:06:56 2004 +0000

Add Distributed Multihead X (DMX) support

commit d5db59bd79f5d8788b99056bf9d969b53ad99e1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Jun 29 20:37:51 2004 +0000

Add an offscreen area scoring to improve choosing offscreen areas to kick
out when allocation can't find a free area of the requested size. When
offscreen pixmaps get used, the offscreen area's score is increased by
a constant value. Every certain number of increases, all offscreen area
scores get decreased by a fraction. When choosing a set of areas to
remove for a new allocation, the set of areas with the smallest total
score is chosen for removal. While this is not the smartest system, it
prevents things like always removing the first offscreen area in memory
(likely the most recent) to be kicked out when doing replacing.
Add GLX_ALIAS_VOID for GLX_ALIAS of functions with return type void to fix builds with non-gcc compilers that refuse to let you do return function_that_returns_void(...) programs/Xserver/hw/xfree86/os-support/shared/sigiostubs.c Remove includes of xf86drm.h that break non-DRI builds

Separate out off-screen allocation from Init. Fix Enable to update off-screen addresses. Wrap RandR to update off-screen addresses. Set off_screen_base and memory_size fields correctly.

Add ARGB cursor support for Radeon cards.

#Bug 784: Ignore unconfigured interfaces with xdmcp

#Bug 780: add RRSetScreenConfig

Fix for http://xprint.freedesktop.org/bugzilla/show_bug.cgi?id=791 - Adding special support for Canon C3200N

Fix for http://xprint.freedesktop.org/bugzilla/show_bug.cgi?id=660 : Fix
for the issue that GetPrinterList does not return printer descriptions on Solaris. The patch implements a framework which allows the printer enumerator scripts to pass additional printer attributes to the information pool (currently only "xp-printerattr.descriptor" is implemented).

commit 884908a63c624585c9b5f5c22d565236298c2916
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Jun 22 10:18:13 2004 +0000

Fix for http://xprint.freedesktop.org/bugzilla/show_bug.cgi?id=789 : Adding a workaround for the issue that Xprt may hang when the CUPS spooler frontend sends messages to stdout.

commit c66cc2a219e860ae3c0b5d4ad18b22a6dc4e16df
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jun 21 13:51:57 2004 +0000

   Bug 783: rootless patches for cygwin

commit ed7f92e791f052d64c4efff4b44eae5160fb24689
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jun 21 13:44:14 2004 +0000

   Bug 778: add ddxBeforeReset

commit 68d92cca1a696521599db6a826d2187ec0c15f01
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jun 21 13:35:05 2004 +0000

   Bug 782: Merge native OpenGL for Windows from CYGWIN branch

commit d6e8babf73cc7351549c0006cc63b67923091cdd68
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Jun 21 13:19:32 2004 +0000

   Bug 777: Merge from CYGWIN branch

commit d6dbb60bf5f613b3554d5435f8f16bde72a353
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Mon Jun 21 00:29:46 2004 +0000

Fix for http://xprint.freedesktop.org/bugzilla/show_bug.cgi?id=772 - RFE: Switch default resolution from 300DPI to 600DPI

commit dd831c7a5c1b0c540a78350aadaeb34a8a67395
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat Jun 19 21:56:01 2004 +0000
Refix for http://freedesktop.org/bugzilla/show_bug.cgi?id=764 : Rework previous solution and make Xprt to default to "-noreset" (the default of Solaris version of Xprt) and add a "-reset" option which can be used to restore the default behaviour on demand.

commit da78a4ddd833f78baf1d2579a1adea8208016dd
Author: Damien Ciabrini <braun@club-internet.fr>
Date: Wed Jun 16 21:36:54 2004 +0000

Update MGA composite patch commit. (some files were missing in the previous commit)

commit e56e24af252bd3b8e58076adf0f8eabf1103f187
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:37:59 2004 +0000

Merge DRI-trunk-20040613 changes in programs/Xserver/GL.

commit 2e1868b560315a8b20d688e46c489a5ad93eeae
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:25:21 2004 +0000

DRI trunk-20040613 import

commit f45c46c630855e8e0d1c28b1f0d3b2ad54334619
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:25:15 2004 +0000

Initial revision

commit 22bad9474b8822f03f84a8a39edce624bf9befa
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:22:17 2004 +0000

DRI XFree86-4_3_99_12-merge import

commit 1c133c27ccc1f09b95922fdece3c8d73cc182def
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:22:05 2004 +0000

Initial revision

commit b61ff0daa4bd1e3b828dc5b985c3a2f3c92b202e
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:16:01 2004 +0000

DRM 20040613 import
commit bcc1eab1fd57e8cb686d625934a6e527b7ae4ea2
Author: Eric Anholt <anholt@freebsd.org>
Date: Wed Jun 16 09:16:01 2004 +0000

  Initial revision

commit 580b9a7da1b0e20aedcdddd676d471b3d6589023
Author: Jaymz Julian <jaymz@artificial-stupidity.net>
Date: Mon Jun 14 08:43:57 2004 +0000

    MGA composite support from Damien Ciabrini - thanks!

commit 95d65cf6bb753d10f4dbd857fb98b09389228e
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Jun 13 04:50:21 2004 +0000

    Manual page X(7) does not reference Xprt(1x), xplsprinters(1x), etc.
    xc/config/cf/Imake.rules Correct comment to match rule name for
    InstallDriverSDKObjectModule
    xc/programs/Xserver/hw/xfree86/os-support/sunos/sun_kbd.c Log results of
    ioctls to probe keyboard type & layout

commit 4ffde8a6b3299f002c10b1ad881e4c6849767ea
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jun 10 19:22:58 2004 +0000

    - Pass the right pixel mask (all ones) in to PrepareSolid in the
      solid-fill-based composite acceleration.
    - Use a real pixmap when doing an UploadToScratch (For pDrawable->type ==
      DRAWABLE_WINDOW, you need to get the backing pixmap).
    - Pass back the x/y offsets from kaaGetOffscreenPixmap unconditionally,
      because they'll be used in the scratch case.
    - Turn on the Render acceleration for Rage 128 and Radeon 100-series at
      last!

commit c3bc6dd551436d5e37a07f37b3b77a83bb5b5da0
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jun 10 09:50:59 2004 +0000

    Align scratch area offsets to the offscreen byte alignment.

commit cf3f95d2164604047866b283fe0071574bf16dbc
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jun 10 08:37:28 2004 +0000

    Oops, testers reported that the last patch actually didn't work (conflicts
    occurred), so the R300 PDMA doesn't work. Disable.
commit 0b7647ee359537953b67b0dbf9daa807e356062b
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jun 10 05:57:31 2004 +0000

Bug #242: Fix setup of R300 cards, by providing R300 CP code from volodya-project and initializing PDMA.

commit b3a18ca8b827cfe2ebeb2950a3a9776028242e1a0
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date: Mon Jun 7 05:13:29 2004 +0000

Neomagic driver enabled

commit 893ea125597f3c6273f45a51673d4dc514e754e9
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date: Mon Jun 7 05:05:10 2004 +0000

small fixes. README added

commit d9cca52feba13b69f3eea9e1d958b8a4711e7d67
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jun 4 17:06:18 2004 +0000

Add (stubbed out) Xgl server code

commit f8a1dd3ce725195baa6f38a880299752c6c6c2c4
Author: Keith Packard <keithp@keithp.com>
Date: Fri Jun 4 16:10:50 2004 +0000

Add top-level build support for GL X server (not working yet)
Fix a few allocation bugs with alternate visual ids Allow for non-8/8/8 alternate visuals
Turn off any existing shadow before enabling it again (avoids re-registering existing damage)
Add some validation code to catch re-registered damages

commit 6741fadc52598af0096f106a2cefd640abb434b3
Author: Phil Blundell <pb@reciva.com>
Date: Wed Jun 2 20:49:50 2004 +0000

New conditional. (REQUIRED_MODULES): Demand xcalibrateext if building XCalibrate.
New file.
Add xcalibrate.c.
Read raw events if requested.

commit d4d0c8470e4272dec642ab4c68f44a83cda06971
Add -lts if using tslib.

commit 8124810950d7e0b9db7f66dadee7218b0c26c4c3
Author: Carlos Romero <kcrashcore@bellsouth.net>
Date:   Sun May 30 13:51:18 2004 +0000

Initialize permedia engine for acceleration to work.

commit ea1bbf8d83d37800c5ec5eb5dfe4f80b19863cee1
Author: Ralph Thomas <ralph@68k.org>
Date:   Sat May 29 12:15:46 2004 +0000

Adding driver for VIA CLE266 graphics chip. Currently it only accelerates
  copy and fill operations.

commit 6af411b02e808220d3afceef14aabb97ee86cf1f3
Author: Daniel Stone <daniel@fooishbar.org>
Date:   Fri May 28 04:56:49 2004 +0000

Hey, I like devfs.
  Try /dev/fb/0 if /dev/fb0 fails.

commit a7b42f685e7a4bf57ef89a3ef664a581ec68b50f
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Thu May 27 14:11:42 2004 +0000

  file ChangeLog was initially added on branch CYGWIN.

commit 05a3dbf5dc55ea534ce68fd9d05b3949805a0752e
Author: Egbert Eich <eich@suse.de>
Date:   Wed May 26 17:44:29 2004 +0000

  Updated x86emu and resynced with upstream at Scitech.

commit 9549f628e066396e6be9a7edfe919bd6860f170
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Tue May 25 20:33:46 2004 +0000

  getconfig: file '/usr/X11R6/lib/X11/getconfig/xorg.cfg' has bad signature
    (Change "Xorg Project" to "Xorg Foundation" to match getconfig script)
Add pm2 to the build

commit 32d0920ef9ec3c5e61089b88dedc82ffab294276
Author: Carlos Romero <kcrashcore@bellsouth.net>
Date: Mon May 24 19:31:41 2004 +0000

Initial import of Permedia2 driver

commit 5b2211ee3545f1634f807daf84b6c4bc2c0fdecf
Author: Egbert Eich <eich@suse.de>
Date: Mon May 24 19:05:01 2004 +0000

Muffle compiler warnings.
fix option name in log message.
improve debugging messages.

commit 932efe8e6d4e6280aed9b5e25af56888c964d37b
Author: Keith Packard <keithp@keithp.com>
Date: Fri May 21 03:32:27 2004 +0000

Allow for multiple composite-based visuals, then add an RGB24 visual in addition to the ARGB32 one. This allows 'glitz' to run on top of any X server using mesa.
Switch to using 32bpp for depth 24 pixmaps (even when the frame buffer is not depth 24).

commit cde51fd05b2bd413d8db8ad750e6a72398a7039c
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 20 19:51:45 2004 +0000

Miscomputing pitch in 24bpp modes because of rounding errors.

commit b9d920f3dc060d230a4a7b2d40210524ac50666
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 20 05:27:03 2004 +0000

Fix SYNC_ALWAYS (debugging) code to use mach64WaitIdle instead of KdCheckSync -- the boolean used in the latter won't be set yet.
Oops. == instead of =.
Must sync hardware before rasterizing trapezoids in case the mask is in off-screen memory and has just been erased. Yes, it is silly to place masks in off-screen memory. That's a separate issue.

commit 94648799c82e59166155ca5abf22a9391693e6a1
Author: Keith Packard <keithp@keithp.com>
Date: Thu May 20 02:42:20 2004 +0000

Pin header-only pixmaps in memory.
Off-screen reallocation could have used a stale pointer.
Separate framebuffer mapping computation from actual frame buffer mapping.
Now map the frame buffer from vesaEnable so that VT switch shares the same mapping code. This makes sure any shadow framebuffer is allocated again.

commit cade317d31dddab61199d5e90bceff36fb12f3cd1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon May 17 20:18:02 2004 +0000

Overhaul of the ATI driver:
- Add monochrome hardware cursor support.
- Try to auto-detect AGP support for DRI on Radeons. And fail. Detect it properly on R128.
- Set up card for pseudo-DMA if possible. Convert 2D rendering code to
  prepare DMA packets only. Use generic code to decode DMA packets to
  MMIO if PDMA is unavailable. Add WIP code to support "real" DMA without
  DRM support.
- Dispatch pending DMA commands when the server sleeps. Otherwise some things, such as typing in an xterm, wouldn't show up for a time.
- Fix Radeon Composite acceleration in many ways, and add Rage 128
  Composite acceleration. Disable them both due to still-not-understood issues they have. They fail with In, Out, AtopReverse, and Xor, and text rendering is strange.
- Add textured XV support for R100 and Rage 128. No brightness/sat controls, but it does support multiple ports, and cooperates with Composite.
- Add WIP code for hostdata uploads.
- Many cleanups and fixes.

commit 834537e212e01314b60737278b7abc6bb7cef102
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon May 17 07:19:49 2004 +0000

Make kaaMoveInPixmap public. This will be used by the ATI driver's xvideo support to ensure that the destination is in framebuffer.

commit 85f46e0bcdf60d145a68688ee71d10688c9113e6e
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon May 17 07:14:23 2004 +0000

Add new CheckComposite hook. This allows a driver to avoid the migration of pixmaps for a Composite operation if the operation can't be supported. This hook is optional.

commit 47fb207c8ae2b54e976066f78892a1ee3fb35d30
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun May 16 05:08:39 2004 +0000
xc/programs/Xserver/fb/fb.h
xc/programs/Xserver/fb/fboverlay.c
xc/programs/Xserver/fb/fbscreen.c
- Change #ifdef for checking for old format miScreenInit to
  FB_OLD_MISCREENINIT for easier portability to xservers with updated
  screen structs but old function prototypes. Make it automatically
  defined if FB_OLD_SCREEN is defined.
- Add _LP64 to list of #ifdefs for 64-bit platforms to support
  64-bit Solaris.

commit fc2dd516c3c7382915452207180a1c483d0d73ca
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Sun May 16 00:35:40 2004 +0000

xc/programs/Xserver/hw/xfree86/xf86config/Imakefile
xc/programs/Xserver/hw/xfree86/xf86config/xorgconfig.c
- Clean up server name changes from TM branch
- Set default XKB rules file name correctly
- Use default font path from Imake configuration for the default font path
  in generated xorg.conf files.
- Use path variables from Imake configuration for paths to files, in case
  vendor has configured them to install somewhere other than the
  defaults.

commit b1aa9499ff8b27f4b1acc75f197e332bba382565
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Sat May 15 14:43:05 2004 +0000

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=622 -
RFE: Xprt default BIGREQUESTS extension buffer size should be 8MB (to
make |XpPutDocumentData()| happy and to improve performance).

commit 74b2a7694791297a4f798ecc05c7eb8f68634722
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri May 14 00:34:28 2004 +0000

Add new flag, KAA_OFFSCREEN_ALIGN_POT, which tells KAA to align pixmap
pitches to a power-of-two number of bytes. Useful for Render
acceleration on older cards.

commit 2bea33e881693c7d7dfc938db79c888a71dfb2fb
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri May 14 00:27:29 2004 +0000

Don't let the visible screen get "migrated" offscreen, which manifests
itself as a hang.
Reported by: Ginokas <ginokas@free.fr>
Add generic functions for copying packed/planar XV data, copied from mach64.

Move fourcc.h to a generic location in src/.

Follow GLX in setting ARGB visual nplanes to 24. Retry current mouse protocol when sync is lost.

There's no need to explicitly set softCursor -- kdrive handles this if the cursor hooks aren't set.

Fix problems in render fb implementation found by rendercheck:
- fbCombineSaturate was pointed at fbCombineDisjointOver, instead of fbCombineDisjointOverReverse as it should. Instead, point fbCombineDisjointOverReverse at fbCombineSaturate (which is likely to be faster).
- fix previously-unused fbCombineSaturate implementation.
- fbCombineMaskAlphaC was just a copy of fbCombineMaskValueC. Make it do what it's supposed to (return a cs.alpha).
- fbCombineAtopC didn't invert the source alpha value.
- fix copy'n'paste errors in fbCombine(Dis/Con)jointGeneralC, also source alpha wasn't treated in a component fashion.
- fbCompositeSrc_8888* didn't handle when the source lacks an alpha channel. Rather than adding that and possibly slowing down the (normal) alpha case, don't let x8r8g8b8/x8b8g8r8 Pictures be used in fbCompositeSrc_8888* because Over with one of these is just Src.
file ChangeLog was initially added on branch CYGWIN.

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=608 ("Can not print on Debian/CUPS due to error [Xprt_64:lpr: unable to print file: server-error-not-accepting-jobs]"): Xprt did not setup the list of supplementary group ids, causing print failure when the the calling user must be a member in a specific group to be allowed to print.

BugZilla #601: Fixing makedepend choking on floating point exception because CHAR_BIT is defined to __CHAR_BIT__ which is a compiler intrinsic define. BugZilla #605: Fixing build on IA64 which is broken due to the inclusion of the kernel header asm/page.h. Kernel headers however don't work with -ansi. The inclusion of asm/page.h can however savely be removed as it there are plenty of other ways to determine the page size.

Use current resolution by default, change rate to 75 to match fbdevModeSupported cut-off (?). Glenn McGrath <glennm@hydrix.com>

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=551 - PS DDX will not build on platforms with BuildFreeType NO. Patch by Alan Coopersmith <alan.coopersmith@sun.com>.

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=551 - PS DDX will not build on platforms with BuildFreeType NO. Patch by Alan Coopersmith <alan.coopersmith@sun.com>.
Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=536 -
RFE: PS output should contain the FreeType2 version being used.

commit 8d4f21ab53c44ca48501d6211ea6db0e0b8af916
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:15:41 2004 +0000

Add XACE and XSELINUX extensions to the build system

commit 0106715000196c7b349a0b4494b61545f05e138
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:07:37 2004 +0000

Modify XC-SECURITY and XC-APPGROUP extensions to work with XACE

commit 8526cd6395490b03b279f1962df777fb0e4a9878
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Wed May 5 20:04:52 2004 +0000

Replace XC-SECURITY code with XACE security hooks

commit 6d066cb10990d951449b342b40dec1f1b1ae593c
Author: Eamon Walsh <ewalsh@epoch.ncsc.mil>
Date:   Tue May 4 19:44:02 2004 +0000

Merge the new release from HEAD

commit b5f200ce9d495c6ce94e0170909465a30e8799d9
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 4 03:28:06 2004 +0000

Attached is a patch to fix a build error when compiling with tslib support, 
a variable wasn't set, i just changed it to be like the other
MAkefile.ams :) -- Glenn McGrath <glennm@hydrix.com>

commit 5ca651e66f3d0ab189962bb4609b87a865364ef8
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Apr 30 12:48:56 2004 +0000

file winmessages.h was initially added on branch CYGWIN.

commit 2c2c1704b542f29fe5ac9917e1141040a0dbd3e9
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Thu Apr 29 23:59:15 2004 +0000

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=567 -
Xorg Xprt starts to consume 100% CPU when being idle for some time
(internal screensaver goes mad after 10mins)
commit a8429d76103ff0f4fc61db86201c741f91bfcba2  
Author: Keith Packard <keithp@keithp.com>  
Date:       Wed Apr 28 07:26:46 2004 +0000

Add completely fake X server -- draws to allocated buffer, has no keyboard or mouse.

commit 85e4e5445218d70f627fb132a8e8f18470e6749d  
Author: Roland Mainz <roland.mainz@nrubsig.org>  
Date:       Mon Apr 26 11:07:03 2004 +0000

Work-in-progress for  
http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=542 - GLX support for PS DDX / part #1: Fix visual setup (attachment #243)

commit 46472ebee679f9757e4003a0dacf158aeb3852f47  
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>  
Date:       Mon Apr 26 02:39:58 2004 +0000

xc/config/cf/sun.cf  
xc/config/cf/sv4Lib.rules  
xc/programs/Xserver/Imakefile  
xc/programs/Xserver/hw/xfree86/os-support/sunos/find_deps.pl  
Make Solaris builds work when using MakeDllModules (it's not the default yet, but at least it works now if you turn it on) Also improve default compiler, optimizer, & linker flags for Solaris builds using either Sun cc or gcc  
xc/programs/Xserver/cfb/Imakefile.inc  
xc/programs/Xserver/cfb/stipsparc.s  
xc/programs/Xserver/cfb/stipsprc32.s  
Remove text relocation error when building shared versions

commit 36e3e5430e1ca7103a4e0b796eb3817975b40d90  
Author: Roland Mainz <roland.mainz@nrubsig.org>  
Date:       Sun Apr 25 22:42:09 2004 +0000

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=541 - Xorg Xprt may crash with "Freeing resource id=40200000 which isn't there"

commit 2fb588620030ad393f8500d60e16144d59e4effe  
Author: Egbert Eich <eich@suse.de>  
Date:       Fri Apr 23 19:54:30 2004 +0000

Merging XORG-CURRENT into trunk

commit 0664db19bf37f9dd69cca6adff4e238e310c3092  
Author: Egbert Eich <eich@suse.de>
Merging XORG-CURRENT into trunk

commit 68fd529608c58334f13beb88dbcc1d5db85b9b00
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Apr 21 23:24:20 2004 +0000

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=535 -
   Xprt should not announce extensions which are not supported

commit 1af13123fa79ad1c6747aad60ed458bbd69da12d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date: Wed Apr 21 10:03:41 2004 +0000

Fix for http://pdx.freedesktop.org/cgi-bin/bugzilla/show_bug.cgi?id=530 -
   Land XPRINT branch on XORG-CURRENT

commit 449e83a9470ec4bdd0871e2f6458bbd69da12d
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Apr 18 03:00:43 2004 +0000

   xc/lib/GL/glx/Imakefile
   xc/lib/GL/mesa/src/Imakefile LargePICTable required for Solaris SPARC
   builds
   xc/programs/Xserver/hw/xfree86/drivers/glint/pm3_accel.c
   xc/programs/Xserver/hw/xfree86/common/xf86Events.c Add != NULL to if
   statements to get past syntax error reported by Sun Forte 6.1 cc.
   xc/config/imake/imake.c
   xc/config/cf/sun.cf
   xc/config/cf/sunLib.tmpl Allow compiling with Sun compilers installed
   somewhere other than /opt/SUNWspro
   xc/programs/Xserver/hw/xfree86/common/compiler.h
   xc/programs/Xserver/hw/xfree86/os-support/bus/Pci.h Check for
   defined(sparc) as well as defined(__sparc__) since Sun compilers don't
   define __sparc__

commit 425251a752805affb6ce14baa58d92c384f39501
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sat Apr 17 18:47:05 2004 +0000

   Bugzilla #495: LocalClientCred should use getpeerucred on Solaris 10

commit 7215fb186f076a24d0a04c9c20ac9b92caef49b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Fri Apr 16 00:21:24 2004 +0000

   xc/programs/Xserver/hw/xfree86/os-support/sunos/sun_mouse.c Solaris mouse
enhancements, including autoprobe support, VUID wheel mouse events, and streams module pushing. Bugzilla #434. (Russ Blaine & Alan Coopersmith, Sun Microsystems)

xc/programs/Xserver/hw/xfree86/os-support/sunos/sun_init.c Xorg doesn’t reset console to text mode on Solaris x86 8 and later Bugzilla #469.

commit c6c6d0de2309019999fa75a2f36a4f4a93ad2f31
Author: Egbert Eich <eich@suse.de>
Date:   Thu Apr 15 10:17:35 2004 +0000

Merged changes from RELEASE-1 branch

commit 9d24a5fa91bf165bbd2048a844ede859b5e34aad
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Wed Apr 14 00:01:22 2004 +0000

file XWinrc.man was initially added on branch CYGWIN.

commit 01bb5eb5032a7566c86a51053146db98a3ed749
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:46 2004 +0000

file psout_ftspstype3.c was initially added on branch XPRINT.

commit cb3f3d8f2283d384dc5a3af3f38053cc8a2d192e
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:46 2004 +0000

file psout_ft.c was initially added on branch XPRINT.

commit 7cfb4c2b33ae2147b5d6dd82afcb7b777686a666f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:46 2004 +0000

file psout_ftspstype1.c was initially added on branch XPRINT.

commit 4ae42e79d46d7db30f7b6f321b0d134862138d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:46 2004 +0000

file PsFTFonts.c was initially added on branch XPRINT.

commit b5fb71922b02024aa5a8f3499d2c956e2f83f0f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:45 2004 +0000

file xprint.sh was initially added on branch XPRINT.
commit ca9a9a58be51a21f123b11dd68047034696cae84
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:45 2004 +0000

    file xprint.csh was initially added on branch XPRINT.

commit 7c1f840108172d6b18af47465ea72f4820640598
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:45 2004 +0000

    file cde_xsessiond_xprint.sh was initially added on branch XPRINT.

commit 579221198aeac7010435b29db1ad8fe9ee2d7c5d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:44 2004 +0000

    file spooler.c was initially added on branch XPRINT.

commit 7677b4992fee7eb73cc97914163df689ad13d6a
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:44 2004 +0000

    file spooler.h was initially added on branch XPRINT.

commit d3907ca519b476c99e29a58c22258f22dbe63244
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:44 2004 +0000

    file document was initially added on branch XPRINT.

commit 3646bb9c894d5f011e2df4fac402118d8350102e
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:39 2004 +0000

    file spooltodir.sh was initially added on branch XPRINT.

commit 8c006df3c6d8e5ac95f0b0fa38a030100541598f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:39 2004 +0000

    file model-config was initially added on branch XPRINT.

commit 95a84bc0cb809e5c7141d0411e329a3ec300b8aa
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file ZapfDingbats.pmf was initially added on branch XPRINT.
commit 5527b39e668ea7a88c41186db6d7b66e892547a
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Times-Roman.pmf was initially added on branch XPRINT.

commit 69c405ac66b1a15076e247dd1b578b7b4b210b00
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Times-Italic.pmf was initially added on branch XPRINT.

commit b6b75f677292ed0c694921df0abf40038dd5e99d
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Times-BoldItalic.pmf was initially added on branch XPRINT.

commit 6605566bcf008551d33a9a68bd03e9a0e57c4f60
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Souvenir-LightItalic.pmf was initially added on branch XPRINT.

commit 38ad2972bffe1a019214785ee479f7670ca70d1f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Souvenir-Light.pmf was initially added on branch XPRINT.

commit 10d8eace174a9778a3313ac36a3422637b020d5f
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file Souvenir-DemiItalic.pmf was initially added on branch XPRINT.

commit fb5ac8e2bdfe1217663679f5eae8045473456752
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file NewCenturySchlbk-Roman.pmf was initially added on branch XPRINT.

commit 5ec311b05dc1e509c115c8ca808ee05090cfddd4
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:   Tue Apr 13 03:16:38 2004 +0000

    file NewCenturySchlbk-Italic.pmf was initially added on branch XPRINT.
file Symbol.pmf was initially added on branch XPRINT.

file Times-Bold.pmf was initially added on branch XPRINT.

file NewCenturySchlbk-Bold.pmf was initially added on branch XPRINT.

file NewCenturySchlbk-BoldItalic.pmf was initially added on branch XPRINT.

file Souvenir-Demi.pmf was initially added on branch XPRINT.

file LubalinGraph-Demi.pmf was initially added on branch XPRINT.

file LubalinGraph-DemiOblique.pmf was initially added on branch XPRINT.

file LubalinGraph-Book.pmf was initially added on branch XPRINT.
commit 5f73192458136fe4b6b82372c3b1653fbf831ebd
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Helvetica.pmf was initially added on branch XPRINT.

commit e129abc3bf269e857aa65065cc18a31a56ba0373
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Helvetica-Oblique.pmf was initially added on branch XPRINT.

commit 576a4cddf995082d10e2e29e1b58c1564eb11ee7
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Helvetica-BoldOblique.pmf was initially added on branch XPRINT.

commit cf26c87833a79427b665abce67ca19f2b68bc8e5
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Helvetica-Bold.pmf was initially added on branch XPRINT.

commit a091408c372a2aa89fb83b023248f45aa8cd4173
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Courier.pmf was initially added on branch XPRINT.

commit 9e4221d08ff9a408fb25a32887390b14788b1558
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Courier-Oblique.pmf was initially added on branch XPRINT.

commit 6b2674078079a5959a2b7758e6c628a14ec1a46c
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file Courier-BoldOblique.pmf was initially added on branch XPRINT.

commit 6aee2d37b95170a65ee08c0866c425f115ebc9f1
Author: Roland Mainz <roland.mainz@nrubsig.org>
Date:    Tue Apr 13 03:16:38 2004 +0000

    file LubalinGraph-BookOblique.pmf was initially added on branch XPRINT.
file AvantGarde-Demi.pmf was initially added on branch XPRINT.

file AvantGarde-DemiOblique.pmf was initially added on branch XPRINT.

file AvantGarde-Book.pmf was initially added on branch XPRINT.

file AvantGarde-BookOblique.pmf was initially added on branch XPRINT.

file Courier-Bold.pmf was initially added on branch XPRINT.

file ps2pdf_spooltodir.sh was initially added on branch XPRINT.

fixed Changelog format

Added ROP
commit 784d37ee369b94c83c4cc6e280a39f32da8aa678
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Sun Apr 11 15:51:04 2004 +0000

Fixed size calculation in solid rendering

commit 056322336cbb6093d74aa9d22bbfd42e2248a16a
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Sun Apr 11 15:20:17 2004 +0000

Basic bitblt implementation

commit c231856a1343e38381e1b4e545ff1ac279141bf0
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Sun Apr 11 00:53:10 2004 +0000

First acceleration function implemented (DrawSolid)

commit 47436a8af82a00d0d392cef4d5906729d9a37649
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Sun Apr 11 00:15:57 2004 +0000

Finally got MMIO working all timecat ChangeLog cat ChangeLog cat ChangeLog
:-D

commit 1740b938e4c4f1cd3de700ea26143b01c0312325
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Tue Apr 6 18:09:44 2004 +0000

Return back to VESA only version

commit 07be231872e7e056fa3049a0fcd963c61f826f80
Author: Franco Catrin L <fcatrin@tuxpan.com>
Date:   Mon Apr 5 18:19:34 2004 +0000

small fixes, but still can't get this driver woking again

commit b526276faa765df893197e04370a915ed73947dc
Author: Brent Cook <busterbcook@yahoo.com>
Date:   Mon Apr 5 02:52:35 2004 +0000

removed hardcoded vesa references so we can operate with any backend. fbdev
works for initializing the screen, but input fails shortly after.

commit 920e6ff81baeeec16465f81bacbcff711ce82e149
Author: Brent Cook <busterbcook@yahoo.com>
Date:   Sun Apr 4 07:30:07 2004 +0000
Begin separating VESA calls into a more generic backend wrapper like the ati driver, cascading between VESA and FBDEV. We only have init functions done so far; need to add all of the others. Fixed some compiler warnings. Whitespace and formatting cleanups (using 4 spaces, no tabs)

commit 530371ceaf7f593badf38bbce2d2e50f6a920d24f
Author: Brent Cook <busterbcook@yahoo.com>
Date:   Sat Apr 3 22:26:37 2004 +0000

added touchscreen support, detect all known PCI chips in the Neomagic line. We'll not bother with ISA for now.

commit 962b898868dcab959c390986dec0b4d750dc107
Author: Brent Cook <busterbcook@yahoo.com>
Date:   Sat Apr 3 22:22:48 2004 +0000

initial import of original driver by Franco Catrin L. Wraps VESA for most parts, with some hardware acceleration enabled for the cursor on the NM2300.

commit 8a2fcee3b90b5efc8bab19675cb8e02690e24442e
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Sat Apr 3 05:01:21 2004 +0000

file winkeyhook.c was initially added on branch CYGWIN.

commit 12d5371ed2fbeb069dea46be972a72698b2c2db
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file xfixes.h was initially added on branch DAMAGE-XFIXES.

commit a4b319dbf375461c975450659723e6326153e536
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file xfixes.c was initially added on branch DAMAGE-XFIXES.

commit 5319d30d45d5f8ec04a496327f32cc6431c6a511
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file select.c was initially added on branch DAMAGE-XFIXES.

commit 76f247bd0ef23d688028c63b5f8bd3e9ad6b1b45
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000
file saveset.c was initially added on branch DAMAGE-XFIXES.

commit 83f0f1bab612774f609c71879a225c43f63ac1f
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file cursor.c was initially added on branch DAMAGE-XFIXES.

commit 52be7693db7e3db916f8d463d9a750e3c6ffa4d
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file region.c was initially added on branch DAMAGE-XFIXES.

commit 5d9098cb17cd88cddf49de92bec2a787d6681649
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 18:31:54 2004 +0000

file xfixesint.h was initially added on branch DAMAGE-XFIXES.

commit ace9aa7c45ff2ea6b3476006574da5c27d05afdd4
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 17:41:24 2004 +0000

file damage.c was initially added on branch DAMAGE-XFIXES.

commit 72dc7569c6b6c216f613be21ea4f79d3ef1d5534
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 17:41:24 2004 +0000

file damage.h was initially added on branch DAMAGE-XFIXES.

commit 95da7b7e061b6925d8cd85bc7b25708ff253fcb1
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 17:41:24 2004 +0000

file damagestr.h was initially added on branch DAMAGE-XFIXES.

commit 629c3792225ceec28572081ebc8dda3fd803fe616
Author: Egbert Eich <eich@suse.de>
Date:   Tue Mar 30 14:23:15 2004 +0000

36. Conversion: __AMD64__ > __amd64__ (Egbert Eich).
35. Fixed stretching option and centering in C&T driver (Egbert Eich).
34. Added support for memory size tweaking in BIOS for i845 (Egbert Eich,
   thanks to Christian Ziez)
33. Removed video playback dependency on Accel in NSC drivers (Egbert
3Eich).
32. Fix HW cursor state on Savage driver when entering VT as some BIOSes seem to enable it unconditionally (Egbert Eich).
31. Fixed Emulate3Button message to distinguish between 'hard' (ie. configured) and 'soft' (ie. automatic emulation that is disabled as soon as the middle button is pressed) (Egbert Eich).
30. Free XrmDB in XCloseDisplay() only when implicitly allocated by XGetDefaults(). If Client allocates it itself it should free it also. Trying to free it for the client may result in segfault if the client has already freed it (Egbert Eich).

commit b5e400867feab935aa04e9aad3b12deb0601b7f83
Author: Egbert Eich <eich@suse.de>
Date:   Tue Mar 30 14:14:31 2004 +0000

- backing out XFIXES and DAMAGE related code that accidentally went in here.

commit 0017ddaa6406524d0a86ff7020eed4c33758ddbd
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 02:16:15 2004 +0000

  file damageextint.h was initially added on branch DAMAGE-XFIXES.

commit 4b5112fd0593b34e6e096d88b0841a28636600f6
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 02:16:15 2004 +0000

  file damageext.c was initially added on branch DAMAGE-XFIXES.

commit 733bfa4b5dd5255713a98f390a1fb65be6e16c2d
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Tue Mar 30 02:16:15 2004 +0000

  file damageext.h was initially added on branch DAMAGE-XFIXES.

commit b1ed473ef2e1da99d7fe3df14fdef4d8b365626
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Tue Mar 30 00:31:28 2004 +0000

  file winrandr.c was initially added on branch CYGWIN.

commit fec5095bdfb376d0046e2f52188c68bef4e31fd7
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 28 07:14:30 2004 +0000

  file xorgcfg.man was initially added on branch XORG-RELEASE-1-TM.
commit 136a9364be80f407f498e9e9695cadaab39227ad
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Mar 28 07:14:30 2004 +0000

    file XOrgCfg.cpp was initially added on branch XORG-RELEASE-1-TM.

commit 881af3b56d6992becfbbfcbdf31ff71c64d648da
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 27 17:01:11 2004 +0000

    file Xorg.man was initially added on branch XORG-RELEASE-1-TM.

commit d2119ac7c56ba94db1d8639937b13e72288a328c
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Mar 27 17:01:11 2004 +0000

    file xorg.conf.man was initially added on branch XORG-RELEASE-1-TM.

commit 5a9f3a36a35549f30fc67a8e3a3e9a201efb91ec
Author: Egbert Eich <eich@suse.de>
Date:   Fri Mar 26 20:02:03 2004 +0000

    file xorgHelper.c was initially added on branch XORG-RELEASE-1-TM.

commit b2b0e70fe5c65c8f2d518f5f0ce89a86938701ed
Author: Egbert Eich <eich@suse.de>
Date:   Fri Mar 26 19:54:39 2004 +0000

    file xorgconf.cpp was initially added on branch XORG-RELEASE-1-TM.

commit 83880dd464a415d3d0eefa546b1f0b9887342e809
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Fri Mar 26 17:11:49 2004 +0000

    29. XkbWriteRulesProp fails if XkbRulesFile is NULL. Bug #376. (Alan Coopersmith)

commit 861a33678243349b987ff30912985968ede8ac84
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Fri Mar 26 01:22:18 2004 +0000

    oops

commit 23d552bbef2984afee889f82ded154478548ee15
Author: Egbert Eich <eich@suse.de>
Date:   Thu Mar 25 11:00:52 2004 +0000

    file xorg.cfg was initially added on branch XORG-RELEASE-1-TM.
commit d1e52f13ad4610ee4907432c21384d08d6aaf27
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Mar 25 05:11:16 2004 +0000

    oops

commit f0336f18ee4106050104cb060c38fe87541615da
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date:   Thu Mar 25 03:45:49 2004 +0000

    built,working DAMAGE/XFIXES in mono tree

commit f1394ec3cecc09ff9c5fbbff3c1f595a642b25f91
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Wed Mar 24 22:15:25 2004 +0000

    Change XFree86 Project to X.Org Foundation in localized XDarwin splash screens.

commit d2bbcc0deed3a607d347ed4ef07ded9bcb44f1bb
Author: Torrey Lyons <torrey@mrcla.com>
Date:   Wed Mar 24 22:12:34 2004 +0000

    Change XFree86 Project to X.Org Foundation in XDarwin splash screen.

commit 84d25a5e178835234261a63f0a1b8131c01bbe1f
Author: Egbert Eich <eich@suse.de>
Date:   Wed Mar 24 15:58:45 2004 +0000

    file xorgVersion.h was initially added on branch XORG-RELEASE-1-TM.

commit 685d1630c1540e29644849254bd45708aa5763bb
Author: Egbert Eich <eich@suse.de>
Date:   Tue Mar 23 12:46:30 2004 +0000

    file xorgconfig.man was initially added on branch XORG-RELEASE-1-TM.

commit 6631bd586f74f89e2dce74fe1cc25ee982883323
Author: Egbert Eich <eich@suse.de>
Date:   Tue Mar 23 12:46:30 2004 +0000

    file xorgconfig.c was initially added on branch XORG-RELEASE-1-TM.

commit 05a16f4acce3b6ef4dda0f044f96774de3f75b7c
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Mon Mar 22 13:43:35 2004 +0000
file glwindows.h was initially added on branch CYGWIN.

commit 3c2e2d9ae0704931737bb0879a49a8575a07d13b
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Sun Mar 21 22:55:35 2004 +0000

  bug #357. Fix XDarwin so it builds on Mac OS X 10.2 and earlier. Merged
down from -RELEASE-1-TM and -RELEASE-1

commit 122be5328f0ea03b92612b8ea0f5b02736ac175
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Fri Mar 19 23:16:06 2004 +0000

  no bug report. Restore Credits to the hw/darwin ddx that were deleted
previously. RTF may or may not be "human readable," but with a little
effort it's about as readable as SGML, IMNSHO.

commit 551c93da612923f8d32707adc16431979bad6fb0
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Mon Mar 15 04:33:23 2004 +0000

  file winkeynames.h was initially added on branch CYGWIN.

commit 0c97b290015186acbaadae9a9bf79f37c3d38b40
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Mon Mar 15 04:33:23 2004 +0000

  file winkeymap.h was initially added on branch CYGWIN.

commit dae90c3af98edd5e95289abd930b3872c996c503
Author: Egbert Eich <eich@suse.de>
Date:   Sun Mar 14 08:34:49 2004 +0000

  Importing vendor version xf86-4_4_99_1 on Sun Mar 14 00:26:39 PST 2004

commit 4e996f9d76f51e9b1e33b2ef610bb9c2a746c8b9c
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Mar 12 21:05:47 2004 +0000

  file winpriv.c was initially added on branch CYGWIN.

commit c79b4bf1d15534de12aafl8ce9965403b4913ca4b
Author: Alexander Gottwald <alexander.gottwald@s1999.tu-chemnitz.de>
Date:   Fri Mar 12 21:05:47 2004 +0000

  file winpriv.h was initially added on branch CYGWIN.

commit 24c02f84cc31475bfba27417d3f6b11e09b25c
file X-boxed.ico was initially added on branch CYGWIN.

commit 45b638b87f0da94f9ce566179775fb2889c663
Author: Daniel Stone <daniel@fooishbar.org>
Date: Wed Mar 10 11:49:11 2004 +0000

Twenty link errors for Xizzle now - count `em. 20.
Get rid of all references to SCO.
Change SDK include dir to $(includedir)/xizzle. Add SDK libs where necessary.
Reformat to be nicer and easier to shuffle around; also, fix lib ordering
so we get so much closer to the elusive final link. Shuffle
common/xf86Init.c into libxizzle.a.
Fix a couple of early snafus - s/BUILDXI/XINPUT/; et al; make the SDK stuff conditional as needed; fix the SBus includes.
Name library os-support/libxizzleos.a, not os-support/foo/libxizzlefoo.a.
Clean up ARCH_SOURCES so it's always initialised to something.
Move linked libraries to _LIBADD, which somehow escaped my attention. Make
inclusion of drm/libxazzlelinuxdrm.a dependent on DRI.
s/VERSION/VBE_VERSION/;
Axe this redundant dir.
All Xizzle-specific: axe hw/xizzle/Xi, shuffle link order, fix list of
required modules to be vaguely sane, add some pertinent libs/incs.

commit 519f76a0867f2711d311b7929632408c3633e37
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Sun Mar 7 23:45:10 2004 +0000

24. Update license for Xinerama code from DEC to the version requested by
    Compaq for X11R6.5.1 that allows redistribution without written
    permission from DEC. Originally X.org Defect #9263. freedesktop.org
    bugzilla #283. (Alan Coopersmith)

commit 505fe2ba307e9270627ca7f3cb6b4e1dbacc327b
Author: Egbert Eich <eich@suse.de>
Date: Fri Mar 5 13:41:12 2004 +0000

23. Merged with XFree86 4.4.0. Added changes that went into infected files.
    Reverted darwin/bundle/**/Credits.rtf to XFree86 versions to avoid
    future conflicts on ASCII but not humal readable files. (There should probably be separate CreditsXorg.rtf files) (Egbert Eich).

commit 1b22db1ebcf1ba98ca8519fa38210e275373f8f6
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Thu Mar 4 02:13:09 2004 +0000
21. X server crashes when X-Resource has to byte-swap. Sun bug #5007488. freedesktop.org bugzilla #267. (Alan Coopersmith)

commit 47c9395969593a4e897e8c8110d5f2414e47b06a
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Mar 3 17:03:46 2004 +0000

file solaris-ia32.S was initially added on branch XORG-CURRENT.

commit ed066cc67b1fca03fb38c80ecb8194b5b40963be
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Mar 3 17:03:46 2004 +0000

Enable inlining of assembly functions for inX/outX on Solaris 8 with Sun compilers

commit 867451f1ab7b9870621725bd4be3dd8694c364b8
Author: Egbert Eich <eich@suse.de>
Date:   Wed Mar 3 12:12:50 2004 +0000

Importing vendor version xf86-4_4_0 on Wed Mar 3 04:09:24 PST 2004

commit 2934f0731b3d2bc9c1e25ceab26d9e0d9c4d054
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Tue Mar 2 20:00:16 2004 +0000

file winvalargs.c was initially added on branch CYGWIN.

commit f72efebf280547c80ff7010e32ff6416e7121164
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Tue Mar 2 19:26:34 2004 +0000

Replace a handful of calls to ErrorF and exit(1) with a single call to FatalError. These direct calls to exit(1) made it impossible to do anything ddx-specific in these cases; note that most of these calls occur during argument processing.

commit 7557d4da10cc482f5ee40acaf7744b04e1615a0
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Tue Mar 2 19:00:06 2004 +0000

bug #230 Revert to Xinerama 1.1 In order to make a "quick" release it has been decided that the priority is to preserve the server's internal API/ABI so that third-party drivers that depend on symbols like noPanoramiXExtension, etc., would not need to be recompiled. Too bad gcc on Linux doesn't support ELF's weak symbols as that would have been a reasonable solution for preserving the ABI. N.B.: While symbols, i.e.
functions and variables revert to the old name, I did not revert build names, i.e. -DXINERAMA, to the old -DPANORAMIX. There was no need, and it's just a build issue that has no impact on the binary output of the build.

commit 215a13aa8f537dcb62b0a2f6d335901ee47e9e9b
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date: Mon Mar 1 16:38:20 2004 +0000

Add the .stab.indexstr section produced by Sun's compilers to the list of SHT_STRTAB sections with debug information to ignore when loading ELF objects.

commit d87b05563dc13ba8d9825ec3bb772702dce6c9fe
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Mon Mar 1 03:33:28 2004 +0000

file indirect.c was initially added on branch CYGWIN.

commit f81d63ec5396c8d7f62dd6ff6bab10b32493264
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Sun Feb 29 20:11:11 2004 +0000

bug #240 Instead of both Meta keys generating Meta_L, and both Alt keys generating Alt_L, etc, fix the implementation so that you get Meta_L for the left Meta key and Meta_R for the right Meta key. Ditto for Alt, Control, and Shift.

commit 6c412a43e42538a51d34d92a6db12b0b6cf0e9b
Author: Jaymz Julian <jaymz@artificial-stupidity.net>
Date: Sat Feb 28 09:47:55 2004 +0000

sdl x server so that we can x-on-x the fb stuff for ease of debugging. if anyone uses this in production, a big scary monster will eat them. hrm, perhaps i should make it have a --i-know-what-i'm-doing param that it doen't start without, heh

commit bb93fe9877a885da2c6108410155fa996b19abf
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Fri Feb 27 19:35:49 2004 +0000

bug #238 test for root-window that XFree86 fixed in their programs/Xserver/Xext/shm.c
3.37 and programs/Xserver/Xext/xvdisp.c 1.26 got zapped when Xinerama2 was merged into the tree. (Xinerama has since been reverted to 1.1, but that's another story.)

commit cb718ce08eb25c3999e91b8d614fb88237fad03d
Revert to Xinerama 1.1 In order to make a "quick" release it has been decided that the priority is to preserve the server's internal API/ABI so that third-party drivers that depend on symbols like noPanoramixExtension, etc., would not need to be recompiled. Too bad gcc on Linux doesn't support ELF's weak symbols as that would have been a reasonable solution for preserving the ABI. N.B.: While symbols, i.e. functions and variables revert to the old name, I did not revert build names, i.e. -DXINERAMA, to the old -DPANORAMIX. There was no need, and it's just a build issue that has no impact on the binary output of the build.

commit df0313d35bc89abe9374ed255333db283430716e0
Author: Egbert Eich <eich@suse.de>
Date: Thu Feb 26 13:36:15 2004 +0000

readding XFree86's cvs IDs

commit 147aae87fde5edeed395f77e60f0f8e812d3b6af
Author: Egbert Eich <eich@suse.de>
Date: Thu Feb 26 09:23:53 2004 +0000

Importing vendor version xf86-4_3_99_903 on Wed Feb 26 01:21:00 PST 2004

commit 8844423f890194bcb0419a38249029f1997c8c66
Author: Stuart Kreitman <stuart.kreitman@sun.com>
Date: Wed Feb 25 23:28:43 2004 +0000

file xevie.c was initially added on branch XEVIE.

commit b052486adb9ea26f37be120966eb60cd3ac3db2f
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Wed Feb 25 21:47:10 2004 +0000

bug #230 Revert to Xinerama 1.1 In order to make a "quick" release it has been decided that the priority is to preserve the server's internal API/ABI so that third-party drivers that depend on symbols like noPanoramixExtension, etc., would not need to be recompiled. Too bad gcc on Linux doesn't support ELF's weak symbols as that would have been a reasonable solution for preserving the ABI. N.B.: While symbols, i.e. functions and variables revert to the old name, I did not revert build names, i.e. -DXINERAMA, to the old -DPANORAMIX. There was no need, and it's just a build issue that has no impact on the binary output of the build.

commit 14ab4ade74e946c09d633b15ab4d447d7b69ea29
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Tue Feb 24 15:22:40 2004 +0000

    bug #214. Merge most of 4.4RC3

commit 9343c8f5ac180043c29ead5e83a3efef16d7b3f2
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Tue Feb 24 15:16:35 2004 +0000

    bug #188, #214, see versions 1.1.4.3 and 1.1.4.4 of this file. fix bad
merge

commit 03d893bff9bf5d6be9663a21cc983873d8e8d4c7
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Mon Feb 23 21:37:29 2004 +0000

    merge most of XFree86 RC3 (4.3.99.903) from vendor branch. bug #214

commit 4ee0a53de870192d57c02baffa106b10bae6e0bf
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Mon Feb 23 20:35:22 2004 +0000

    Import most of XFree86 4.4RC3. This import excludes files which have the
    new license. If we want to, later we can import 4.4RC3 again and pick
    up the files that have the new license, but for now the vendor branch
    is "pure."

commit dcd1d47ebbd4e9b5f4cbb598a5217004df0e80844
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Mon Feb 23 20:35:19 2004 +0000

    Initial revision

commit 30ac3efde2c3f08b98f31833df4ca7d87f33b092
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Mon Feb 23 16:32:14 2004 +0000

    bug #188 report bugs to X.org bugzilla, not XFree86

commit d52f3ac58fd596fca392394f16aaff84115ff6c1d
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Feb 18 21:43:19 2004 +0000

    Additional fixes to allow building with Sun compilers on Solaris x86

commit 07109fd63e09999905e6f7d8fd7f9c713d0dc2cc
Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
Date:   Wed Feb 18 21:30:12 2004 +0000
Sun cc on Solaris x86 defines __i386 but not __i386__ so the x86 architecture #ifdef should accept either form

commits:

- commit a27fd2d678ef7645346fa27932462425d804df6d
  Author: Warren Turkal <wt@penguintechs.com>
  Date:   Wed Feb 18 02:12:44 2004 +0000

  completely get rid of NeedNestedPrototypes
  completely get rid of NeedVarargsPrototypes
  remove a lot of NeedFunctionPrototypes
  ansify many function declarations

- commit d17586c4dc858d0127fa021e6db62f8cc28ef7a6
  Author: Alan Coopersmith <Alan.Coopersmith@sun.com>
  Date:   Mon Feb 16 20:19:59 2004 +0000

  [fd.o bugzilla #189] _XOPEN_SOURCE defines break builds on Solaris Express

- commit c90274c2bca1f66a68c2bc30d8b589dbf6fa0929
  Author: Egbert Eich <eich@suse.de>
  Date:   Wed Feb 11 19:29:37 2004 +0000

  Moving toward a working input extension.

  2. Fixing segfaults that may happen in some corner cases when VT switching
     and during int10 initialization (Egbert Eich).

- commit 453a0743eb524da88dd364ccac86f35e61899e64
  Author: Kaleb Keithley <kaleb@freedesktop.org>
  Date:   Sun Feb 8 00:17:31 2004 +0000

  revert to RC1 version of file with the license we like

- commit d6f33d897221450f3cfcc1162e2a6d09b227326e
  Author: Kaleb Keithley <kaleb@freedesktop.org>
  Date:   Sun Feb 8 00:12:27 2004 +0000

  revert to RC1 version of the file with the license we like

- commit bd20c8d340fce0700ae813bd5b55fe7f4b9e0c98
  Author: Jaymz Julian <jaymz@artificial-stupidity.net>
  Date:   Thu Feb 5 09:09:51 2004 +0000
Polling input mode for the kdrive os layer. And a moose!

commit af798d27743db4f70e85e297daa5863ec89640b
Author: Jaymz Julian <jaymz@artificial-stupidity.net>
Date: Wed Feb 4 16:08:27 2004 +0000

More NULL checks. These ones are more useful than the last (which just made
debugging a bunch of problems easier), since you can implement less in
the basic simplest case driver now (not that i'm lazy, mind :-p)

commit 3c64b65d805915e5c5628663113c54c3e9c3013b
Author: Egbert Eich <eich@suse.de>
Date: Thu Jan 29 08:08:57 2004 +0000

Importing vendor version xf86-012804-2330 on Thu Jan 29 00:06:33 PST 2004

commit 2ec70aa70133190ad31a83114f9a218e6aa8e6
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Jan 25 05:31:24 2004 +0000

Disable GLX visuals code on !_GLXEXT, and remove a useless prototype.

commit 01e9cc858ac646b3140d1d85ea9e069bc708fb28
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Jan 25 01:30:33 2004 +0000

- Add glx visuals code based on XFree86's Radeon driver.
- Reserve areas for back/depth/span when USING_DRI && GLXEXT. This would be
  better in a TransitionTo3d, but we'd need to work with the offscreen
  memory manager for that.
- Misc. fixes to ati_dri.c for DRI+GLX. Needs more work still.

commit f2bedd17af7c3b9241c02dc1e899f32fc0cd2f10
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Jan 25 01:16:19 2004 +0000

Oops, turn fallback output back off.

commit 26c5a8dfdd2aa09db46c4cf963ca697df3e777ef
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Jan 25 01:04:12 2004 +0000

Whitespace cleanup.

commit 6870c081572f32997e7906a54d09da0ca58ac3
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jan 15 09:19:56 2004 +0000
Oops, lost a diff needed for the non-screen format pixmap code

commit 3867e03cb63e49aeb1742a8a4bdaed0b7a23749e
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jan 15 09:15:53 2004 +0000

Fix up some mis-used variable names

commit f233bbf3652327e62e03efbb8a355e6af2703a1c
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jan 15 09:13:01 2004 +0000

Accelerate non-screen format pixmaps.

commit 751fb0374b12679f63c922adf0f0e7cadd83d861
Author: Harold L Hunt II <huntharo@msu.edu>
Date:   Thu Jan 15 06:06:44 2004 +0000

file winresource.h was initially added on branch CYGWIN.

commit a265167f19e37acc2173c0ca6c9955450aa69941
Author: Anders Carlsson <andersca@gnome.org>
Date:   Wed Jan 14 10:00:00 2004 +0000

Add IPAQ modeline by Dennis Noordsij.

commit 6c97b277d9140b9d6bca047c56e303f6fc1d92e0
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sun Jan 11 00:10:34 2004 +0000

Support 1x1 repeat sources in R128's Blend.

commit 92702565657d48f1fccc2bae1b5989b1d6d3dd164
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Jan 9 08:43:48 2004 +0000

Change PCI ID information field to be one of r128, r100, r200, r300. This
is all the information we need so far. Put that information into atic,
and use it correctly in the code (unlike before).

commit 5d51dfc69cb245f6a1c7b106954a3365524741e2
Author: Eric Anholt <anholt@freebsd.org>
Date:   Fri Jan 9 08:40:32 2004 +0000

Use the scratch area for Composite when one of src or dst is in memory.

commit 6d8001f4688e2149fcd480401c46c7540680576
Author: Eric Anholt <anholt@freebsd.org>
Compile fixes for non-DRI case and for non-C99 compiler.

commit 1be4b2d5e8048eb3653fad3a1267a0da865bcee8
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 8 08:25:49 2004 +0000

Forced commit: Previous commit included the removal of the 8192 scanline
limit on offscreen memory in the fbdev case. I remember daenzer (who
originally put that code in) saying he wasn't sure of it, and there
doesn't seem to be any reason for that limit given how acceleration is
done.

commit b27729ec88f5d4153a0debfe2347bbed022329ba
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Jan 8 08:16:24 2004 +0000

- Add a new UploadToScratch kaa hook for putting the data for a single
  pixmap into temporary offscreen storage. Subsequent UploadToScratch may
clobber the data of previous ones. This allows hardware acceleration of
  composite operations on glyphs.
- Add a new UploadToScreen kaa hook for doing the actual moving of data to
  framebuffer. This would allow us to do things like hostdata blits or
  memcpys to agp and then blit.
- Add an UploadToScreen on ATI which is just memcpys, but which will be
  replaced with a hostdata blit soon.
- Add UploadToScratch on ATI and reserve 64k of scratch space. This
  provided a 3x speedup of rgb24text on my Radeon.

commit d640cf4cb4e031a0e93df5955405847fe4475c0
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Thu Jan 8 05:10:33 2004 +0000

  file winprocarg.c was initially added on branch CYGWIN.

commit 77183abbce499c69fbbae1d92a6b012c5f80b6c4
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Thu Jan 8 05:10:32 2004 +0000

  file winglobals.c was initially added on branch CYGWIN.

commit eb5bb9c1a16db308ea84ea45a5920c768d4a2ff
Author: Harold L Hunt II <huntharo@msu.edu>
Date: Thu Jan 8 05:10:32 2004 +0000

  file winclipboardwrappers.c was initially added on branch CYGWIN.
file winauth.c was initially added on branch CYGWIN.

Disconnect the sis300 driver. I've never managed to fix it, and it breaks the build on PPC.

Speed things up slightly by removing Z values from emitted vertices and by emitting as a tri fan rather than a tri list. A rect list would save an additional vertex (out of 4) per rectangle, but there's no measurable speed difference and the tri fan may be useful when transforms come into play.

- Don't forget to UNINIT miComputeCompositeRegion's regions
- Fix a bit of whitespace nearby.

- Correctly set the texture coordinate set source for the second texture unit.
- Re-enable Radeon's Composite accel now that fonts work again.

- Call appropriate Done function for Composite.
- Don't allow src transforms for Copy acceleration.
- Minor whitespace fixes.
- Add more Composite operations, including Saturate, to Radeon Composite accel. I don't 100% trust that the math works for Saturate, but I can't tell from existing information.
- Fix texture pitch fallback checks.
- Fallback when src or mask have transforms.
- Disable Radeon Composite accel until the offset thing is fixed.
- Set offscreenPitch to 64 on Radeon thanks to new information and a kaa fix. Fixes acceleration at width!=1024.

commit d15acfa79b64b8dab1e930ce8e5423a212a1360b
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Jan 3 11:25:27 2004 +0000

Split the various attempts at accelerating Composite into separate functions. Along with making things more readable, it fixes a problem where the coordinates would get messed up if acceleration failed due to things like pixmaps being in the wrong locations.

commit 1e1a35e20c1d281bc9700b349cda1e67f65905dd
Author: Eric Anholt <anholt@freebsd.org>
Date:   Sat Jan 3 11:17:44 2004 +0000

Actually align the offset of allocated offscreen areas.

commit 354f8f7e943d1a0732f4181420211efff27532b8
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Dec 31 23:24:33 2003 +0000

Some strange \240 character snuck into the original commit of this file.

commit 5f947b04da13256e5f514c40dedb98c6e1cbe0f1
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Dec 30 08:45:53 2003 +0000

There's never a copy between different depths. Remove the check.

commit c8eb20a08ee9174374b6f5ac6e79f31fce26e181
Author: Eric Anholt <anholt@freebsd.org>
Date:   Tue Dec 30 08:23:56 2003 +0000

- Add new Composite hook for kdrive drivers, which only ensures that the pixmaps are offscreen and don't have alpha maps. It is the last case checked before going to software fallback
- Use the new Composite hook in the ati driver to implement acceleration of most Composites that get done in an xcompmgr environment on r100 series cards. It is only available when using the DRM. There are still some
corruption issues, but the DRI is still non-default and I need to get
this into version control.

commit adfc1ed8e1e150100accf014e46241201275138f
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 29 09:04:20 2003 +0000

Add dependency lines so that servers are rebuilt when server libraries are
changed.

commit df03e80ae9162ec87f503322ccbcf2846ad38bef
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 29 06:24:01 2003 +0000

Merge dri-0-1-branch to trunk. Notable changes:
- Add libdrm and libdri. Portions of the DRI extension are stubbed out.
- Use the DRM in the ATI driver when available. This provides a minor
  performance improvement in x11perf, and opens the possibility of using
  the 3d hardware for acceleration in the future.
- Implement solid fill acceleration for Composite in KAA.
- Implement Blend hook for Composite and use it on r128.
- Fix a bug of mine that resulted in overuse of offscreen memory.
- Fix many miscellaneous bugs in ATI driver and add PCI IDs.

commit 9bea538745f1a0c14faaac0e61dee5cf86f98dc6
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Dec 28 09:56:54 2003 +0000

file kaa.h was initially added on branch dri-0-1-branch.

commit fb8cd7454baec0bc0f693d222f3920ce03dde7c6
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Dec 28 09:56:54 2003 +0000

file kaapict.c was initially added on branch dri-0-1-branch.

commit f388f1509cb131cdf0675415214c9610d3d322c7
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Dec 23 22:29:38 2003 +0000

file r128_blendtmp.h was initially added on branch dri-0-1-branch.

commit 918958705dd97ce678b8901666c85fb359d0e013
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Sun Dec 21 13:39:58 2003 +0000

Use a different icon
merge XFree86 RC2 (4.3.99.902) from vendor branch

commit 12e532010b9e8cb67bedd44d489e9c40dd265165
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Fri Dec 19 20:55:39 2003 +0000

XFree86 4.3.99.902 (RC 2)

commit 4b75c7f6358b28978b05ffa4b73853d936454f50
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Thu Dec 18 19:32:17 2003 +0000

First pass at "Standard" Xinerama. The sources for this came from Heather
Lanigan's xinerama tree on Sourceforge.Net. No attempt has been made to
handle previous, non-standard versions of the protocol. Nor has any
attempt been made to preserve the ABI of previous versions -- that part
will be added at a later time, and then probably only on systems that
have nice object/linker semantics, e.g. ELF systems with weak symbols.

commit 305c444de3baa863d7abc4221e8ceb973805847
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Dec 8 01:55:10 2003 +0000

Add initial SiS 300-series (300, 305, 540, 630, 730) driver based off of
the ATI driver. It suffers from hw/sw synchronization problems, it
looks like, but may be good enough to work on Render acceleration
experiments. Committing it as-is so I don't lose it again.

commit 8a7481a27496c842ec2ef5bac5e4d0b5e6279deb
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Sat Dec 6 13:24:29 2003 +0000

merge XFree86 4.3.99.901 (RC1) from vendor branch

commit e82928826f60a2e76a670c936bd557838fc1764c
Author: Kensuke Matsuzaki <zakki@peppermint.jp>
Date:   Fri Dec 5 03:37:26 2003 +0000

file winwin32rootlesswindow.c was initially added on branch CYGWIN.

commit fc40d0a3cebee053d446032ae3150b06edf66a335
Author: Kensuke Matsuzaki <zakki@peppermint.jp>
Date:   Fri Dec 5 03:37:26 2003 +0000
file winwin32rootlesswndproc.c was initially added on branch CYGWIN.

commit c3f26a1b989dbbf5167e6e352aebf2f53bfc442
Author: Kensuke Matsuzaki <zakki@peppermint.jp>
Date:   Fri Dec 5 03:37:26 2003 +0000

file winwindowswm.c was initially added on branch CYGWIN.

commit 0f06636a9a088fc27262da0f0be9a20a3dbeab69
Author: Kensuke Matsuzaki <zakki@peppermint.jp>
Date:   Fri Dec 5 03:37:26 2003 +0000

file winwin32rootless.c was initially added on branch CYGWIN.

commit a84f16a9ad2ed0f874d2c1816aeedee96725d2657
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Thu Dec 4 22:03:38 2003 +0000

XFree86 4.3.99.901 (RC 1)

commit 33fdd50a94baab1db342bfce442907db8f8ad03e
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Dec 2 01:59:38 2003 +0000

Wrap ClipNotify to see region motions during MoveWindow.
Check window reorigin in PositionWindow and bump pixmap serial numbers to
revalidate GCs.
Fix picture clip region origin in automatic update
Initialize client private 'critical' value
Clean up pixmap bounds checking code to only affect contents allocated by
fb.
Oops. Call SourceValidate for Composite operations.
Add Xchips server (vesa based)

commit 6db77925406a0ee600998ad558a50190ba631649
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Dec 1 22:56:06 2003 +0000

file radeon_sarea.h was initially added on branch dri-0-1-branch.

commit 313046b424832fa2434d617997d5701157b55e7c8
Author: Eric Anholt <anholt@freebsd.org>
Date:   Mon Dec 1 22:56:06 2003 +0000

file radeon_common.h was initially added on branch dri-0-1-branch.

commit 2ad126286e524392741164babe530210892c377f
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file r128_sarea.h was initially added on branch dri-0-1-branch.

commit f486c136ad8d2d893cdf3ae6aa752578a6809d7
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file r128_common.h was initially added on branch dri-0-1-branch.

commit 1eb63ef1b5d0ce10117196df3e81e8312a55a93c
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_sarea.h was initially added on branch dri-0-1-branch.

commit 1fa5f28406f8a7ad54049e4bec129953149bd3ed
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_dri.c was initially added on branch dri-0-1-branch.

commit 14ce4f2c3ebc20e5f6d57adda0a7e14229541a72
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_dri.h was initially added on branch dri-0-1-branch.

commit 8887456e7d4fc1280287ed3e35c6c4464525827b
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_dripriv.h was initially added on branch dri-0-1-branch.

commit 6c9e7f47357b02f41b9f1f43f7f1d9b5a139e5b6
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_draw.h was initially added on branch dri-0-1-branch.

commit 2ad20d4e99d0d8ecb922507e0bfead88b7b7d4a55
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 22:56:06 2003 +0000

file ati_drawtmp.h was initially added on branch dri-0-1-branch.

commit ae2454f65698eef66b3507e586e4f8125cb1790d
Author: Anders Carlsson <andersca@gnome.org>
Add support for setting the video mode.

commit e31051ba26c18f6232798c5a5c4725f5ce53d6b9
Author: Phil Blundell <pb@reciva.com>
Date: Mon Dec 1 21:49:41 2003 +0000

Call KdShadowUnset before fbdevSetShadow.

commit 9cdd6fd9e3d6e44adf392279093f92fb6678a49c
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 04:33:36 2003 +0000

- Add fbdev mode-setting backend to Xati. It and vesa are compiled in when
  available, with fbdev being used by default.
- Use depth 16 by default when vesa backend is used.
- Add MMIO defines for PowerPC (should be in a common location).
  Many thanks for Michel Daenzer for much of this code.

commit ec7f5539302fad1ac7609ac423f1379f54916ab
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 03:15:13 2003 +0000

Add more RV250 PCI IDs.

commit d221c484f9521c780fc3c7e88833c62e50463c6d
Author: Eric Anholt <anholt@freebsd.org>
Date: Mon Dec 1 01:46:42 2003 +0000

Remove sys/io.h inclusion from some files that didn't need it, and change
asm/io.h to sys/io.h in vga.c, which newer Linux complains about.

commit 5fd7f82390d78621a8aad959eb216b8f7e1a97f
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Sun Nov 30 16:47:13 2003 +0000

xfree86 merge

commit 77836ebda2a47e04c56c5842f62fab5992909712
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Sat Nov 29 16:08:53 2003 +0000

xfree86 merge

commit 88193e928be7cf5a526b50ad10e0b4ac9cddf297
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Sat Nov 29 15:10:02 2003 +0000
xfree86 merge

commit 0097b6fe2d1739e46e4e7726aaa481b6dc84870c
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Wed Nov 26 22:49:07 2003 +0000

merge latest (4.3.99.16) from XFree86 (vendor) branch

commit d803918a9f0f80a2d6e4b711d8e43916cd09da5
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Nov 25 22:39:54 2003 +0000

Add new Radeon 9200 PCI IDs.

commit adc7f9a4ebdfe11d4cd6d9388b63dfe36450b39
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Tue Nov 25 19:29:01 2003 +0000

XFree86 4.3.99.16 Bring the tree up to date for the Cygwin folks

commit 90f1536dd315cd265bfc7ef35058761a65a01734
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date: Tue Nov 25 19:29:01 2003 +0000

Initial revision

commit d481855a73d89f51a18673aef7ce88f94a71629
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Nov 23 10:12:04 2003 +0000

- Fix Radeon offscreen pixmap pitch alignment.
- Remove usleeps from idle and waitavail code, recommended by keithp.
- Add a workaround for apparent broken acceleration with Rage 128 and
  offset alignment with 8-bit acceleration (24-hack and plain 8-bit).
- Minor cleanup of setup code.

commit 8e09afe657b110bc1ea9e58dea81a120c343d16e
Author: Eric Anholt <anholt@freebsd.org>
Date: Sun Nov 23 02:08:16 2003 +0000

Add RV250 PCI IDs.

commit b3247251fb7d9f2d50ef41d9ec2089629544d534d
Author: Eric Anholt <anholt@freebsd.org>
Date: Thu Nov 20 07:49:46 2003 +0000

- Fix a bug in pitch alignment for offscreen pixmaps.
- Add 24-bit acceleration for Xati using the 8-bit trick from mach64.
- Add offscreen pixmap support to Xati.

commit 41dde24b229f4bc4738637d9cd0a86b74b9f8457
Author: Eric Anholt <anholt@freebsd.org>
Date:   Thu Nov 20 00:05:56 2003 +0000

- Fix confusion of depth/bitsPerPixel in ati_draw.c
- Disable acceleration with 24bpp due to apparent broken acceleration.
  Accel at 24bpp was the cause of the crashes when people tried to use
  any depth over 16. XFree86 doesn't support 24 either.
- Disable at < 8bpp, too.
- Add the other Rage 128 PCI IDs.
- Remove unnecessary setting of scissor registers (only default scissor
  gets used).

commit 7abbce4222958b4670873a17f67ea1ec1d958e2
Author: Eric Anholt <anholt@freebsd.org>
Date:   Wed Nov 19 08:32:38 2003 +0000

- Add PCI information (device/vendor id, bus location) to KdCardAttr to
  help with ati, and future DRM drivers.
- Add new "ati" kdriver driver. It has ancestry in the r128 driver from
  andersca, but took a detour through being the WIP SiS 300 driver on the
  way. It supports Radeons (tested on QD VIVO and 7500) and Rage 128.
  Current limitations include that it requires depth 16 and that the
  other Rage 128 PCI IDs aren't included yet.

commit e9cb70dae0a85fcd116d7ffac73d1322ec282a94
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 18 18:38:48 2003 +0000

  Reset available offscreen segment save function pointer. (Not a functional
  change, just cleaning up a bit)
  Reset the screen->memory_base value when frame buffer is remapped. This
  makes sure new off-screen allocations point at the newly mapped region
  rather than the old (now unmapped) region.

commit f333581b7b4066ab054dd765a1e9bae0f3407188
Author: Seth W. Klein <sk@sethwklein.net>
Date:   Tue Nov 18 04:53:16 2003 +0000

  Added infrastructure for driver specific usage messages and added vesa
  usage message.

commit 003e87717cfe378261ed1a1e7bcb2cf0d200b1b8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Nov 17 22:09:12 2003 +0000
Recompute winSize/borderSize to fix them when changing redirection. Sufficient, but not always necessary.
Add borderClip to damage on creation so that clients needn't guess.
Fix API to FbDots functions to make PolyPoint work with screen_x/screen_y offsets.
Add debugging code to make sure no pictures are left pointing at freed pixmaps. "Can't" happen, but it did once.
Change KdOffscreenArea structure to eliminate separate private structure, eliminate the ScreenPtr, change from doubly linked to singly linked list.
Don't damage BackgroundNone windows on PW_BACKGROUND. Re-clip damage to borderClip in DamageSubtract.

commit c57959ad6a4c0f5329762f401fd7871ff2ee90c
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Mon Nov 17 19:03:47 2003 +0000

merge XFree86 4.3.0.1 to -CURRENT

commit acd200770513ad03dd3f4bdc7448edfd69b1ff9d
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Nov 17 06:54:52 2003 +0000

Clear window when Manual Subwindows redirect is destroyed
Fix Tile/Stipple origin with non-zero pixmap window origins
Use computed depth for TrueColor visuals as fbdev doesn't have one.

commit d568221710959cf7d783e6ff0b80ff43a231124
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Fri Nov 14 16:49:22 2003 +0000

XFree86 4.3.0.1

commit 9508a382f8a9f241dab097d921b6d290c1c3a776
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Fri Nov 14 16:48:57 2003 +0000

Initial revision

commit ded6147bfb5d75ff1e67c858040a628b61bc17d1
Author: Kaleb Keithley <kaleb@freedesktop.org>
Date:   Fri Nov 14 15:54:54 2003 +0000

R6.6 is the Xorg base-line

commit cb6ef07bf01e72d1a6e6e83ceb7f76d6534da941
Author: Keith Packard <keithp@keithp.com>
Accelerated image text code drew glyphs at wrong location when compositing manager enabled.

commit 318d525bf2fe52b059b1568e9b31d144b297a781
Author: Keith Packard <keithp@keithp.com>
Date: Thu Nov 13 09:14:29 2003 +0000

Have the composite extension tell the damage extension about clients which have redirected subwindows in manual mode. Those clients are marked Critical and given a significant scheduling boost whenever they receive a damage notify event. This dramatically improves update frequency.

If the kernel reported a large number of keys, readKernelMapping would walk off the end of the kdKeysym array.

Fix usage of _IOWR; the 'size' argument is actually a datatype.

commit e9904cefa39e1c9d3c7bf2f335dbaf23809cdba
Author: Eric Anholt <anholt@freebsd.org>
Date: Tue Nov 11 05:46:15 2003 +0000

Fix Makefile.am's to include header files needed for distcheck. Remove -Werror default and add --enable-werror switch to add it back.

commit 5dc119b73ffcae32c2d470b734dfa2f8af58e77e
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 10 20:35:05 2003 +0000

Fix KdXv interface to pass drawable down so that bits can be put into drawable pixmap rather than directly into the frame buffer. Rewrite logic in kdoffscren to make space for new allocations, now deals correctly with locked areas.

commit e500986657ea8b4e14a1ff4730ecda4583c75277
Author: Keith Packard <keithp@keithp.com>
Date: Mon Nov 10 06:40:23 2003 +0000

Must offset composite parameters by drawable coordinates in accelerated case.

commit d694b44259ff51cfc2c3ec9a58bf164010cc1ad
Author: Phil Blundell <pb@reciva.com>
Date: Sat Nov 8 18:51:59 2003 +0000

Avoid ugly shell error when libXdmcp isn't present.
New functions. (Tsunit): Register them.

commit 3e18c6363454aa87e1ad8c121019bab185e613b8
Fix KAA to work with screen_x/screen_y hacks from COMPOSITE Also add kaaComposite acceleration for simple bltblt case.

commit 1280f79054dc16ccf321006cd2de53e0f53c7b70
Author: Keith Packard <keithp@keithp.com>
Date: Fri Nov 7 23:29:29 2003 +0000

Ok, Composite extension is semi-working; when no-one asks for redirection, the server seems to act as before. With RedirectSubwindows (root, automatic), the server looks just like a regular X server. Now to go rewrite the (currently lame) compositing manager to get some real action on the screen.

Some of the fixes here are to make valgrind quiet with various ioctls used by kdrive/linux.

 Also fixed a bug where fbdev initialization was out of order in fbdev.c and smi.c

commit d319a0a610e90524ad29cab3c6d4d21b5298fc7f
Author: Phil Blundell <pb@reciva.com>
Date: Fri Nov 7 23:00:06 2003 +0000

Fix warnings.

commit 598c5d549abbb819f3391a2c88432941b546a213
Author: Matthew Allum <breakfast@10.am>
Date: Thu Nov 6 14:01:46 2003 +0000

tslib improvements

commit 7e1a564c416f6dc337a0021b1c0e1f2eb3b27296
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 5 06:46:13 2003 +0000

Replace translucent compositing hacks with PictOpSrc to match eventual extension semantics. Replace mouse acceleration with quadratic.

commit 5378236aa647ec9a723a3e5fbd2a57eb286a1938
Author: Keith Packard <keithp@keithp.com>
Date: Sun Nov 2 19:56:10 2003 +0000

merge xfixes_2_branch back to HEAD

commit 9e94665cf9cf0f74dff5b3cd64a4cde99e234fa45
Author: Phil Blundell <pb@reciva.com>
Date: Tue Oct 28 22:28:33 2003 +0000
try /dev/misc/apm_bios if /dev/apm_bios doesn't exist

commit bb99451f275827da580dcfa3b66cd0705fcee900a
Author: Phil Blundell <pb@reciva.com>
Date:   Tue Oct 28 22:27:35 2003 +0000

    move smi into VESA_SUBDIRS

commit 9a05f8f7858641b780046ad69d61f21ccbb93db8
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Oct 19 20:46:23 2003 +0000

    Minor cleanups -- remove a couple of bogus KdCheckSync calls, restructure
    KdOffscreenSwapOut to avoid unneeded 'continue'

commit 16b2ea64e7e0bd32d6dba078b4891167bd335d44
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 16 08:03:25 2003 +0000

    Discard/reconstruct list of offscreen areas on VT switch so no allocations
    can occur while switched away.
    Set type of off_screen_areas member to actual type instead of pointer

commit f4bdc36a386116c450ea6893ab3d08e81cea663b
Author: Anders Carlsson <andersca@gnome.org>
Date:   Wed Oct 15 05:34:54 2003 +0000

    Add a memory_base variable and use it.

commit f5916edbb172738c73c8f78b23981abfd8d03a079
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 15 04:59:45 2003 +0000

    hw/kdrive/*/Makefile.am Libraries in local dir must not use global path or
    make doesn't build things in the right order (-j)
    hw/kdrive/mga/mga.h, mgadraw.c Fix warnings

commit b3e47ce18ff9e86833fc6302b1e074912edce404
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 15 01:00:38 2003 +0000

    various Split out pixmap allocation debug statements Fix bogus offscreen
    pixmap size test Add migration to composite function for source
    operands
    VbeDPMS Remove extraneous call to VbeGetVib.

commit 28bcd2efd134bf6a3daa0738c9155b36cd84168
Avoid attempting acceleration on non-screen formats (for now)
Offscreen allocator API changes.

Use same assumptions as layergc about what layer kind is appropriate for
unwrapping pixmap operations. This makes sure the accelerated code gets
invoked for pixmaps
Add pixmap migration support to kaa. Can't quite automatically migrate
pixmaps off-screen, but soon we will. Can kick objects out of video
memory. Move per-screen linked list pointers to pixmap private. Wrap
Composite in preparation for migrating pixmaps. Have kasync ignore
drawable type so that pixmaps trigger sync Add KdOffscreenFini to
cleanup on server reset. Switch off screen area to have only a 'save'
function; moving objects to off screen memory is done by saving then
freeing the area.

-Wall fixes. Might have fixed VESA based DPMS code as a result

Check for off-screen pixmap support in KaaDrawableIsOffscreenPixmap. -Wall
fixes. Allocate pixmap private space only for screens with off-screen
 pixmap support

-Wall fixes. Support off-screen pixmaps

-Wall fixes. Add klinux.h to export function declarations
commit a398339b6d5209a11af93a3b836b0cad326a0799
Author: Keith Packard <keithp@keithp.com>
Date: Tue Oct 14 05:04:22 2003 +0000

-Wall fixes

commit 44f2e82f1b463e272f4e521561f74eb14bf24082
Author: Anders Carlsson <andersca@gnome.org>
Date: Mon Oct 13 02:19:47 2003 +0000

Use pixmaps instead of drawables in the kaa functions. Have the mga server
support accelerated operations on offscreen pixmaps.

commit 47a9fab5e286c5224047690482a2cb36a3c17b88
Author: Anders Carlsson <andersca@gnome.org>
Date: Mon Oct 13 01:19:37 2003 +0000

Add support for offscreen pixmaps.

commit c538fa874257a2cbf53f329d3982e7a01fe629
Author: Anders Carlsson <andersca@gnome.org>
Date: Mon Oct 13 00:56:21 2003 +0000

Fix a couple of bugs.

commit a50438b4709b32ec869e232628971b0dccd27adf
Author: Anders Carlsson <andersca@gnome.org>
Date: Mon Oct 13 00:19:58 2003 +0000

Add offscreen memory manager and update the servers to reflect the name
change for the kaa structure.

commit 307f3dbd10e0c8e392865e85e9e3e4dff108df02
Author: Anders Carlsson <andersca@gnome.org>
Date: Sun Oct 12 14:17:24 2003 +0000

Remove this for now.

commit ab3305d0ac805d0e9e917c35b316d9b58d2b21d7
Author: Anders Carlsson <andersca@gnome.org>
Date: Sat Oct 11 19:36:13 2003 +0000

Add ATI Rage 128 server.

commit ed98d3814ee65cd9fd18eeadbd20c8fc6b4ab342
Author: Keith Packard <keithp@keithp.com>
Date: Thu Oct 9 23:35:44 2003 +0000
use #if instead of #ifdef

commit 4dd37de858464e576bf3cd10255a8e233a5b05d5
Author: Anders Carlsson <andersca@gnome.org>
Date:   Thu Oct 9 16:21:24 2003 +0000

Build smi after vesa.

commit e5a1c9952f7d621493f08257c8b9456b7608c55a
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 07:29:31 2003 +0000

Initialize smi chip on graphics setup. Seems to help some.

commit 10f721acc5e59ea4152b94246b62963f2ff9d678
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 07:12:01 2003 +0000

Leave iopl set to 3 so vesa module will work

commit f74555e94264e6f703d399a5e0475c7283e20a88
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 06:36:26 2003 +0000

Add xfixes, fix smi driver to use either fbdev or vesa. Add hole mapping to vesa server by default

commit 346aff7ef6f47a191c7f134b7843a634189b9e83
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 9 06:35:11 2003 +0000

Use either vesa or fbdev, selectable at compile time

commit adc5b8068d5532a6f3f23e64d3c668a22d5b1504
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Oct 5 05:22:35 2003 +0000

Fix fbdev server to allow accelerated servers on top to use RandR. Switch smi server to fbdev (vesa bios doesnt work on the Acer I have here)

commit f3d8476ced1e3ba4b4ca7c9e23e98c2cc7fccc14
Author: Phil Blundell <pb@reciva.com>
Date:   Sat Oct 4 02:56:54 2003 +0000

few more fixes for h3600 ts

commit aae3e6dcb3d72eba6d7d8d99079782ed1bfe63bd
Author: Keith Packard <keithp@keithp.com>
configure.ac Makefile.am os/oscolor.c Xext/saver.c Xext/Makefile.am
hw/kdrive/linux/ts.c hw/kdrive/src/Makefile.am hw/kdrive/src/kdrive.h
hw/kdrive/src/kinput.c hw/kdrive/src/kmap.c Autodetect VM86 (for vesa),
AGPGART, APM, MTRR, tslib and handhelds.org touch screen. Add
USE_RGB_BUILTIN and code for fileless RGB database. Add
MIT-SCREEN-SAVER

commit efbf205a2ac4792b71d39f8e3ef3b1cf12697c0
Author: Phil Blundell <pb@reciva.com>
Date:   Fri Oct 3 15:27:46 2003 +0000

   add --disable-kdrivevesa option

commit 89a536f349525e642bb4cd233bc47864ed4a6ad7
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 2 02:30:28 2003 +0000

   Add smi server

commit 5a21f4f4d0c03e0e34f1979fd7ce8f0d19b00d4
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 1 06:43:50 2003 +0000

   Add XDM cookies. Fix up support for pkgconfig X bits

commit a42e31b28c493dc3d6b32cede4e72ff17fe983183
Author: Matthew Allum <breakfast@10.am>
Date:   Tue Sep 30 22:14:59 2003 +0000

   Fixed tslib driver to handle VT switches

commit a0876ade6479c40dcef63f70f4c65a5988edeba
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 30 20:49:47 2003 +0000

   Enable maintainer mode from autogen.sh. Fix vesa build to create library
   before program. Remove bogus AC_SUBST lines for XSERVER_CFLAGS and
   XSERVER_LIBS

commit e8c02296476f068bc8158d112dc15df00ddac2a
Author: Matthew Allum <breakfast@10.am>
Date:   Tue Sep 30 20:15:14 2003 +0000

   Added --enable-tslib configure option

commit a42384e9356ec79510682baf08410e87d7102ff
Use other freedesktop.org packages to build the server.

commit 6a098a88af174db1674662c09e2385b4e6e0bb4e
Author: Anders Carlsson <andersca@gnome.org>
Date: Wed Sep 24 23:36:54 2003 +0000

Add beginnings of offscreen memory manager.

commit 918a82733eeabcb14fc82742cc68223d8a7e2a67a
Author: Keith Packard <keithp@keithp.com>
Date: Wed Sep 24 21:07:06 2003 +0000

hw/kdrive/src/kdrive.c
hw/kdrive/src/kdrive.h Add -switchCmd option to set command that is
executed whenever the VT is enabled or disabled. This permits input
device to be customized by external apps when switching to X.

commit 20bbd750d0d359e55cbdc86d013ac665bbe
Author: Anders Carlsson <andersca@gnome.org>
Date: Mon Sep 22 21:14:59 2003 +0000

Accelerate server.

commit 49771e3f074cae3947b0084e6514a19dc4c4cad1
Author: Anders Carlsson <andersca@gnome.org>
Date: Thu Sep 18 20:48:48 2003 +0000

Add mga server to the build.

commit 07ab15d61d2468fe858453cdabe7296d19fc9e10
Author: Anders Carlsson <andersca@gnome.org>
Date: Thu Sep 18 20:47:43 2003 +0000

Add mga server

commit b260825e880615f589e2bad35491ebbb598e21a0f
Author: Anders Carlsson <andersca@gnome.org>
Date: Thu Sep 18 14:44:57 2003 +0000

Try this.

commit b889d4ba2c2e59769a3ff6fd00ee5bb395108827
Author: Anders Carlsson <andersca@gnome.org>
Date: Thu Sep 18 14:42:00 2003 +0000
Try things out.

commit 85ff67670c6216a8c4368a8bd70fd0434a4e0aca
Author: Anders Carlsson <andersca@gnome.org>
Date:   Tue Sep 16 21:07:16 2003 +0000

Add fbdev server to the build.

commit be12dcdcf39a30f69fe73cb5a4acacef8024db6
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 12 07:00:19 2003 +0000

Switch to freedesktop.org libXfont

commit eca43a59ec95646836f9704714823249a15747fa
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 12 01:51:16 2003 +0000

Clean up mach64 for autofoo

commit 6b16b827bb125b43b41b7f8558991e90ada316de
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 12 01:49:46 2003 +0000

Add some configure options, make the mach64 server build

commit ce55d3234dc34157f0fc8059a6793ced17fa4519
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 11 05:15:08 2003 +0000

Move kdrive common sources to src dir

commit 269b9dac5a96005fe38379377526592cb7930a51
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 11 05:12:51 2003 +0000

Get Xvesa building

commit 0d775576b9b3cf410e9a463b87340612d34be13d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 11 03:26:03 2003 +0000

Add Makefile.am

commit ef8977a30c855af8e8bb635127efb94f232983
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 11 03:23:13 2003 +0000
Commit 14a8311bb3b6273617f7c7b70222e97835e9c8af
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 11 02:31:24 2003 +0000

More build fixes

Commit 8bc8fd678b20dde2a3fc47ff5b617bc8046ea9f
Author: Mike A. Harris <mharris@redhat.com>
Date: Thu Sep 11 02:02:54 2003 +0000

Make more stuff build

Commit 514ab46ce3c6eb0163720315474eca884d029b62
Author: Anders Carlsson <andersca@gnome.org>
Date: Thu Sep 11 00:47:36 2003 +0000

POSIX sigaction cleanups - removed act.sa_restorer as it's not in POSIX and
is not portable

Commit 283a7f32c449b1970e5a484351f8396a8af99da
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jul 7 19:13:03 2003 +0000

Start autoifying everything.

Commit 804b89284665f19e2e92a0f7fadc72c25fbb3f5d9
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jul 2 17:53:46 2003 +0000

Update RCS tags, fix keyboard hang on VT switch, fix scroll wheel mice, add
-rawcoord option to not transform mice on rotate, fix mtrr to use
power-of-two size, add a few vesa options

Commit b923d897a51707c25b2dc62395d9765ba1a47bfe
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jul 2 17:53:46 2003 +0000

Silicon motion driver for kdrive

Commit 544ee9bb7a060d6a85b5168a2de74ff1db430c89
Author: Marc Aurele La France <tsi@ualberta.edu>
Date: Wed Apr 23 21:51:18 2003 +0000

Initial revision

136. Fix bug that prevented fbman from using the last partial scanline of a
Mach64 framebuffer (Marc La France).
135. Make ATI Mach64 FIFO cache integrity testing optional (Marc La
134. Export ATI Mach64 hardware overlay as an XVideo adaptor (derived from GATOS project, Egbert Eich, Marc La France).
133. Reorganise ATI Mach64 support into separate source files (Marc La France).
132. Refine atimisc's decoding of the panel mode on server entry in an attempt to reduce the effect of atyfb bugs (Marc La France).
131. Make Rage128 and Radeon XVideo available even when 2D acceleration is disabled (Marc La France).
130. There is no longer any need to require hardware cursors during Rage128 and Radeon XVideo displays (Marc La France).
129. Initialise v4l's XVideo adaptors last (Marc La France).
128. Reduce cut&paste effects by adding more helpers to Xv (derived from #5645, Bjrn Augustsson, Marc La France).
127. Centralise a region comparison primitive into 'mi' and use it instead of local definitions throughout the server (Marc La France).
126. DPMSExtension & XvExtension driver cleanups (Marc La France).

commit 870d0f8752c11c3df42185786ab1e2bd200e4de1
Author: Egbert Eich <eich@suse.de>
Date:   Thu Dec 12 18:29:05 2002 +0000

621. Let kbd driver test if Xserver is in suspend before handling any input events (Egbert Eich).
620. Fixed agp version checking to accept minor versions >= the specified number (Leif Delgass).

commit 7827fcee0b5ff600d0adc3a30eab69e8141c2e548
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Nov 13 16:37:39 2002 +0000

Allow input devices to be closed while the VT is switched away (needs per-driver support)

commit 3eaea6608bc33633c00860008f246f59ad5687a7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 12 22:20:42 2002 +0000

Update ipaq-specific ts driver to match generic tslib version

commit 612e82053d986df70bce9c87038244eab8c3dc13
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Nov 5 05:28:34 2002 +0000

Clean up touch screen hacks for controlling pointer on alternate screen

commit 358d887cbef4d2ec34532a364dd44205eab36c23
Author: Keith Packard <keithp@keithp.com>
Add support for ARM linux TS lib (disabled by default) in kdrive

commit f0a8d06fca3f3fe0a652efa65966f4b0b0d688c12
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 31 18:29:50 2002 +0000

Refix mouse matrix computation for touch screens. Update usage message for
-screen option

commit 28d191680ecb6d50c1ccce12e55a3c433f6f48
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 30 21:25:53 2002 +0000

Uninitialized mouse matrix elements

commit dd7c85f108d01d20724830019e88d56012c33c9
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Wed Oct 30 12:52:06 2002 +0000

441. Import Mesa-4.0.4, and resync with the DRI trunk (DRI Project).

commit d04246c8fa4132063234ab44a68a7fac8c22261
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 18 06:31:17 2002 +0000

Changed arguments to vesaRandRSetConfig

commit 7d214e2a2a1601ca14be6b52190c5b22611e2d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 18 06:08:10 2002 +0000

Fix additions of RandR support in kmode.c

commit 5bb4a7b6998132d574d823301333b7e119dc2713
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 18 06:00:29 2002 +0000

Fix other half of kdrive mach64 video code after randr update

commit e1c304e22b1a29a5259aec1e956dbc75e0fa0138
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Oct 14 18:01:42 2002 +0000

Add refresh rates to RandR (v1.1)

commit 5804e69f4c20dcd33f69673aa82da3051e6eed3c
Custom file for rotating pcmcia screens

commit b5d1c538622b21bed8eb59b557d79323f65ffbd7
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 8 21:28:05 2002 +0000

    Add vtxx option to kdrive servers

commit f214cab20baf57fc23389ef9b63a3e3a50b2a4f6
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 8 21:27:18 2002 +0000

Clear screen on mode switch

commit b28a8c6e2a1fbc57d96d94b7445c86f94c2d8d4d
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Oct 8 21:25:35 2002 +0000

    Add another mach64 PCI id

commit 9373d9186b413e1d53200b191816b9143d19c4bf
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 4 01:44:20 2002 +0000

    Fix mouse mapping under reflection

commit a80e1e5aed07cb57151408b0481f18e2fb7f146
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Oct 3 22:09:04 2002 +0000

Update kdrive servers to support reflection

commit 238a2ec201a52d59a46540dd419d8d6f6bf8daa
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Sep 29 23:39:47 2002 +0000

    Update RandR to 1.0 (library version 2.0)

commit 5d871996431e33b0d64ad9158e040e46770b6ee4
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Sep 26 02:56:48 2002 +0000

    Add image transformation and sub-pixel ordering to Render

commit a2637ba1f6c8417a48e95c9b65542e696ba0e8c0
319. Moved LdPreLib define after the vendor/OS specific config files as it may depend on setting done there (Egbert Eich).
318. Several fixes for cross compile environment (Egbert Eich).
317. Added code to allow for building of static only libraries with -fPIC for platforms which require it (Egbert Eich).
316. Added `-m32' to gcc flags as default for ia32 builds when gcc version is >= 3.1. This allows building a 32 bit Version of X on 64bit x86-64 (Egbert Eich).
315. Changed direct calls of ld to gcc-nostdlib' for Linux (Egbert Eich).
314. Changed calls to as to 'gcc -c -x assembler-with-cpp' for Linux (Egbert Eich).
313. Added `-fno-strict-aliasing' flag to gcc version >= 3.1 (Egbert Eich). Strict requires that one address must not contain pointers to different types - a feature heavily used by X (Egbert Eich).
312. Fixed a core dump problem in libXtt (?) (Egbert Eich).
311. Removed '#pragma pack' from structures that contain function pointers in x86emu. This causes problems on gcc 3.1 for ia64 (Egbert Eich).
310. Added defines for missing X types to saverproto.h (Egbert Eich).
309. Fixed compiler warings generated by gcc >= 3.1 in mesa drivers (Egbert Eich).
308. For platforms that allow both 32 and 64 bit libraries to be executed split Xlib i18n modules path into
    <libpath>/X11R6/lib/X11/locale/lib/common and
    <libpath>/X11R6/lib/X11/locale/lib64/common. 'lib64' has been defined to be the default path for 64bit shared libraries on these platforms (Egbert Eich).
306. Fixed code in cfb that didn't comply with C sequence rules. Modern C compilers tend to be more aggressive on code reordering (Egbert Eich).
305. Changed arguments of NoopDDA() from VarArgs to void. Handling of VarArgs by gcc isn't compatible with the way it was used on certain platforms (Egbert Eich).
304. Added support for 32bit pixmaps for 24bit overlay framebuffers in fb overlay code (Egbert Eich).
303. Fixed kdrive to print a meaningful error message instead of just core dump when no matching graphics cards is found (Egbert Eich).
302. fixed portability bug in xwd (Andreas Schwab <schwab@suse.de>)
301. fixed X Server crash, which happended each time a proportional iso10646 font was loaded with xtt backend (Yong Li <rigel863@yahoo.com>)
300. Added some ARM specific fixes to compiler.h (Uli Hecht).
299. Added a virtual 'dummy' driver (Egbert Eich).
298. Fixed core dump when certain access functions are not set in xf86Bus.c (Egbert Eich).
297. Fixed problem where SIGIO could be disabled after a server reset.
296. Added configurable list of devices the xf86Misc extension is allowed to change the mouse device to (Egbert Eich).
295. Changed default mouse type to 'auto' when generating config file with --configure (Egbert Eich).
294. Made sure keyboard modifier settings are consistent after exit from DGA when the xkb extension is used (Egbert Eich).
293. Disabled keyboard processing when Xserver is suspended by power management. This allows effective locking of laptops when stolen (Egbert Eich).
292. Added/improved options for lockfile syncing (Egbert Eich).
291. Added support for backup copy of Xserver logfile (Egbert Eich).
290. Fixed GetTimeInMillis() to use deltas instead of absolute time returned by gettimeofday(). This ensures time is monotonic in X (Egbert Eich).
289. Fixed xf86Misc extension to allow modification of Expps2 mice (Egbert Eich).
288. Made code in xf86MiscExt.c more readable (Egbert Eich).
287. Fixed PCI CardBus bridge handling (Egbert Eich).
286. Added code to reenable PCI bus mastering after coming back from a VT switch to radeon driver (Charl P. Botha <http://cpbotha.net/>) (Egbert Eich).
285. Dito for r128 driver (M. Harris).
284. Dito for glint and mga driver (Egbert Eich).
282. Set rgbBits to 8 for all HiQV chips in chips driver (Egbert Eich).
281. Moved initialization of accel functions past initialization of offscreen fb manager in chips driver (Egbert Eich).
280. Fixed initialization of video in chips driver (?)..
279. Fixed HALlib problem restoring text mode on G550 (Egbert Eich).
278. Restructured and included Matrox's Merged Framebuffer changes to mga driver (Egbert Eich).
277. G450/550 clockchip programming fixes (Matrox).
276. Fixed HW Cursor for HALlib frame granularity (Egbert Eich).
275. Enabling 2D accel in 24-bit for neomagic 2360 and 2380 (Egbert Eich).
274. Added support for builtin 1024x480 mode of Sony subnotebooks for Neomagic driver (Egbert Eich).
272. Fixed RAC function registration in S3 driver (Egbert Eich).
271. Added some voodoo to screen initialization of S3 driver (Egbert Eich).
270. Fixed vbe/int10 support in SMI driver. It used to core dump when BIOS was not usable (Egbert Eich).
269. Separated BRIGHTNESS and and CAPTURE_BRIGHTNESS video attributes in smi driver: CAPTURE_BRIGHTNESS refers to the capture chip (ie. Philips SAA7110) while BRIGHTNESS controls the video overlay of the SMI chip itself (Egbert Eich).
268. Disable automatic loading of DRI when running SUN fb as this is
inconsistent with other drivers (Thorsten Kukuk).

267. Fixed Gamma/Brightness code in trident driver (Egbert Eich).

266. Added FpDelay debugging option (Egbert Eich).

265. Fixed Cursor/VT switch support for vmware driver (Egbert Eich).

264. Fixed Blit problems in vmware driver when running KDE (Egbert Eich).

263. Added RENDER support to vmware driver (Egbert Eich).

262. Added C&T 69030 to extrapci.ids (Egbert Eich).

261. Improved mouse autodetection code (Egbert Eich).

260. Restructured int10 code so that vm86 and x86emu support can be loaded as modules. Implemented heuristic to try vm86 first and fall back to x86emu. This allows 32 bit Xservers to run on x86_64 on 64-bit kernel without vm86 support (Egbert Eich).

259. Restructured elf loader: determine which section to load from elfheader flags (Egbert Eich).

258. Adding RENDER Support to RAC (Egbert Eich).

257. Using borderClip instead of borderSize region for redisplay function in miext/shadow code to avoid core dumps when vt switched away (Egbert Eich).

256. Replacing sprintf() by snprintf() in lbxproxy to eliminate possible buffer overrun exploits (Egbert Eich).

255. KP_Decimal fixes to Czech and Slovak keyboards (Jan Holesovsky <kendy@suse.cz>) (Egbert Eich).

commit 2698ee9f29189a44de1c92df99f48d45f0111577
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 15 18:07:57 2002 +0000

Prefer touchscreen to mouse

commit fe477855d7d714c154dc9fcb1d0aa67fb8e4e5a5
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Aug 2 16:30:50 2002 +0000

    Fix for iPaq IOCTL changes

commit cf49ce6f26caee30f41606e0b2b658863e7a145
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Aug 2 16:15:02 2002 +0000

    Allow both touchscreen and mouse at the same time

commit 1a5f923c62dcff3b3a81c6532f3dc071c70345eb3
Author: David Dawes <dawes@xfree86.org>
Date:   Tue Jun 4 22:19:58 2002 +0000

174. Fix makedepend so that it can parse a unary ‘+’ operator (#5185, Mark Snitily).
173. Fix a typo in Xvesa's emulation of instructions forbidden in vm86 mode (#5184, Juliusz Chroboczek)
172. Fix a bounds check in Xlib's Region code (#5183, Owen Taylor).

commit 98f8d7af3cb7a10cc268a8bddd3039539b1bf90f2
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Feb 19 00:18:05 2002 +0000

    kdrive/vesa: apply vm86 patch from Juliusz

commit 6d8cedf68c7803330be920cf7506727c4ad6108c
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Feb 14 16:08:05 2002 +0000

    update kdrive manual and usage

commit 44b20bfa587def1f3127980e67ff47e695c3e51
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Feb 1 00:52:15 2002 +0000

    kdrive/mach64: recognize the mach64li

commit 3abb3e073961986137f8fec1f194c60636b9e864
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jan 18 16:25:19 2002 +0000

    kdrive: fix button emulation for iPAQ

commit 88810cfc02941d7e54924e25aa872e5cc740d274
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Dec 20 16:47:30 2001 +0000

    kdrive/linux/mouse.c: convert mouse data to signed values for compilers
    with default unsigned chars

commit 83388cb23282471e80d513bd3ab472b51c110b35
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Dec 10 16:34:20 2001 +0000

    kdrive/i810: bit swap for i810 cursor (from Pontus Lidman)

commit 4646a6c3b925676039f50babc4f3c780f6e81bcc
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Dec 7 02:19:04 2001 +0000

    kdrive: work around ipaq touch screen compile problems

commit 54feb8a4e8f0e0cb6eb40b494171fa4f3552cfec3
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Dec 7 02:18:19 2001 +0000

kdrive: missing registration for mouse input type

commit 636390fb9d6314e506f593da6556fa198b4e9bf6
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 22 23:38:21 2001 +0000

kdrive: initialize all Linux mouse driver fields

commit 668c25a769044f06ed47a3145a11aceeb9574c9d
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 8 10:26:24 2001 +0000

kdrive: fix ALTGR keyboard mappings

commit e76c6b2acae5622dd2d4944cd6f3673dbc70a571
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 8 09:35:08 2001 +0000

kdrive/linux: update ps/2 mouse detection/configuration code from FreeBSD
bits

commit 6fafe3b092f799da788a1ae75be1c23da42f0983
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Nov 8 09:33:51 2001 +0000

kdrive: Open APM device r/w for kernel 2.4.14

commit 2f2e256dc71c42b7856440ec43b1c122019b95b7
Author: Marc Aurele La France <tsi@ualberta.edu>
Date:   Mon Oct 29 16:34:56 2001 +0000

DPMS warning fix

commit b8d90c5ea4659a01694864e6c05a563dcea296eb
Author: Marc Aurele La France <tsi@ualberta.edu>
Date:   Sun Oct 28 03:33:10 2001 +0000

407. Fix for threaded libraries (Marc La France).
406. Finish removal of SuperProbe (Marc La France).
405. A rather large number of warning fixes throughout (Marc La France).
404. Fix bug in HTML install script (Marc La France).
403. Missing ident lines for some XFree86-modified files (Marc La France).
402. Add default half-width doublescanned modes (Marc La France).
401. Mark all driver-registered resources with ResBus (Maarc La France).
400. Fix DPMS-related build problem (Marc La France).
399. Log a message just before calling each ChipProbe() during `-probe` processing (Marc La France).
398. Temporarily disable ISA probing on SPARCs and PowerPCs (Marc La France).
397. Add PCI IDs for Sun hardware (Marc La France).
396. Fix memory leak in resource relocation (Marc La France).
395. Do not relocate resources that only conflict with disabled non-video PCI devices or disabled PCI ROMs (Marc La France).
394. Re-organise SBUS code (Marc La France).
393. Add as-yet-unused definitions for PCI resource types other than I/O and memory (Marc La France).
392. Add doc for Solaris, but don't format it yet (Marc La France).
391. Normalise driver names (Marc La France).
390. For SPARC, disable DGA support in ATI driver (Marc La France).
389. Clean up some debugging messages (Marc La France).
388. Fix newport driver for when a /proc fs isn't mounted (Marc La France).
387. Fix DAC handling bugs in s3 driver (Marc La France).
386. Fix resource registration bug for PCI Tseng's (Marc La France).
385. Add aperture driver for Solaris (not yet used) (Marc La France).
384. Rework scanpci to fix problems that prevented it from completely displaying non-PCI bridges and Simba bridges (Marc La France).
383. Fix build problems in some input drivers (Marc La France).
382. Fix int10 compile problem for SPARC and PowerPC (Marc La France).
381. Ensure master aborts on secondary buses complete normally during PCI scans (Marc La France).
380. Some memory mapping and Solaris cleanups (Marc La France).

commit a8518b35617a479f50c735ec015115b853f4aa327
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Oct 24 20:14:52 2001 +0000

kdrive/savage: Long lines cant be drawn with accelerator

commit 28fd5f7525848cf0109f9cf2d6311f3717570a5d
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Oct 12 06:33:12 2001 +0000

kdrive: add new auto-detecting and auto-switching mouse driver

commit 5f310d7f8b566b1e331286752d349f87ef43a811
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Sep 29 04:16:39 2001 +0000

kdrive: restructure APM/VT switch support to reset keyboard state and flush buffer on APM resume

commit bb2e1c53b58ac94539f0d11ae195186a9ee0a2f7
Author: Keith Packard <keithp@keithp.com>
hw/kdrive: Xv window private should be allocated on demand

commit 59cd35f634468acfa2e48711da09fabec811d96f9
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 14 19:25:17 2001 +0000

hw/kdrive/vesa: initialize mouse matrix for non-rotated case correctly

commit fbaf3ceae0519ebdfee4b6a73b1bc0000f141cf2
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 14 19:24:11 2001 +0000

hw/kdrive/trident: solid fill checks busted for planemasking

commit 216090d1aedd23c691a75da25b14d8543b932e1c
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Sep 5 07:12:43 2001 +0000

kdrive: Add primitive ct65550 server. Update kdrive/vesa code to support
DPMS using VESA bios routines. Include support for Toshiba SMM DPMS as
well

commit f856b952ec7251d6e95f0b93d62fb026d07b0ebc
Author: David Dawes <dawes@xfree86.org>
Date:   Thu Aug 9 20:45:15 2001 +0000

187. Add an MS mouse driver for KDrive (#4754, Juliusz Chroboczek).

commit f4db75ac431c14e0c24ff7549c6ce1e3b0b86b87
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 9 09:08:55 2001 +0000

kdrive/mach64: support Xv under RandR

commit 628d7695d1696f6f5cba6ea1f2548aa5d0f38c80
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Aug 9 09:06:08 2001 +0000

kdrive: disable sigio debugging

commit 958c0374a6709386e91b4b3ed7ba8fa81d415ebf
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 24 21:26:17 2001 +0000

kdrive: add apm support, fix MTRR unmapping bug
commit b7eb8a35b51aa2edc9ff59f091ee88ea7000b757
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jul 24 19:06:04 2001 +0000

    kdrive: Unmap vesa device when disabled

commit d2d221a012950b98e48e47b6dea38e6ad385fef8
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 23 03:44:17 2001 +0000

    kdrive/mach64: Force read of GUI_STAT on every op to avoid problems across suspend/resume

commit 79486b3b5c792a990cb73b4efa453218262e605f
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jul 20 19:35:30 2001 +0000

    Too many changes, but all in kdrive:
    Add support for global screen origins (-origin option), handles both
    Xinerama and mouse crossings.
    Fix XV enable/disable sequences -- can't use card wrappers as cards have
    more than one screen.
    Change vesa/fbdev to use new depth-independent rotation shadow update
    Fix vesa to allow starting rotation value (again)
    Make vesa driver write all colormap changes in one INT10 call

commit 9826d5a1339570c037ae1ef29e9a237874a6ffa2
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jul 19 08:46:30 2001 +0000

    kdrive/fbdev: only setting first colormap entry on static hardware

commit 35d8b5f44269c97497c73d363b8f0345757c04c
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jul 16 19:48:00 2001 +0000

    kdrive/fbdev: fix static color case

commit 090a429573dfb965ebc4ea8ea57e3b9e5f9a8539
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 11 16:42:17 2001 +0000

    kdrive/fbdev: dont set DPMS mode repeatedly to the same value

commit 99fb2eb76d8f93578e4aba75c73b9be0766f7b6f
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 11 05:02:24 2001 +0000
Generalize kludge in fbdev that normalizes pixel formats to something that
Render can handle

commit 562474091a3d52a062eb89d25a7d38200a785425
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Jul 11 02:58:19 2001 +0000

    Fix TOUCHSCREEN support in kdrive

commit 67cd53abfce7ed17ae4c428332a9e0fd908da97a
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jun 29 14:00:41 2001 +0000

    Rework kdrive input fd handling, enable multiple simultaneous mice

commit c872ee82045e8c7ce019df2577d06bec549cd71c
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jun 29 13:57:45 2001 +0000

    kdrive: typo in MTRR calculations

commit 63dd090655ba995b8f26386bb50cb5b7568f7da0
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Jun 29 13:55:53 2001 +0000

    kdrive: dont touch hardware when disabled

commit 01a53daa03a8ee36ce136dde3a9a9b152e9c2e2f
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Jun 23 03:41:24 2001 +0000

    Clean up mach64 video code to add ReputVideo and make StopVideo not crash
    the machine

commit 31d47ec8bed1b02d04563ba502eaeb028975f653
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 21 21:44:09 2001 +0000

    kdrive/mach64: remove useless Xv debug printfs

commit bd61c15279e2195c72b3add32961ed21e293d48b
Author: Keith Packard <keithp@keithp.com>
Date:   Thu Jun 21 01:01:30 2001 +0000

    Add RCS tag

commit 66c9184807997d2a0a155ba1697906c07396863f
Author: Keith Packard <keithp@keithp.com>
Date: Thu Jun 21 00:58:51 2001 +0000

Fix screen physical size in RandR code for kdrive fbdev and pcmcia servers

commit f8a456f094d8f61c021bfb6e6f0a4723ebdc73f
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Wed Jun 20 21:53:31 2001 +0000

Add RandR support to the Kdrive pcmcia driver.

commit 918ff10f2697ee8c17013bd31596072a38c5ac9b
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jun 19 09:31:47 2001 +0000

Finish Xv support for kdrive/mach64

commit 6d86517b0ed0db51f3eaf19c186db52febe1e47e0
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jun 16 05:53:05 2001 +0000

Screen flipping broken pointer remapping

commit 54ae8ec0c1c3633788fd9b19636093860c75d53
Author: Keith Packard <keithp@keithp.com>
Date: Sat Jun 16 05:48:49 2001 +0000

Patch DPMS support in kdrive/mach64, add preliminary (broken) Xv support

commit f386ca6c69ba10cd8c0dd60bb25cde37ecf8bc7
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 13 19:18:44 2001 +0000

Support initial rotation in kdrive/fbdev, use that as the normal orientation

commit 93dbdc89e172fd5d6450f21ebc91011771ac0100
Author: Keith Packard <keithp@keithp.com>
Date: Wed Jun 13 19:18:03 2001 +0000

Add -dpi support to kdrive

commit a6517a3056a88fca35a47185a0e6d83f3e8b0015
Author: Keith Packard <keithp@keithp.com>
Date: Mon Jun 11 01:38:54 2001 +0000

Advertise supported rotations in kdrive/vesa server

commit 4f8254b31f30bd12224c2fdcecfbd67b41eced7e1
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 5 17:17:39 2001 +0000

Attempt to make kdrive/fbdev run on static gray hardware (iPaq 3150)

commit bf4dbf6f45e4e6b1b86c624b1995a1050b7a0eeef
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Tue Jun 5 16:57:44 2001 +0000

fix some warnings due to new shadow code

commit a4ba10ba6ffbb1c01a0df5b34669b9fb24ad0e7d9
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Jun 5 16:49:31 2001 +0000

  kdrive/fbdev: RandR initialization sequence change

commit 71cf46356ba70563f036f535e60667727db442ae
Author: Keith Packard <keithp@keithp.com>
Date:   Mon Jun 4 09:45:42 2001 +0000

  Allow for hardware acceleration under RandR with Layer. Hardware/Software
cursor switching still busted

commit 54e66d92db917923e33e018e628a7629d6705507
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jun 3 21:52:46 2001 +0000

  Update RandR protocol

commit 88ae32841d766c7d0df79ee25e1db62996d4ecb3
Author: Keith Packard <keithp@keithp.com>
Date:   Sun Jun 3 18:48:19 2001 +0000

  Add mach64 driver to Tiny-X

commit 14ed0c3d6d674df4edcbcd8840a7cea4b41a0673
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 30 15:36:25 2001 +0000

  Fix kaa to not try Copy for pixmap sources

commit a2bd75d15a99d4ee117e17921f0426228d53f5e8
Author: Keith Packard <keithp@keithp.com>
Date:   Tue May 29 21:55:41 2001 +0000

  Xfbdev: Make sure screen gets re-enabled on RandR failure
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 36864

commit 562925c439cf1746f2caa720d4f2dce54ba0311b
  Author: Keith Packard <keithp@keithp.com>
  Date:   Tue May 29 17:47:55 2001 +0000

  Fix Xipaq build after layer/RandR additions

commit 78b53386b51cde4fe4664963ddafa36b814360f2
  Author: Keith Packard <keithp@keithp.com>
  Date:   Tue May 29 04:54:13 2001 +0000

  Add miext/layer for more complete RandR support in kdrive/Xfbdev

commit 06f758797ab3651b0e293ae26daf4df77702fdde
  Author: Keith Packard <keithp@keithp.com>
  Date:   Sat May 26 01:25:42 2001 +0000

  Add initial RandR support to Xvesa

commit ba8351609869165aa2de92b7a876dc2d2768cb5b
  Author: David Dawes <dawes@xfree86.org>
  Date:   Fri May 25 18:40:59 2001 +0000

  38. Fix xmh's use of XtNewString() with getenv (#4694, Tim Waugh).
  37. Xdm/PAM fixes: leave it to PAM to observe whether or not an account is
      locked, and reinitialize credentials after calling initgroups(),
      because sometimes the credentials pam_setcred() gives are in the form
      of group membership (#4693, Mike Harris).
  35. Fix warnings when building mieq.c (#4689, Adam Sulmicki).
  34. Fix some bugs in the cz and sk entry in XKB's keymap/xfree86 file
      (#4692, Ivan Pascal).
  33. Add 'hr' entries to XKB's keymap/xfree86 and rules/xfree86.lst files
      (#4687, Nerijus Baliunas).
  32. Include <X11/Xutil.h> in shape.h to get Region typedef (#4686, Adam
      Sulmicki).

commit e9314bd34ec39cc699591123cc8a05a934b66b85
  Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
  Date:   Fri May 25 07:44:29 2001 +0000

  wrap some stuff around #ifdef TOUCHSCREEN

commit e6497f39af98cd25719eab72b0be04fa4146172f
  Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
  Date:   Thu May 24 19:31:46 2001 +0000

  fix ifdef->if

commit 0e1a49a7dd00ae494d92ab480d9776ec5320cb3e
add missing pieces for the pcmcia driver

commit 85d827f5329fa93dea1125788457fac6835cd134
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date: Wed May 23 08:56:09 2001 +0000

Add PCMCIA server for HP VGA Out PC Card and the Voyager VGA Card. Use on
the Compaq IPAQ. Use -listmodes to see supported modes. Hack the
touchscreen driver to work as a mouse pad for the VGA screen. Fixup key
bindings so xmodmap can remap IPAQ's buttons as mouse buttons.

commit f9104754cda1212cf48d6d24a0a586c5368d7549
Author: Keith Packard <keithp@keithp.com>
Date: Wed May 23 03:29:44 2001 +0000

Add RandR extension

commit dc383e8f77f99e8c2b799a6ab4e4998a1fcacb24
Author: Marc Aurele La France <tsi@ualberta.edu>
Date: Sun Apr 1 14:00:04 2001 +0000

317. glxinfo needs libGLU (Marc La France).
316. Rage128 fix to Cards database (Marc La France).
315. Minor fix to PCI resource overlap handling (Marc La France).
314. Loader code simplification and IA-64 cache flushes (Marc La France).
313. Workaround in the ATI driver for troublesome interaction between
loader and compiler optimisation (Marc La France).
312. Warning fixes for `gcc -fno-builtin`, which appears to be the default
on some systems (Marc La France).
more of #301, tags, warnings and build fixes.

commit 518e205b06d0dc7a0cd35fbc2c6a4376f2959020
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 30 17:35:55 2001 +0000

kdrive/igs: add missing register definitions that used to be in igsregs.t

commit eb3da37564593b7c9fb57af824e2f5e0cc6bb24
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 30 02:18:41 2001 +0000

Add files for Xmuu and i810 driver

commit f39a62d122b6e63e2971d8593bf6b24933f66cc8
Author: Keith Packard <keithp@keithp.com>
Date: Fri Mar 30 02:15:20 2001 +0000

Add Xmuu library to remove requirement for Xt/Xaw from most X utilities Add i810 and Xv support to kdrive

commit a161cfd72870ae6da66ef02f5cdd13b7ac75fd6
Author: David Dawes <dawes@xfree86.org>
Date: Wed Mar 21 16:43:16 2001 +0000

remove Id line

commit 0aa54b4d409647778b563d77ef6100085d86c6f3
Author: David Dawes <dawes@xfree86.org>
Date: Tue Feb 13 21:15:15 2001 +0000

144. Fix the neomagic driver so that it saves/restores the palette (#4452, Ken Hornstein).
143. Fix a palette saving bug in the vgahw module (#4452, Ken Hornstein).
142. Fix a typo in Xfbdev.man (#4446, Juliusz Chroboczek).
141. Major updates to the savage driver, including:
   - DDC support
   - I2C support
   - XVideo YUV overlay support for Savage/MX and Savage/IX
   - DGA support
   - yanks Ani Joshi's depth/bitsPerPixel patch for searching the BIOS
   - fixes interactions with frame buffer and SVGATextMode consoles; VT switching now seems quite reliable for almost everyone
   - yanks unused options
   - adds new options for hacks to deal with the status register hangs
   - adds one special case memory configuration for Savage 4
   - adds support for doublescan modes (320x240 works)
   - adds LCD panel detection
   - fixes a panning bug at depth 24 (panning must be to even pixels)
   - adds a workaround for bugs in the latest ProSavage BIOSes (#4445, 4448, Tim Roberts).
140. Make 'X -configure' use the long monitor name when present in the DDC info (#4444, Andrew C. Aitchison).
139. Make glxinfo respect $DISPLAY (#4443, Meelis Roos).
138. Fix TrueType font problems in 4.0.2 (#4439, Juliusz Chroboczek).
137. Document the "DisplaySize" keyword in the XF86Config man page (#4438, Andrew C. Aitchison).

commit 3dfa6cce9938413e10cc400ba6d9b19b8f28e485
Author: David Dawes <dawes@xfree86.org>
Date: Sat Jan 27 18:20:40 2001 +0000

88. Set the version strings in man pages dynamically (David Dawes).
87. Remove the XF86_VERSION string from xf86Version.h, leaving just the
numerical values. All the version information is now derived from that single set of values (David Dawes).

commit 60c7a912e257045d1189a19a38d9dbdedc20ae78b
Author: David Dawes <dawes@xfree86.org>
Date: Wed Jan 24 00:06:10 2001 +0000

79. Preprocess all man pages to make sure that the references to pages in sections that are platform-dependent are correct. Also fixed some misc formatting problems found while doing that (David Dawes).

commit dacbf5671da08d161cd7a32496e0b58f50a93453
Author: Keith Packard <keithp@keithp.com>
Date: Tue Jan 23 06:25:05 2001 +0000

Integrate jg patch for iPAQ

commit 2869e08a328cb6aa51c17b96bdebd37e9eeefc88
Author: Keith Packard <keithp@keithp.com>
Date: Wed Dec 13 18:06:54 2000 +0000

kdrive: non-x86 compiles broken in kmap.c

commit ec4916836c42eb4a1dc1622ddd27951a90a52c9
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 8 23:04:57 2000 +0000

kdrive: dont try MTRR on non-x86, fix backspace mapping

commit d09a156d92bdcd9368be20dabe47ea197f19357e
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 8 22:59:37 2000 +0000

kdrive: allow screen size specification

commit 6b61d48f2146f18e94d5f2b3d16a822ce0eef9841
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 8 21:40:29 2000 +0000

kdrive/vesa: type cast warning fix

commit b59eabd230110d604515868893d9aa06e6d3b748
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 8 21:40:02 2000 +0000

kdrive: A few iPAQ inspired changes to event management

commit a25637fe789c5127451233c759074780cbeb110ac
Author: David Dawes <dawes@xfree86.org>
Date: Mon Dec 4 21:01:00 2000 +0000

missing ident lines

commit 1adbdf76a903aa37d553c1c2cc43a783f21acaa5
Author: Keith Packard <keithp@keithp.com>
Date: Fri Dec 1 00:01:32 2000 +0000

drive: add Xkdrive/Xfbdev man pages, update Xvesa manual

commit 5f8e75f27d49719f5fd07d4848143593779da6c
Author: Keith Packard <keithp@keithp.com>
Date: Wed Nov 29 08:42:25 2000 +0000

drive: add MTRR support, add clock support to trident driver

commit 02568ec5a8f278aaa26c973fcb424da3fd31f2b
Author: Keith Packard <keithp@keithp.com>
Date: Sun Nov 19 20:51:12 2000 +0000

drive: vesa get mode using uninitialized value

commit 8f634a6516ca0e4be875e696820a820e480cff
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 20 00:19:51 2000 +0000

Add VGA BIOS modes to Tiny-X Xvesa server

commit f16d5d6817f15be35293ee995cd073eb57fafe283
Author: Keith Packard <keithp@keithp.com>
Date: Wed Oct 11 06:04:40 2000 +0000

Add composite operator support to trident

commit d579bd5676ea570a8f2765cd2f6ba40074171593
Author: Marc Aurele La France <tsi@ualberta.edu>
Date: Tue Oct 10 14:05:48 2000 +0000

Static build fix and ident lines.

commit 5f5b9ed1ad0591d70354c2b90609051d169fc33e
Author: Keith Packard <keithp@keithp.com>
Date: Sun Oct 8 02:08:39 2000 +0000

drive: Add timeout to screen switching to avoid unintentional flipping

commit fb8b58270fcaee236337d3818df04e651acbce9
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 6 22:13:40 2000 +0000

kdrive: support jgs new linux keysyms

commit 15d45ffbd9af5ccce07264d6182b2222c417a2a5
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 6 22:05:53 2000 +0000

kdrive: fix any-edge screen-switching behaviour

commit fae164a4958b95e3ba4e4d5125da4611fc14f6d
Author: Keith Packard <keithp@keithp.com>
Date: Fri Oct 6 05:54:09 2000 +0000

kdrive: ignore mouse/keyboard fds in WakeupHandler while switched away

commit b814019be970bc45f808ec19eef0a48b789d6646
Author: Keith Packard <keithp@keithp.com>
Date: Tue Oct 3 17:22:14 2000 +0000

kdrive: zero out fbdev screen private as its supposed to be

commit e0ccbaab226bd3e1d619d66c9ec718c67c0a559a
Author: Keith Packard <keithp@keithp.com>
Date: Thu Sep 28 20:58:21 2000 +0000

kdrive: fix typo initializing touch screen

commit 6171187e92152a443f7d5dd7f0dad866b3e275ea
Author: Keith Packard <keithp@keithp.com>
Date: Wed Sep 27 20:47:37 2000 +0000

kdrive: memory/fd leaks fixed in fbdev/vesa/trident drivers

commit 367cab99ece8655b0d8a65096bb68bcfd7ef6f6ea
Author: Marc Aurele La France <tsi@ualberta.edu>
Date: Tue Sep 26 15:57:04 2000 +0000

721. PCI chip ID updates to ATI driver (Marc La France).
720. Fix i810 driver for -probe and -configure (Marc La France).
719. Change message when default modes are deleted (Marc La France).
718. Fix Xinerama byte swapping bug (Marc La France).
717. IA-64 and Alpha fixes for pswrap, Mesa, DRI, Xpm, libX11, Xt, Xaw, Xmu, dps, Type1 fonts, cfb24, most output drivers, ELF loader, ramdac module, xf4bpp and xfs6cfg (Marc La France).
716. Improve IA-64 support by removing a plethora of 32-bit'isms (Marc La France).
715. Default HasLinuxDoc to NO (Marc La France).
ident lines and warning fixes.

commit 94368c3b92b8513d5135fb3c20165f108b0e96fd
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 26 04:31:23 2000 +0000

kdive: Add iPAQ and Touch screen support

commit 03e3689701007ea40422b4d729b65aaebcd84869
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Sun Sep 24 13:52:40 2000 +0000

reversed a tag accidentally - put it back.

commit 61e8a40f0d4e886bec96c3f9ee90433a3fab9d54
Author: Alan Hourihane <alanh@fairlite.demon.co.uk>
Date:   Sun Sep 24 13:51:22 2000 +0000

DRI merge

commit 2bbbf90ebed927607e0b2c7cd8f3a402b44705fe03
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 22 06:25:29 2000 +0000

Changes for PPC support under linux and a few overlay additions

commit 02777941e6ac8c79f934ba95b6b2e7f388ffbd14
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 19 23:50:48 2000 +0000

kdive: fix bug in vesa 4plane in 8bpp mode

commit 5b9f49f64c77b51afbaab4f848fc7d67851582c
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 19 23:49:55 2000 +0000

kdive: use VESA instead of FBDEV for trident driver

commit 18692160c964e80ba83b63bc207660b6254e11cb
Author: Keith Packard <keithp@keithp.com>
Date:   Tue Sep 19 23:49:17 2000 +0000

kdive: make sure allocation worked before accessing

commit d6e151ce4deaff506c580da7e3baf055db1c3ae3
Author: Keith Packard <keithp@keithp.com>
Date:   Fri Sep 15 15:19:00 2000 +0000
Tiny-X: Add mouse matrix to rotate mouse, allow enable to fail, add render by default

commit f7421d836186cd6dfb919c5a48d556a68d6c5a5d
Author: Keith Packard <keithp@keithp.com>
Date: Fri Sep 15 07:25:13 2000 +0000

Add rotation to fbdev and vesa

commit 5ec29fe9ea788e0dcc47534a2eca479b2c465160
Author: Marc Aurele La France <tsi@ualberta.edu>
Date: Thu Sep 7 19:44:26 2000 +0000

Ident lines

commit db1a883d32ce8138dde288d32c11e147cdfc81a0
Author: Keith Packard <keithp@keithp.com>
Date: Sun Sep 3 05:12:28 2000 +0000

Rework tiny-x vesa driver for shadowing and multiple screen support. Allow enable to fail and avoid crashing

commit c97fb611dd7def6d075ef9d56f3d32e8018d39
Author: Keith Packard <keithp@keithp.com>
Date: Sun Sep 3 05:11:46 2000 +0000

Rework vesa driver for shadowing and multiple screen support. Allow enable to fail and avoid crashing

commit 38059656849a5bab5b56b23359a90aca4ba396c7
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 29 17:20:15 2000 +0000

Use VESA driver underneath

commit 77331f967077ca2efbfcb117c7e9bc2bf65b5e31
Author: Keith Packard <keithp@keithp.com>
Date: Tue Aug 29 17:19:51 2000 +0000

Changes from Juliusz for emulating some in/out insns, make ready for other layers to use

commit 3095deed7701a1a14be85dff4a6994028b5a6d09
Author: David Dawes <dawes@xfree86.org>
Date: Mon Aug 28 15:29:19 2000 +0000

565. Support for multithreaded libraries on NetBSD when used in conjunction
with the GNU pth library (#4113, Chris Sekiya).

564. Add /usr/pkg/bin to NetBSD's DefaultUserPath (#4112, Bernd Ernesti).

563. Add a (Linux-specific) VESA driver for Keith's small X server (#4111, Juliusz Chroboczek).

562. Update Hungarian xkb maps (#A.145, Peter Soos). remove koi8-r encoding file since it's built-in

commit f32448679118b77825625aafdc4d6ae4d636ccc21
Author: Marc Aurele La France <tsi@ualberta.edu>
Date:   Mon Aug 28 02:43:14 2000 +0000

Ident lines

commit 83a388c96d665b6bfb0ae195c8c74e0e1520ab8f
Author: Keith Packard <keithp@keithp.com>
Date:   Sat Aug 26 00:24:38 2000 +0000

Try to avoid hitting hardware during server reset when not active, add KdPicture code

commit 4223801110c8d5873dd668880dff411765dfc18d
Author: Keith Packard <keithp@keithp.com>
Date:   Wed Aug 9 17:52:45 2000 +0000

Add overlay support for savage. Make sis setup code work on nIfc

commit 325fb002e8832a05361516bbaf19d1e8b67a3486
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 24 23:57:56 2000 +0000

Fix 640x480x60 mode, drop inb/outb on non-x86 machines

commit a6d519e527a81341ad333cb25b410dfde07176ae
Author: Keith Packard <keithp@keithp.com>
Date:   Wed May 24 23:52:48 2000 +0000

Add modes, cursors and acceleration

commit 240aeb4cda91d19f5b19ebd7f7d6c1aad19f1642
Author: Marc Aurele La France <tsi@ualberta.edu>
Date:   Thu May 11 18:14:13 2000 +0000

162. Fix possible SEGV in generic int10 module (Marc La France).
161. Fix *BSD aperture driver to allow for int10 (Bernd Ernesti, Marc La France).
160. Fix vesafb restore problem in ATI driver (Marc La France).
159. Fix a few more compilation glitches (Marc La France).
Lots of Tiny-X changes:
- Add overlay support in the Tiny-X Savage4 driver (required changing lots of Tiny-X code). Savage4 now supports 8/16, 8/32 overlays.
- Add IGS Cyberpro 5050 driver. This chip has bus support for embedded systems.

remove/disable standard RCS ident lines that are in some files some bindist updates don't define noPanoramiXExtension when Xinerama is not enabled
- Add xfontsel to programs/Imakefile

commit be2dad5954b8fee09a84f417e41bb657f45dadf76
Author: David Dawes <dawes@xfree86.org>
Date: Fri Jan 21 18:41:49 2000 +0000

missing ident lines

commit 306ac1db85c30a796c9a69c639e7f2e4efd98d50
Author: David Dawes <dawes@xfree86.org>
Date: Fri Jan 21 01:12:02 2000 +0000

3554. Fix "controlization" in XLookupString for chars > 127 (#3569, Ivan Pascal).
3553. Take advantage of FB speedups in Tiny-X (#3568, Keith Packard).
3552. Speed up FB and do 32bit accesses instead of 64bit accesses (#3567, Keith Packard).
3551. Eliminate saving the contents of the screen durint VT switching (#3562, Keith Packard).
3550. Make using fb easier for driver writers (#3561, Keith Packard).
3549. Fix TCP font server connections (#3560, Keith Packard).
3548. Implement the "OverclockMem" option for the Millennium and Millennium II (#3558, Andrew Aitchison).
3547. Speed up some FB performance problems (#3557, 3559, 3560, Keith Packard).
3546. Work around a bad code generation bug in gcc 2.7.2.3 that shows up in XAA (#3550, Rik Faith).
3545. Add a -brief option to xclock to show only hours and minutes when in digital mode (#3549, Keith Packard).
3544. Fix some dead key problems with xkb symbols for Swiss French and Swiss German keyboards (#3546, Charles Lopes).
Itsy cleanup.

3516. Jumbo Tiny-X patch with Itsy support (#3527, Keith Packard).

commit f13b792a3a8d307a18cd6a41aa5a06622009e42f
Author: Dirk Hohndel <dirk.hohndel@intel.com>
Date: Fri Nov 19 13:54:06 1999 +0000

3336. Fx up new MMIO macros (#3337, Matt Grossman).
3334. TGA fixes, add sync on green (#3410, Matt Grossman).
3333. Fix NULL pointer dereference in libXaw (#3406, Christopher Sekiya).
3332. Add Rage128 support (#3405, Rik Faith, funded by ATI).
3331. Add MTRR support for NetBSD and OpenBSD. Add new NetBSD aperture
driver (#3404, Matthieu Herrb).
3330. Xterm patch #121 (#3402, Thomas Dickey).
3329. Rendition driver bugfixes and alpha related cleanups (#3400, Dejan
Ilic, Marc Langenbach, Egbert Eich).
3328. Add void input device (#3392, Frederic Lepied).
3327. Changed the Xon serial option to be able to select xon/xoff for
input, output or both. Add support for Graphire models. Change wacom
init phase to use new Xoff option (#3391, Frederic Lepied).
3326. Change the SwapAxes option to SwapXY in elographics/microtouch driver
to match an already existing option in the Dynapro driver. Add a Focus
class capability to the elographics driver (#3395, Patrick Lecoanet).
3325. Update mouse rate handling (#3388, Harald Koenig).
3323. Add FBDev and ShadowFB support to glint driver. Add new option
"NoWriteBitmap" (#3383, Michel Daenzer).
3322. Update SuperProbe to handle S3 Savage4, Savage200 and clean up
Trio3D/Savage3D detection (#3382,3384 Harald Koenig).
3321. Add new framebuffer code and tiny X DDX architecture (#3379, Keith
Packard).
3320. Add DGA2 documentation (#3378, Mark Vojkovich).
3319. Update XFree86 manpage wrt -bpp/-depth/-fbbpp (#3377, Andy Isaacson).
3318. Make SuperProbe check primary cards, only (#3374, Harald Koenig).
3317. Add SilkenMouse to *BSD (#3373, Matthieu Herrb).
3316. Allow SilkenMouse to work if not all drivers of an OS support SIGIO
(#3372, Keith Packard).
3315. Fix a few problems in TGA driver and add support for backing store
and SilkenMouse (#3371, Matt Grossman).
3314. Add smarter scheduler (#3370, Keith Packard).
3313. Xterm patch #120 (#3369, Thomas Dickey).
3312. Enable xf86SetKbdRate function on Solaris 8 (#3364, David Holland).
3311. Fix some bugs and add acceleration to Rendition server (#3360, Dejan Ilic).
3310. Make raw DDC information available as properties in the root window (#3357, Andrew Aitchison).
3309. Fix for xf86CreateRootWindow (#3355, Andrew Aitchison).
3308. Add manpage for the chips driver (#3353, David Bateman).
3307. Update contact info (#3352, Andrew van der Stock).
3306. Add kbd rate support for Linux (#3363, Harald Koenig).
3305. Update Portuguese XKB map (#3351, Joao Esteves, Francisco Colaco).
3304. Fix text clipping in 3dfx driver (#3349, Henrik Harmsen).
3303. Fix S3 VrGRe hw cursor (#3348, Harald Koenig).
3302. Fix clipping in 3dfx driver (#3342, Daryll Strauss).
3301. Enable SilkenMouse for 3dfx driver (#3341, Henrik Harmsen).
3300. Enable SIGIO support on LynxOS (#3339, Thomas Mueller).
3299. Get TRUE defined in sigio.c. Fix xterm compile problem on ISC (#3338, Michael Rohleder).
3298. Correct DPMS suspend/standby modes for 3dfx driver (#3336, Henrik Harmsen).
3297. Xterm patch #119 (#3335, Thomas Dickey).

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Request for Comments: 2104   IBM
Category: Informational   M. Bellare
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by: Zoltan Herczeg
Email local part: hzmester
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1.1594 j2objc-annotations 1.1

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1.1595 picketlink-idm-spi 1.5.0.Alpha02

1.1595.1 Available under license:

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1.1596 resteasy-jackson-provider 2.3.7.Final-redhat-2

1.1596.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1077227642_1601874484.84/0/resteasy-jackson-provider-2-3-7-final-redhat-2-sources-
jar/META-INF/maven/org.jboss.resteasy/resteasy-jackson-provider/effective-pom.xml

1.1597 libjpeg 1.2.90-8.el7

1.1597.1 Available under license:

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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.
These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
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/*
 * jcinit.c
 *
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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
/*

* This file was part of the Independent JPEG Group's software:
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* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time.  In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases.  (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcinit.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmerge.c
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/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We must thus separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jcapistd.c

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/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jsimd.h

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/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
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/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/ *
 * cerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cderror.h
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/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.h
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/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
 */
/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/doc/html/jquery.js
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/*
 * jutils.c
 * *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jutils.c
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; for more details.

Found in path(s):
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  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
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/*
 * jdmarker.c
 *
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 * Modifications:
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 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmarker.c

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/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c

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*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Unix and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace
libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys   0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys   0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application’s version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 37015

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

Colors space Extensions

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */
```

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#define JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo
can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only
for convenience purposes. It has always been possible to implement this
feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjjpeg: 32-bit BMP support

-- cjjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=================================================================================

In-Memory Source/Destination Managers
=================================================================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official"
libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo’s SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo’s SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
============================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
             rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the

example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from
http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
==================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body send usenet/news.answers/jpeg-faq/part1 send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.
IJJ JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group’s software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJJ JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it’s best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients. 
An "MCU" (minimum coded unit) is an interleaved set of blocks of size 
determined by the sampling factors, or a single block in a 
noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say 
pixel, we mean an element of the full-size image, while a sample is an element 
of the downsampled image. Thus the number of samples may vary across 
components while the number of pixels does not. (This terminology is not used 
rigorously throughout the code, but it is used in places where confusion would 
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform 
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple 
  command-line user interface and I/O routines for several uncompressed image 
  formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended 
sequential, and progressive DCT processes. Hierarchical processes are not 
supported.

The library does not support the lossless (spatial) JPEG process. Lossless 
JPEG shares little or no code with lossy JPEG, and would normally be used 
without the extensive pre- and post-processing provided by this library. 
We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG 
spec should be readable for decompression. (We can be more restrictive about 
what formats we can generate.) Although the system design allows for all 
parameter values, some uncommon settings are not yet implemented and may 
never be; nonintegral sampling ratios are the prime example. Furthermore, 
we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a 
run-time option, because most machines can store 8-bit pixels much more 
compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in 
picular the widely used JFIF file format. The library can be used by 
surrounding code to process interchange or abbreviated JPEG datastreams that 
are embedded in more complex file formats. (For example, libtiff uses this 
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the 
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or
postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a
low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will
be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatast.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed
and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

\[
\text{input data} \Rightarrow \text{processing step A} \Rightarrow \text{buffer} \Rightarrow \text{processing step B} \Rightarrow \text{output data}
\]

|              |               |
|------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.
*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
    |                             |-- Downsampling
Main controller --|
    |                     |-- Forward DCT, quantize
    |-- Coefficient controller --|
    |                       |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT
blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these
objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
       |                       |-- Dequantize, Inverse DCT
Main controller --|
       |                   |-- Upsampling
       |-- Postprocessing controller --|   |-- Colorspace conversion
       |                       |-- Color quantization
       |                       |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must
be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```c
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can’t handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can’t rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and
we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won’t have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn’t be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.
*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCARRAY working buffer, all created with one call.)
In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- `jpeg_mem_init`, `jpeg_mem_term` system-dependent initialization/shutdown
- `jpeg_get_small`, `jpeg_free_small` interface to malloc and free library routines (or their equivalents)
- `jpeg_get_large`, `jpeg_free_large` interface to FAR malloc/free in MSDOS machines; else usually the same as `jpeg_get_small`/`jpeg_free_small`
- `jpeg_mem_available` estimate available memory
- `jpeg_open_backing_store` create a backing-store object
- `read_backing_store`, `write_backing_store`, `close_backing_store`

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). `jpeg_open_backing_store` is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call `self_destruct` (typically via `jpeg_destroy`) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
   This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.
A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

```
/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */
```

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/structure.txt
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/structure.txt
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

*/
* jdcoleta.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcoleta.c
No license file was found, but licenses were detected in source scan.

*/
* jcprect.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcprect.c
No license file was found, but licenses were detected in source scan.

*/
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
and constructs a colormap to be supplied to the JPEG decompressor.

Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
  each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
  of each desired color. Such a file can be extracted from an
  ordinary image PPM file with ppmtomap(1).
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
  currently implemented.
*/
/* Portions of this code are based on the PBMPPlus library, which is:
** Copyright (C) 1988 by Jef Poskanzer.
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it’s more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.
/
* rdswitch.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
*-qtables file	Read quantization tables from text file
*-scans file	Read scan script from text file
*-quality N[N,...]	Set quality ratings
*-qslots N[N,...]	Set component quantization table selectors
*-sample HxV[HxV,...]	Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jdcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.

* In buffered-image mode, this controller is the interface between
  input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.

*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

/
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
  some other language.
* A set of error-reporting macros are defined too. Some applications using
  the JPEG library may wish to include this file to get the error codes
  and/or the macros.
*/

Found in path(s):
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

#-->%prep
#-->%setup -q

#-->%build
#-->/configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/%{__lib}/
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/%{defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/%{defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{defaultdocdir}/%{name}-%{version}
%doc %{defaultdocdir}/%{name}-%{version}/
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif

/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.a
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so.0
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/libjpeg-
turbo.spec.in
No license file was found, but licenses were detected in source scan.

; jsimdex.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

---

System-dependent configurations

#ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
#ifdef __YASM_VER__
define SEG_TEXT .text align=16
define SEG_CONST .rdata align=16
#else
define SEG_TEXT .text align=16 public use32 class=CODE
define SEG_CONST .rdata align=16 public use32 class=CONST
#endif
 elseifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
#ifdef __YASM_VER__
define SEG_TEXT .text align=16
define SEG_CONST .rdata align=16
#else
define SEG_TEXT .text align=16 public use64 class=CODE
define SEG_CONST .rdata align=16 public use64 class=CONST
#endif
---
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name; foo() -> foo

%elifdef OBJ32; ---(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ---(nasm -felf[64] -DELF ...)-----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -> foo

%elifdef AOUT; ---(nasm -faouth/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC
%elifdef MACHO; -(nasm -fmacho -DMACHO ...)-
* NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT  .text  ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; -(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT  .text
%define SEG_CONST .data

%endif; ----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif
%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT
%define FP32                    dword           ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD    ; sizeof(FP32)
%define FP32_BIT                DWORD_BIT       ; sizeof(FP32)*BYTE_BIT
%define MMWORD                  qword           ; int64  (MMX register)
%define SIZEOF_MMWORD           SIZEOF_QWORD    ; sizeof(MMWORD)
%define MMWORD_BIT              QWORD_BIT       ; sizeof(MMWORD)*BYTE_BIT
; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD          int128 (SSE register)
%define SIZEOF_XMMWORD   SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT      OWORD_BIT     ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE      1 ; sizeof(BYTE)
%define SIZEOF_WORD      2 ; sizeof(WORD)
%define SIZEOF_DWORD     4 ; sizeof(DWORD)
%define SIZEOF_QWORD     8 ; sizeof(QWORD)
%define SIZEOF_OWORD     16 ; sizeof(OWORD)
%define BYTE_BIT         8 ; CHAR_BIT in C
%define WORD_BIT         16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT        32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT        64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT        128 ; sizeof(OWORD)*BYTE_BIT

; ---------------------------------------------------------------------
;  External Symbol Name
;
%ifndef EXTN
%define EXTN(name)   _ %+ name		; foo() -> _foo
%endif

; ---------------------------------------------------------------------
;  Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------

%ifdef GOT_SYMBOL,_,MACHO_PIC_

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base
%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%%geteip:
movecx, POINTER [esp]
ret
%%%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
    lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
dbox8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
    lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
dbox8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
externGOT_SYMBOL
call%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt .gotpc
jmpshort %%done
%%%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
; Align the next data on \{2,4,8,16,...\}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm6
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps  xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdfcg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
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*
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* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tbench.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/TJBench.java
No license file was found, but licenses were detected in source scan.

*/
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

*/
* jdcolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 *
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jddctmgr.c
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From c51b66ebcace2a0bec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.
Fixes #258

---
cderror.h | 5 +++--
rdbmp.c  | 7 ++++++
rdbpp.c  | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
 *
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
@@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
 JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit color mapped BMP image")
 JMESSAGE(JTRC_BMP_Os2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 ifndef PPM_SUPPORTED
 JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMESSAGE(JERR_PPM_NONNUMERIC, "Non numeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
 JMESSAGE(JTRC_PGM, "%ux%u PGM image")
 JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
 JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.

```c
typedef struct _bmp_source_struct {
    JDIMENSION row_width; /* Physical width of scanlines in file */
    int bits_per_pixel; /* remembers 8- or 24-bit format */
+   int cmap_length; /* colormap length */
} bmp_source_struct;
```

```c
get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo) {
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
+   int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
    get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo) {
        outptr = source->pub.buffer[0];
        for (col = cinfo->image_width; col > 0; col--) {
            t = GETJSAMPLE(*inptr++);
+            if (t >= cmaplen)
                ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
            *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
            *outptr++ = colormap[1][t];
            *outptr++ = colormap[2][t];
        }
    }
    start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo) {
        source->colormap = (*cinfo->mem->alloc_sarray)
            ((j_common_ptr) cinfo, JPOOL_IMAGE,
                (JDIMENSION) biClrUsed, (JDIMENSION) 3);
        source->cmap_length = (int)biClrUsed;
+        and read it from the file */
        read_colormap(source, (int) biClrUsed, mapentrysize);
+        /* account for size of colormap */
    }
```
typedef ppm_source_struct * ppm_source_ptr;

if (val > maxval)
  - ERREXIT(cinfo, JERR_PPM_TOOLARGE);
  + ERREXIT(cinfo, JERR_PPM_OUTOF RANGE);

  return val;
}

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo12-CVE-2018-14498.patch
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
This file exists to provide a single place to fix any problems with
including the wrong system include files. (Common problems are taken
care of by the standard jconfig symbols, but on really weird systems
you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the
JPEG library. Most applications need only include jpeglib.h.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtPYZ/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtPYZ/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdrle.c

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

No license file was found, but licenses were detected in source scan.
1.2.90 (1.3 beta1)

==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.
The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.
[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “'%/define' expects a macro identifier”.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdefg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can
be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the
TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.
[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.
1.0.90 (1.1 beta1)

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.
1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
=====

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
=====

Initial release
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/Changelog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
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 * Modifications:
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* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
* /

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiquUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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 * 
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 * - Redistributions in binary form must reproduce the above copyright notice,
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 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 * 
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 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
}
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

/*
 * jpeglib.h
 */

/*
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 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */

/*
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/
No license file was found, but licenses were detected in source scan.

/*
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 *
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 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
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 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TICustomFilter.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjutil.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tYZ/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/ *
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
*/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tYZ/libjpeg-turbo-1.2.90/wrppm.c
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Lip8tPYZ/libjpeg-turbo-1.2.90/jchuff.c

No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Lip8tPYZ/libjpeg-turbo-1.2.90/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Lip8tPYZ/libjpeg-turbo-1.2.90/jccoefct.c

No license file was found, but licenses were detected in source scan.

/*
* jpegcomp.h
*
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/ *
* jdatasrc.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/ *
* jccolor.c
*
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* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains input colorspace conversion routines.
*/

Found in path(s):
*/
* jquant1.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

*/
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

*/
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.

/*

* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group’s software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.

*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*

* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group’s software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* 
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the “canned” jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON’T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
/*

* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#ifndef void
#define void char
#endif

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#ifndef const
#define const
#endif

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#ifndef CHAR_IS_UNSIGNED
#define CHAR_IS_UNSIGNED
#endif

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#ifndef NEED_BSD_STRINGS
/* Define this if your system does not provide typedef size_t in any of the  
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in  
* <sys/types.h> instead.  
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,  
* unless you are using a large-data memory model or 80386 flat-memory mode.  
* On less brain-damaged CPUs this symbol must not be defined.  
* (Defining this symbol causes large data structures to be referenced through  
* "far" pointers and to be allocated with a special version of malloc.)  
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less  
* than the first 15 characters.  
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to  
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI  
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,  
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you  
* actually get "missing structure definition" warnings or errors while  
* compiling the JPEG code.  
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.  
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*  
* The following options affect code selection within the JPEG library,  
* but they don't need to be visible to applications using the library.  
* To minimize application namespace pollution, the symbols won't be  
* defined unless JPEG_INTERNALS has been defined.  
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#endif JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen("rb") or fopen("wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT
#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/ *
* jdhuff.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/ *
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.     *
* There is no trace of the LZW algorithm in this file.         *
**************************************************************************
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdout stream. /*
/
/* This code is loosely based on ppmtogif from the PBMPLUS distribution *
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation. This software is provided "as is" without express or *
* implied warranty.
*
* We are also required to state that *
* "The Graphics Interchange Format(c) is the Copyright property of *
* CompuServe Incorporated. GIF(sm) is a Service Mark property of *
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrgrif.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmelxint.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmelxint.asm
USING THE IJG JPEG LIBRARY

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Modifications:
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This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive
JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------
The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
------------

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.
The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However, JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i’th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

   You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

   You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

   Typical code for this step, if you are using the default error handler, is

   ```
   struct jpeg_compress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_compress(&cinfo);
   ```

   jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.
2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`. 
JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */
    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
    jpeg_write_scanlines(...);
Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)"

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...)
After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error
handler structure.

Typical code:

```c
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`.
(See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
```
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```
This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);
If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of
destroying compression objects applies here too.

Typical code:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

-----------------------------------------------

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)
On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
==================
Compression parameter selection
-----------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call
jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorspace(). This is actually a subroutine of
jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated
quality setting. The quality value is expressed on the 0..100 scale
recommended by IJG (cjpeg's "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
   const unsigned int *basic_table,
   int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorsplace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width	Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.
int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
-----------------------------------------------

Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Color space of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.
The decompression parameters that determine the basic properties of the returned image are:

\textbf{J\_COLOR\_SPACE out\_color\_space}
Output color space. \texttt{jpeg\_read\_header()} sets an appropriate default based on \texttt{jpeg\_color\_space}; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to \texttt{JCS\_GRAYSCALE} to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend \texttt{jdcolor.c} if you want an unusual conversion.

\texttt{unsigned int scale\_num, scale\_denom}
Scale the image by the fraction \texttt{scale\_num/scale\_denom}. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are \texttt{M/8} with all \texttt{M} from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

\texttt{boolean quantize\_colors}
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if \texttt{quantize\_colors} is TRUE.

\texttt{int desired\_number\_of\_colors}
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

\texttt{boolean two\_pass\_quantize}
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

\textbf{J\_DITHER\_MODE dither\_mode}
Selects color dithering method. Supported values are:

\texttt{JDITHER\_NONE} no dithering: fast, very low quality
\texttt{JDITHER\_ORDERED} ordered dither: moderate speed and quality
\texttt{JDITHER\_FS} Floyd-Steinberg dither: slow, high quality
Default is \texttt{JDITHER\_FS}. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when \texttt{two\_pass\_quantize} is TRUE or when you supply...
When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters.
You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers before `jpeg_start_decompress()`.

**JDIMENSION output_width**
Actual dimensions of output image.

**JDIMENSION output_height**

**int out_color_components**
Number of color components in `out_color_space`.

**int output_components**
Number of color components returned.

**int rec_outbuf_height**
Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying. (An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

**Special color spaces**

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color...
space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
“fix” this in the library by inverting the data during the CMYK<=YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h: ERREXITn(...) for fatal errors WARNMSn(...) for corrupt-data warnings TRACEMSn(...) for trace and informational messages. These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

    JOCTET * next_output_byte; /* => next byte to write in buffer */
    size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

    init_destination (j_compress_ptr cinfo)
    Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

    empty_output_buffer (j_compress_ptr cinfo)
    This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

    term_destination (j_compress_ptr cinfo)
    Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

    term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

- `init_source (j_decompress_ptr cinfo)`
  Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

- `fill_input_buffer (j_decompress_ptr cinfo)`
  This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

- `skip_input_data (j_decompress_ptr cinfo, long num_bytes)`
  Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

- `resync_to_restart (j_decompress_ptr cinfo, int desired)`
  This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmakerc.c if you think you’d like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such
as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second
call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current
buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of
increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very
quickly from the first scan, then gradually improve the displayed quality as
more scans are received. The final image after all scans are complete is
identical to that of a regular (sequential) JPEG file of the same quality
setting. Progressive JPEG files are often slightly smaller than equivalent
sequential JPEG files, but the possibility of incremental display is the main
reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a
suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder.
Progressive JPEG files can also be read transparently by the decoder library.
If the decoding application simply uses the library as defined above, it
will receive a final decoded image without any indication that the file was
progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder
library's "buffered-image" mode, in which it receives a decoded image
multiple times.

Each displayed scan requires about as much work to decode as a full JPEG
image of the same size, so the decoder must be fairly fast in relation to the
data transmission rate in order to make incremental display useful. However,
it is possible to skip displaying the image and simply add the incoming bits
to the decoder's coefficient buffer. This is fast because only Huffman
decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.
After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().

The return value is one of the following:
- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
- You can limit buildup of unprocessed data in your input buffer.
- You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)
When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.
When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole image.
When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
- `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

- `dct_method` can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- `dither_mode` can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to
Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You cannot change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
  Fixed color cube colormap
- enable_external_quant
  Externally-supplied colormap
- enable_2pass_quant
  Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven’t gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header’s codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it’ll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it’s basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn’t the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed
that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
```
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(); it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard.

COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or
"JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.
To save the contents of special markers in memory, call
```
jpeg_save_markers(cinfo, marker_code, length_limit)
```
where `marker_code` is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than `length_limit` data bytes, only `length_limit` bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set `length_limit` to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting `length_limit` to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by
following the `cinfo->marker_list` pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed `length_limit` for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which `jpeg_read_header` stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing `jpeg_read_header`, to
ensure that the `max_memory_to_use` setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or
`jpeg_abort`, at which point the memory is freed and the list is set to empty.
(`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by `malloc()` limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
```
jpeg_set_marker_processor().
```
A marker processor routine must have the
signature
```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```
Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downscaled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
\begin{align*}
\text{cinfo->comp_info[i].width_in_blocks*DCTSIZE} & \quad \text{samples per row} \\
\text{cinfo->comp_info[i].height_in_blocks*DCTSIZE} & \quad \text{rows in image}
\end{align*}
\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is

\[
\begin{align*}
cinfo->comp_info[0].h_samp_factor &= 2 \text{ for } Y \\
cinfo->comp_info[0].v_samp_factor &= 2
\end{align*}
\]
cinfo->comp_info[1].h_samp_factor = 1 for Cb

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.
Really raw data: DCT coefficients

---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().
To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
--------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors.
and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmembobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle only 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit
files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.
The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jf dctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
  * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
  * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
  * The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
  * multiplication; this allows a very simple and accurate implementation in
  * scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt[cola]/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile [inputfile]
 * works regardless of which command line style is used.
*/

Found in path(s):
* /opt[cola]/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/
/*
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

/*
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
 *----------------------------------------------------------------------
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, the ability to read GIF files has been removed from the IJG distribution.
 * Sorry about that.
 *----------------------------------------------------------------------
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of
 *
* CompuServe Incorporated.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.
Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs.
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */
/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.
* wrrle.c

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/
* cdjpeg.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.c

No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmsss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmsrs2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmgss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdrcss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdrcss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqrss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqrss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqrss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqrss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiq
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jdcolss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jcmrgmmx.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/ji3dnflt.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/simd/jdclrss2.asm

No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *  * pool-based allocation and freeing of memory;
 *  * policy decisions about how to divide available memory among the
 *    virtual arrays;
 *  * control logic for swapping virtual arrays between main memory and
 *    backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-L1P8tPYZ/libjpeg-turbo-1.2.90/jmemmgr.c
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/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctred.c
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/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/transupp.h
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/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/transupp.h
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/*
 * transupp.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 *
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/transupp.c
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/*
 * jquant2.c
 *
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 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source pixels covered by the output pixel. The hi-falutin sampling literature refers to this as a "box filter". In general the characteristics of a box filter are not very good, but for the specific cases we normally use (1:1 and 2:1 ratios) the box is equivalent to a "triangle filter" which is not nearly so bad. If you intend to use other sampling ratios, you'd be well advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended for cleaning up color-dithered GIF input files (if you find it inadequate, we suggest using an external filtering program such as pnmconvol). When enabled, each input pixel P is replaced by a weighted sum of itself and its eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF, where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8fPYZ/libjpeg-turbo-1.2.90/jcsample.c
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TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own
source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocation of the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it’s important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
  * Block comments in this style.
  */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORTEXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/coderules.txt

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/*
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcarith.c
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/
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jidctfst.c
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 * jcmarker.c
 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmarker.c
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#!/bin/sh

if [ ! "$id -u" = "0" ]; then
  echo "ERROR: This script must be executed as root"
  exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM=`lsbom -s -f -l $RECEIPT/Contents/Archive.bom`
else
  LSBOM=`pkgutil --files $MACPACKAGE`
fi

mylsbom()
{
  $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi
exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/uninstall.in
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/*
 * jcomapi.c
 *
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 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; ------------------------------------------------------------------------

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6

%define xmmH xmm7
%endif

; ---------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
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  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-
  1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-
  1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-
  1.2.90/java/org/libjpegturbo/turbojpeg/TJExample.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
Opened Source Used In Field Network Director for Virtual Machine Installation 4.7.1

YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpeg/turbo/TJCompressor.java

* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpeg/turbo/TJDecompressor.java

* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/TJUnitTest.java

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Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/doc/html/search/search.js

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/
* rdtarga.c
*
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* 
* This file contains routines to read input images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdtarga.c

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*
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 *
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdpostct.c
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; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
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;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------

Found in path(s):
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Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdct.inc
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 * jccolext.c
 *
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 *
 * This file contains input colorspace conversion routines.
 */

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  YsomiqUL/libjpeg-turbo.spec
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/*
 * jdct.h
 *
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 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdct.h
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/*
This file contains compression data destination routines for the case of emitting JPEG data to memory or to a file (or any stdio stream).

While these routines are sufficient for most applications, some will want to use a different destination manager.

IMPORTANT: we assume that fwrite() will correctly transcribe an array of JOCTETs into 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.

* /

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIIP8tPYZ/libjpeg-turbo-1.2.90/jdatadst.c

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1.1600 kmod 20-25.el7

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1.1603 jansi-native 1.5-redhat-1
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**1.1604 libfastjson 0.99.4 3.el7**

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Class, field, and method level annotations for describing thread-safety policies.

Three class-level annotations describe the intended thread-safety promises of a class: @Immutable, @ThreadSafe and @NotThreadSafe. @Immutable means that the class is immutable, and implies @ThreadSafe. @NotThreadSafe is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use @NotThreadSafe.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with @Immutable actually is immutable.

Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/transaction/TransactionRollbackException.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/transaction/TransactionAbortException.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/transaction/TransactionTimeoutException.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/dao/RecoverableDataAccessException.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java

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1.18. "SUBSEQUENT WORK” means a work that has resulted or arises from changes to and/or additions to:

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/

Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 37359
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -bshareable -o $(BSDLIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSDLIB)
(cd .; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR=$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR=$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -rf $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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1.1627 cdparanoia 10.2-17.el7

1.1627.1 Available under license:

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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This package was debianized by Dale E. Martin <dmartin@debian.org> on Sat, 16 May 1998 19:01:53 -0400.

It was downloaded from http://www.xiph.org/paranoia/index.html

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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1.1628 elfutils 0.176-5.el7

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1.1642 perl-pathtools 3.40-5.el7
1.1642.1 Available under license:

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=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is
If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0                   all tests successful
255                 test died
any other number    how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern E<lt>schwern@pobox.comE<gt>

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See F<http://www.perl.com/perl/misc/Artistic.html>
=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/t/lib/Test/Builder.pm
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=pod

=head1 AUTHOR

o.flebbe@gmx.de

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/Epoc.pm
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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at
NAME

Test::Tutorial - A tutorial about writing really basic tests

DESCRIPTION

I<AHAAAAA!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make
me write tests!>

I<sob*>>

I<Besides, I don't know how to write the damned things.>

Is this you? Is writing tests right up there with writing
documentation and having your fingernails pulled out? Did you open up
a test and read


We start with some black magic

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for
you. And here are the tricks...

=head2 Nuts and bolts of testing.

Here's the most basic test program.

#!/usr/bin/perl -w

print "1..1\n";

print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";

since 1 + 1 is 2, it prints:
What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1> "The first test passed". And that's about all magic there is to testing. Your basic unit of testing is the I<ok>. For each thing you test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately, there's B<Test::Simple>. It has one function, C<ok()>.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 1;
ok( 1 + 1 == 2 );
```

and that does the same thing as the code above. C<ok()> is the backbone of Perl testing, and we'll be using it instead of roll-your-own from here on. If C<ok()> gets a true value, the test passes. False, it fails.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 2;
ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );
```

from that comes

```perl
1..2
ok 1
not ok 2
# Failed test (test.pl at line 5)
# Looks like you failed 1 tests of 2.
```

C<1..2> "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. C<ok 1> "The first test passed." C<not ok 2> "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, B<Date::ICal>. It's on CPAN, so download a copy and follow along. [2]
Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test `new()`.

```perl
#!/usr/bin/perl -w
use Test::Simple tests => 2;
use Date::ICal;

my $ical = Date::ICal->new;         # create an object
ok( defined $ical );                # check that we got something
ok( $ical->isa('Date::ICal') );     # and it's the right class
```

run that and you should get:

```
1..2
 ok 1
 ok 2
```

congratulations, you've written your first useful test.

Names

That output isn't terribly descriptive, is it? When you have two tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second argument to `ok()`.

```perl
use Test::Simple tests => 2;

ok( defined $ical,              'new() returned something' );
ok( $ical->isa('Date::ICal'),   "  and it's the right class" );
```

So now you'd see...

```
1..2
 ok 1 - new() returned something
 ok 2 -   and it's the right class
```
Test the manual

Simplest way to build up a decent testing suite is to just test what
the manual says it does. [3] Let's pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w

use Test::Simple tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
    hour => 16, min => 12, sec => 47,
    tz => '0530' );

ok( defined $ical,            'new() returned something' );
ok( $ical->isa('Date::ICal'), "and it's the right class" );
ok( $ical->sec   == 47,       'sec()'   );
ok( $ical->min   == 12,       'min()'   );
ok( $ical->hour  == 16,       'hour()'  );
ok( $ical->day   == 17,       'day()'   );
ok( $ical->month == 10,       'month()' );
ok( $ical->year  == 1964,     'year()'  );

run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
#   Failed test (- at line 16)
ok 7 - month()
ok 8 - year()
# Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line
the failure occurred, but not much else. We were supposed to get 17,
but we didn't. What did we get?? Dunno. We'll have to re-run the
test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>. B<Test::More>
does everything B<Test::Simple> does, and more! In fact, Test::More does
things I<exactly> the way Test::Simple does. You can literally swap
Test::Simple out and put Test::More in its place. That's just what we're going to do.

Test::More does more than Test::Simple. The most important difference at this point is it provides more informative ways to say "ok". Although you can write almost any test with a generic C<ok()> function, it can't tell you what went wrong. Instead, we'll use the C<is()> function, which lets us declare that something is supposed to be the same as something else:

```perl
#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
                        hour => 16, min => 12, sec => 47,
                        tz => '0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec, 47, ' sec()' );
is( $ical->min, 12, ' min()' );
is( $ical->hour, 16, ' hour()' );
is( $ical->day, 17, ' day()' );
is( $ical->month, 10, ' month()' );
is( $ical->year, 1964, ' year()' );

"Is C<$ical-E<gt>sec> 47?"  "Is C<$ical-E<gt>min> 12?"  With C<is()> in place, you get some more information

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
  # Failed test (- at line 16)
  # got: '16'
  # expected: '17'
ok 7 - month()
ok 8 - year()
# Looks like you failed 1 tests of 8.

letting us know that C<$ical-E<gt>day> returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake
when writing up the tests. Just change it to:

```perl
is( $ical->day, 16, 'day()' );
```

and everything works.

So any time you're doing a "this equals that" sort of test, use C<is()>.
It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

```perl
is( @foo, 5, 'foo has 5 elements' );
```

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

```perl
use Test::More tests => 32;
use Date::ICal;

my %ICal_Dates = (
    # An ICal string And the year, month, date # hour, minute and second we expect.
    '19971024T120000' => [ 1997, 10, 24, 12, 0, 0 ],
    '20390123T232832' => [ 2039, 1, 23, 23, 28, 32 ],
    '19671225T000000' => [ 1967, 12, 25, 0, 0, 0 ],
    '18990505T232323' => [ 1899, 5, 5, 23, 23, 23 ],
);
```
while( my($ical_str, $expect) = each %ICal_Dates ) {
    my $ical = Date::ICal->new( ical => $ical_str );

    ok( defined $ical, "new(ical => '$ical_str')" );
    ok( $ical->isa('Date::ICal'), " and it's the right class" );

    is( $ical->year,   $expect->[0],  '  year()'  );
    is( $ical->month,  $expect->[1],  '  month()' );
    is( $ical->day,    $expect->[2],  '  day()'   );
    is( $ical->hour,   $expect->[3],  '  hour()'  );
    is( $ical->min,    $expect->[4],  '  min()'   );
    is( $ical->sec,    $expect->[5],  '  sec()'   );
}

So now we can test bunches of dates by just adding them to %ICal_Dates. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them. Only problem is, every time we add to that we have to keep adjusting the use Test::More tests =E<gt> ##> line. That can rapidly get annoying. There's two ways to make this work better.

First, we can calculate the plan dynamically using the plan() function.

    use Test::More;
    use Date::ICal;

    my %ICal_Dates = ( .....same as before...
    );

    # For each key in the hash we're running 8 tests.
    plan tests => keys %ICal_Dates * 8;

Or to be even more flexible, we use no_plan. This means we're just running some tests, don't know how many. [6]

    use Test::More 'no_plan';  # instead of tests => 32

now we can just add tests and not have to do all sorts of math to figure out how many we're running.

=head2 Informative names

Take a look at this line here
we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

    ok 25 - new(ical => '19971024T120000')
    ok 26 - and it's the right class
    ok 27 - year()
    ok 28 - month()
    ok 29 - day()
    ok 30 - hour()
    ok 31 - min()
    ok 32 - sec()

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.

=head2 Skipping tests

Poking around in the existing Date::ICal tests, I found this in File::t/01sanity.t [7]

    #!/usr/bin/perl -w

    use Test::More tests => 7;
    use Date::ICal;

    # Make sure epoch time is being handled sanely.
    my $t1 = Date::ICal->new( epoch => 0 );
    is( $t1->epoch, 0, "Epoch time of 0" );

    # XXX This will only work on unix systems.
    is( $t1->ical, '19700101Z', "epoch to ical" );

    is( $t1->year, 1970, "year()" );
    is( $t1->month, 1, "month()" );
    is( $t1->day, 1, "day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
    is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of my head. [9] We know this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it’s never going to work and skip the test.

```
use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
        if $^O eq 'MacOS';

    is( $t1->ical, '19700101Z', "epoch to ICal" );

    is( $t1->year, 1970, " year()" );
    is( $t1->month, 1, " month()" );
    is( $t1->day, 1, " day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );

    is( $t2->epoch, 0, " and back to ICal" );
}
```

A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It’s never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.
This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I\textless never will\textgreater. It is not for skipping genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

\begin{verbatim}
SKIP: {
    skip("I don't wanna die!");

    die, die, die, die, die;
}
\end{verbatim}

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

ical

$ical_string = $ical->ical;

Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.

use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()');

run that and I get

1..1
not ok 1 - Setting via ical()
#     Failed test (- at line 6)
#          got: '20010814T233649Z'
#     expected: '20201231Z'
# Looks like you failed 1 tests of 1.

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to
explicitly state "this test will fail" by wrapping it in a C<TODO> block.

    use Test::More tests => 1;

    TODO: {
        local $TODO = 'ical($ical) not yet implemented';

        my $ical = Date::ICal->new;
        $ical->ical('20201231Z');

        is( $ical->ical, '20201231Z', 'Setting via ical()' );
    }

Now when you run, it's a little different:

    1..1
    not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
    #     got: '20010822T201551Z'
    #   expected: '20201231Z'

Test::More doesn't say "Looks like you failed 1 tests of 1". That '#
TODO' tells Test::Harness "this is supposed to fail" and it treats a
failure as a successful test. So you can write tests even before
you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY
SUCCEEDED". When that happens, you simply remove the TODO block with
C<local $TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global
features. Once you turn it on, it affects I<all> code in your program
and I<all> modules used (and all the modules they use). If a single
piece of code isn't taint clean, the whole thing explodes. With that
in mind, it's very important to ensure your module works under taint
mode.

It's very simple to have your tests run under taint mode. Just throw
a C<-T> into the C<#!> line. Test::Harness will read the switches
in C<#!> and use them to run your tests.

    #!/usr/bin/perl -Tw

    ...test normally here...

So when you say C<make test> it will be run with taint mode and
warnings on.

=head1 FOOTNOTES

=over 4

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 2

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

=item 3

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).

=item 4

Yes, there's a mistake in the test suite. What! Me, contrived?

=item 5

We'll get to testing the contents of lists later.

=item 6

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

=item 7

I cleaned it up a little.

=item 8

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.
MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

AUTHORS

Michael G Schwern <schwern@pobox.com> and the perl-qa dancers!

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* for the details of why the BSD license is compatible with the
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*/
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  */

Found in path(s):
* /opt/cola/permits/114833574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/Cwd.xs
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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...
=item tmpdir

Modifies the list of places temp directory information is looked for.

$ENV{TMPDIR}
$ENV{TEMP}
$ENV{TMP}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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=cut

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* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/OS2.pm
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=head1 NAME
Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in all code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();
A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can’t
chdir() you back into. If fastcwd encounters a problem it will return
undef but will probably leave you in a different directory. For a
measure of extra security, if everything appears to have worked, the
fastcwd() function will check that it leaves you in the same directory
that it started in. If it has changed it will C<die> with the message
"Unstable directory path, current directory changed
unexpectedly". That should never happen.

=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current
working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single
argument and return the absolute pathname for it. If no argument is
given they'll use the current working directory.

=over 4

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path
components (".", and ".") are resolved to return the canonical
pathname, just like realpath(3).
=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=back

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path>().

=back

=head1 AUTHOR

Originally by the perl5-porters.
Maintained by Ken Williams <KWILLIAMS@cpan.org>

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Portions of the C code in this library are copyright (c) 1994 by the Regents of the University of California. All rights reserved. The license on this code is compatible with the licensing of the rest of the distribution - please see the source code in F<Cwd.xs> for the details.

=head1 SEE ALSO

L<File::chdir>

=cut

=begin

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/Cwd.pm

No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

  0 all tests successful
  255 test died
any other number how many failed (including missing or extras)

=end
If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It’s just to get you started. Once you’re off the ground it is recommended you look at L<Test::More>.

=head1 EXAMPLE

Here’s an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film; # What you're testing.

my $btaste = Film->new( {Title => 'Bad Taste',
                      Director => 'Peter Jackson',
                      Rating => 'R',
                      NumExplodingSheep => 1});

ok( defined($btaste) and ref $btaste eq 'Film',     'new() works');

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
    # Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).
Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0     SS$_NORMAL        all tests successful  
4     SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>
Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=head1 COPYRIGHT

Copyright 2001 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
  * /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
    AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJLZ3h/PathTools-3.40/t/lib/Test/Simple.pm
No license file was found, but licenses were detected in source scan.

=back

=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder
<schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=head1 SEE ALSO
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/114833574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/Mac.pm

No license file was found, but licenses were detected in source scan.

/*

------------------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

------------------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.20

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet                   don’t output anything except fatal errors
--nodiag                  don’t show diagnostics
--nohints                 don’t show hints
--nochanges               don’t suggest changes
--nofilter                don’t filter input files
--strip                   strip all script and doc functionality from ppport.h
--list-provided           list provided API
--list-unsupported        list unsupported API
--api-info=name           show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.
=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiaq

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is
Also deprecated. You can safely use the supported API, as `<ppport.h>` will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `<ppport.h>`.

These functions or variables will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether your module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```
define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PL_parser</code></td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td><code>PL_signals</code></td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td><code>eval_pv()</code></td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pvGLOBAL</td>
</tr>
<tr>
<td><code>grok_bin()</code></td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td><code>grok_hex()</code></td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td><code>grok_number()</code></td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td><code>grok_numeric_radix()</code></td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td><code>grok_oct()</code></td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td><code>load_module()</code></td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td><code>my_snprintf()</code></td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td><code>my_sprintf()</code></td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td><code>my_strlcat()</code></td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td><code>my_strlcpy()</code></td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td><code>newCONSTSUB()</code></td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DDPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DDPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DDPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/ /

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>. 
Please include the following information:

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\([\w.]+)$/;
my $LF = '(?:
|\[
\])';    # line feed
my $HS = "\[ \t\]";           # horizontal whitespace

# Never use C comments in this file!
my $ccs = '\.\*';
my $cce = '\*\.';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval { require Getopt::Long; Getopt::Long::GetOptions(%opt, qw(
  help quiet diag! filter! hints! changes! cplusplus strip version
  patch=s copy=s diff=s compat-version=s
  list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; 
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'
    }
    die "Only Perl 5 is supported" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|([^\|]*)$/  
    ? ( $1 => 
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
    )
    : die "invalid spec: $_" } qw(
AvFILLp5.004050]p
AvFILL]|
BhkDISABLE5.014000
BhkENABLE5.014000
BhkENTRY_set5.014000
BhkENTRY||
BhkFLAGS|
CALL_BLOCK_HOOKS||
CLASS||
CPLREscope5.005000]p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV5.006000]p
CopFILEGV_set5.006000]p
CopFILEGV5.006000]p
CopFILESV5.006000]p
CopFILE_set5.006000]p
CopFILE5.006000]p
CopSTASHPV_set5.006000]p
CopSTASHPV5.006000]p
CopSTASH_eq5.006000]p
CopSTASH_set5.006000]p
CopSTASH5.006000]p
CopyD5.009002]p
Copy||
CvPADLIST||
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 37515
<p>| PL_sv_no | 5.004050 | pn |
| PL_sv_undef | 5.004050 | pn |
| PL_sv_yes | 5.004050 | pn |
| PL_tainted | 5.004050 | p |
| PL_tainting | 5.004050 | p |
| PL_tokenbuf | 5.014000 | p |
| POP_MULTICALL | 5.014000 |
| POPi | n |
| POPi | n |
| POPn | n |
| POPpbytex | 5.007001 | n |
| POPpx | 5.005030 | n |
| POPp | n |
| POPs | n |
| PTR2V | 5.006000 | p |
| PTR2NV | 5.006000 | p |
| PTR2UV | 5.006000 | p |
| PTR2nat | 5.009003 | p |
| PTR2ul | 5.007001 | p |
| PTRV | 5.006000 | p |
| PUSHMARK | |
| PUSH_MULTICALL | 5.014000 |
| PUSHi | |
| PUSHmortal | 5.009002 | p |
| PUSHn | |
| PUSHp | |
| PUSHs | |
| PUSHu | 5.004000 | p |
| PUTBACK | |
| PerlIO_clearerr | 5.007003 |
| PerlIO_close | 5.007003 |
| PerlIO_context_layers | 5.009004 |
| PerlIO_eof | 5.007003 |
| PerlIO_error | 5.007003 |
| PerlIO_fileno | 5.007003 |
| PerlIO_fill | 5.007003 |
| PerlIO_flush | 5.007003 |
| PerlIO_get_base | 5.007003 |
| PerlIO_get_buffer | 5.007003 |
| PerlIO_get_ptr | 5.007003 |
| PerlIO_read | 5.007003 |
| PerlIO_seek | 5.007003 |
| PerlIO_set_crlf | 5.007003 |
| PerlIO_set_ptr | 5.007003 |
| PerlIO_set_linebuf | 5.007003 |
| PerlIO_stderr | 5.007003 |
| PerlIO_stdin | 5.007003 |</p>
<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slab_to_rw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StructCopy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SvCUR_set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SvCUR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SvEND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SvGAMAGIC</td>
<td>Magic function (version 5.006001)</td>
<td></td>
</tr>
<tr>
<td>SvGETMAGIC</td>
<td>Magic function (version 5.004050)</td>
<td></td>
</tr>
<tr>
<td>SvGROW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SvIOK_UV</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOK_notUV</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOK_off</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOK_only_UV</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOK_only</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOK_on</td>
<td>Magic function (version 5.006000)</td>
<td></td>
</tr>
<tr>
<td>SvIOKp</td>
<td>Magic function (version 5.006000)</td>
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xmldump_sub|||
xmldump_vindent|||
xs_apiversion_bootcheck|||
xs_version_bootcheck|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }

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$hint = [$1, [split /,?, /, $2]]
    if m{^\s*\$rcce\$s+(Hint|Warning):\$s+(\w+(:\?\$s+\w+)*):\$s*\$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] .= $_;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{^\s*#\s*define\$s+(\w+)(?:\(\[^)\]*\))?:\$s*\$};

if ($function) {
    if (/\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [\$1, 0] if m{^DPPP_\$(my_(\w+))};

$replace     = $1 if m{^\s*\$rcce\$s+Replace:\$s+(\d+)\$s+\$rcce\$s*\$};
$replace{S2} = $1 if $replace and m{^\s*#\s*define\$s+(\w+):\$s+(\w+):\$s+\$rcce\$s*\$};
$replace{S2} = $1 if m{^\s*#\s*define\$s+(\w+):\$s+(\w+):\$s+\$rcce\$s+Replace\$s+\$rcce\$s*\$};
$replace{S1} = $2 if m{^\s*\$rcce\$s+Replace \$s+(\w+) with \$s+(\w+):\$s+\$rcce\$s*\$};

if (m{^\s*\$rcce\$s+(\w+):\$s+(\w+):\$s+\$rcce\$s+Depends\$s+(\w+):\$s+(\w+):\$s+\$rcce\$s*\$}) {
    my @deps = map { s/\$s+//g; $_ } split /, /, $3;
    my $d;
    for $d (map { s/\$s+//g; $_ } split /, /, $1) {
        push @{$depends{$d}}, @deps;
    }
}
$need{S1} = 1 if m{^\#if\s+defined\(NEED_{\(w+)\(?:_GLOBAL)\?\)\)};

for (values %depends) {
    my %s;
    $$_ = [sort grep !s{$_}++, @$_]
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = S opt{'api-info'} =~ m!^/\(.*/\)! ? "$1 : ^\Q$opt{'api-info'}\E$!;
    for ($f (sort { lc $a cmp lc $b } keys %API) {
      next unless $f =~ /$match/;
      print "\n== $f ==
\n";
      my $info = 0;
      if ($API{$f}{base} || $API{$f}{todo}) {
        my $base = format_version($API{$f}{base} || $API{$f}{todo}) ;"5.003";
        print "Supported at least starting from perl-$base.";
        $info++;
      }
      if ($API{$f}{provided}) {
        my $todo =$API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo.";
        print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
        print "Depends on: ", join(’, ’, @$depends{$f})), "\n" if exists $depends{$f};
        print "unShints[$f]" if exists $hints{$f};
        print "unWARNING\n$warnings{$f}" if exists $warnings{$f};
        $info++;
      }
      print "No portability information available\n" unless $info;
      $count++;
    }$count or print "Found no API matching $opt{'api-info'}.";
    print "\n";
    exit 0;
}
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}

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@files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }
    info("Scanning $filename ...");

    my $c = do { local $/; <IN> }
    close IN;

    my %file = (orig => $c, changes => 0);
    # Temporarily remove C/XS comments and strings from the code
    my @ccom;
    $c =~ s{
        ( \^SHS*\#SHS*include\b[^\r\n]+\b(?:Q$ppport\E)[XSUB|\.h]b[^\r\n]*)
        | \^SHS*\#SHS*:\Q$ppport\E\b[^\r\n]*)
        | \^\[\^\]*\(?:\[^\r\n]*x\)
        | \^\[\^\]*\(?:\[^\r\n]x\)
        | / (?: \^\[\^\]*\x+(?:[^\s]*[^\s]+)* / | /[^\r\n]*) )
    }{ defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$ccs$#ccom$ccse" }mgsex;

    %file{ccom} = @ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /\^SHS*\#SHS*include[^\r\n]+\bQ$ppport\E\b/m;

    my $func;

    for $func (keys %API) {
        my $match = $func;
        $match .= "$revreplace{$func}" if exists $revreplace{$func};
        if ($c =~ /(?:Perl_)?($match)\b/) {
            $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
            $file{uses_Perl}{$func}++ if $c =~ /Perl_$func\b/;
        }
    }
}
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;

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@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = "global";
for (@{($global{needs}{$need})}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{|{perl_${func}$s*($s*)(?!aTHX_?)($[^aTHX_]*$)])} { $s1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge); 
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_${func} ");
                    $file{changes} += $changes;
                }
            } else {
                warning("Uses Perl_${func} instead of $func ");
                $file{changes} += ($c =~ s|\bPerl_${func}$s*\($s*\)(?!aTHX_?)($[^aTHX_]*$)|$func$1\|$2|g);
            }
        } else {
            warning("Uses $func instead of $replace{$func} ");
            $file{changes} += ($c =~ s|$func$\($s*\)$replace{$func}$s*|$replace{$func}$1\|$2|g);
        }
    }

    for $func (sort keys %{$file{uses_provided}}) {
        warning("Uses $func instead of $replace{$func} ");
        $file{changes} += ($c =~ s|\b\$func\b|$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
            } else {
diag("Uses $func");
}

$warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
      format_version($API{$func}{todo}), ", even with '$ppport'un";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*\$HS*define\$HS+NEED_$func\b.*\$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_$func_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_$func_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_$func_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*\$HS*define\$HS+NEED_$func_GLOBAL\b.*\$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : ";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files @{$global{needs}{$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;  
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include "$ppport";
        $pp .= qq(#include "$ppport\n"
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*$\n$HS*define\n$HS+NEED_\w+).*/$1$pp/ms)
            || ($c =~ s/^(?=$HS*$\n$HS*include.*$ppport).*/$pp/m)
            || ($c =~ s/^(?=$HS*$\n$HS*include.*XSUB.*\s*)^/$1$pp/m)
            || ($c =~ s/^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport");
        $file{changes} += ($c =~ s/\n$HS*\n$HS*include.*$ppport\E.*?\$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
} else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
}
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "";
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}" ) {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                }
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
    } else if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } else if (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}" ) {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                }
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
    }
mydiff($^PATCH, $filename, $c);

else {
  fallback:
    info("Suggested changes:");
    mydiff($^STDOUT, $filename, $c);
  } } }

else {
  my $s = $file{changes} == 1 ? '' : 's';
  info("$file{changes} potentially required change$s detected");
}

}

else {
  info("Looks good");
}

}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff {
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER

    $diff;
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }
}
if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @$depends{$func};
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /^\d+.(\d+).\d+$/) {
    return ($1, $2, $3);
}
elseif ($ver !~ /^\d+.\[\d_]+$/) {
    die "cannot parse version \$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);
}


die "invalid version '$ver'\n";
}
$s /= 10;

$ver = sprintf "%.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_.%02d", $s;

return $ver;
}

return sprintf "%.%.%.d", $r, $v, $s;

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.

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To be able to use its original script and doc functionality, please try to regenerate this file using:

\$\$X\$$0 --unstrip

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  / (?<![^\*]*\*+[?\[^\]\*]*\*+[?\[^\]\*]*\*+/ | /[^\r\n\]*
  | ( "[^"\\]*(?:\\..[^"\\]*)*"
  | '([^'\\]*(?:\\..[^'\\]*)*)'
  | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!

exit 0;

__DATA__
/*

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AFMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCCJZ3h/PathTools-3.40/ppport.h
No license file was found, but licenses were detected in source scan.

=back
=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/Win32.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x = File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas Koenig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all
operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$cpath = File::Spec->canonpath( $path ) ;

Note that this does *not* collapse F<x/../y> sections into F<y>.  This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-) 

$path = File::Spec->catdir( @directories ) ;

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a
complete path ending with a filename

$\text{path} = \text{File::Spec->catfile( @directories, $filename );}

=item curdir
X<curdir>

Returns a string representation of the current directory.

$\text{curdir} = \text{File::Spec->curdir();}

=item devnull
X<devnull>

Returns a string representation of the null device.

$\text{devnull} = \text{File::Spec->devnull();}

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$\text{rootdir} = \text{File::Spec->rootdir();}

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$\text{ENV[TMPDIR]}$> (unless taint is on) and F</tmp>.

$\text{tmpdir} = \text{File::Spec->tmpdir();}

=item updir
X<updir>

Returns a string representation of the parent directory.

$\text{updir} = \text{File::Spec->updir();}

=item no_upwards

Given a list of file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '.', '..', and equivalents.)
@paths = File::Spec->no_upwards( @paths );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

$sis_case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

$sis_absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

=item path
X<path>

Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

@PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns " for volume,

($volume,$directories,$file) =
    File::Spec->splitpath( $path );

($volume,$directories,$file) =
    File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file> true makes this return (", $path," ).
The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

@dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<"">) can be returned, because these are significant on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path ) ;
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()> . On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.
On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L</Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

```perl
$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;
```

If C<$base> is not present or "", then L</Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L</Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L</File::Spec::Unix>, L</File::Spec::Mac>, L</File::Spec::OS2>, L</File::Spec::Win32>, or
L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

=head1 AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

The vast majority of the code was written by
Kenneth Albanowski C<< <kjahds@kjahds.com> >>,
Andy Dougherty C<< <doughera@lafayette.edu> >>,
Andreas Koenig C<< <A.Koenig@franz ww.TU-Berlin.DE> >>,
Tim Bunce C<< <Tim.Bunce@ig.co.uk> >>.
VMS support by Charles Bailey C<< <bailey@newman.upenn.edu> >>.
OS/2 support by Ilya Zakharevich C<< <ilya@math ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>, and
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>,
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJIZ3h/PathTools-3.40/lib/File/Spec.pm
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Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrl/perl-PathTools.spec
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=head1 SEE ALSO

L<File::Spec>

=cut

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=back

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

       0   all tests successful
       255  test died

every other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

=head1 BUGS and CAVEATS
=over 4

=item Threads

Test::More will only be aware of threads if "use threads" has been done before Test::More is loaded. This is ok:

  use threads;
  use Test::More;

This may cause problems:

  use Test::More
  use threads;

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.
SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

AUTHORS

Michael G Schwern <schwern@pobox.com> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic and the perl-qa gang.

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Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPTIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods
provided by File::Spec.
For a reference of available functions, please consult L<File::Spec::Unix>,
which contains the entire set, and which is inherited by the modules for
other platforms. For further information, please see L<File::Spec::Mac>,
L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

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it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
1.1643 netty-resolver-dns 4.1.49.Final

1.1643.1 Available under license:

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsCache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCache.java

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsCnameCache.java
Null
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.1650 sed 4.2.2-7.el7
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.1656 websocket-common 9.2.19.v20160908

1.1657 jetty-util 9.2.19.v20160908

1.1658 jboss-as-security 7.2.0.Final
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1.1659 tcsh 6.18.01-15.el7

1.1659.1 Available under license :

People who have contributed to tcsh for win32 with bugfixes, functionality,
and other useful pieces of code. If I've left you out, please let me know !

(In alphabetical order)

Tom Kludy                (tom.kludy@citrix.com)
Yarek Kowalik           (Yarek.Kowalik@Sitraka.com)
Edward Lam               
Matt Landau              
Avner Lottem             (avner.lottem@intel.com)
blucas (?)               (blucas@broadcom.com)
Chun-Pong Yu             (bol.pacific.net.sg)
TAGA nayuta             (nayuta@is.s.u-tokyo.ac.jp)
Mike Thomas             (miketh@brisbane.paradigmgeo.com)
Mark Tucker              (mtucker@fiji.sidefx.com)
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* SUCH DAMAGE.
*/
/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ******************/
/
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS
/*VFORKThis machine has a vfork().
*It used to be that for job control to work, this define
*was mandatory. This is not the case any more.
*If you think you still need it, but you don't have vfork,
*define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,
*[should not be needed under 4.1]
*and on the iris4d cause SGI's fork is sufficiently "virtual"
*that vfork isn't necessary. (Besides, SGI's vfork is weird).
*Note that some machines eg. rs6000 have a vfork, but not
*with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*BSDJOBSYou have BSD-style job control (both process groups and
*a tty that deals correctly
*/
#define BSDJOBS

/*BSDTIMESYou have BSD-style process time stuff (like rusage)
*This may or may not be true. For example, Apple Unix
*(OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*BSDLIMITYou have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*TERMIOYou have struct termio instead of struct sgttyb.
* This is usually the case for SYSV systems, where
*BSD uses sgttyb, POSIX systems should define this
*anyway, even though they use struct termios.
*/
#undef TERMIO

/*SYSVRELYour machine is SYSV based (HPUX, A/UX)
*NOTE: don't do this if you are on a Pyramid -- tcsh is
*built in a BSD universe.
*Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*you are running. Or set it to 0 if you are not SYSV based
*/
```c
#define SYSVREL0
/
* YPBUGSWork around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS
/
*************************** local defines **************************/
#endif /* _h_config */
```

1.1660 flyway-core 4.1.2

1.1661 libshout 2.2.2-11.el7

1.1661.1 Available under license:

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Version 2, June 1991

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1.1665 perl-threads-shared 1.43-6.el7

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.43

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;
my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{‘foo’} = $scalar_value;
$hsh{‘bar’} = $shared_ref_value;
$hsh{‘baz’} = shared_clone($non_shared_ref_value);
$hsh{‘quz’} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {} ]);

{ lock(%hash); ... }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created
thread gets a private copy of each existing variable. This module allows you
to share variables across different threads (and pseudo-forks on Win32). It
is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars
and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>,
C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal>
and C<cond_broadcast>
Note that if this module is imported when \texttt{L<threads>} has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

\texttt{share} takes a variable and marks it as shared:

my ($ scalar, @ array, % hash);
share($ scalar);
share(@ array);
share(% hash);

\texttt{share} will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the \texttt{C<:shared>} attribute:

my ($ var, % hash, @ array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($ var, % hash, @ array) :shared;
my $ bork;

# Storing scalars
$ var = 1;
$ hash{‘foo’} = ‘bar’;
$array[0] = 1.5;

# Storing shared refs
$ var = \% hash;
$ hash{‘ary’} = \@ array;
$array[1] = \$ var;

# The following are errors:
# $ var = \$ bork;                  # ref of non-shared variable
# $ hash{‘bork’} = [];               # non-shared array ref
# push(@ array, [ ‘x’ => 1 ]);      # non-shared hash ref

=item shared_clone REF
C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

```
my $cpy = shared_clone( {'foo' => [qw/foo bar baz/] });
```

Object status (i.e., the class an object is blessed into) is also cloned.

```
my $obj = { 'foo' => [qw/foo bar baz/] }; 
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");         # Outputs 'Foo'
```

For cloning empty array or hash refs, the following may also be used:

```
$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share({});   # Same as $var = shared_clone({});
```

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

```
$threads::shared::clone_warn = 1;
```

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

```
$threads::shared::clone_warn = 0;
```

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to L<refaddr()|Scalar::Util/"refaddr EXPR">). Otherwise, returns C<undef>.

```
if (is_shared($var)) {
    print("\$var is shared\n");
} else {
    print("\$var is not shared\n");
}
```

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

```
my %hash :shared;
```
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref); # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
} # $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my %hash :shared;
$hash['foo'] = 'bar';
#lock($hash['foo']); # Error
lock(%hash); # Works

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.
The `cond_wait` function takes a `locked` variable as a parameter, unlocks the variable, and blocks until another thread does a `cond_signal` or `cond_broadcast` for that same locked variable. The variable that `cond_wait` blocked on is re-locked after the `cond_wait` is satisfied. If there are multiple threads `cond_wait`ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using `cond_wait` for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, `cond_wait` takes a shared, `unlocked` variable followed by a shared, `locked` variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread `cond_signal` or `cond_broadcast` on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

In its two-argument form, `cond_timedwait` takes a `locked` variable and an absolute timeout in `epoch` seconds (see `time()` in perlfunc/perlfunc/time for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like `cond_wait`, this function may take a shared, `locked` variable as an additional parameter; in this case the first parameter is a `unlocked` condition variable protected by a distinct lock variable.

Again like `cond_wait`, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
```
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and
unblocks one thread that's C<cond_wait>ing on that variable. If more than one
thread is blocked in a C<cond_wait> on that variable, only one (and which one
is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal
is discarded. By always locking before signaling, you can (with care), avoid
signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an
unlocked variable. On the rare occasions where doing this may be sensible, you
can suppress the warning with:

{ no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>.
C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in
a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc"/bless REF"> that
works on shared objects such that I<blessings> propagate across threads.

# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
    bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
})->join();

print(ref($foo), "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar), "\n");    # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };  
bless($foo, 'foo');

# Share the object
share($foo);  # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (!exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)
It is often not wise to share an object unless the class itself has been written to support sharing. For example, an object's destructor may get called multiple times, once for each thread's scope exit. Another danger is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects, before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->[idx]) >> without giving any error message. But the C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using L<refaddr()> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()> instead:

    use threads;    use threads::shared;    use Scalar::Util qw(refaddr);

    # If ref is shared, use threads::shared's internal ID.
    # Otherwise, use refaddr().
    my $addr1 = is_shared($ref1) || refaddr($ref1);
    my $addr2 = is_shared($ref2) || refaddr($ref2);

    if ($addr1 == $addr2) {
        # The refs are equivalent
    }

L<each()> does not work properly on shared references embedded in shared structures. For example:

    my %foo :shared;
$foo{ 'bar' } = shared_clone({ 'a'=&gt;'x', 'b'=&gt;'y', 'c'=&gt;'z' });

while (my ($key, $val) = each(%{$foo{ 'bar' } })) {
  ...
}

Either of the following will work instead:

my $ref = $foo{ 'bar' };
while (my ($key, $val) = each(%{$ref})) {
  ...
}

foreach my $key (keys(%{$foo{ 'bar' } })) {
  my $val = $foo{ 'bar' }{ $key };
  ...
}

This module supports dual-valued variables created using L<dualvar()> from Scalar::Util."dualvar NUM, STRING">
). However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

L<threads::shared> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads-shared>

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

=head1 AUTHOR

Artur Bergman E&lt;sky AT crucially DOT net&gt;

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E&lt;jdhedden AT cpan DOT org&gt;.
threads::shared is released under the same license as Perl.

No license file was found, but licenses were detected in source scan.

Name: perl-threads-shared
Version: 1.43
Release: 6%{?dist}
Summary: Perl extension for sharing data structures between threads
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/threads-shared/
Source0: http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz
BuildRequires: perl
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(ExtUtils::testlib)
BuildRequires: perl(File::Path)
BuildRequires: perl(File::Spec)
BuildRequires: perl(POSIX)
BuildRequires: perl(Scalar::Util)
BuildRequires: perl(strict)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads) >= 1.73
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)
Requires: perl(:MODULE_COMPAT_%(eval "\"perl -V:version\"; echo $version))
Requires: perl(Carp)
Requires: perl(threads) >= 1.73
Requires: perl(XSLoader)

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the threads module.
%setup -q -n threads-shared-%{version}

%build
perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="$RPM_OPT_FLAGS"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \;
find $RPM_BUILD_ROOT -type f -name '*.bs' -size 0 -exec rm -f {} \;
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test

%files
%doc Changes README
%{_perl_vendorarch}/auto/*
%{_perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
  - Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
  - Remove BR perl(Test)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
  - Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Jan 15 2013 Petr Pisar <ppisar@redhat.com> - 1.43-1
  - 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
  - Add BR perl(File::Spec)
  - Replace PERL_INSTALL_ROOT with DESTDIR
  - Remove deleting empty directories
  - Remove defattr

* Wed Oct 03 2012 Petr Pisar <ppisar@redhat.com> - 1.42-1
  - 1.42 bump
* Mon Sep 10 2012 Petr Pisar <ppisar@redhat.com> - 1.41-1
  - 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmaslano@redhat.com> - 1.40-240
  - bump release to override sub-package from perl.spec

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.40-3
  - Perl 5.16 rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Sep 12 2011 Petr Pisar <ppisar@redhat.com> - 1.40-1
  - 1.40 bump

* Tue Sep 06 2011 Petr Pisar <ppisar@redhat.com> - 1.39-1
  - 1.39 bump

* Wed Aug 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-3
  - change path on vendor, so our debuginfo are not conflicting with perl core debuginfos

* Mon Jun 20 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-2
  - Perl mass rebuild

* Tue Apr 26 2011 Petr Pisar <ppisar@redhat.com> - 1.37-1
  - 1.37 bump

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Petr Pisar <ppisar@redhat.com> - 1.36-1
  - 1.36 bump

* Mon Oct 11 2010 Petr Pisar <ppisar@redhat.com> - 1.34-1
  - 1.34 bump

* Thu Sep 23 2010 Petr Pisar <ppisar@redhat.com> 1.33-1
  - Specfile autogenerated by cpanspec 1.78.
  - Fix dependencies
  - Requires perl(Scalar::Util) is autodetected
  - Do not provide private library
  - Remove pre-F12 BuildRoot stuff
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  37853

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/perl-threads-shared.spec
No license file was found, but licenses were detected in source scan.

/*

------------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

------------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help      show short help
--version   show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet     don't output anything except fatal errors
--nodiag    don't show diagnostics
--nohints   don't show hints
--nochanges don't suggest changes
--nofilter               don't filter input files

--strip                  strip all script and doc functionality from
                        ppport.h

--list-provided          list provided API
--list-unsupported       list unsupported API
--api-info=name          show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.
Tell \texttt{ppport.h} to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of \texttt{ppport.h} if you intend to be backward compatible only down to a certain Perl version.

\texttt{--cplusplus}

Usually, \texttt{ppport.h} will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs \texttt{ppport.h} to leave C++ comments untouched.

\texttt{--quiet}

Be quiet. Don't print anything except fatal errors.

\texttt{--nodiag}

Don't output any diagnostic messages. Only portability alerts will be printed.

\texttt{--nohints}

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

\texttt{--nochanges}

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

\texttt{--nofilter}

Don't filter the list of input files. By default, files not looking like source code (i.e. not \texttt{*xs, *.c, *.cc, *.cpp or *.h}) are skipped.

\texttt{--strip}

Strip all script and documentation functionality from \texttt{ppport.h}. This reduces the size of \texttt{ppport.h} dramatically and may be useful if you want to include \texttt{ppport.h} in smaller modules without increasing their distribution size too much.

The stripped \texttt{ppport.h} will have a C\texttt{--unstrip} option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.
If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```
If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpn> function, use:

    perl ppport.h --api-info=newSVpn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;
my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ \t\]"; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '\.'.'*';
my $cce = '*\.'/;
my $rcccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{`compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{`compat-version'}) }; if ($@) {
        die "Invalid version number format: "$opt{`compat-version'}`\n";
    }
die "Only Perl 5 is supported" if $r != 5;
die "Invalid version number: $opt{'compat-version'}" if $v >= 1000 || $s >= 1000;
$opt{ 'compat-version' } = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{ 'compat-version' } = 5;
}

my %API = map { /\^\w+/|\([^\|]+\)|\([^\|]+\)|\([^\|]+\)/? ( $1 => { ($2 ? ( base => $2 ) : ( ) ), ($3 ? ( todo => $3 ) : ( ) ), (index($4, 'v') >= 0 ? ( varargs => 1 ) : ( ) ), (index($4, 'p') >= 0 ? ( provided => 1 ) : ( ) ), (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ( ) ), ) } : die "invalid spec: $_" } qw(
AvFILL|p|5.004050||p
AvFILL||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILE|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.011000||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER||
ERRSV|5.004050||p
EXTERN||
EXTERN_C|5.005000||p
F0convert||n
FREETMPS||
MoveD[5.009002]|p
Move||
NOOP[5.005000]|p
NUM2PTR[5.006000]|p
NVTYPE[5.006000]|p
NVef[5.006001]|p
NVtr[5.006001]|p
NVgf[5.006001]|p
Newxc[5.009003]|p
Newxz[5.009003]|p
Newx[5.009003]|p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV||
PAD_CLONE_VARS||
PAD_COMPNAME_FLAGS||
PAD_COMPNAME_GEN_set||
PAD_COMPNAME_GEN||
PAD_COMPNAME_OURSTASH||
PAD_COMPNAME_PV||
PAD_COMPNAME_TYPE||
PAD_DUP||
PAD_RESTORE_LOCAL||
PAD_SAVE_LOCAL||
PAD_SAVE_SETNULLPAD||
PAD_SETSV||
PAD_SET_CUR_NOSAVE||
PAD_SET_CUR||
PAD_SV||
PAD_SV||
PERLIO_FUNCS_CAST[5.009003]|p
PERLIO_FUNCS_DECL[5.009003]|p
PERL_ABS[5.008001]|p
PERL_BCDVERSION[5.011000]|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]|p
PERL_HASH[5.004000]|p
PERL_INT_MAX[5.004000]|p
PERL_INT_MIN[5.004000]|p
PERL_LONG_MAX[5.004000]|p
PERL_LONG_MIN[5.004000]|p
PERL_MAGIC_arylen[5.007002]|p
PERL_MAGIC_backref[5.007002]|p
PERL_MAGIC_bnm[5.007002]|p
PERL_MAGIC_collxfm[5.007002]|p
PERL_PVPRETTY_REGPROP|5.009004\|p
PERL_QUAD_MAX|5.004000\|p
PERL_QUAD_MIN|5.004000\|p
PERL_REVISION|5.006000\|p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003\|p
PERL_SCAN(DISALLOW_PREFIX|5.007003\|p
PERL_SCAN(GREATER_THAN_UV_MAX|5.007003\|p
PERL_SCAN(SILENT_ILLDIGIT|5.008001\|p
PERL_SHORT_MAX|5.004000\|p
PERL_SHORT_MIN|5.004000\|p
PERL_SIGNALS_UNSAFE_FLAG|5.008001\|p
PERL_SUBVERSION|5.006000\|p
PERL_SYS_INIT3|5.006000\|
PERL_SYS_INIT\|
PERL_SYS_TERM|5.011000|
PERL_UCHAR_MAX|5.004000\|p
PERL_UCHAR_MIN|5.004000\|p
PERL_UINT_MAX|5.004000\|p
PERL_UINT_MIN|5.004000\|p
PERL ULONG_MAX|5.004000\|p
PERL ULONG_MIN|5.004000\|p
PERL_UNUSED_ARG|5.009003\|p
PERL_UNUSED_CONTEXT|5.009004\|p
PERL_UNUSED_DECL|5.007002\|p
PERL_UNUSED_VAR|5.007002\|p
PERL_UQUAD_MAX|5.004000\|p
PERL_UQUAD_MIN|5.004000\|p
PERL_USE_GCC_BRACE_GROUPS|5.009004\|p
PERL_USHORT_MAX|5.004000\|p
PERL_USHORT_MIN|5.004000\|p
PERL_VERSION|5.006000\|p
PL_DBsignal|5.005000\|p
PL_DBsingle\||p
PL_DBsub\|\|p
PL_DBtrace\|\|p
PL_Sv|5.005000\|p
PLbufend|5.011000\|p
PL_bufptr|5.011000\|p
PL_compiling|5.004050\|p
PL_copline|5.011000\|p
PL_curcop|5.004050\|p
PL_curstash|5.004050\|p
PL_debstash|5.004050\|p
PL_defgv|5.004050\|p
PL_diehook|5.004050\|p
PL_dirty|5.004050\|p
PL_dowarn\|\|p
PL_errgv|5.004050\|p
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SvPV_nomg_const</td>
<td>5.009003</td>
</tr>
<tr>
<td>SvPV_nomg</td>
<td>5.007002</td>
</tr>
<tr>
<td>SvPV_renew</td>
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}

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```perl
else {
  $function->[1] = $_
;}

$function = [S1, ""] if m{^DPPP_\(my\(\w+\)\)\};

$replace   = S1 if m{^s*\$rccs\s+Replace:\s+(\d+)\s+\$rccce\s*\$};
$replace{S2} = S1 if m{^s*\$s*\$rccs\s+Replace\s+(\w+)\s+\$rccce\s*\$};
$replace{S2} = S1 if m{^s*\$s*\$rccs\s+Replace\s+(\w+)\s+\$rccce\s*\$};
$replace{S1} = S2 if m{^s*\$rccs\s+Replace \(\w+\) with \(\w+)\s+\$rccce\s*\$};

if (m{^s*\$rccs\s+\(\w+\)\s+\$s*\$rccce\s*\$}) { my @deps = map { s/\s+//g; $_ } split ",", $3; my $d;
  for $d (map { s/\s+//g; $_ } split ",", $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{S1} = 1 if m{^if\s+defined\(\$need\(\w+)\s+_GLOBAL\)\};
}

for (values %depends) {
  my %s;
  $$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
  my $f;
  my $count = 0;
  my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{\'api-info\'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===
\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base:\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo:\n";
      print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
      print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
      print "\nShints{$f}\" if exists $hints{$f};
      print "\nWARNING:\n$warnings{$f}\" if exists $warnings{$f};
```
$info++;  
}  
print "No portability information available\n" unless $info;  
$count++;  
}  
$count or print "Found no API matching \$opt\{api-info\}'.\n";  
print "\n";  
extit 0;  
}  

if (exists $opt\{list-provided\}) {  
my $f;  
for $f (sort { lc $a cmp lc $b } keys %API) {  
  next unless $API{$f}\{provided\};  
  my @flags;  
  push @flags, 'explicit' if exists $need{$f};  
  push @flags, 'depend'   if exists $depends{$f};  
  push @flags, 'hint'     if exists $hints{$f};  
  push @flags, 'warning'  if exists $warnings{$f};  
  my $flags = @flags ? \[join(', ', @flags).\] : '';  
  print "$f$flags\n";  
}  
exit 0;  
}  

my @files;  
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );  
my $srcext = join '|', map \{ quotemeta \$_ \} @srcext;  

if (@ARGV) {  
my %seen;  
for (@ARGV) {  
  if (-e) {  
    if (-f) {  
      push @files, $_ unless $seen{$_}++;  
    } else { warn "\$_ is not a file\n" }  
  } else {  
    my @new = grep \{ -f \} glob \$_  
      or warn "\$_ does not exist\n";  
    push @files, grep \{ !$seen{$_}++ \} @new;  
  }  
}  
else {  
  eval {  
    require File::Find;  
  }  
}  
}
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= '|$revreplace{$func}' if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    }
    if (exists $API{$func}{provided}) {
        $file{uses_provided}{$func}++;
        if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            for (@deps) {
                $file{uses}{$_} = 0 unless exists $file{uses}{$_};
            }
            for ($func, @deps) {
                $file{needs}{$_} = 'static' if exists $need{$_};
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\b$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /\^SHS*\#SHS*define\$SHS+(\w+?)(_GLOBAL)?\b/ig) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}

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for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/bPerl_$func(s*)$/(s*aTHX_?)?(s*)/)g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(',',$ @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    } else {
        if (exists $file{needs}{$func}) {
            $message = "No need to define NEED_$func when already needed globally";
            $message = "No need to define NEED_$func if $func is never used";
        } else {
            diag($message);
            $file{changes} += ($c =~ s/#define$HS+NEED_$func/#define$HS+NEED_$func/b.$LF//mg);
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
             format_version($API{$func}{todo}), ", even with '$ppport'\n"
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } else {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#define$HS+NEED_$func$HS+NEED_$func/b.$LF//mg);
    }
}
for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}[$func] eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}[$func]}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
        }
    }
    $pp .= "#define NEED_$func$suffix\n";
    }

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}
if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)  || ($c =~ s/^(!?=.*$HS*?#$HS*include.*)#/\Q$ppport\E/#pp/m)  || ($c =~ s/^($HS*#$HS*include.*XSUB.*?)/$1$pp/m)  || ($c =~ s/^/$pp/);
}  
}  
else {  
    if ($file{has_inc_ppport}) {  
        diag("No need to include '$ppport'");  
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }  
    }  
}  

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';  
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : '';  
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        warning("Uses $cpc C++ style comment$s, which is not portable");
    }
    my $s = $warnings != 1 ? 's' : '';  
    my $warn = $warnings ? " ($warnings warning$s)" : '';  
    info("Analysis completed$warn");
}
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of "$filename"");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of "$filename' with changes to "newfile");
            } else {
                my $error = "Failed to open "$newfile" for writing";
                error($error);
            }
        }
    }
}
print F $c;
close F;
}
else {
    error("Cannot open '$newfile' for writing: $!");

}
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, "$opt{patch}") {
                $patch_opened = 1;
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(

} 
    else {
        fallback:
            info("Suggested changes:");
            mydiff(

} 
    else {
        my $s = $file{changes} == 1 ? ":" : ",";
        info("$file{changes} potentially required change$s detected");
    }
} 
else {
    info("Looks good");
} 
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_"; return $@ eq "" }

sub mydiff
{
local *F = shift;
my($file, $str) = @_;
my $diff;

if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
}

if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; my $tmp = 'dppptemp'; my $suf = 'aaa'; my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            
        }
    }
}
while (<F>) {
    s/$Q\tmp\E/$file.patched/;
    $diff .= $_; 
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend {
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    }

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+(\d+).\d+\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\d+\d+$/) {
        die "cannot parse version '$ver'\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\d+\d+$/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {

if ($s % 10) {
    die "cannot parse version '$ver'\n";
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;

        $ver = sprintf "%d.\%d", $r, $v;
        $s > 0 and $ver .= sprintf "._\%d", $s;

        return $ver;
    }

    return sprintf "\%d.\%d.\%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
}
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip

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my $self = do { local(@ARGV,$/)=$0; <> };  
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\$^\+.*?\^\+\w+/.gms;  
$self =~ s/^(?=/\$+)//gms;  
$self =~ s/\$/\$/gms;  
$self =~ s/\$HS+Do NOT edit.*?(?=^-)/\$copy/ms;  
$self =~ s/\$SKIP.*?(?=\^DATA_)/\$SKIP  
if (@ARGV && $ARGV[0] eq '--unstrip')  
{  
evail { require Devel::PPPort };  
\$@ and die "Cannot require Devel::PPPort, please install.";  
if (eval \$Devel::PPPort::VERSION < \$VERSION)  
   die "$0 was originally generated with Devel::PPPort \$VERSION.";  
   "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.";  
   "Please install a newer version, or --unstrip will not work.";  
}  
Devel::PPPort::WriteFile($0);  
extit 0;  
}  
print <<END;  
Sorry, but this is a stripped version of \$0.  
To be able to use its original script and doc functionality,  
please try to regenerate this file using:  
\$^X \$0 --unstrip  
END  
/;ms;  
my($pl, $c) = $self =~ /(.*\^DATA_)(.*)/ms;  
$c =~ s{  
  / (?: \\[^\*]*\*+(?:\[^$ccs\]\[^\*]*\*+)* / | /\[^\n\]*)  
  | ( \"[^"\]\*["\]\]*" )  
  | ( "[^\n\]\*["\]\]*" )  
  | ( $HS+) ) \{ defined \$2 ? ' ' : ( \$1 || '' ) \} gsex;  
$c =~ s/\$s+$!/mg;  
$c =~ s/\$s!\^\$!/mg;  
$c =~ s/\$s#s<!#!mg;  
$c =~ s/\$s++!mg;  
open OUT, ”>$0” or die "cannot strip \$0: \$!n”;  
print OUT "$pl$\$!n";  
extit 0;  
}  
__DATA__  
*/
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Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-Uf0FzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/ppport.h

No license file was found, but licenses were detected in source scan.

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This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-Uf0FzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/examples/class.pl

No license file was found, but licenses were detected in source scan.

/ * shared.xs
 *  
 *  Copyright (c) 2001-2002, 2006 Larry Wall
 *  
 *  You may distribute under the terms of either the GNU General Public
 *  License or the Artistic License, as specified in the README file.
 *  
 *  "Hand any two wizards a piece of rope and they would instinctively pull in
 *  opposite directions."
 *    --Sourcery
 *  
 *  Contributed by Artur Bergman <sky AT crucially DOT net>
 *  Pulled in the (an)other direction by Nick Ing-Simmons
 *    <nick AT ing-simmons DOT net>
 *  CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
 */

/ *  
 *  Shared variables are implemented by a scheme similar to tieing.
 *  Each thread has a proxy SV with attached magic -- "private SVs" --
 *  which all point to a single SV in a separate shared interpreter
 *  (PL_sharedsv_space) -- "shared SVs".
 *  
 *  The shared SV holds the variable's true values, and its state is
 *  copied between the shared and private SVs with the usual
 *  mg_get()/mg_set() arrangement.
 *  
 *  Aggregates (AVs and HVs) are implemented using tie magic, except that
 *  the vtable used is one defined in this file rather than the standard one.
 *  This means that where a tie function like FETCH is normally invoked by
 *  the tie magic's mg_get() function, we completely bypass the calling of a
 *  perl-level function, and directly call C-level code to handle it. On
 *  the other hand, calls to functions like PUSH are done directly by code
 *  in av.c, etc., which we can't bypass. So the best we can do is to provide

* XS versions of these functions. We also have to attach a tie object, *
* blessed into the class threads::shared::tie, to keep the method-calling *
* code happy.
*
* Access to aggregate elements is done the usual tied way by returning a *
* proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirreled away in the mg->mg_ptr field *
* of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied *
* object SVs. These pointers have to be hidden like this because they *
* cross interpreter boundaries, and we don't want sv_clear() and friends *
* following them.
*
* The three basic shared types look like the following:
*
* ---------------
*
* Shared scalar (my $s : shared):
*
*  SV = PVMG(0x7ba238) at 0x7387a8
*  FLAGS = (PADMY,GMG,SMG)
*  MAGIC = 0x824d88
*  MG_TYPE = PERL_MAGIC_shared_scalar(n)
*  MG_PTR = 0x810358               <<<< pointer to the shared SV
*
* ---------------
*
* Shared aggregate (my @a : shared; my %h : shared):
*
*  SV = PVAV(0x7175d0) at 0x738708
*  FLAGS = (PADMY,RMG)
*  MAGIC = 0x824e48
*  MG_TYPE = PERL_MAGIC_tied(P)
*  MG_OBJ = 0x7136e0                <<<< ref to the tied object
*  SV = RV(0x7136f0) at 0x7136e0
*  RV = 0x738640
*  SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
*  FLAGS = (OBJECT,IOK,pIOK)
*  IV = 8455000                    <<<< pointer to the shared AV
*  STASH = 0x80abf0 "threads::shared::tie"
*  MG_PTR = 0x810358              "" <<<< another pointer to the shared AV
*  ARRAY = 0x0
*
* ---------------
*
* Aggregate element (my @a : shared; $a[0])
*
*  SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,MRG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 "" " " pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 " " ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 " " the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064 " " pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t

* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
* *
* *
* Userland locks:
* *
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* *shared* SV, whose mg_ptr field points to a malloc'ed structure
* * containing the necessary mutexes and condition variables.
* *
* Nomenclature:
* *
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
ifndef HAS_PPSPORT_H
  # define NEED_sv_2pv_flags
  # define NEED_vnewSVpvf
  # define NEED_warner
  # define NEED_newSVpvn_flags
  # include "ppport.h"
  # include "shared.h"
endif
#ifdef USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/*
 * The shared things need an interpreter to live in ...
 */
PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
 * SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
 * while in the shared interpreter context don't languish */

#define SHARED_CONTEXT
  STMT_START {
    PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
    ENTER;
    SAVETMPS;
  } STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
  STMT_START {
    FREETMPS;
    LEAVE;
    PERL_SET_CONTEXT((aTHX = caller_perl));
  } STMT_END

/*
 * Only one thread at a time is allowed to mess with shared space.
 */

typedef struct {
  perl_mutex    mutex;
  PerlInterpreter *owner;
  I32           locks;
  perl_cond     cond;
  #ifdef DEBUG_LOCKS
    char        *file;
    int         line;
  #endif
} recursive_lock_t;
recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

void recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

void recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

void recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
#ifdef DEBUG_LOCKS
            Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d
", aTHX, lock->owner, lock->file, lock->line);
#endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
    }
}
lock->locks = 1;
lock->owner = aTHX;
#endif
}
MUTEX_UNLOCK(&lock->mutex);
SAVEDESTRUCTOR_X(recursive_lock_release,lock);
}
#define ENTER_LOCK
  STMT_START {
    ENTER;
    recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
  } STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
  STMT_START {
    ENTER_LOCK;
    SHARED_CONTEXT;
  } STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
  STMT_START {
    CALLER_CONTEXT;
    LEAVE_LOCK;
  } STMT_END

/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code */

typdef struct {
  recursive_lock_t    lock; /* For user-level locks */
  perl_cond           user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs */
The vtable used has just one entry - when the SV goes away we free the memory for the above.

*/

int sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
    return (0);
}

MGVTBL sharedsv_userlock_vtbl = {
    0, /* get */
    0, /* set */
    0, /* len */
    0, /* clear */
    sharedsv_userlock_free, /* free */
    0, /* copy */
    0, /* dup */
#ifdef MGf_LOCAL
    0, /* local */
#endif
};

/* Support for dual-valued variables */
#ifdef SVf_IVisUV
#define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                       
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
            : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV)    
                : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))) 
        : 0)
#else
#define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                       
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
            : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))
#endif

# define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                     
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK        
            : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0)) 
        : 0)

#else
    # define DUALVAR_FLAGS(sv)                         
        ((SvPOK(sv))                                     
            ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK       
                : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0)) 
            : 0)
#endif
/*
 * Access to shared things is heavily based on MAGIC
 * - in mg.h/mg.c/sv.c sense
 */

/* In any thread that has access to a shared thing there is a "proxy"
 for it in its own space which has 'MAGIC' associated which accesses
 the shared thing.
 */

extern MGVTBL sharedsv_scalar_vtbl;    /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl;     /* Hashes and arrays have this
 - like 'tie' */
extern MGVTBL sharedsv_elem_vtbl;      /* Elements of hashes and arrays have
 this _AS WELL AS_ the scalar magic:
 The sharedsv_elem_vtbl associates the element with the array/hash and
 the sharedsv_scalar_vtbl associates it with the value
 */

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */
#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
 * If create is true, create one if it doesn't exist
 */
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
    * lock to access them ???? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG))
            break;
    }
if (mg) {
    ul = (user_lock*)(mg->mg_ptr);
} else if (create) {
    dTHXc;
    SHARED_CONTEXT;
    ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
    Zero(ul, 1, user_lock);
    /* Attach to shared SV using ext magic */
    mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                     (char *)ul, 0);
    mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
    recursive_lock_init(aTHX_ &ul->lock);
    COND_INIT(&ul->user_cond);
    CALLER_CONTEXT;
}
LEAVE_LOCK;
return (ul);

/* Given a private side SV tries to find if the SV has a shared backend,
 * by looking for the magic.
 */

SV *
Perl_sharedsv_find(pTHX_ SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
            case SVt_PVAV:
            case SVt_PVHV:
                if ((mg = mg_find(sv, PERL_MAGIC_tied))
                   && mg->mg_virtual == &sharedsv_array_vtbl) {
                    return ((SV *)mg->mg_ptr);
                }
                break;
            default:
                /* This should work for elements as well as they
                 * have scalar magic as well as their element magic
                 */
                if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                   && mg->mg_virtual == &sharedsv_scalar_vtbl) {
                    return ((SV *)mg->mg_ptr);
                }
                break;
        }
    }
/* Just for tidyness of API also handle tie objects */
if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
    return (SHAREDSV_FROM_OBJ(sv));
}
return (NULL);

/* Associate a private SV with a shared SV by pointing the appropriate
* magics at it.
* Assumes lock is held.
*/
void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space );

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX );

    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if (!((mg = mg_find(sv, PERL_MAGIC_tied))
            || mg->mg_virtual != &sharedsv_array_vtbl
            || (SV*) mg->mg_ptr != ssv)
        {
            SV *obj = newSV(0);
            sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
            if (mg) {
                sv_unmagic(sv, PERL_MAGIC_tied);
            }
            mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                (char *)ssv, 0);
            mg->mg_flags |= (MGf_COPY|MGf_DUP);
            SvREFCNT_inc_void(ssv);
            SvREFCNT_dec(obj);
        }
        break;
    default:
        if (((SvTYPE(sv) < SVt_PVMG)
            || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
            || mg->mg_virtual != &sharedsv_scalar_vtbl
            || "threads::shared::tie",
            PTR2IV(sv));
            if (mg) {
                sv_unmagic(sv, PERL_MAGIC_shared_scalar);
            }
            mg = sv_magicext(sv, (char *)ssv, 0);
            mg->mg_flags |= (MGf_COPY|MGf_DUP);
            PvREFCNT_inc_void(ssv);
            PvREFCNT_dec(obj);
        }
        break;
    }
|| (SV*) mg->mg_ptr != ssv)  
}  
if (mg) {  
    sv_unmagic(sv, PERL_MAGIC_shared_scalar);  
}  
mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,  
&sharedsv scalar_vtbl, (char *)ssv, 0);  
if (mg->mg_flags |= (MGf_DUP  
#ifdef MGf_LOCAL  
|MGf_LOCAL  
#endif  
}

SvREFCNT_inc_void(ssv);  
break;  
}  
assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );  
}  
/* Given a private SV, create and return an associated shared SV.  
* Assumes lock is held.  
*/  
STATIC SV *  
S_sharedsv_new_shared(pTHX_ SV *sv)  
{  
dTHXc;  
SV *ssv;  
assert(PL_sharedsv_lock.owner == aTHX);  
assert(aTHX != PL_sharedsv_space);  
SHARED CONTEXT;  
ssv = newSV(0);  
SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */  
sv_upgrade(ssv, SvTYPE(sv));  
CALLER CONTEXT;  
Perl_sharedsv_associate(aTHX_ sv, ssv);  
return (ssv);  
}  
/* Given a shared SV, create and return an associated private SV.  
* Assumes lock is held.  
*/  
STATIC SV *  
S_sharedsv_new_private(pTHX_ SV *ssv)
{  
  SV *sv;

  assert(PL_sharedsv_lock.owner == aTHX);
  assert(aTHX != PL_sharedsv_space);

  sv = newSV(0);
  sv_upgrade(sv, SvTYPE(ssv));
  Perl_sharedsv_associate(aTHX_ sv, ssv);
  return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
  if (! ssv)
    return;

  ENTER_LOCK;
  if (SvREFCNT(ssv) > 1) {
    /* No side effects, so can do it lightweight */
    SvREFCNT_dec(ssv);
  } else {
    dTHXc;
    SHARED_CONTEXT;
    SvREFCNT_dec(ssv);
    CALLER_CONTEXT;
  }
  LEAVE_LOCK;
}

/* Implements Perl-level share() and :shared */

void
Perl_sharedsv_share(pTHX_ SV *sv)
{
  switch(SvTYPE(sv)) {
  case SVt_PVGV:
    Perl_croak(aTHX_ "Cannot share globs yet");
    break;

  case SVt_PVCV:
    Perl_croak(aTHX_ "Cannot share subs yet");
    break;
  }
default:
    ENTER_LOCK;
    (void) S_sharedsv_new_shared(aTHX_ sv);
    LEAVE_LOCK;
    SvSETMAGIC(sv);
    break;
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds. (Adapted from Time::HiRes.) */
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;   /* 'signed' to keep compilers happy */
    } now;
    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
    return (DWORD)rel;
}

#else
    #if defined(OS2)
    # define ABS2RELMILLI(abs)             \
    do {                                \
        abs -= (double)time(NULL);     \
        if (abs > 0) { abs *= 1000; }  \
        else { abs = 0; }             \
    } while (0)
    # endif /* OS2 */
    #endif /* WIN32 */

    /* Do OS-specific condition timed wait */
bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
#if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
    Perl_croak_nocontext("cond_timedwait not supported on this platform");
#else
    # ifdef WIN32
        int got_it = 0;

        cond->waiters++;
        MUTEX_UNLOCK(mut);
        /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
        switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
            case WAIT_OBJECT_0:   got_it = 1; break;
            case WAIT_TIMEOUT:                break;
            default:
                /* WAIT_FAILED? WAIT_ABANDONED? others? */
                Perl_croak_nocontext("panic: cond_timedwait (%ld),GetLastError()");
                break;
        }
        MUTEX_LOCK(mut);
        cond->waiters--;
        return (got_it);
    # else
    # ifdef OS2
        int rc, got_it = 0;
        STRLEN n_a;

        ABS2RELMILLI(abs);

        if (((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
            Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
        MUTEX_UNLOCK(mut);
        if (CheckOSError(DosWaitEventSem(*cond,abs))
            && (rc != ERROR_INTERRUPT))
            croak_with_os2error("panic: cond_timedwait");
        if (rc == ERROR_INTERRUPT) errno = EINTR;
        MUTEX_LOCK(mut);
        return (got_it);
    # else          /* Hope you're I_PTHREAD! */
        struct timespec ts;
        int got_it = 0;

        ts.tv_sec = (long)abs;
        abs -= (NV)ts.tv_sec;
        ts.tv_nsec = (long)(abs * 1000000000.0);
    # endif
    # endif
#endif
}
switch (pthread_cond_timedwait(cond, mut, &ts)) {
    case 0:         got_it = 1; break;
    case ETIMEDOUT: break;
#endif OEMVS
    case -1:
        if (errno == ETIMEDOUT || errno == EAGAIN)
            break;
#endif /* OS2 */
#endif /* WIN32 */
#endif /* NETWARE || FAKE_THREADS || I_MACH_CTHREADS */
}

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
        ((obj = SvRV(sv))) &&
        (Perl_sharedsv_find(aTHX_ obj) == sobj) &&
        (SvTYPE(obj) == SvTYPE(sobj))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvREFCNT_dec(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharedsv_new_private(aTHX_ sobj);
        SvRV_set(sv, obj);
    }
    if (SvOBJECT(obj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(obj));
        SvOBJECT_off(obj);
    }
if (SvOBJECT(sobj)) {
    /* Add any new old blessing */
    STRLEN len;
    char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
    HV* stash = gv_stashpv(stash_ptr, len, TRUE);
    SvOBJECT_on(obj);
    SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     
    S_get_RV(aTHX_ sv, sobj);             
    /* Look ahead for refs of refs */      
    if (SvROK(sobj)) {                      
        SvROK_on(SvRV(sv));                  
        S_get_RV(aTHX_ SvRV(sv), SvRV(sobj)); 
    }

/* ------------ PERL_MAGIC_shared_scalar(n) functions -------------- */

/* Get magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV *) mg->mg_ptr;
    assert(ssv);

    ENTER_LOCK;
    if (SvROK(ssv)) {
        get_RV(sv, SvRV(ssv));
    } else {
        sv_setsv_nomg(sv, ssv);
    }
    LEAVE_LOCK;
    return (0);
}

/* Copy the contents of a private SV to a shared SV.
* Used by various mg_set()-type functions.
* Assumes lock is held.
*/
void sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{ 
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);
    if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX_, obj);
        if (sobj) {
            SHARED_CONTEXT;
            (void)SvUPGRADE(ssv, SVt_RV);
            sv_setsv_nomg(ssv, &PL_sv_UNDEF);

            SvRV_set(ssv, SvREFCNT_inc(sobj));
            SvROK_on(ssv);
            if (SvOBJECT(sobj)) {
                /* Remove any old blessing */
                SvREFCNT_dec(SvSTASH(sobj));
                SvOBJECT_off(sobj);
            }
            if (SvOBJECT(obj)) {
                SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
                SvOBJECT_on(sobj);
                SvSTASH_set(sobj, (HV*)fake_stash);
            }
            CALLER_CONTEXT;
        } else { 
            allowed = FALSE;
        }
    } else { 
        SvTEMP_off(sv);
        SHARED_CONTEXT;
        sv_setsv_nomg(ssv, sv);
        if (SvOBJECT(ssv)) {
            /* Remove any old blessing */
            SvREFCNT_dec(SvSTASH(ssv));
            SvOBJECT_off(ssv);
        }
        if (SvOBJECT(sv)) {
            SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
            SvOBJECT_on(ssv);
            SvSTASH_set(ssv, (HV*)fake_stash);
        }
    }
}
CALLER_CONTEXT;
}
if (!allowed) {
    Perl_croak(aTHX_ "Invalid value for shared scalar");
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_ sv, ssv);
    LEAVE_LOCK;
    return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
 * Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
 */
int
sharedsv_scalar_mg_dup(pTHX_MAGIC*mg, CLONE_PARAMS*param) {
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
int
sharedsv_scalar_mg_local(pTHX_SV* nsv, MAGIC*mg)
{
    MAGIC*nmg;
    SV*ssv = (SV*)mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
        mg->mg_ptr, mg->mg_len);
    nmg->mg_flags = mg->mg_flags;
    nmg->mg_private = mg->mg_private;
    return (0);
}
#endif

MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get, /* get */
    sharedsv_scalar_mg_set, /* set */
    0, /* len */
    0, /* clear */
    sharedsv_scalar_mg_free, /* free */
    0, /* copy */
    sharedsv_scalar_mg_dup, /* dup */
#ifdef MGf_LOCAL
    sharedsv_scalar_mg_local, /* local */
#endif
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */
/* Get magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_FETCH(pTHX_SV *sv, MAGIC *mg) {
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert (mg->mg_ptr == 0);
            SHARED_CONTEXT;
            svp = av_fetch((AV*)saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;
            I32 len = mg->mg_len;
            assert (mg->mg_ptr != 0);
            if (mg->mg_len == HEf_SVKEY) {
                STRLEN slen;
                key = SvPV((SV*)mg->mg_ptr, slen);
                len = slen;
                if (SvUTF8((SV*)mg->mg_ptr)) {
                    len = -len;
                }
            }
            SHARED_CONTEXT;
            svp = hv_fetch((HV*)saggregate, key, len, 0);
        }
    } else {
    }
    CALLER_CONTEXT;
}

if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* $ary->[elem] or $ary->{elem} is a scalar */
        Perl_sharedsv_associate(aTHX_sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}

LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */
int

sharedsv_elem_mg_STORE(pTHX_SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the
    magic such that by the time we get here it has been stored
    to its shared counterpart
    */
    ENTER_LOCK;
    assert(saggregate);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        assert ( mg->mg_ptr == 0 );
        SHARED_CONTEXT;
        ssvp = av_fetch((AV*) saggregate, mg->mg_len, 1);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {
                len = -len;
            }
        }
        SHARED_CONTEXT;
        ssvp = hv_fetch((HV*) saggregate, key, len, 1);
    }
    CALLER_CONTEXT;
    Perl_sharedsv_associate(aTHX_ sv, *svp);
    sharedsv_scalar_store(aTHX_ sv, *svp);
    SvFLAGS(*svp) |= dualvar_flags;
    LEAVE_LOCK;
    return (0);
}

/* Clear magic for PERL_MAGIC_tiedelem(p) */

int

sharedsv_elem_mg_DELETE(pTHX_SV *sv, MAGIC *mg)
{
    dTHXc;
MAGIC *shmg;
SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

/* Object may not exist during global destruction */
if (!saggregate) {
    return (0);
}

ENTER_LOCK;
sharedsv_elem_mg_FETCH(aTHX__sv, mg);
if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
    sharedsv_scalar_mg_get(aTHX__sv, shmg);
if (SvTYPE(saggregate) == SVt_PVAV) {
    SHARED_CONTEXT;
    av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
} CALLER_CONTEXT;
LEAVE_LOCK;
return (0);

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
 * thread */

int
sharedsv_elem_mg_dup(pTHX__MAGIC *mg, CLONE_PARAMS *param) {
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_elem_vtbl = {
sharedsv_elem_mg_FETCH, /* get */
sharedsv_elem_mg_STORE, /* set */  
0,                          /* len */
sharedsv_elem_mg_DELETE,    /* clear */
0,                          /* free */
0,                          /* copy */
sharedsv_elem_mg_dup,       /* dup */
#endif
0,                          /* local */
#endif
}

/* ------------ PERL_MAGIC_tied(P) functions -------------- */

/* Len magic for PERL_MAGIC_tied(P) */

U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
    SHARED_RELEASE;
    return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)svs) : NULL;
        I32 items = isav ? AvFILLp((AV *)svs) + 1 : 0;
        HE *iter;
if (!isav) hv_iterinit((HV *)ssv);
while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
    SV *sv = isav ? *svp++ : HeVAL(iter);
    if (!sv) continue;
    if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
        && SvREFCNT(sv) == 1 ) {
        SV *tmp = Perl_sv_newmortal(caller_perl);
        PERL_SET_CONTEXT((aTHX = caller_perl));
        sv_upgrade(tmp, SVt_RV);
        get_RV(tmp, sv);
        PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
    }
    }
}
if (isav) av_clear((AV*) ssv);
else      hv_clear((HV*) ssv);
SHARED_RELEASE;
return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    return (0);
}

/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
    SV *nsv, const char *name, I32 namlen)
#else
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
    SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
        toLOWER(mg->mg_type),&sharedsv_elem_vtbl, name, namlen);
    }
int
sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
PERL_UNUSED_ARG(param);
SvREFCNT_inc_void((SV*)mg->mg_ptr);
assert(mg->mg_flags & MGf_DUP);
return (0);
}

MGVTBL sharedsv_array_vtbl = {
0, /* get */
0, /* set */
sharedsv_array_mg_FETCHSIZE, /* len */
sharedsv_array_mg_CLEAR, /* clear */
sharedsv_array_mg_free, /* free */
sharedsv_array_mg_copy, /* copy */
sharedsv_array_mg_dup, /* dup */
#ifdef MGf_LOCAL
0, /* local */
#endif
};

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
assert(ul);
recursive_lock_release(aTHX_ &ul->lock);
}

/* Recursive locks on a sharedsv.
* Locks are dynamically scoped at the level of the first lock.
*/
void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
user_lock *ul;
if (! ssv)
    return;
ul = S_get_userlock(aTHX_ ssv, 1);
recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */

void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
 * True if not a shared,
 * or if destroying last proxy on a shared object
 */
#ifdef PL_destroyhook
bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#ifdef PL_signalhook
STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX)
{ 
    int us;

MUTEX_LOCK(&PL_sharedsv_lock.mutex);
us = (PL_sharedsv_lock.owner == aTHX);
MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
if (us)
    return; /* try again later */
prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    /* This pair leaves us in shared context ... */
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX, &PL_sharedsv_lock);
    PL_lockhook = &Perl_sharedsv_locksv;
    PL_sharehook = &Perl_sharedsv_share;
#endif PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
#endif PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
#endif
}

#endif /* USE_ITHREADS */

MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#endif USE_ITHREADS

void
PUSH(SV *obj, ...)
    CODE:
    dTHXc;
    SV *sobj = SHARED SV_FROM_OBJ(obj);
    int ii;
for (ii = 1; ii < items; ii++) {
    SV* tmp = newSVsv(ST(ii));
    SV *stmp;
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    ENTER_LOCK;
    stmp = S_sharedsv_new_shared(aTHX_tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SvFLAGS(stmp) |= dualvar_flags;
    SHARED_CONTEXT;
    av_push((AV*) sobj, stmp);
    SvREFCNT_inc_void(stmp);
    SHARED_RELEASE;
    SvREFCNT_dec(tmp);
}

void
UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = S_sharedsv_new_shared(aTHX_tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SHARED_CONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLER_CONTEXT;
    SvREFCNT_dec(tmp);
}
void
SHIFT(SV *obj)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SV* ssv;
   ENTER_LOCK;
   SHARED_CONTEXT;
   ssv = av_shift((AV*)sobj);
   CALLER_CONTEXT;
   ST(0) = sv_newmortal();
   Perl_sharedsv_associate(aTHX_ST(0), ssv);
   SvREFCNT_dec(ssv);
   LEAVE_LOCK;
   /* XSRETURN(1); - implied */

void
EXTEND(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   av_extend((AV*)sobj, count);
   SHARED_RELEASE;

void
STORESIZE(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_fill((AV*) sobj, count);
   SHARED_RELEASE;
EXISTS(SV *obj, SV *index)

CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
   SHARED_EDIT;
   exists = av_exists((AV*) sobj, SvIV(index));
} else {
   I32 len;
   STRLEN slen;
   char *key = SvPVutf8(index, slen);
   len = slen;
   if (SvUTF8(index)) {
      len = -len;
   }
   SHARED_EDIT;
   exists = hv_exists((HV*) sobj, key, len);
}
SHARED_RELEASE;
ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

void
FIRSTKEY(SV *obj)

CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
   I32 utf8 = HeKUTF8(entry);
   key = hv_iterkey(entry,&len);
   CALLER_CONTEXT;
   ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
   CALLER_CONTEXT;
   ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */
void
NEXTKEY(SV *obj, SV *oldkey)

CODE:
  dTHXc;
  SV *sobj = SHAREDV_FROM_OBJ(obj);
  char* key = NULL;
  I32 len = 0;
  HE* entry;

  PERL_UNUSED_VAR(oldkey);

  ENTER_LOCK;
  SHARED_CONTEXT;
  entry = hv_iternext((HV*) sobj);
  if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
  } else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
  }
  LEAVE_LOCK;
  /* XSRETURN(1); - implied */

MODULE = threads::shared    PACKAGE = threads::shared

PROTOTYPES: ENABLE

void
_id(SV *myref)
  PROTOTYPE: \[$@%]
  PREINIT:
    SV *ssv;
  CODE:
    myref = SvRV(myref);
    if (SvMAGICAL(myref))
      mg_get(myref);
    if (SvROK(myref))
      myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
      XSRETURN_UNDEF;
    ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
    /* XSRETURN(1); - implied */
void
_refcnt(SV *myref)
PROTOTYPE: ![@$%]

PREINIT:
    SV *ssv;

CODE:
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv) {
        if (ckWARN(WARN_THREADS)) {
            Perl_warner(aTHX_ packWARN(WARN_THREADS),
                        "%" SVf " is not shared", ST(0));
        }
        XSRETURN_UNDEF;
    }
    ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
    /* XSRETURN(1); - implied */

void
share(SV *myref)
PROTOTYPE: ![@$%] ![@$%]

CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    Perl_sharedsv_share(aTHX_ myref);
    ST(0) = sv_2mortal(newRV_inc(myref));
    /* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)
PROTOTYPE: ![@$%] ![@$%]

PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;

CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ref_cond);
if (! ssv)
    Perl_croak(aTHX_"cond_wait can only be used on shared values");
ul = S_get_userlock(aTHX_ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (!SvROK(ref_lock))
        Perl_croak(aTHX_"cond_wait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ref_lock);
    if (! ssv)
        Perl_croak(aTHX_"cond_wait lock must be a shared value");
    ul = S_get_userlock(aTHX_ssv, 1);
}
if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
u
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: |$@%|$[$@%] 
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
user_lock *ul;

CODE:
if (! SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (! SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
u1->lock.owner = aTHX;
u1->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL
void cond_signal(SV *myref)
PROTOTYPE: @[$@%]
PREINIT:
SV *ssv;
user_lock *ul;
CODE:
if (!SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (!ssv)
    Perl_croak(aTHX_ "cond_signal can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_signal() called on unlocked variable");
}
COND_SIGNAL(&ul->user_cond);

void cond_broadcast(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
SV *ssv;
user_lock *ul;
CODE:
if (!SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (!ssv)
    Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_broadcast() called on unlocked variable");
}
COND_BROADCAST(&ul->user_cond);

void bless(SV* myref, ...)

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 37953
OPEN SOURCE USED IN FIELD NETWORK DIRECTOR FOR VIRTUAL MACHINE INSTALLATION 4.7.1

PROTOTYPE: $;$

PREINIT:

HV* stash;
SV *ssv;

code:

if (items == 1) {  
  stash = CopSTASH(PL_curcop);
} else {
  SV* classname = ST(1);
  STRLEN len;
  char *ptr;

  if (classname &&
      ! SvGMAGICAL(classname) &&
      ! SvAMAGIC(classname) &&
      SvROK(classname))
    {
      Perl_croak(aTHX_ "Attempt to bless into a reference");
    }
  ptr = SvPV(classname, len);
  if (ckWARN(WARN_MISC) && len == 0) {
    Perl_warner(aTHX_ packWARN(WARN_MISC),
      "Explicit blessing to " (assuming package main"));
  }
  stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (ssv) {
  dTHXc;
  ENTER_LOCK;
  SHARED_CONTEXT;
  {
    SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
    (void)sv_bless(ssv, (HV*)fake_stash);
  }
  CALLER_CONTEXT;
  LEAVE_LOCK;
}
/* XSRETURN(1); - implied */

#endif /* USE_ITHREADS */

BOOT:

{
  #ifdef USE_ITHREADS

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 37854
Perl_sharedsv_init(aTHX);
#endif /* USE_ITHREADS */
}

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-
  UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/shared.xs
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Scalar::Util: 0
  Test: 0
  Test::More: 0
  XSLoader: 0
  strict: 0
  threads: 1.73
  warnings: 0
version: 1.43

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-
  UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/META.yml
1.1666 perl-dbi 1.627-4.el7

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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/*

ppport.h -- Perl/Pollution/Portability Version 3.13

Automatically created by Devel::PPPort running under perl 5.008008.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

.SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.13

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version  show version
--patch=file  write one patch file with changes
--copy=suffix  write changed copies with suffix
--diff=program  use diff program and options

--compat-version=version  provide compatibility with Perl version
--cplusplus  accept C++ comments

--quiet  don't output anything except fatal errors
--nodiag  don't show diagnostics
--nohints  don't show hints
--nochanges  don't suggest changes
--nofilter  don't filter input files

--strip  strip all script and doc functionality from ppport.h

--list-provided  list provided API
--list-unsupported  list unsupported API
--api-info=name  show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not
automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.
Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided
to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`.

These functions or variables will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_signals</td>
<td><code>NEED_PL_signals</code></td>
<td><code>NEED_PL_signals_GLOBAL</code></td>
</tr>
<tr>
<td>eval_pv()</td>
<td><code>NEED_eval_pv</code></td>
<td><code>NEED_eval_pv_GLOBAL</code></td>
</tr>
<tr>
<td>grok_bin()</td>
<td><code>NEED_grok_bin</code></td>
<td><code>NEED_grok_bin_GLOBAL</code></td>
</tr>
<tr>
<td>grok_hex()</td>
<td><code>NEED_grok_hex</code></td>
<td><code>NEED_grok_hex_GLOBAL</code></td>
</tr>
<tr>
<td>grok_number()</td>
<td><code>NEED_grok_number</code></td>
<td><code>NEED_grok_number_GLOBAL</code></td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td><code>NEED_grok_numeric_radix</code></td>
<td><code>NEED_grok_numeric_radix_GLOBAL</code></td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you’re aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.
Please include the following information:

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

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Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;
my $VERSION = 3.13;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '\[ \t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*';
my $cce = '\*/';
my $rcce = quotemeta $cce;
my $rccs = quotemeta $ccs;
my $rcces = quotemeta $cces;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "$0 $VERSION\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }; 
    if ($@) {
        die "Invalid version number format: '" . $opt{'compat-version'} . "'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|\[^|\]*\|\[^|\]*\|\w*$/ 
    ? ( $1 => { ($2                  ? ( base     => $2 ) : ()),
               ($3                  ? ( todo     => $3 ) : ()),
               (index($4, 'v') >= 0 ? ( varargs => 1  ) : ()),
               (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
               (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ())
        ) } qw(
    AvFILL|p5.004050||p
    AvFILL||
    CLASS|||n
    CX_CURPAD_SAVE|||
    CX_CURPAD_SV|||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p
    CopSTASH|5.006000||p
    CopyD|5.009002||p
    Copy|||
    CvPADLIST|||
    CvSTASH|||
    CvWEAKOUTSIDE|||
    DEFSV|5.004050||p
    END_EXTERN_C|5.005000||p
    ENTER|||
    ERRSV|5.004050||p

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Move
NOOP
NUM2PTR
NVTYPE
NVef
NVrf
NVOgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bmi
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_backref
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env[5.007002]|p
PERL_MAGIC_ext[5.007002]|p
PERL_MAGIC_fm[5.007002]|p
PERL_MAGIC_glob[5.009005]|p
PERL_MAGIC_isaelem[5.007002]|p
PERL_MAGIC_isa[5.007002]|p
PERL_MAGIC_mutex[5.009005]|p
PERL_MAGIC_nkeys[5.007002]|p
PERL_MAGIC_overload_elem[5.007002]|p
PERL_MAGIC_overload_table[5.007002]|p
PERL_MAGIC_overload[5.007002]|p
PERL_MAGIC_pos[5.007002]|p
PERL_MAGIC_qr[5.007002]|p
PERL_MAGIC_regdata[5.007002]|p
PERL_MAGIC_regdatum[5.007002]|p
PERL_MAGIC_regex_global[5.007002]|p
PERL_MAGIC_shared_global[5.007003]|p
PERL_MAGIC_shared[5.007003]|p
PERL_MAGIC_sigelem[5.007002]|p
PERL_MAGIC_sig[5.007002]|p
PERL_MAGIC_substr[5.007002]|p
PERL_MAGIC_sv[5.007002]|p
PERL_MAGIC_taint[5.007002]|p
PERL_MAGIC_tiedelem[5.007002]|p
PERL_MAGIC_tiedscalar[5.007002]|p
PERL_MAGIC_tied[5.007002]|p
PERL_MAGIC_utf8[5.008001]|p
PERL_MAGIC_uvar_elem[5.007003]|p
PERL_MAGIC_uvar[5.007002]|p
PERL_MAGIC_vec[5.007002]|p
PERL_MAGIC_vstring[5.008001]|p
PERL_QUAD_MAX[5.004000]|p
PERL_QUAD_MIN[5.004000]|p
PERL_REVISION[5.006000]|p
PERL_SCAN_ALLOW_UNDERSCORES[5.007003]|p
PERL_SCAN_DISALLOW_PREFIX[5.007003]|p
PERL_SCAN_GREATER_THAN_UV_MAX[5.007003]|p
PERL_SCAN_SILENT_ILLDIGIT[5.008001]|p
PERL_SHORT_MAX[5.004000]|p
PERL_SHORT_MIN[5.004000]|p
PERL_SIGNALS_UNSafe_FLAG[5.008001]|p
PERL_SUBVERSION[5.006000]|p
PERL_UCHAR_MAX[5.004000]|p
PERL_UCHAR_MIN[5.004000]|p
PERL_UINT_MAX[5.004000]|p
PERL_UINT_MIN[5.004000]|p
PERL_ULONG_MAX[5.004000]|p
PERL_ULONG_MIN[5.004000]|p
PL_sv_yes|5.004050||p
PL_tainted|5.004050||p
PL_tainting|5.004050||p
POP_MULTICALL|5.009005
POPi||n
POPl||n
POPn||n
POPPbyte||5.007001||n
POPPx||5.005030||n
POPP||n
POPs||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PUSH_MULTICALL|5.009005
PUSHi||
PUSHmortal|5.009002||p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000||p
PUTBACK||
PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof|5.007003|
PerlIO_error|5.007003|
PerlIO_fileno|5.007003|
PerlIO_fill|5.007003|
PerlIO_flush|5.007003|
PerlIO_get_base|5.007003|
PerlIO_get_BASE|5.007003|
PerlIO_get_bufsiz|5.007003|
PerlIO_get_cnt|5.007003|
PerlIO_get_ptr|5.007003|
PerlIO_read|5.007003|
PerlIO_seek|5.007003|
PerlIO_set_cnt|5.007003|
PerlIO_set_ptrcnt|5.007003|
PerlIO_setlinebuf|5.007003|
PerlIO_stderr|5.007003|
PerlIO_stdin|5.007003|
PerlIO_stdout|5.007003|
PerlIO_tell|5.007003|
PerlIO_unread|5.007003|
PerlIO_write|5.007003|
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007002||p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force|||p
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xmldump_packsubs|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";

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$hint = [S1, [split /\s+/, S2]]
    if m{\^s*\$rccs\s+(Hint|Warning):\$+(w+:(?:\$s+\w+)*)\$s*\$};

if ($define) {
    if ($define->[1] =~ /^\$/) {
        $define->[1] = $_;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
            my @n = find_api($define->[1]);
            push @ [$depends{$define->[0]}], @n if @n
        }
        undef $define;
    }
} else {
    $define = [S1, $2] if m{\^s*define\s+(\w+)(?:\(\[^)]*\))\s+(.*)};

if ($function) {
    if (/^\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @ [$depends{$function->[0]}], @n if @n
        }
        undef $define;
    } else {
        $function->[1] .= $_;
    }
} else {
    $function = [S1, ""] if m{\^DPPP_\(my_(\w+)\)};
}

$replace     = S1 if m{\^s*$rccs\s+Replace:\$+(d+)\$s+$rccs\s*\$};
$replace{S2} = S1 if $replace and m{\^s*\#s*define\s+(\w+)(?:\(\[^)]*\))\$s+(\w+)};
$replace{S2} = S1 if m{\^s*\#s*define\s+(\w+)(?:\(\[^)]*\))\$s+(\w+).*$rccs\s+Replace\s+\$s+$rccs\s*\$};
$replace{S1} = S2 if m{\^s*$rccs\s+Replace \(\w+\) with \(\w+\)\$s+$rccs\s+Replace\s+\$s+$rccs\s*\$};

if (m{\^s*$rccs\s+(\w+):\$+(\w+):\$+(\w+):\$+(\w+)}{d}{$rccs\s+Replace\$s+$rccs\s*\$}) {
    push @ [$depends{$1}]); map { s/$s+//g; $_ } split /\/, $2;
}
$need{$1} = 1 if m{\^#if\s+defined\(\$w+\)(?:_GLOBAL)?\$};
for (values %depends) {
    my %s;
    @_ = [sort grep !%s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$Q$opt{'api-info'}$E";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: ", join(’,’ @%{depends{$f}}), "\n" if exists $depends{$f};
            print "\nHints: $f\n" if exists $hints{$f};
            print "\nwarnings: $f\n" if exists $warnings{$f};
            $info++;
        }
        print "\nWARNING:\nwarning: $f\n" if exists $warnings{$f};
        $info++;
    }
    print "\nNo portability information available.\n" unless $info;
    $count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.\n";
print "\n", exit 0;

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend' if exists $depends{$f};
        push @flags, 'hint' if exists $hints{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? ['join(’,’ @flags).'] : "";
        print "$f$flags\n";


my @files;
my @srcext = qw(.xs .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else {
                warn "$_ is not a file.
            }
        } else {
            my @new = grep { -f } glob $_
            or warn "$_ does not exist.
        }
        push @files, grep { !$seen{$_}++ } @new;
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
        if ($@) {
            @files = map { glob "*$_" } @srcext;
        }
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(^.*).xs$/ ? (“$1.c” => 1, “$1.cc” => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/ || !($srcext)$i;
        push @[ $out ? @out : @in ], $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):
        ", join "\n", @out);
    }
    @files = @in;
}
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {

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$file{uses_provided}[$func]++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
    $file{uses}[$func]++;
    my @deps = rec_depend($func);
    if (@(deps) {
        $file{uses_deps}[$func] = \/@deps;
        for (@(deps) {
            $file{uses}[$_ ] = 0 unless exists $file{uses}[$_ ];
        }
    }
    for (@(func, @deps) {
        $file{needs}[$_ ] = 'static' if exists $need[$_ ];
    }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /$func\b/) {
        $file{uses_todo}[$func]++;
    }
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need[$2]) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}[$2]++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}
$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for ($need (keys %{$global{needs}})) {
    if (/@ {$global{needs}[$need]} > 1) {
        my @targets = @{$global{needs}[$need]};
        my @t = grep $files[$_ ]{needed_global}[$need], @targets;
        @targets = @t if @t;
        @t = grep /xs$/i, @targets;
        @targets = @t if @t;
my $target = shift @targets;
$files{ $target }{ needs }{ $need } = 'global';
for (@( $global{ needs }{ $need } )) {
    $files{ $_ }{ needs }{ $need } = 'extern' if $_. ne $target;
}
}
}
}
}
for $filename (@files) {
    exists $files{ $filename } or next;

    info("=== Analyzing $filename ===");

    my %file = %{ $files{ $filename } };
    my $func;
    my $c = $file{ code };
    my $warnings = 0;

    for $func (sort keys %{ $file{ uses_Perl } } ) {
        if ( $API{ $func }{ varargs } ) {
            unless ( $API{ $func }{ nothxarg } ) {
                my $changes = ($c =~ s{ \b(Perl_$func\s*\(\s*[^\s(]*\))|(^aTHX_\?)(\^\s*\))\s*}{'atTHX\1' . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
                if ( $changes ) {
                    warning(" Doesn't pass interpreter argument aTHX to Perl_$func ");
                    $file{ changes } += $changes;
                }
            }
            else {
                warning(" Uses Perl_$func instead of $func ");
                $file{ changes } += ( $c =~ s{ \bPerl_$func\(\s*[^\s(]*\))|(^aTHX_\?)(\^\s*\))\s*}{'$func$1\1' \2 }g);
                $file{ changes } += ( $c =~ s{ Perl_$func\(\s*[^\s(]*\))|(^aTHX_\?)(\^\s*\))\s*}{'$func$1\1' \2 }g);
            }
        }
    }
    for $func (sort keys %{ $file{ uses_replace } } ) {
        warning(" Uses $func instead of $replace{ $func } ");
        $file{ changes } += ( $c =~ s{ Perl_$func|($\s*aTHX_.*)?\s*}{'$func$1\1|\2'} \2 )g);
    }
    for $func (sort keys %{ $file{ uses_provided } } ) {
        if ( $file{ uses }{ $func } ) {
            if ( exists $file{ uses_deps }{ $func } ) {
                diag(" Uses $func, which depends on ", join( ', ', @{$file{ uses_deps }{ $func } } ));
            }
            else {
                diag(" Uses $func ");
            }
        }
    }
unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport'\n";
        $warnings++;
    }

    for $func (sort keys %{$file{needed_static}}) {
        my $message = ";
        if (not exists $file{uses}{$func}) {
            $message = "No need to define NEED_$func if $func is never used";
        }
        elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
            $message = "No need to define NEED_$func when already needed globally";
        }
        if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
        }
    }

    for $func (sort keys %{$file{needed_global}}) {
        my $message = ";
        if (not exists $global{uses}{$func}) {
            $message = "No need to define NEED_$func_GLOBAL if $func is never used";
        }
        elsif (exists $file{needs}{$func}) {
            if ($file{needs}{$func} eq 'extern') {
                $message = "No need to define NEED_$func_GLOBAL when already needed globally";
            }
            elsif ($file{needs}{$func} eq 'static') {
                $message = "No need to define NEED_$func_GLOBAL when only used in this file";
            }
        }
        if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
        }
    }

    $file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : '';
        unless (exists $file{needed_Type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{ $global{needs}{$func} }] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include \$ppport\");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+)+/\$pp/m) || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m) || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m) || ($c =~ s/^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \$ppport\");
        $file{changes} += ($c =~ s/^\$HS*#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $ccom[$ix] = "// $ccom[$ix];
    }
}

    # put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $ccom[$ix] = "// $ccom[$ix];
    }
}
```perl
$c++;
$file{changes} += $c =~ s/$rces$ix$rcce/$cces$com[$ix] $cce/;
}
else {
$c =~ s/$rces$ix$rcce/$com[$ix]/;
}
}
if ($cppc) {
  my $s = $cppc != 1 ? 's' : ';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");
if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, "$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
    }
```
mydiff($*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes: ");
        mydiff($*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? "" : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq ""
}

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;  
    my $diff;

    if (exists $opt{diff}) { 
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
$diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  return;
}

print F $diff;
}

sub run_diff
{
  my($prog, $file, $str) = @_; 
  my $tmp = 'dppptemp'; 
  my $suf = 'aaa'; 
  my $diff = ";
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
      while (<F>) {
        s/$tmp/$file.patched/;
        $diff .= $_; 
      }
      close F;
      unlink $tmp;
      return $diff;
    }

    unlink $tmp;
  } 
  else {
    error("Cannot open '$tmp' for writing: $!");
  }

  return undef;
}

sub rec_depend
{
  my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
my $ver = shift;
if ($ver =~ /^\d+(\d+)(\d+)/) {
    return ($1, $2, $3);
}
elif ($ver !~ ^\d+\/[\d_]+$/) {
    die "cannot parse version '$ver'
;
}

my($ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+(\d+)(\d+)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 & $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'
;
    }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+(\d+)(\d+)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 & $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'
;
    }
}

return ($r, $v, $s);
}
$s /= 10;

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "-%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{ $func } && !$given_warnings{ $func }++) {
  my $warn = $warnings{ $func };
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print " --- hint for $func ---\n", $hint;
} $rv;

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^\("\s*\)\s*=*$/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/^(?=[A-Z])<(\[^>]+)>/$M{$1}$2$M{$1}/g;
    $usage =~ s/\s+$//;
    $usage =~ s/\s+/\s+$/g;
    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^\("\s*\)\s*=*$/ms;
    $copy =~ s/^(?=$S+)//gms;
    $self =~ s/$HS+Do NOT edit.*?($=?\^)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }; 
    "$@ and die "Cannot require Devel::PPPort, please install.\n"
    if (!$Devel::PPPort::VERSION < $VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
print <<<END;
Sorry, but this is a stripped version of $0.

END
directory:
- t
- inc
requires:
Carp: 0
Config: 0
DynaLoader: 0
Exporter: 0
ExtUtils::MakeMaker: 0
Test::More: 0.82
strict: 0
version: 1.9725

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 SYNOPSIS

use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
clock_gettime clock_getres clock_nanosleep clock
stat );

usleep ($microseconds);
nanosleep ($nanoseconds);

ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [$seconds, $microseconds]);
$elapsed = tv_interval ( $t0, [gettimeofday]);
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep );

$now_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);
use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval );
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
                   ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);

clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time()*1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();

use Time::HiRes qw( stat );

my @stat = stat("file");
my @stat = stat(FH);

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the
C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and
C<setitimer>/C<getitimer> system calls, in other words, high
resolution time and timers. See the L</EXAMPLES> section below and the
test scripts for usage; see your system documentation for the
description of the underlying C<nanosleep> or C<usleep>, C<ualarm>,
C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don't
get C<gettimeofday()> or the one-argument form of C<tv_interval()>.
If your system lacks all of C<nanosleep>(), C<usleep>(),
C<select>(), and C<poll>, you don't get C<Time::HiRes::usleep()>,
C<Time::HiRes::nanosleep()>, or C<Time::HiRes::sleep()>.
If your system lacks both C<ualarm()> and C<setitimer()> you don't get
C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm()>.

If you try to import an unimplemented function in the C<use> statement
it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead
of C<usleep>(), you can mix subsecond sleeping with signals since
C<nanosleep()> does not use signals. This, however, is not portable,
and you should first check for the truth value of
C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and
then carefully read your C<nanosleep()> C API documentation for any
peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping with signals, give some thought to whether Perl is the tool you should be using for work requiring nanosecond accuracies.

Remember that unless you are working on a I<hard realtime> system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between I<wallclock time> and process time (in UNIX-like systems the sum of I<user> and I<system> times). Any attempt to sleep for X seconds will most probably end up sleeping B<more> than that, but don't be surprised if you end up sleeping slightly B<less>.

The following functions can be imported from this module. No functions are exported by default.

=over 4

=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).

=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept. Can sleep for more than one second, unlike the C<usleep> system call. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::usleep()>, C<Time::HiRes::sleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.
Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef> if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )

Returns the floating seconds between the two times, which should have been returned by C<gettimeofday()>. If the second argument is omitted, then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be imported, resulting in a nice drop-in replacement for the C<time> provided with core Perl; see the L</EXAMPLES> below.

B<NOTE 1>: This higher resolution timer can return values either less or more than the core C<time()>, depending on whether your platform rounds the higher resolution timer values up, down, or to the nearest second to get the core C<time()>, but naturally the difference should be never more than half a second. See also L</clock_getres>, if available in your system.

B<NOTE 2>: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when the C<time() > seconds since epoch rolled over to 1_000_000_000, the default floating point format of Perl and the seconds since epoch have conspired to produce an apparent bug: if you print the value of C<Time::HiRes::time()> you seem to be getting only five decimals, not six as promised (microseconds). Not to worry, the microseconds are there (assuming your platform supports such granularity in the first place). What is going on is that the default floating point format of Perl only outputs 15 digits. In this case that means ten digits before the decimal separator and five after. To see the microseconds you can use either C<printf>/C<sprintf> with C<"%.6f">, or the C<gettimeofday()> function in list context, which will give you the seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )
Sleeps for the specified amount of seconds. Returns the number of seconds actually slept (a floating point value). This function can be imported, resulting in a nice drop-in replacement for the `<sleep>` provided with perl, see the L</EXAMPLES> below.

Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The `<SIGALRM>` signal is sent after the specified number of seconds. Implemented using `<setitimer()>` if available, `<ualarm()>` if not. The `<interval_floating_seconds>` argument is optional and will be zero if unspecified, resulting in `<alarm()>`-like behaviour. This function can be imported, resulting in a nice drop-in replacement for the `<alarm>` provided with perl, see the L</EXAMPLES> below.

Returns the remaining time in the alarm in seconds, or `<undef>` if an error occurred.

B<NOTE 1>: With some combinations of operating systems and Perl releases `<SIGALRM>` restarts `<select()>`, instead of interrupting it. This means that an `<alarm()>` followed by a `<select()>` may together take the sum of the times specified for the `<alarm()>` and the `<select()>`, not just the time of the `<alarm()>`.

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives, and more signals may keep arriving at certain intervals. To disable an "timer", use `<floating_seconds>` of zero. If the `<interval_floating_seconds>` is set to zero (or unspecified), the timer is disabled B<after> the next delivered signal.

Use of interval timers may interfere with `<alarm()>`, `<sleep()>`, and `<usleep()>`. In standard-speak the "interaction is unspecified", which means that I<anything> may happen: it may work, it may not.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the `$which` can be `<ITIMER_REAL>`, `<ITIMER_VIRTUAL>`, `<ITIMER_PROF>`, or `<ITIMER_REALPROF>`. Note that which ones are available depends: true UNIX platforms usually have the first three, but only Solaris seems to
have `ITIMER_REALPROF` (which is used to profile multithreaded programs).

Win32 unfortunately does not have interval timers.

`ITIMER_REAL` results in `alarm()`-like behavior. Time is counted in `real time`; that is, wallclock time. `SIGALRM` is delivered when the timer expires.

`ITIMER_VIRTUAL` counts time in (process) `virtual time`; that is, only when the process is running. In multiprocessor/user/CPU systems this may be more or less than real or wallclock time. (This time is also known as the `user time`). `SIGVTALRM` is delivered when the timer expires.

`ITIMER_PROF` counts time when either the process virtual time or when the operating system is running on behalf of the process (such as I/O). (This time is also known as the `system time`). (The sum of user time and system time is known as the `CPU time`). `SIGPROF` is delivered when the timer expires. `SIGPROF` can interrupt system calls.

The semantics of interval timers for multithreaded programs are system-specific, and some systems may support additional interval timers. For example, it is unspecified which thread gets the signals. See your `setitimer()` documentation.

```perl
=item getitimer ( $which )
```

Return the remaining time in the interval timer specified by `$which`.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned.
The interval is always what you put in using `setitimer()`.

```perl
=item clock_gettime ( $which )
```

Return as seconds the current value of the POSIX high resolution timer specified by `$which`. All implementations that support POSIX high resolution timers are supposed to support at least the `$which` value of `CLOCK_REALTIME`, which is supposed to return results close to the results of `gettimeofday`, or the number of seconds since 00:00:00:00 January 1, 1970 Greenwich Mean Time (GMT). Do not assume that `CLOCK_REALTIME` is zero, it might be one, or something else. Another potentially useful (but not available everywhere) value is `CLOCK_MONOTONIC`, which guarantees a monotonically increasing time value (unlike `time()` or `gettimeofday()`, which can be adjusted). See your system documentation for other possibly supported values.

```perl
=item clock_getres ( $which )
```
Return as seconds the resolution of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, see L</clock_gettime>.

=item clock_nanosleep ( $which, $nanoseconds, $flags = 0)

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept. The $which is the "clock id", as with clock_gettime() and clock_getres(). The flags default to zero but C<TIMER_ABSTIME> can specified (must be exported explicitly) which means that C<$nanoseconds> is not a time interval (as is the default) but instead an absolute time. Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::nanosleep()>.

Do not expect clock_nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item clock()

Return as seconds the I<process time> (user + system time) spent by the process since the first call to clock() (the definition is B<not> "since the start of the process", though if you are lucky these times may be quite close to each other, depending on the system). What this means is that you probably need to store the result of your first call to clock(), and subtract that value from the following results of clock().

The time returned also includes the process times of the terminated child processes for which wait() has been executed. This value is somewhat like the second value returned by the times() of core Perl, but not necessarily identical. Note that due to backward compatibility limitations the returned value may wrap around at about 2147 seconds or at about 36 minutes.

=item stat

=item stat FH

=item stat EXPR

As L<perlfunc/stat> but with the access/modify/change file timestamps in subsecond resolution, if the operating system and the filesystem both support such timestamps. To override the standard stat():

use Time::HiRes qw(stat);
Test for the value of &Time::HiRes::d_hires_stat to find out whether the operating system supports subsecond file timestamps; a value larger than zero means yes. There are unfortunately no easy ways to find out whether the filesystem supports such timestamps. UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp granularity is 2 seconds).

A zero return value of &Time::HiRes::d_hires_stat means that Time::HiRes::stat is a no-op passthrough for CORE::stat(), and therefore the timestamps will stay integers. The same thing will happen if the filesystem does not do subsecond timestamps, even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond resolution. Also note that the modify/access timestamps might have different resolutions, and that they need not be synchronized, e.g. if the operations are

```perl
write
  stat # t1
read
  stat # t2
```

the access time stamp from t2 need not be greater-than the modify time stamp from t1: it may be equal or less.

=back
=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2_500_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$to = [gettimeofday];
# do bunch of stuff here
$t1 = [gettimeofday];
# do more stuff here
$tv0_t1 = tv_interval $t0, $t1;

$elapsed = tv_interval ($t0, [gettimeofday]);
$elapsed = tv_interval ($t0);# equivalent code

#
# replacements for time, alarm and sleep that know about
# floating seconds
#
use Time::HiRes;
$now_fractions = Time::HiRes::time;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);

use Time::HiRes qw ( time alarm sleep );
$now_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time

use Time::HiRes qw ( setitimer ITIMER_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" }; setitimer(ITIMER_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock_gettime clock_getres CLOCK_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock_gettime(CLOCK_REALTIME);
# But how accurate we can be, really?
my $reso = clock_gettime(CLOCK_REALTIME);

use Time::HiRes qw( clock_nanosleep TIMER_ABSTIME );
clock_nanosleep(CLOCK_REALTIME, 1e6);
clock_nanosleep(CLOCK_REALTIME, 2e9, TIMER_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my ($atime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];
In addition to the perl API described above, a C API is available for extension writers. The following C functions are available in the modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time::NVtime</td>
<td>double (*)(())</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_ UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>) but with different representations. The names C<NVtime> and C<U2time> were selected mainly because they are operating system independent. (C<gettimeofday> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<NVtime> from C:

```c
double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp) croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double (*)(()), SvIV(*svp));
printf("The current time is: %f\n", (*myNVtime)());
```

=heading1 DIAGNOSTICS

=heading2 useconds or interval more than ...

In ualarm() you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and setitimer() is not available in your system to emulate that case.

=heading2 negative time not invented yet

You tried to use a negative time argument.

=heading2 internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

=heading2 useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.
unimplemented in this platform

Some calls simply aren't available, real or emulated, on every platform.

CAVEATS

Notice that the core `C<time()>` maybe rounding rather than truncating. What this means is that the core `C<time()>` may be reporting the time as one second later than `C<gettimeofday()>` and `C<Time::HiRes::time()>`.

Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the `Time::HiRes::time()` may temporarily drift off from the system clock (and the original time()) by up to 0.5 seconds. `Time::HiRes` will notice this eventually and recalibrate. Note that since `Time::HiRes` 1.77 the `clock_gettime(CLOCK_MONOTONIC)` might help in this (in case your system supports `CLOCK_MONOTONIC`).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

SEE ALSO

Perl modules `L<BSD::Resource>`, `L<Time::TAI64>`.`

Your system documentation for `C<clock>`, `C<clock_gettime>`, `C<clock_getres>`, `C<clock_nanosleep>`, `C<clock_settime>`, `C<getitimer>`, `C<gettimeofday>`, `C<setitimer>`, `C<sleep>`, `C<stat>`, `C<ualarm>`.`

AUTHORS

D. Wegscheid <wegscd@whirlpool.com>
R. Schertler <roderick@argon.org>
J. Hietaniemi <jhi@iki.fi>
G. Aas <gisle@aas.no>

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*/opt/cola/permits/1148334669_1619431503.8/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-qqqzkPDM/perl-Time-HiRes.spec

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Time::HiRes module: High resolution time, sleep, and alarm.

Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers to implement time, sleep, and alarm that know about non-integral seconds.

Note: the tests of this module are by definition time sensitive: under heavy loads the tests may fail. Reasonable relaxed criteria are being used for the tests but sometimes you may still see transient failures. Rerun the tests (make test) a couple of times, preferably with less load on the testing machine.

Also, older versions of Perl do not support '-nolinenumbers' on the XSUBPP command, however, 5.004_03 requires it (on my box, anyway) since the #line generating code in XSUBPP appears to have problems with #ifdef'd .xs code. If xsubpp complains about usage when you do a make, look at the top of the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a newer version of Perl.

POD documentation is embedded.


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qqqzkPDm/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-ISvFGEnc/Time-HiRes-1.9725/HiRes.xs

1.1674 linux-kernel 3.10.0

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
Fernando Guzman Lugo
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
Antonio Luna
Hari Nagalla
Nishanth Menon
Ameya Palande
Vijay Pasam
Gilbert Pitney
Omar Ramirez Luna
Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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QLogic Linux FC-FCoE Driver

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes
Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@earhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <shvogt@arcor.de>
for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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   b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs
needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need
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1.1676 python-configobj 4.7.2-7.el7

1.1677 python-augeas 0.5.0-2.el7

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org
1.1682 perl-text-parsewords 3.29-4.el7

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1.1691 txw2 2.3.1

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1.1693 commons-codec 1.4-redhat-2

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1.1694 fontconfig 2.13.0-4.3.el7

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1.1704 cyrus-sasl 2.1.26 23.el7

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    Gnomovision version 69, Copyright (C) year name of author
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1.1709 libogg 1.3.0-7.el7

1.1709.1 Available under license:

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1.1710 perl-storable 2.45-3.el7
1.1710.1 Available under license:

No license file was found, but licenses were detected in source scan.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1156605148_1619225103.19/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
  bWSQKJWx/Storable-2.45.tar.gz-cosi-expand-archive-291DfViF/Storable-2.45/t/compat/Test/Builder.pm

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.012003.

Do NOT edit this file directly! -- Edit PPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------------------------------

<table>
<thead>
<tr>
<th>NAME</th>
</tr>
</thead>
</table>

ppport.h - Perl/Pollution/Portability version 3.19

<table>
<thead>
<tr>
<th>SYNOPSIS</th>
</tr>
</thead>
</table>

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

|--help | show short help

|--version | show version

|--patch=file | write one patch file with changes

|--copy=suffix | write changed copies with suffix

|--diff=program | use diff program and options

|--compat-version=version | provide compatibility with Perl version

|--cplusplus | accept C++ comments

|--quiet | don't output anything except fatal errors

|--nodiag | don't show diagnostics

|--nohints | don't show hints

|--nochanges | don't suggest changes

|--nofilter | don't filter input files

|--strip | strip all script and doc functionality from ppport.h

|--list-provided | list provided API

|--list-unsupported | list unsupported API

|--api-info=name | show Perl API portability information

<table>
<thead>
<tr>
<th>COMPATIBILITY</th>
</tr>
</thead>
</table>

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.
=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C|--patch| or C|--copy| are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether your module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source
For a global function or variable (used in multiple source files), use:

```c
#define NEED_function
#define NEED_variable
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinct()</td>
<td>NEED_newRV_noinct</td>
<td>NEED_newRV_noinct_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpufv_mg()</td>
<td>NEED_sv_catpufv_mg</td>
<td>NEED_sv_catpufv_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpufv_mg_nocontext()</td>
<td>NEED_sv_catpufv_mg_nocontext</td>
<td>NEED_sv_catpufv_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpufv_mg()</td>
<td>NEED_sv_setpufv_mg</td>
<td>NEED_sv_setpufv_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpufv_mg_nocontext()</td>
<td>NEED_sv_setpufv_mg_nocontext</td>
<td>NEED_sv_setpufv_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvnf()</td>
<td>NEED_vnewSVpvnf</td>
<td>NEED_vnewSVpvnf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=back

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses `C++` comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:
perl ppport.h --copy=new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C</_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[\w\.]\+$/; my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ \t]";

# horizontal whitespace

# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}'\n";
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $1 => {
($2
? ( base => $2 ) : ()),
($3
? ( todo => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 38381


(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
)
: die "invalid spec: $._" } qw(
AvFILLp5.004050||p
AvFILL||
CLASS|||n
CPERLscope5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD SV|||
CopFILEAV5.006000||p
CopFILEGV_set5.006000||p
CopFILEGV5.006000||p
CopFILESV5.006000||p
CopFILE_set5.006000||p
CopFILE5.006000||p
CopSTASHPV_set5.006000||p
CopSTASHPV5.006000||p
CopSTASH_eq5.006000||p
CopSTASH_set5.006000||p
CopSTASH5.006000||p
CopyD5.009002||p
Copy||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set5.011000||p
DEFSV5.004050||p
END_EXTERN_C5.005000||p
ENTER|||
ERRSV5.004050||p
EXTEND|||
EXTERN_C5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX5.007002||p
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yyparse||
yywarn||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", "."x(40-length($f)), " , format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s{(/ (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^\r\n]*| "[^"\\]*(?:\\\.[^"\\]*)*"| '\[^'\\]*(?:\\\.[^'\\]*)*\}'){}egsx;
    grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
    if ($hint) {
        my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
    }
}
if (m{^\s*\^\s(.*?)\s*$}) {
  for (@{[Hint->[1]]}) {
    $h->{$_} ||= '';  # suppress warning with older perls
    $h->{$_} .= "$1\n";
  }
} else { undef $hint }

$hint = [S1, [split /,?s+/, S2]]
  if m{@s*srccs+(Hint|Warning):\s+(w+|?s+\(w+\))\s*$};

if ($define) {
  if ($define->[1] =~ /^\$/) {
    $define->[1] = $_; 
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
  }

$define = [S1, S2] if m{@s*#s*define:\s+(//[^)])\s*(.*)};

if ($function) {
  if (/^\$/) {
    if (exists $API{$function->[0]} & & $function->[1] =~ /^DPPP_\$/) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
  }

$function = [S1, ""] if m{^DPPP_\(my_(\w+)\)};

$replace     = S1 if m{@s*srccs\s+Replace::\s+(\d+)\s+srccs\s*}$;
$replace{S2} = S1 if $replace and m{@s*#s*define:\s+(\w+)\(?:\([^)]\)\)?\s+(\w+)};
$replace{S2} = S1 if m{@s*#s*define:\s+(\w+)\(?:\([^)]\)\)?\s+(\w+).*srccs\s+Replace::\s+srccs};
$replace{S1} = S2 if m{@s*srccs\s+Replace (\w+) with (\w+)\s+srccs\s*}$;

if (m{^\s*srccs\s+(\w+\(\w+\)*\s*)\s+s+depends\s+on\s+(\w+\(\w+\)*\s*)\s+srccs\s*}$) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}
if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base.\n";
$info++;
}
if ($API{$f}{provided}) {
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo.\n";
print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\n$hints{$f}" if exists $hints{$f};
print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {

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next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
push @flags, 'warning' if exists $warnings{$f};
my $flags = @flags ? ['join(', ', @flags).'] : "
print "$flags
";
}
ex 0;

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn ""$_" is not a file\n" }
    } else {
      my @new = grep { -f } glob $_
      or warn ""$_" does not exist\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
  } else {
    eval {
      require File::Find;
      File::Find::find(sub {
        $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
      }, '.');
    }
  }
}
if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(.*)\xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;

for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;

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for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl_)?($match)b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
        }
        for ($func, @deps) {
            $file{needs}{$_} = 'static' if exists $need{$_};
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /\$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %$file{$_}) {
        push @$global{$_}[$func], $filename;
    }
}

$files{$filename} = %$file;

# Globally resolve NEED_’s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

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for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}[$func]) {
    if (exists $file{uses_deps}[$func]) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}[$func]}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ", even with '$ppport\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = " ";
  if (not exists $file{uses}[$func]) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  } if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = " ";
  if (not exists $global{uses}[$func]) {
    $message = "No need to define NEED_$func\GLOBAL if $func is never used";
  } elsif (exists $file{needs}[$func]) {
    if ($file{needs}[$func] eq 'extern') {
      $message = "No need to define NEED_$func\GLOBAL when already needed globally";
    } elsif ($file{needs}[$func] eq 'static') {
      $message = "No need to define NEED_$func\GLOBAL when only used in this file";
    }
  }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#SH*$define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#SH*$define$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#SH*$define$HS+NEED_\w+\+)$/Spp/m) || ($c =~ s/^(?=$HS*#SH*$include.*$ppport=E)/Spp/m) || ($c =~ s/^(?=$HS*#SH*$include.*XSUB.*\s*?)$/S1ppp/m) || ($c =~ s/^/$pp/);
    } else {
        if ($file{has_inc_ppport}) {
            diag("No need to include '$ppport'");
            $file{changes} += ($c =~ s/^$HS*?#SH*$include.*$Q$ppport\E.*?$LF//m);
        }
    }
}
# put back in our C comments
my $ix;
my $cppc = 0;
my $ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ''; 
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elseif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open $patch for writing: $!");
                }
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open $patch for writing: $!");
                }
            }
        }
    }


else {
    error("Cannot open '${opt{patch}}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff($PATCH, $filename, Sc);
} else {
    fallback:
    info("Suggested changes:");
    mydiff($STDOUT, $filename, Sc);
}
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close $PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<'HEADER' . $diff;
--- $file
+++ $file.patched

    }
if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    }

    unlink $tmp;
    }
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^(\d+)\.(\d+)\.(\d+)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\[\d+\]+$/) {
        die "cannot parse version '$ver\n"; 
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /(\d+)\.(\d\d)\.(\d\d\d)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver\n"; 
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;

}
my($r,$v,$s) = $ver =~ /\d+.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;
}

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";

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Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X \$0 --unstrip

__DATA__

Found in path(s):

No license file was found, but licenses were detected in source scan.

Storable 2.14
Copyright (c) 1995-2000, Raphael Manfredi
Copyright (c) 2001-2004, Larry Wall

This program is free software; you can redistribute it and/or modify it under the same terms as Perl 5 itself.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the Perl 5 License schemes for more details.

+=======================================================================
| Storable is distributed as a module, but is also part of the official  |
| Perl core distribution, as of perl 5.8.                                |
| Maintenance is now done by the perl5-porters. We thank Raphael        |
| Manfredi for providing us with this very useful module.               |
+=======================================================================

The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

    perl Makefile.PL [PERL_SRC=...where you put perl sources...]
    make
    make install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael.
Please don't e-mail Rafael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.
Thanks to (in chronological order):

Jarkko Hietaniemi <jhi@iki.fi>
Ulrich Pfeifer <pfeifer@charly.informatik.uni-dortmund.de>
Benjamin A. Holzman <bholzman@earthlink.net>
Andrew Ford <A.Ford@ford-mason.co.uk>
Gisle Aas <gisle@aas.no>
Jeff Gresham <gresham_jeffrey@jpmorgan.com>
Murray Nesbitt <murray@activestate.com>
Albert N. Micheev <Albert.N.Micheev@f80.n5049.z2.fidonet.org>
Marc Lehmann <pcg@opengroup.org>
Justin Banks <justinb@wamnet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped bring you this Storable release:

Abhijit Menon-Sen <ams@wiw.org>
Andreas J. Koenig <andreas.koenig@anima.de>
Archer Sully <archer@meer.net>
Craig A. Berry <craig.berry@psinetcs.com>
Dan Kogai <dankogai@dan.co.jp>
Doug MacEachern <dougm@covalent.net>
Gurusamy Sarathy <gsar@ActiveState.com>
H.Merijn Brand <h.m.brand@xs4all.nl>
Jarkko Hietaniemi <jhi@iki.fi>
Mark Bixby
Michael Stevens <michael@etla.org>
Mike Guy <mjtg@cam.ac.uk>
Nicholas Clark <nick@unfortu.net>
Peter J. Farley III <pjfarley@banet.net>
Peter Prymmer <pvhp@forte.com>
Philip Newton <pne@cpan.org>
Raphael Manfredi <Raphael_Manfredi@pobox.com>
Robin Barker <rmb1@cise.npl.co.uk>
Radu Greab <radu@netsoft.ro>
Tim Bunce <Tim.Bunce@pobox.com>
VMSperlers
Yitzchak Scott-Thoennes <sthoenna@efn.org>

If I've missed you out, please accept my apologies, and e-mail your
patch to perl5-porters@perl.org.

Found in path(s):
* /opt/cola/permits/1156605148_1619225103.19/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
  bWSQKJWx/Storable-2.45.tar.gz-cosi-expand-archive-291DfViF/Storable-2.45/README
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1156605148_1619225103.19/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
  bWSQKJWx/Storable-2.45.tar.gz-cosi-expand-archive-291DfViF/Storable-2.45/t/forgive.t
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.112621'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Storable
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: 2.45

Found in path(s):
* /opt/cola/permits/1156605148_1619225103.19/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
  bWSQKJWx/Storable-2.45.tar.gz-cosi-expand-archive-291DfViF/Storable-2.45/META.yml
No license file was found, but licenses were detected in source scan.
Test::Simple will start by printing number of tests run in the form “1..M” (so “1..5” means you’re going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0       all tests successful
255     test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title => 'Bad Taste',
                        Director => 'Peter Jackson',
                        Rating => 'R',
                        NumExplodingSheep => 1
                      });
o( defined($btaste) and ref $btaste eq 'Film',     'new() works'     );
o( $btaste->Title      eq 'Bad Taste',     'Title() get'     );
o( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
o( $btaste->Rating     eq 'R',             'Rating() get'    );
o( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get'   );
It will produce output like this:

1..5
  ok 1 - new() works
  ok 2 - Title() get
  ok 3 - Director() get
  not ok 4 - Rating() get
  #    Failed test (t/film.t at line 14)
  ok 5 - NumExplodingSheep() get
  # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

    0  SS$_NORMAL     all tests successful
    4  SS$_ABORT      something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.
SEE ALSO

over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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=back

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

Test::More is thread-safe for perl 5.8.0 and up.

=head1 BUGS and CAVEATS

=over 4

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrades

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

If you simply depend on Test::More, it's own dependencies will cause a Test::Harness upgrade.

=back

=head1 HISTORY
This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Unit> describes a very featureful unit testing interface.

L<Test::Inline> shows the idea of embedded testing.

L<SelfTest> is another approach to embedded testing.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, chromatic and the perl-qa gang.

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1.1715 spring-jdbc 4.1.5.RELEASE

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 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *<p>This package and related packages are discussed in Chapter 9 of
 *<a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
 *Development</a>
 *by Rod Johnson (Wrox, 2002).
 */

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jar/org/springframework/jdbc/package-info.java
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Abstraction for handling large binary fields and large text fields in specific databases, no matter if represented as simple types or Large OBjects. Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in [link OracleLobHandler]; most other databases should be able to work with the provided [link DefaultLobHandler].

Most databases/drivers should be able to work with [link DefaultLobHandler], which by default delegates to JDBC's direct accessor methods, avoiding the [code java.sql.Blob] and [code java.sql.Clob] API completely. [link DefaultLobHandler] can also be configured to access LOBs using [code PreparedStatement.setBlob/setClob] (e.g. for PostgreSQL), through setting the [link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.

Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn't accept large streams for PreparedStatement's corresponding setter methods. Therefore, you need to use [link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types of access. The Oracle 10g+ JDBC driver will work with [link DefaultLobHandler] as well, with some limitations in terms of LOB sizes depending on DBMS setup; as of Oracle 11g (or actually, using the 11g driver even against older databases), there should be no need to use [link OracleLobHandler] at all anymore.

Of course, you need to declare different field types for each database. In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, use a LobHandler for fields that might typically require LOBs on some database because of the field size (take Oracle's numbers as a guideline).

Summarizing the recommended options (for actual LOB fields):
* JDBC 4.0 driver (including Oracle 11g driver): Use [DefaultLobHandler], potentially with \{streamAsLob=true\} if your database driver requires that hint when populating a LOB field. Fall back to \{createTemporaryLob=true\} if you happen to run into LOB size limitations with your (Oracle) database setup.

* Oracle 10g driver: Use [DefaultLobHandler] with standard setup.

* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2, DefaultLobHandler should work with standard setup out of the box. Alternatively, consider using the proprietary \{OracleLobHandler\} (see below).

* Oracle 9i driver: Use [OracleLobHandler] with a connection-pool-specific \{NativeJdbcExtractor\}.

* PostgreSQL: Configure [DefaultLobHandler] with \{wrapAsLob=true\}, and use that LobHandler to access OID columns (but not BYTEA) in your database tables.

* For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): Simply use a plain [DefaultLobHandler].

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jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
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*/
/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

Found in path(s):
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreator.java

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
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 */
/**
 * Strategy interface for translating between { @link SQLException SQLExceptions}
 * and Spring's data access strategy-agnostic { @link DataAccessException}
 * hierarchy.
 * <p>Implementations can be generic (for example, using
 * { @link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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/jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlObjectMappingHandler.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/SqlValue.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
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*/
/**
   * Implement this interface when parameters need to be customized based
   * on the connection. We might need to do this to make use of proprietary
   * features, available only with a specific Connection type.
   *
   * @author Rod Johnson
   * @author Thomas Risberg
   * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
   * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
   */
/**
   * Create a Map of input parameters, keyed by name.
   * @param con JDBC connection. This is useful (and the purpose of this interface)
   * if we need to do something RDBMS-specific with a proprietary Connection
   * implementation class. This class conceals such proprietary details. However,
   * it is best to avoid using such proprietary RDBMS features if possible.
   * @throws SQLException if a SQLException is encountered setting
   * parameter values (that is, there's no need to catch SQLException)
   * @return Map of input parameters, keyed by name (never @code{null})
   */

Found in path(s):
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jar/org/springframework/jdbc/core/ParameterMapper.java
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 */
/**
* [{@link LobHandler}] implementation for Oracle databases. Uses proprietary API
* to create [{@code oracle.sql.BLOB}] and [{@code oracle.sql.CLOB}]
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*
* While most databases are able to work with [{@link DefaultLobHandler}],
* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
* Blob/Clob instances created via its own proprietary BLOB/CLOB API,
* and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
* this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
* (which still supports access to Oracle 9i databases).
*
* NOTE: As of Oracle 10.2, [{@link DefaultLobHandler}] should work equally
* well out of the box. On Oracle 11g, JDBC 4.0 based options such as
* [{@link DefaultLobHandler#setStreamAsLob}] and [{@link DefaultLobHandler#setCreateTemporaryLob}]
* are available as well, rendering this proprietary OracleLobHandler obsolete.
* Also, consider upgrading to a new driver even when accessing an older database.
* See the [{@link LobHandler}] interface javadoc for a summary of recommendations.
*
* Needs to work on a native JDBC Connection, to be able to cast it to
* [{@code oracle.jdbc.OracleConnection}]. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate [{@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}]
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#setCreateTemporaryLob} is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
* */

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----------------------------------------------------------------------------

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Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <snairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the
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parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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convey the exclusion of warranty; and each file should have at least
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If the program is interactive, make it output a short notice like this
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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You should also get your employer (if you work as a programmer) or your
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on
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http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
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AUTHOR
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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
Ottawa (ON) K1L 6X6


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Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
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Description: Coverage.py measures code coverage, typically during test execution. It uses
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library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository
and issue tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: `--fail-under`, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files
can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!
Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
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 * QUnit - A JavaScript Unit Testing Framework
 * http://docs.jquery.com/QUnit
 * Copyright (c) 2011 John Resig, Jörn Zaefferer
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 */

/*
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */

/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan “sprite”
 * Released under the MIT license.
 */

* More Info:
* http://ejohn.org/projects/javascript-diff-algorithm/

* Usage: QUnit.diff(expected, actual)

* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the  quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
*/

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 * jQuery Templates Plugin 1.0.0pre
 * http://github.com/jquery/jquery-tmpl
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java
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  jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java
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  jar/com/thoughtworks/xstream/io/xml/StaxReader.java
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  jar/com/thoughtworks/xstream/converters/ConversionException.java
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  jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java

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jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java

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jar/com/thoughtworks/xstream/io/ReaderWrapper.java

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  jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/security/AnyTypePermission.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java
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 * Created on 15. August 2009 by Joerg Schaible, copied from XmlFriendlyReplacer.
 */

Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java
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* Created on 11. August 2011 by Joerg Schaible, code from XppDom.
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/basic/URLConverter.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.16
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.16 Sources
Eclipse-SourceBundle: xstream;version=1.4.16
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-03-12T23:23:07Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java
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  jar/com/thoughtworks/xstream/core/util/Pool.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
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  jar/com/thoughtworks/xstream/converters/Converter.java
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  jar/com/thoughtworks/xstream/io/path/package.html
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/StreamException.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/MarshallingStrategy.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java
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 * Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java

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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/core/util/WeakCache.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/XStreamException.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/annotations/Annotations.java
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jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/StaxWriter.java
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Created on 14. August 2004 by Joe Walnes

A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
[@link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a SAX event flow from the XStream serialization of a list of list of Java objects.

As a custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link #parse(java.lang.String)} and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
[@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.

Configuration of this SAX parser is achieved through the standard
[@link #setProperty SAX property mechanism]. While specific setter methods require direct access to the parser instance, SAX properties support configuration settings to be propagated through a chain of
[@link org.xml.sax.XMLFilter filters] down to the underlying parser object.

This mechanism shall be used to configure the
[@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
[@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].

@author Laurent Bihanic

Sets the value of a property.

The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but to be unable to set its value.

XMLReaders are not required to recognize setting any specific property names, though a core set is provided with SAX2.

Some property values may be immutable or mutable only in specific contexts, such as before, during, or after a parse.
* This method is also the standard mechanism for setting
* extended handlers.</p>
* <p>
* <strong>Note</strong>: This implementation only supports two
* (proprietary) properties: [ @link #CONFIGURED_XSTREAM_PROPERTY]
* and [ @link #SOURCE_OBJECT_LIST_PROPERTY].</p>
* 
* @param name  the property name, which is a fully-qualified URI.
* @param value the requested value for the property.
* @throws SAXNotRecognizedException when the XMLReader does not
* recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes
* the property name but cannot set
* the requested value.
* @see #getProperty
*/
/**
* Parses an XML document from a system identifier (URI).
* <p>
* This method is a shortcut for the common case of reading a
* document from a system identifier. It is the exact
* equivalent of the following:</p>
* <blockquote>
* <pre>
*    parse(new InputSource(systemId));
*  </pre>
* </blockquote>
* <p>
* If the system identifier is a URL, it must be fully resolved
* by the application before it is passed to the parser.</p>
* <p>
* <strong>Note</strong>: As a custom SAX parser, this class
* ignores the <code>systemId</code> argument of this method
* and relies on the proprietary SAX property
* [ @link #SOURCE_OBJECT_LIST_PROPERTY]) to define the list of
* objects to serialize.</p>
* 
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
* another exception.
* @see #parse(org.xml.sax.InputSource)
*/

Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
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jar/com/thoughtworks/xstream/converters/ConverterLookup.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java
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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/core/TreeMarshaller.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java
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  jar/com/thoughtworks/xstream/InitializationException.java
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jar/com/thoughtworks/xstream/io/xml/DomWriter.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/XomReader.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/core/util/FastField.java

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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/collections/package.html
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-jar/com/thoughtworks/xstream/converters/extended/package.html

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  jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
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Found in path(s):
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/mapper/CachingMapper.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
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  jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
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  jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java
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  jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java
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  jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java
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  jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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  jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java
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  */opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/core/BaseException.java
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  jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java
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 * c.t.x.converters.reflection.SerializationMemberInvoker.
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
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  jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
  /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/basic/IntConverter.java

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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1.jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java
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  jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
  jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
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  jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java
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  jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
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jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java
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jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java
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jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
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* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/cola/permits/1149054639_1617080616.86/0/xstream-1-4-16-sources-1-
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
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1.1750 mapstruct 1.2.0.Final

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Alexandr Shalugin - https://github.com/shalugin
Andreas Gudian - https://github.com/agudian
Christian Schuster - https://github.com/chschu
Christophe Labouisse - https://github.com/ggttools
Ciaran Liedeman - https://github.com/cliedeman
Cornelius Dirmeier - https://github.com/cornzy
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Peter Larson - https://github.com/pjlarson
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G-N-U GmbH


Die meisten Softwarelizenzen sind daraufhin entworfen worden, Ihnen die Freiheit zu nehmen, die Software weiterzugeben und zu verändern. Das aber ist gerade bei größeren Projekten oft nicht praktikabel. Daher haben die Entwickler einer Softwareprogramm die GNU General Public License (GPL) entwickelt, um gleichzeitig den Anforderungen von Freeware und Freiheit gerecht zu werden. 

Die GNU General Public License (GPL) ist eine Lizenz, die eine Freewareprogramm für die Nachnutzung, die Veränderung und die Weitergabe von Softwareprogrammen vorbereitet. Sie ermöglicht es Ihnen, die Softwareprogramm auf Ihre individuellen Bedürfnisse abzustimmen und sie in Ihrer eigenen Umgebung zu nutzen. 

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Die Bezeichnung freie Software bezieht sich auf Freiheit der Nutzung, nicht auf den Preis. Unsere Allgemeinen öffentlichen Lizenzen sollen sicherstellen, dass Sie die Freiheit haben, Kopien freier Software zu verbreiten (und etwas für diesen Service zu berechnen, wenn Sie möchten), dass Sie die Software im Quelltext erhalten oder den Quelltext auf Wunsch bekommen können, dass Sie die Software ändern oder Teile davon in neuen freien Programmen verwenden dürfen, und dass Sie darüber informiert sind, dass Sie dies alles tun dürfen.

Diese Lizenz, die Kleine Allgemeine öffentliche Lizenz (Lesser General Public License), gilt für einige
besonders bezeichnete Software-Pakete typischerweise Programmbibliotheken von der Free Software Foundation und anderen Autoren, die beschließen, diese Lizenz zu verwenden. Auch Sie knnen sie verwenden; wir empfehlen aber, vorher gründlich daruber nachzudenken, ob diese Lizenz (LGPL) oder aber die gewhnliche Allgemeine ffentliche Lizenz (GPL) die bessere Strategie zur Anwendung im jeweiligen speziellen Fall ist. Dabei bieten Ihnen die untenstehenden Erluterungen eine Grundlage fr Ihre Entscheidung.

<para>Die Bezeichnung freie Software bezieht sich auf Freiheit der Nutzung, nicht auf den Preis. Unsere Allgemeinen ffentlichen Lizenzen sollen sicherstellen, dass Sie die Freiheit haben, Kopien freier Software zu verbreiten (und etwas fr diesen Service zu berechnen, wenn Sie mchten), dass Sie die Software im Quelltext erhalten oder den Quelltext auf Wunsch bekommen knnen, dass Sie die Software ndern oder Teile davon in neuen freien Programmen verwenden drfen, und dass Sie darber informiert sind, dass Sie dies alles tun drfen.</para>

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<para>Um Ihre Rechte zu schtzen, mssen wir Einschrnkungen machen, die es jedem, der die Software weiter gibt, verbieten, Ihnen diese Rechte zu verweigern oder Sie zum Verzicht auf diese Rechte aufzufordern. Aus diesen Einschrnkungen ergeben sich bestimmte Verantwortlichkeiten fr Sie, wenn Sie Kopien der Bibliothek verbreiten oder sie verndern.</para>

<para>Um Ihre Rechte zu schtzen, mssen Sie den Empfangern alle Rechte gewhren, die wir Ihnen eingerumt haben, wenn Sie kostenlos oder gegen Bezahlung Kopien der Bibliothek verbreiten. Sie mssen sicherstellen, dass auch die Empfnger den Quelltext erhalten bzw. erhalten knnen. Wenn Sie einen anderen Code mit der Bibliothek linken, mssen Sie den Empfngern die vollstndigen Objekt-Dateien zukommen lassen, so dass sie selbst diesen Code mit der Bibliothek neu linken knnen, auch nachdem sie Vernderungen an der Bibliothek vorgenommen und sie neu compiliert haben. Und Sie mssen ihnen diese Bedingungen zeigen, damit sie ihre Rechte kennen.</para>

<para>Schlielich und endlich stellen Software-Patente fr die Existenz jedes freien Programms eine stndige Bedrohung dar. Wir mchten sicherstellen, dass keine Firma den Benutzern eines freien Programms Einschrnkungen auferlegen kann, indem sie von einem Patentinhaber eine die freie Nutzung einschrnkende Lizenz erwirbt. Deshalb bestehen wir darauf, dass jegliche fr eine Version der Bibliothek erworbene Patentlizenz mit der in dieser Lizenz (also der LGPL) im einzelnen angegebenen Nutzungsfreiheit voll vereinbar sein muss.</para>

<para>Die meiste GNU-Software einschlielich einiger Bibliotheken fllt unter die gewhnliche Allgemeine ffentliche GNU-Lizenz (GNU-GPL). Die vorliegende Lizenz, also die GNU-LGPL, gilt fr gewisse nher bezeichnete Bibliotheken. Sie unterscheidet sich wesentlich von der gewhnlichen Allgemeinen ffentlichen Lizenz (GNU-GPL). Wir benutzen diese Lizenz fr gewisse Bibliotheken, um das Linken (d.h. die Verknupfung von Bibliotheken und anderen Programmenteilen zu einem lauffhigen Programm Anmerkung der bersetzer) von Programmen, die nicht frei sind, mit diesen Bibliotheken zu gestatten.</para>

<para>Wenn ein Programm mit einer Bibliothek gelinkt wurde, sei es nun statisch oder dynamisch, so ist die Kombination der beiden, rechtlich gesehen, ein kombiniertes Werk, also eine abgeleitete Version der Original-
Bibliothek. Die gewöhnliche GPL erlaubt ein solches Linken nur dann, wenn die ganze Kombination die Kriterien für freie Software erfüllt. Die LGPL erlaubt dagegen weniger strenge Kriterien für das Linken von irgendeiner anderen Software mit der Bibliothek. 

Wir nennen diese Lizenz die *Kleine* Allgemeine öffentliche Lizenz (Lesser GPL), weil sie weniger (less) dazu beiträgt, die Freiheit des Benutzers zu schützen, als die gewöhnliche Allgemeine öffentliche Lizenz (GPL). Sie verschaft auch anderen Entwicklern freier Software ein Weniger an Vorteil gegenüber konkurrierenden nichtfreien Programmen. Diese Nachteile sind ein Grund dafür, da wir die gewöhnliche GPL für viele Bibliotheken benutzen. Die kleine Lizenz (LGPL) bietet aber unter bestimmten besonderen Umständen doch Vorteile.

So kann, wenn auch nur bei seltenen Gelegenheiten, eine besondere Notwendigkeit bestehen, einen Anreiz zur möglichst weitgehenden Benutzung einer bestimmten Bibliothek zu schaffen, so da diese dann ein De-facto-Standard wird. Um dies zu erreichen, müssen nichtfreie Programme die Bibliothek benutzen dürfen. Ein häufiger Fall ist der, da eine freie Bibliothek dasselbe leistet wie weithin benutzte nichtfreie Bibliotheken. In diesem Falle bringt es wenig Nutzen, die freie Bibliothek allein auf freie Software zu beschränken, und dann benutzen wir eben die LGPL.

In anderen Fällen ermöglicht die Erlaubnis zur Benutzung einer speziellen Bibliothek in nichtfreien Programmen viel mehr Leuten, eine umfangreiche Sammlung freier Software zu nutzen. So ermöglicht z.B. die Erlaubnis zur Benutzung der GNU-C-Bibliothek in nichtfreien Programmen viel greren Zahl von Leuten, das ganze GNU-Betriebssystem ebenso wie seine Variante, das Betriebssystem GNU/Linux, zu benutzen.

Obwohl die LGPL die Freiheit des Benutzers weniger schützt, stellt sie doch sicher, dass der Benutzer eines Programms, das mit der Bibliothek gelinkt wurde, die Freiheit und die erforderlichen Mittel hat, das Programm unter Benutzung einer abgendserten Version der Bibliothek zu betreiben.

Die genauen Bedingungen für das Kopieren, Weitergeben und Abdern finden Sie im nachstehenden Kapitel. Achten Sie genau auf den Unterschied zwischen *work based on the library*, d.h. *Werk, das auf der Bibliothek basiert* und *work that uses the library*, d.h. *Werk, das die Bibliothek benutzt*. Ersteres enthält Code, der von der Bibliothek abgeleitet ist, während letzteres lediglich mit der Bibliothek kombiniert werden muss, um betriebsfähig zu sein.
Der Begriff "Bibliothek" bezieht sich im weiteren immer nur auf solche Software-Bibliotheken und solche Werke, die unter diesen Bedingungen der Lesser-GPL-Lizenz verbreitet worden sind. Ein "auf der Bibliothek basierendes Werk" bezeichnet die betreffende Bibliothek selbst sowie jegliche davon abgeleitete Bearbeitung im urheberrechtlichen Sinne, also ein Werk, welches die Bibliothek oder einen Teil davon, sei es unverndert oder verndert und/oder direkt in eine andere Sprache ersetzte, enthlt. (Im folgenden wird die Ersatzung ohne Einschrnkung als "Bearbeitung" eingestuft.)

Unter dem "Quelltext" eines Werks ist seine fr das Vornehmen von Vernderungen bevorzugte Form zu verstehen. Fr eine Bibliothek bedeutet "vollstndiger Quelltext" den gesamten Quelltext fr alle in ihr enthaltenen Bestandteile, fr jegliche zu ihr gehorenden Dateien zur Definition von Schnittstellen und schliefl auch fr die Skripte, die zur Steuerung der Kompilierung und Installation der Bibliothek benutzt werden.

Andere Handlungen als Vervielfltigung, Verbreitung und Bearbeitung werden von dieser Lizenz nicht berht; sie fallen nicht in ihren Anwendungsbereich. Das Ausfhrn eines Programms unter Benutzung der Bibliothek wird nicht eingeschrnikt, und die Ausgaben des Programms unterliegen dieser Lizenz nur dann, wenn der Inhalt ein auf der Bibliothek basierendes Werk darstellt (unabhngig davon, dass die Bibliothek in einem Werkzeug zum Schreiben dieses Programms benutzt wurde). Ob dies zutrifft, hngt davon ab, was die Bibliothek bewirkt und was das Programm, das die Bibliothek nutzt, bewirkt.

Sie drfen auf beliebigen Medien unvernderte Kopien des vollstndigen Quelltextes des Programms so, wie sie ihn erhalten haben, anfertigen und verbreiten. Voraussetzung hierfr ist, dass Sie mit jeder Kopie deutlich erkennbar und in angemessener Form einen entsprechenden Copyright-Vermerk sowie einen Haftungsausschluss verffentlichen, alle Vermerke, die sich auf diese Lizenz und das Fehlen einer Garantie beziehen, unverndert lassen und zusammen mit der Bibliothek jeweils eine Kopie dieser Lizenz weitergeben.

Sie drfen Ihre Kopie(n) der Bibliothek oder irgendeines Teils davon verndern, wodurch ein auf der Bibliothek basierendes Werk entsteht, und Sie drfen derartige Bearbeitungen unter den Bestimmungen von Paragraph 1 vervielfltigen und verbreiten, vorausgesetzt, dass zuszlich alle im folgenden genannten Bedingungen erflit werden: "Bearbeitungsergebnis mu selbst wieder eine Software-Bibliothek sein." Sie mssen die vernderten Dateien mit einem aufflligen Vermerk versehen, der auf die von Ihnen vorgenommene Modifizierung der Dateien hinweist und das Datum jeder ndierung angibt.
Sie müssen dafür sorgen, daß das Werk als Ganzes Dritten unter den Bedingungen dieser Lizenz ohne Lizenzgebühren zur Verfügung gestellt wird.

Wenn sich eine Funktionseinheit der bearbeiteten Bibliothek auf eine Funktion oder Datentabelle stützt, die von einem die Funktionseinheit nutzenden Anwendungsprogramm bereitgestellt werden muss, ohne dass sie als Argument übergeben werden muss, wenn die Funktionseinheit angesprochen wird, dann müssen Sie sich nach bestem Wissen und Gewissen bemühen, sicherzustellen, dass die betreffende Funktionseinheit auch dann noch funktioniert, wenn die Anwendung eine solche Funktion oder Datentabelle nicht bietet, und dass sie den sinnvoll bleibenden Teil ihres Bestimmungszwecks noch ausführt.

So hat z.B. eine Funktion zum Berechnen von Quadratwurzeln einen von der Anwendung unabhängigen genau definierten Zweck. Deshalb verlangt 2 Absatz d, dass jede von der Anwendung bereitgestellte Funktion oder von dieser Funktion benutzte Tabelle optional sein muss; Auch wenn die Anwendung sie nicht bereitstellt, muss die Quadratwurzelfunktion trotzdem noch Quadratwurzeln berechnen.

Diese Anforderungen gelten für das bearbeitete Werk als Ganzes. Wenn identifizierbare Teile davon nicht von der Bibliothek stammen und vernünftigerweise als unabhängige und gesonderte Werke für sich selbst zu betrachten sind, dann gelten diese Lizenz und ihre Bedingungen nicht für die betreffenden Teile, wenn Sie diese als gesonderte Werke weitergeben. Wenn Sie jedoch dieselben Teile als Teil eines Ganzen weitergeben, dem ein auf der Bibliothek basierendes Werk darstellt, dann muss die Weitergabe dieses Ganzen nach den Bedingungen dieser Lizenz erfolgen, deren Bedingungen für weitere Lizenznehmer somit auf das gesamte Ganze ausgedehnt werden und somit auf jeden einzelnen Teil, unabhängig vom jeweiligen Autor.

Somit ist es nicht die Absicht dieses Abschnittes, Rechte für Werke in Anspruch zu nehmen oder Ihnen Rechte für Werke streitig zu machen, die komplett von Ihnen geschrieben wurden; vielmehr ist es die Absicht, die Rechte zur Kontrolle der Verbreitung von Werken, die auf der Bibliothek basieren oder unter ihrer auszugsweisen Verwendung zusammengestellt worden sind, auszuüben.

Ferner bringt auch das einfache Zusammenlegen eines anderen Werkes, das nicht auf der Bibliothek basiert, mit der Bibliothek oder mit einem auf der Bibliothek basierenden Werk auf ein- und demselben Speicher- oder Vertriebsmedium dieses andere Werk nicht in den Anwendungsbereich dieser Lizenz.

Sie können sich für die Anwendung der Bedingungen der gewöhnlichen Allgemeinen öffentlichen GNU-Lizenz (GNU-GPL) statt dieser Lizenz auf eine gegebene Kopie der Bibliothek entscheiden. Um dies zu tun, müssen Sie alle Eintragungen, die sich auf diese Lizenz beziehen, ndern, so da sie nur fr die gewöhnliche GNU-GPL, Version 2, statt fr diese Lizenz (LGPL) gelten. (Wenn eine neuere Version als Version 2 der gewöhnlichen GNU-GPL erschienen ist, können Sie diese angeben, wenn Sie das wünschen.) Nehmen Sie keine anderen Veränderungen in diesen Eintragungen vor.

Wenn diese Veränderung in einer gegebenen Kopie einmal vorgenommen ist, dann ist sie für diese Kopie
nicht mehr zurücknehmbar, und somit gilt dann die gewöhnliche GNU-GPL für alle nachfolgenden Kopien und abgeleiteten Werke, die von dieser Kopie gemacht worden sind.</para>

<para>Diese Option ist nützlich, wenn Sie einen Teil des Codes der Bibliothek in ein Programm kopieren wollen, das keine Bibliothek ist.</para>

<sect2 id="sect4" label="4">
<title>Paragraph 4</title>

<para>Sie können die Bibliothek (oder einen Teil oder eine Ableitung von ihr, gem <link linkend="sect2">Paragraph 2</link>) in Objektcode-Form oder in ausführbarer Form unter den Bedingungen der obigen Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> kopieren und weitergeben, sofern Sie den vollständigen entsprechenden maschinenlesbaren Quelltext beifügen, der unter den Bedingungen der obigen Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> auf einem Medium weitergegeben werden muss, das blicherweise zum Austausch von Software benutzt wird.</para>

<para>Wenn die Weitergabe von Objektcode durch das Angebot eines Zugangs zum Kopienabruf von einem angegebenen Ort erfolgt, dann erfüllt das Angebot eines gleichwertigen Zugangs zum Kopieren des Quelltextes von demselben Ort die Anforderung, auch den Quelltext weiterzugeben, obwohl Dritte nicht verplichtet sind, den Quelltext zusammen mit dem Objektcode zu kopieren.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Paragraph 5</title>

<para>Ein Programm, das nichts von irgendeinem Teil der Bibliothek Ableitete enthält, aber darauf ausgelegt ist, mit der Bibliothek zusammenzuarbeiten, indem es mit ihr kompiliert oder gelinkt wird, nennt man ein <quote>Werk, das die Bibliothek nutzt</quote>. Solch ein Werk, fr sich allein genommen, ist kein von der Bibliothek abgeleitetes Werk und fällt daher nicht unter diese Lizenz.</para>

<para>Wird jedoch ein <quote>Werk, das die Bibliothek nutzt</quote>, mit der Bibliothek gelinkt, so entsteht ein ausführbares Programm, das ein von der Bibliothek abgeleitetes Werk (weil es Teile der Bibliothek enthält) und kein <quote>Werk, das die Bibliothek nutzt</quote> ist. Das ausführbare Programm fällt daher unter diese Lizenz. <link linkend="sect6">Paragraph 6</link> gibt die Bedingungen für die Weitergabe solcher ausführbarer Programme an.</para>

<para>Wenn ein <quote>Werk, das die Bibliothek nutzt</quote>, Material aus einer Header-Datei verwendet, die Teil der Bibliothek ist, dann kann der Objektcode fr das Werk ein von der Bibliothek abgeleitetes Werk sein, selbst wenn der Quelltext dies nicht ist. Ob dies jeweils zutrifft, ist besonders dann von Bedeutung, wenn das Werk ohne die Bibliothek gelinkt werden kann oder wenn das Werk selbst eine Bibliothek ist. Die genaue Grenze, von der an dies zutrifft, ist rechtlich nicht genau definiert.</para>

<para>Wenn solch eine Objektdatei nur numerische Parameter, Datenstruktur-Layouts und Zugriffsfunktionen sowie kleine Makros und kleine Inlinefunktionen (zehn Zeilen lang oder krzer) benutzt, dann unterliegt die Benutzung der Objektdatei keinen Beschränkungen, ohne Rücksicht darauf, ob es rechtlich gesehen ein abgeleitetes Werk ist. (Ausführbare Programme, welche diesen Objektcode plus Teile der Bibliothek enthalten, fallen jedoch
weiterhin unter die Bestimmungen von <link linkend="sect6">Paragraph 6</link>).</para>

<para>Ansonsten knnen Sie, wenn das Werk ein von der Bibliothek abgeleitetes ist, den Objektcode fr das Werk unter den Bedingungen von <link linkend="sect6">Paragraph 6</link> weitergeben. Alle ausfhrbaren Programme, welche dieses Werk enthalten, fallen ebenfalls unter <link linkend="sect6">Paragraph 6</link>, gleichgltig, ob sie direkt mit der Bibliothek selbst gelinkt sind oder nicht.</para>

<sect2 id="sect6" label="6">
<title>Paragraph 6</title>

<para>Als Ausnahme von den Bestimmungen der vorstehenden fnf Paragraphen dfen Sie auch ein Werk, das die Bibliothek nutzt, mit der Bibliothek kombinieren oder linken, um ein Werk zu erzeugen, das Teile der Bibliothek enthlt, und dieses unter Bedingungen ihrer eigenen Wahl weitergeben, sofern diese Bedingungen Bearbeitungen fr den eigenen Gebrauch des Empfngers und ein Rckbilden (reverse engineering) zum Beheben von Mngeln solcher Bearbeitungen gestatten.</para>

<para>Sie mssen bei jeder Kopie des Werks deutlich erkennbar angeben, dass die Bibliothek darin genutzt wird und dass die Bibliothek und ihre Benutzung durch die Lizenz abgedeckt sind. Sie mssen eine Kopie dieser Lizenz mitgeben. Wenn das Werk bei seiner Ausfhrung Copyright-Vermerke anzeigt, mssen Sie den Copyright-Vermerk fr die Bibliothek mit anzeigen lassen und dem Benutzer einen Hinweis geben, der ihn zu einer Kopie dieser Lizenz fhrt. Ferner mssen Sie eines der nachfolgend genannten fnf Dinge tun: <orderedlist numeration="loweralpha">

<li><para id="sect6a">Liefern Sie das Werk zusammen mit dem vollstndigen zugehrenen maschinenlesbaren Quelltext der Bibliothek aus, und zwar einschlieglich jeglicher in dem Werk angewandter nderungen (wobei dessen Weitergabe gem den Bedingungen der Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> erfolgen muss); und wenn das Werk ein ausfhrbares, mit der Bibliothek gelinktes Programm ist, dann liefern Sie es zusammen mit dem vollstndigen maschinenlesbaren <quote>Werk, das die Bibliothek nutzt</quote>. in Form von Objektcode und/oder Quelltext, so dass der Benutzer die Bibliothek verndern und dann erneut linken kann, um ein verndertes ausfhrbares Programm zu erzeugen, das die vernderte Bibliothek enthlt. (Es versteht sich, dass der Benutzer, der die Inhalte von Definitionsdateien in der verndeten Bibliothek verndert, nicht notwendigerweise in der Lage sein wird, die Anwendung neu zu compilieren, um die vernderten Definitionen zu benutzen.)</para>


<li><para>Liefern Sie das Werk zusammen mit einem mindestens drei Jahre lang gtligen schriftlichen Angebot, demselben Benutzer die oben in <link linkend="sect6a">Paragraph 6, Absatz (a)</link> genannten Materialien zu Kosten, welche die reinen Weitergabekosten nicht bersteigen, zur Verfgung zu stellen.</para>

</li></orderedlist>
Wenn die Weitergabe des Werks dadurch erfolgt, dass die Möglichkeit des Abrufens einer Kopie von einem bestimmten Ort angeboten wird, bieten Sie gleichwertigen Zugang zum Kopieren der oben angegebenen Materialien von dem gleichen Ort an.</para>

Sie vergewissern sich, dass der Benutzer bereits eine Kopie dieser Materialien erhalten hat oder dass Sie diesem Benutzer bereits eine Kopie geschickt haben.</para>

Fr ein ausführbares Programm muss die verlangte Form des Werks, das die Bibliothek nutzt, alle Daten und Hilfsprogramme mit einschließen, die man braucht, um daraus das ausführbare Programm zu reproduzieren. Doch gilt eine spezielle Ausnahme: Die weiterzugebenden Materialien brauchen nicht alles das zu enthalten, was normalerweise (in Quelltext-Form oder in binärer Form) mit den Hauptbestandteilen (Compiler, Kern usw.) des Betriebssystems, auf denen das ausführbare Programm lauffähig ist, weitergegeben wird, es sei denn, das ausführbare Programm gehört selbst zu diesem Hauptbestandteil.</para>

Es kann vorkommen, dass diese Anforderung im Widerspruch zu Lizenzbeschränkungen anderer, proprietärer Bibliotheken steht, die normalerweise nicht zum Betriebssystem gehören. Ein solcher Widerspruch bedeutet, dass Sie nicht gleichzeitig jene proprietären Bibliotheken und die vorliegende Bibliothek zusammen in einem ausführbaren Programm, das Sie weitergeben, verwenden dürfen.</para>

Sie dürfen Bibliotheks-Funktionseinheiten, die ein auf der Bibliothek basierendes Werk darstellen, zusammen mit anderen, nicht unter diese Lizenz fallenden Funktionseinheiten in eine einzelne Bibliothek einbauen und eine solche kombinierte Bibliothek weitergeben, vorausgesetzt, da die gesonderte Weitergabe des auf der Bibliothek basierenden Werks einerseits und der anderen Funktionseinheiten andererseits ansonsten gestattet ist, und vorausgesetzt, da Sie folgende zwei Dinge tun:</para>

Geben Sie zusammen mit der kombinierten Bibliothek auch eine Kopie desselben auf der Bibliothek basierenden Werks mit, die nicht mit irgendwelchen anderen Funktionseinheiten kombiniert ist. Dieses Werk muss unter den Bedingungen der obigen Paragraphen weitergegeben werden.</para>

Weisen Sie bei der kombinierten Bibliothek an prominenter Stelle auf die Tatsache hin, dass ein Teil davon ein auf der Bibliothek basierendes Werk ist, und erklären Sie, wo man die mitgegebene unkombinierte Form desselben Werks finden kann.</para>

Sie sind nicht verpflichtet, diese Lizenz anzunehmen, da Sie diese nicht unterzeichnet haben. Doch gibt Ihnen sonst nichts die Erlaubnis, die Bibliothek oder von ihr abgeleitete Werke zu verndern oder zu verbreiten. Diese Handlungen sind gesetzlich verboten, wenn Sie diese Lizenz nicht annehmen. Indem Sie die Bibliothek (oder ein darauf basierendes Werk) verndern oder verbreiten, erklären Sie Ihr Einverständnis mit dieser Lizenz, die Ihnen das erlaubt, mit allen ihren Bedingungen bezüglich der Vervielfältigung, Verbreitung und Veränderung der Bibliothek oder eines darauf basierenden Werks.

Jedes Mal, wenn Sie die Bibliothek (oder irgendein auf der Bibliothek basierendes Werk) weitergeben, erhält der Empfänger automatisch vom ursprünglichen Lizenzgeber die Lizenz, die Bibliothek entsprechend den hier festgelegten Bestimmungen zu vervielfältigen, zu verbreiten und zu verndern und mit ihr zu linken. Sie dürfen keine weiteren Einschränkungen der Ausbung der hierin zugestandenen Rechte des Empfängers vornehmen. Sie sind nicht dafür verantwortlich, die Einhaltung dieser Lizenz durch Dritte durchzusetzen.

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<sect1 id="fdl-preamble" label="0">
<title>ELSZ</title>

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<sect1 id="fdl-section1" label="1">
<title>ALKALMAZHATSG S DEFINCIK</title>

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A <quote>Nem Vltoztathat szakaszok</quote> olyan <link linkend="fdl-secondary">Msodlagos szakaszok</link>, amelyek cme Nem Vltoztathat szakaszkt van megjellet abban a kzlemnyben, amely szerint a <link linkend="fdl-document">Dokumentum</link> a jelen Licenc hatlya alatt lett kiadv.</para>

A <quote>Bortszvegek</quote> olyan rvid szvegrszek, melyek Cmlapszvegknt, illetve Htlapszvegknt kerlnak felsorolsra a kzlemnyben, amely szerint a <link linkend="fdl-document">Dokumentum</link> a jelen Licenc hatlya alatt lett kiadv.</para>

A <link linkend="fdl-transparent">Dokumentum</link> pldnya olyan gppel olvashat vltozatot jelent, amely a nyilvonnssg szmra hozzfrhet formtumban kerl terjesztstre, tovbb amelynek tartalma alkalmas a szokvnos szvegszerkeszt-programokkal, illetve (pixelekbl II kpek esetn) szokvnos kpmegjelent-programokkal, vagy (rajzok esetn) Italosan hozzfrhet rajzprogramok segtsgvel azonnali vltztatsakra; tovbb olyan formtumban mely alkalmaz a szvegszerkesztkeb ve bevitlere, vagy a szvegszerkesztk ital kezelt formtumokra val automatikus talaktra. Egy olyan, egybknt tltsz formtumban kstlt pldny, melynek a jelnyelve vagy ennek hinya gy lett kialaktva, hogy megakadlyozza, vagy eltntorta az olvaskat minden tovbbi mdoststl, nem tekinhet tltsznak. A nem <quote>tltsz</quote> pldnyok az <quote>tltszatlan</quote> megnevezst kapj.</para>

Az tltszsg kritriumainak megfelel formtumok kzt megtaallhat pldul a jelnyelvet nem hasznl egyszer ASCII,
a Texinfo beviteli formátum, a LaTeX beviteli formátum, az SGML vagy az XML egy Itthonosan hozzáférhet DTD használatval, s a szavbnynak megfelel, emberi mdostrai tervezett egyszer HTML, PostScript vagy PDF, ttlsz kpfornntumokra plda a PNG, XCF s a JPG. Az tltszatlan formntumok kz sorolhatak a a szellemi tulajdnt kpez formntumok, amelyeket csak szellemi tulajdnt kpez szvegszerzkestkkel lehet elolvasni, az olyan SGML vagy XML, amelyhez a szkges DTD s/vagy egyb feldolgoz eszkznek nem Itthonosan hozzáférhet, s az olyan gipleg generált HTML, PostScript vagy PDF formátum, amely kizrl agyes szvegszerzkezt kimeneti formtumatk II el.</para>

Egy nyomtatott knv esetben a<kquote>Cmlap</kquote> magt a cmlapot, illetve brmely azt kieg szt tovbbi oldalt jelli, amely a jelen Licencben elt cmlaptartalom kzztelhe szkges. Az olyan formtum munkknl, amelyek nem rendelkeznek effajta cmlapplal, a<kquote>Cmlap</kquote> a munka cmnek legjobban kiemelt vlozathoak megkzelebbs es, m a szveg trzt megel szvegszeket jelli.</para><sect1 id="fdl-section2" label="2">
<title>SZ SZERINTI SOKSZOROSTS</title>

A fenti feltteleket betartva kcsnzhet is pldnnykat, de akr nyilvnosan is kzzteheti a szveget.</para><sect1 id="fdl-section3" label="3">
<title>SOKSZOROSTS NAGYOBB MENYISGBEN</title>

Abban az esetben, ha a bortlapok brmelyikn megkvetelt szvegrszek tl hossznak bizonyulnnak az olvashat kzztelhez, gy csak az elsnt felsoroltakat kell felntetnie (amennyi jzan belts szerint elfr) a nylegen bort, a tovbbiak pedig tkerlhetnek a kvetkez oldalakra. Abban az esetben, ha a bortlapok brmelyikn megkvetelt szvegrszek tl hossznak bizonyulnnak az olvashat kzztelhez, gy csak az elsnt felsoroltakat kell felntetnie (amennyi jzan belts szerint elfr) a nylegen bort, a tovbbiak pedig tkerlhetnek a kvetkez oldalakra.
felhasználó számára, s onnan nyílvinos szabvány híزين protokollok segítségével a Dokumentum hozzáférhet egyéb anyagokhoz, teljes vltázata lefélhet. Ha az utóbbi lehetőséget választja, kete gondoskodni arra, hogy attól a napot kezdve, amikor az utolsó változatot plány is terjesztsere került (akár közvetlenül a Dokumentum és a kiskereskedelmi forgalom), a fenti helyen kozott tűzz fel plány meg legalább egy víg hozzáférhet legyen a felhasználó számára.

Megkérjük, mő nem ktelezzek ny arra, hogy minden esetben, amikor nagyobb plány szám terjesztésbe kezd, már az ezt megelégsen ljen kapcsolatba a Dokumentum szerzőivel, annak rdekben, hogy megkaphassa a Dokumentum esetleges jöbb változatát.

MDOSTÓK

<table>
<thead>
<tr>
<th>Cmlapon (s ha van, a bortkon) tntessen fel egy a</th>
<th>Cmlapon szerzők sorolja fel a</th>
<th>Cmlapon a MDOSTÓTTAT felhasználó felkészíti fel kiadknt.</th>
<th>A MDOSTÓTTAN elvégzett változtatások felelős természetes vagy jogi személyeket, továbbá a MDOSTÓTTAT felkészíti fel kiadknt.</th>
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<td>a &lt;link linkend=&quot;fdl-title-page&quot;&gt;Cmlapon&lt;/link&gt; (s ha van, a bortkon) tntessen fel egy a &lt;link linkend=&quot;fdl-document&quot;&gt;Dokumentum&lt;/link&gt;</td>
<td>szerék személy sorolja fel a &lt;link linkend=&quot;fdl-modified&quot;&gt;MDOSTOTTAT&lt;/link&gt; elvégzett változtatások felelős természetes vagy jogi személyeket, továbbá a &lt;link linkend=&quot;fdl-document&quot;&gt;Dokumentum&lt;/link&gt; f szeré kis légkevesebb és vagy mindet, ha nál kevesebben vannak) kivve, ha ezen feltétel all k nt felmentik.</td>
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</table>

Sajt mdostsaira vonatkozóan is tegyen kzz egy szerzi jogi megjegyzést, a tbbi ilyen jelleg figyelmeztets mellett.
<listitem>
  <para>Rgtn a szerzi jogi figyelmeztetseket kveten tntessen fel egy kzlemnyt, az albbi Fggel mintjra, amelyben engedlyezi a <link linkend="fdl-modified">Mdostott Vltozat</link> felhasznlat a jelen Licenc feltteleinek megfelelen.</para>
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<listitem>
  <para>A fenti kzlemnyben hagyja rintetlenl a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok s a szksges <link linkend="fdl-cover-texts">Bortszvegek</link> a jelen <link linkend="fdl-document">Dokumentum</link> licencben elt teljes listjt.</para>
</listitem>

<listitem>
  <para>Mellkelje a jelen Licenc egy eredeti pldnyt.</para>
</listitem>

<listitem>
  <para>Az <quote>Elzmnyek</quote> elnevezs szakaszt, illetve annak cmt szintn hagyja rintetlenl, emellett adjon hossz egy j elemet, amely minimalisan tartalmazza a <link linkend="fdl-modified">Mdostott Vltozat</link> cmt, kiadsi vt, tovbb az j szerz, illetve a kiad nevt, a <link linkend="fdl-title-page">Cmlapon</link> lthatkhoz hasonlan. Amennyiben a <link linkend="fdl-document">Dokumentum</link> nem tartalmaz semmifle <quote>Elzmnyek</quote> elnevez szakaszt, gy hozzon ltre egyet, amely tartalmazza a Dokumentum cmt, kiadsi vt, tovbb a szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan; majd ezt kveten adjon hossz egy j, a Mdostott Vltozatra vonatkoz elemet, a fentiekkel szszhangban.</para>
</listitem>

<listitem>
  <para>Ne tegyen vltoztatokat a <link linkend="fdl-document">Dokumentumban</link> megadott <link linkend="fdl-transparent">tltsz pldny</link> nyilv nos hlzati elrhetsgt (ha van ilyen) illeten, vagy hasonlkpp, a Dokumentum alapjul szolg korbbi vltozatok hlzati helyre vonatkozan. Ezek az <quote>Elzmnyek</quote> szakaszban is szerepelhetnek. Csak abban az esetben hagyhatja el egyes korbbi vltozatok hlzati elrhetsgt, ha azok legkevesebb ngy vvel a Dokumentum eltt kszltek, vagy ha maga az alkot engedlyezi azt.</para>
</listitem>

<listitem>
  <para>Brmely <quote>Ksznetnyilvnts</quote>, vagy <quote>Ajnlsok</quote>elnevez szakasz cmt hagyja rintetlenl, tovbb gondoskodjon arrl, hogy azok tartalma s hangvtele az egyes hozzjrulkat, s/vagy az ajnlsokat illeten vltozatlan maradjon.</para>
</listitem>

<listitem>
  <para>A <link linkend="fdl-document">Dokumentum</link> sszes <link linkend="fdl-invariant">Nem Vltoztathat</link> szakasz hagyja rintetlenl, gy cmket, mint tartalmukat illeten. A szakaszok szmozsa, vagy brmely azzal egyenrt jells nem tartozik a szakaszcmek kz.</para>
</listitem>
Trljn minden "Hozzjrüls" elnevez szakasz. Effajta szakaszok nem kpehetik rszt a "Mdstott Vltozatnak"<link linkend="fdl-modified"/>
</listitem>

Ne nevezzn t semmilyen itez szakasz "Hozzjrüls" elnevezsre, vagy olyasmire, amely cmen a "Nem Vltoztathat" szakaszokkal tkzhet.</para>
</listitem>
</itemizedlist>

Ha a "Mdostott Vltozat" j bevezet szakasza tartalmaz, vagy olyan fggelkeket, melyek "Mdstott Vltozat" minslnek, m nem tartalmaznak a Dokumentumbl szrmaz anyagot, abban az esetben, belsia szerint, e szakaszok nmelyikt, vagy akr az sszeset besorolhatja nem vltoztathatkn. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmeke a "Nem Vltoztathat" licencnek Nem Vltoztathat szakaszok listjban. E cmeke hatrozottan el kell klnln minden egyb szakaszcmnl.</para>

Hozzjrüls elnevezs szakaszt csak akkor adhat a Dokumentumhoz, ha az kizrlag a "Mdostott Vltozat" utal megjegyzseket tartalmaz pldul msok recenziira vonatkozan, vagy hogy egy szervezet a szveget egy szabvny mrav defincijakt ismerte el.</para>

Cmlapszveg gyannt egy legfeljebb t szbl ll szegrsz adhat meg, a "Mdostott Vltozat" esetn pedig 25 szt fzhet a "Mdostott Vltozat" "Bortszvegeinek" vghex. Brmely termszetes vagy jogi szemly csak s kizrlag egy Cmlapszveg s egy Htlapszveg rszt adhat (akr kzwett keresztl) a Dokumentumhoz. Ha a "Dokumentum" mr rendelkezik Bortszveggel ehhez a vltozathoz, met korbban n adta hozz, vagy az a szervezet, amelynek nevben n fellp, akkor nem adhat hozz msik Bortszveget; a rgit mindazonltal lecserlheti, abban az esetben, ha az azt hozzad korbbi kiad egytert men engedlyezi.</para>

Kombinlt dokumentumok

A ksz "Dokumentum" szerzi s kiadi ezzel a Licenccel nem rjlnak hozz nevk felhasznlsra, a "Mdostott Vltozat"<link linkend="fdl-modified"/>
</sect1>

sect1 id="fdl-section5" label="5">
<title>KOMBINLT DOKUMENTUMOK</title>

nnek lehetsge van a "Dokumentum" egyb, e Licenc hatlya alatt kiadott dokumentumokkal val kombinlsra a "4. szakasz" mdosts mdostott vltozatokra vonatkoz rendelkezsei alapjn, felte, hogy a kombini mdotts nk tartalmazza az eredeti dokumentumok sszes "Nem Vltoztathat" szakaszt, s hogy azok mind Nem Vltoztathat szakaszknt kerlnk felsorolsra a kombinlt munka licencben, s tartalmazzk a hozzjuk tartoz Garancik Kizrsait is.</para>

A kombinlt munknak a jelen Licenc mindssze egy pldnyt kell tartalmaznia, az egymssal tfdsben lv "Nem Vltoztathat" szakaszok pedig kivlthatat egy szegsgt pldnyal. Amennyiben bbb Nem Vltoztathat szakasz szereplne ugyanazon cmmel, m elt tartalommal. gy alaksta t minden egyes szakasz cmt olyan mdon, hogy mg rja zrbel az eredeti szerz s kiad nevt (ha ismeri) vagy egy egyedi sorszmot. Ha szksges, a Nem Vltoztathat szakaszok cmeivel vgeze el a fenti mdostsokat a kombinlt munka licencben.</para>
A kombinált munkban az eredeti dokumentumok számos "Elznmnyek" elnevezés szakasz széke olvasztania, miáltal egy szüfegg "Elznmnyek" elnevezés szakasz a litre; hasonlóképp kell eljarnia a "Ksznetnyilvnts" elnevezés, illetve az "Ajnlsok" elnevezés szakaszok tekintetében. Ugyanakkor minden "Hozzjruls" elnevezés szakasz trlnie kell.</para>

</sect1>

<title>DOKUMENTUMGYJTEMNYEK</title>

A <link linkend="fdl-document">Dokumentum</link> és annak szmazkainak klnll, vagy fggetlen dokumentumokkal, illetve munkkal val szfesze egy ksz trolsi, vagy terjesztsi egysgen <quote>gyjtemnynek</quote> nevezend, amennyiben az szfesz esemnyekken rvnyes szerzi jogi felttelek nem krtlozzk nagyobb mrtkben az szfesz felhasznlnak jogait, mint amennyire azt az egyes szetekv teszik. Amikor a Dokumentum sz egy gyjtemnynek, akkor a jelen Licenc nem rvnyes a gyjtemny azon rszeire, amelyek nem a Dokumentumbl szrmaztatott munkk. Amennyiben a <link linkend="fdl-section3">3. szakasz</link> <link linkend="fdl-cover-texts">Bortszvegekre</link> vonatkoz rendelkezsei alkalmazhatjuk a Dokumentum e pldnyaira, s a Dokumentum a teljes szegzsnek kevesebb, mint felt teszi ki, gy a Dokumentum Bortszvegeit olyan mdon is el lehet helyezni a bortkon, hogy azok csak magt a Dokumentumot fogj kze, vagy a bortknak megfelel elektronikus formban, amennyiben a Dokumentum elektronikus formban tallhat. Minden ms esetben a teljes szegzs bortlapjain kell feltntetni a fenti szvegeket.</para>

</sect1>

<title>FORDTS</title>

A fordts egyfajta mdostsnak tekinthet, gy a <link linkend="fdl-document">Dokumentum</link> lefordott pldnyai a <link linkend="fdl-section4">4. szakasz</link> rendelkezsei alapjn terjeszthetek. A <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok lefordtshoz kln engedlyt kell krni a szerzi jogtulajdonos, mindazonlal kztthetek a lefordott viltozatok is, ha az eredeti Nem Vltoztathat szakaszokat is belefoglalja a munka. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmillkletre, illetve az esetleges Garancik Kizsaira ugyanek a felttelek rvnyeseik, vagyis a lefordott viltozatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kizsok szervei is. Amennyiben eltrs mutatkozn az eredeti viltozatok, illetve a fordts kzt, gy a Licenc, a mellkletek s kizsok angol nyelv eredetije tekintend mrvadnak.</para>

</sect1>
<para>A jelen Licencben egyetlen kijelent keretekben kvil tiolas a <link linkend="fdl-document">Dokumentum</link> brminem sokszorostsa, mdsosta, tovbblicencelse, vagy terjesztse. Minden ezzel szembeni sokszorostsi, mdsesi, tovbblicencelseli, vagy terjesztsi ksrlet a jelen Licencben meghatrozott jogok automatikus megsznst vonja maga utn. Ugyanakkor azok a felek, akik kcs keresztl jutottak msolathoz vagy jogosultsgokhoz, nem veszik el azokat, amg maradktalanul betartjk e Licenc elrsait.</para>

</sect1>

<sect1 id="fdl-section10" label="10">
<title>JELEN LICENC JVBENI JAVTSAI</title>

<para>A Licenc minden vltzata egyedi verziszmmal van eltva. Ha a <link linkend="fdl-document">Dokumentum</link> jelen Licenc egy konkrt, szmozott verzija <quote>vagy jabb verzira</quote> hivatkozik, gy nnek a szban fvg vltzat, vagy brmely jabb a Free Software Foundation Ital (nem vzlatknt) kiadott verzi feltteleinek kvetsre lehetsge van. Ha a Dokumentum nem ad meg semmilyen verziszmot, gy brmely, a Free Software Foundation Ital valaha (nem vzlatknt) kiadott vltzat megfelel.</para>
</sect1>

<sect1 id="fdl-using" label="none">
<title>Fggelk</title>
<para>Ha a jelen Licencet egy n Ital rt dokumentumban kvnja hasznlni, akkor mellkelje hozz a Licenc egy pldnyt, tovbb vezesse r az albbi szerzi jogi s licenckzlemnyeket, rgtn a cmlapot kveten:</para>

<blockquote>
<para>Copyright (C) V AZ N NEVE.</para>

<para>Engedlyt adunk nnek a jelen dokumentum sokszorostsra, terjesztsre s/vagy mdsostra a Free Software Foundation Ital kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzijnak felttelei alapjn. Nincs <link linkend="fdl-invariant">Nem Vltoztathat szakasz</link>, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link>. A jelen licenc egy pldnyt a <quote>GNU Free Documentation License</quote> elnevezs szakasz alatt tallja.</para>
</blockquote>

<para>Amennyiben nincsenek <link linkend="fdl-invariant">Nem vltzoathat szakaszok</link>, akkor ahelyett a rsz helyett, hogy melyek nem vltzoathatak, rja azt, hogy <quote>Nem tartalmaz Nem vltzoathat szakaszokat</quote>. Amennyiben nincsenek <link linkend="fdl-cover-texts">Cmlapszvegek</link>, akkor <quote>Cmlapszveg felsorolasa</quote> helyett, rja azt, hogy <quote>Cmlapszveget nem tartalmaz</quote>; hasonlan jron el a <link linkend="fdl-cover-texts">Htlapszveg</link> esetben.</para>

<para>Amennyiben a dokumentum nem egyetelm programkpdkat is tartalmaz, gy azt javasoljuk, hogy e pldkat egy vlasztsta szerinti szabad szoftver licenc alatt kzlje mint pldul a <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html"> GNU General Public License</ulink>, hogy lehet tegye a kdok szabad szoftverekben val almazst.</para>
</sect1>

</article>
The GNU Public License 2 in DocBook
Marked up by Eric Baudais <baudais@okstate.edu>
Maintained by the GNOME Documentation Project
http://developer.gnome.org/projects/gdp
Version: 1.0.1
Last Modified: Dec 16, 2000

The GNU General Public License (GPL)

A jelen licencdokumentumot brki szabadon lemsolhatja s a pontos msolatait terjesztheti, de a mdostsa
tilos.

A legtbb szoftver licencei azzal a szndkkal kszltek, hogy minl kevesebb
lehetsget adjanak a szoftver megvltoztatsra s terjesztsre. Ezzel szemben a GNU GPL clja, hogy garantlja a szabad
szoftver msolnak s terjesztsnek szabadsgt, ezltal biztostva a szoftver szabad felhasznlnhatsgt minden felhasznln
szmra.

A jelen licencdokumentumot brki szabadon lemsolhatja s a pontos msolatait terjesztheti, de a mdostsa
tilos.
A legtöbb szoftver licencei azzal a szándékot kölcsönzötték, hogy minél kevésbé lehetőséget adjanak a szoftver megvilágítatásra és terjesztésre. Ezzel szemben a GNU GPL clja, hogy garantálja a szabad szoftver módosítást és terjesztését minden felhasználó számára. A GPL szabályai vonatkoznak a Free Software Foundation legtöbb szoftverre, illetve minden olyan programra, melynek szerzője gyakran azt állítja, hogy ezt használja a szerző jog megjelölésekor. (A Free Software Foundation egyes szoftvereire a GNU LGPL vonatkozik.) Bróki használhatja a programjaiban a GPL-t a szerző jogi megjegyzésekben.

A szabad szoftver megjelent nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencei clja, hogy garantálja a szabad szoftver módosításnak szabad terjesztését (s e terjesztést aforraksból elérhető), hogy bróki szabadon módosítsa a szoftvert, vagy felhasználja a módosítottat más szabad programokban; s hogy mások megismerhessék ezt a lehetséget.

A szerző jogainak védelme kitexplai: A szoftver szerzőjének és jogainak védelmét kell hozni, amelyek megtiltják, hogy bróki megtagadhasssa ezeket a jogokat módosítva, vagy ezekért valamennyi kénytelen bróki módosítani a szoftvert, vagy felhasználhatja azokat személyesen, akik a szoftver módosításait terjesztik vagy módosítják. Ezek a megszorítások bizonyos felelősséget jelentenek azok számára, akik a szoftvert vagy módosított szoftvert módosítják vagy terjesztik.

Ha valaki például ilyen program módosítást terjeszt, akkor ingyen vagy bizonyos szegélye fejében, a szoftverre vonatkozó minden jogot tovább kell adnia a fogad felének. Biztosítani kell tovább, hogy megkapják vagy legalább biztosítják a forrásot is. Persze ezeket a licencfelületeket is el kell juttatni, hogy tisztában legyenek a jogainakkal.

Az egyes szerzők a megjelent szoftvereket a jelen licenc biztosítással, amely megadja, hogy biztosított a szoftvert módosításra, terjesztésre és/vagy módosításra.

Az egyes szerzők a megjelent szoftvereket a jelen licenc biztosítással, amely megadja, hogy biztosított a szoftvert módosításra, terjesztésre és/vagy módosításra.

A jogok védelme például: a szoftver szerzője jogainak védelmét kell hozni, amelyek megtiltják, hogy bróki megtagadhasssa ezeket a jogokat módosítva, vagy ezekért valamennyi kénytelen bróki módosítani a szoftvert, vagy felhasználhatja azokat személyesen, akik a szoftver módosításait terjesztik vagy módosítják. Ezek a megszorítások bizonyos felelősséget jelentenek azok számára, akik a szoftvert vagy módosított szoftvert módosítják vagy terjesztik.

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Vgl, a szabad szoftver lt llandan fenyegetik a szoftverszabadalmaik. El szeretnienk kerlni annak veszlyt, hogy a szabad program terjeszti szabadalmat jegyezhessenek be r, ezltal sajt szellemi tulajdon kpez tegy a programot. Ennek megelzhez is tiszti knvjuk: szabadalom szabad szoftverrel kapcsolatban csak mindenki Itali szabad hasznlatra jegyezhet be, vagy egyáltaln nem jegyezhet be.

A msolsra, terjesztsre, mdostsra vonatkoz pontos szablyok s felttelek:

A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK

0. szakasz

Ez a licenc minden olyan programra vagy munkra vonatkozik, amelynek a szerzi jogi megjegyzesben a jog tulajdonosa a kvetkez szveget helyezte el: a GPL-ben foglaltak alapjn terjeszthet. Az albbiakban a Program kifejez brmely ilyen programra vagy munkra vonatkozik, a Programon alapul munka pedig magt a programot vagy egy szerzi joggal vdtt munkt jelenti: vagyis olyan munkt, amely tartalmazza a programot vagy annak egy rszlett, mdostottan vagy mdostatlanul s/vagy ms nyelvre fordta. (Az albbiakban a fordts minden egyb megkts nkli beletartozik a mdosts</quote>mdests</quote> fogalmaba.) Minden engedlyez czettje n.</para>

A jelen licenc a msolson, terjesztsen s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Program futtatsa nincs korltozva, illetve a Program kimenetre is csak abban az esetben vonatkozik ez a szablyozs, ha az tartalmazza a Programon alapul munka egy rszlett (fggetlenl attl, hogy ez a Program futtatsval jtt-e ltre). Ez teht a Program mdstl fgg.

1. szakasz

A Program forrskdja mdosts nlkl msolhat s brmely adathordzsn terjeszthet, feltve, hogy minden egyes pldnyon pontosan szerepel a megfelel szerzi jogi megjegyzs, illetve a garanciavllals elutastsa; rintetlenl kell hagyni minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programot kapik.

Felszmthat dj a msolat fizikai tovbbtsa fejben, illetve ellenszolgltats fejben a Programhoz garancilis tmogats is biztosthat.

2. szakasz

A Program vagy annak egy rsze mdosthat, gy a Programon alapul munka jn ltre. A mdosts ezutn az 1. szakaszban adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek:

Orderedlist numeration="loweralpha">

A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vg nevt s a mdostsok dtmt.

listitem>

A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vg nevt s a mdostsok dtmt.
Minden olyan munkat, amely részben vagy egészben tartalmazza a Programot vagy a Programon alapul, olyan szabályokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik személy részére licencidjmentesen hozzáférhet legyen, a jelen dokumentumban találhat megfelelően.</p>

Ha a mdostott Program interaktyv olvassa a parancsokat futs közben, akkor gy kell elszteni, hogy a megszokott mdon trtn inditskor megjelenjen egy zenetet a megfelel szerzi jogi megjegyzessel s a garancia hinyra utal klssel (vagy ppen azzal az informcival, hogy miknt juthat valaki garancihoz), illetve azzal az informcival, hogy brki terjeszthet a Programot a jelen feltteleknek megfelelően, s arra is utalst kell tenni, hogy a felhasznlnik miknt tekintheti meg a licenc egy plnnyt. 

Kivétel:

Ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem kell ezt tennie.</p>

Ezek a felttelek a mdostott munkra, mint egészre vonatkoznak. Ha a munka azonosthat részei nem a Programon alapulnak s fgeten munkkk nt elkhlté azonosthat, akkor ez a szabályozs nem vonatkozik ezekre a rszekre, ha azok kl munkaknt kernek terjesztésre. Viszont, ha ugyanez a rsz az egész rszeknt kerl terjeszttsre, amely a Programon alapul munka, akkor az egész terjesztse csak a jelen dokumentum alapjn lehetses, amely ebben az esetben a jogokat minden egyes felhasznln szmra kiterjeszti az egészre tekintet nik arra, hogy melyik rszt ki rta. 

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajta lltal rt munkatra; a cl az, hogy a jogok gyakorlisa szabályozva legyen a Programon alapul illetve a gyjemnyes munk terjesztése esetben. 

Ezenkl ms munknak, amelyek nem a Programon alapulnak, a Programmal vagy a Programon alapul munkvall kzs adathordozn vagy adattroln szerepeltetse nem jelenti a jelen szabályozv nyessgt azokra is.</p>

A Program (vagy a Programon alapul munka a cl megfelelően) msolhat s terjeszthet trgykd vagy vgrehajthat kd formjban az cl a szakaszban s a cl foglaltak szerint, amennyiben az albbi felttelek is teljesnek: <orderedlist numeration="loweralpha">

- A teljes, gp ltt rtelmezhet forrskd ksr az anyagot, amelynek terjesztse az cl 1. szakaszban s a cl 2. szakaszban foglaltak szerint trtnk, jellemzen szoftverterjesztsre hasznlt adathordozn; vagy, 

- A teljes, gp ltt rtelmezhet forrskd, a fizikai tovbbst fedez szegnlnk nem nagyobb dtz az 1. s 2. szakaszban foglaltak szerint szoftverterjesztsre
használt adathordozó; vagy.</para>

</listitem>

</paralist>

<p>Ha a megfelel forraskod terjesztésre vonatkozóan megkapott tıkkoztatás kiszi az anyagot. (Ez az alternatívával csak nem kereshedelmi terjesztés esetén alkalmazhat abban az esetben, ha a terjeszt a Programhoz a trgykd vagy forraskod formában jutott hozz a ajnaliattal együtt a fenti b. cikkelynek megfelelén.)</p>

</listitem>
</orderedlist>

<p>Egy munka forráskodja a munknak azt a formát jelenti, amelyben a mdostsokat elsőlegesen végzni szokás. Egy vghrehajthat program esetében a teljes forrrskd a tartalmazott szöveg modul forrrskdjé volt jelenti, tovább a kapcsolód fellető definíció főszerep a s a fordott vezérl parancsfőszerep. Egy speciális kivételként a forraskodnak nem kell tartalmaznia normál esetben a vghrehajthat kod és a szolgált operációs rendszer fbb szereke (kernel, fordóprogram stb.) terjesztett részeit (forrás vagy bináris formban), kivéve, ha a komponens befolyásolja a vghrehajthat készenléti az.</p>

<p>Ha a vghrehajthat program vagy trgykd terjesztése a forraskod hozzáít a megadott helyen biztost helyen végzés esetében, akkor ez egyenért a forraskod terjesztéssel, br msoknak nem kell a forrst lemsolniuk a trgykddal együtt.</p>

</sect2>

<sect2 id="sect4" label="4">
<title>4. szakasz</title>

<p>A Programot csak a jelen Licencben lertaknak megfelelően szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon trtn msols, mdosts, terjesztés s allicencbe ads rnveten, s azonnal rnvetelen a dokumentumban megadott jogosultsgokat. Mindazonáltal azok, akik a Licencet megszegtt kaptak plnyokat vagy jogokat, tovább gyakorolhatják a Licenc látal meghatározott jogaiakat mindaddig, amíg teljesen megfelelnek a Licenc feltételeinek.</p>

</sect2>

<sect2 id="sect5" label="5">
<title>5. szakasz</title>

<p>Nek nem ktelez elfogadnia ezt a szabályozást, hiszen nem rta al. Ezen kívül viszont semmi ms nem ad jogokat a Program terjesztésre s mdostsra. Ezeket a cselekedeteket a trnvny bnteti, ha nem a jelen szerzi jogí szabályozó keretei kzt trtnnek. Mindezek miatt a Program (vagy a Programon alapul munka) terjesztése vagy mdosta a jelen dokumentum szabályainak, s azon bell a Program vagy a munka mdostsra, msolsra vagy terjesztésre vonatkoz szöveg feltételeinek elfogadást jelenti.</p>

</sect2>

<sect2 id="sect6" label="6">
<title>6. szakasz</title>

<p>Minden alkalommal, amikor a Program (vagy az azon alapul munka) továbbada trtnik, a Programot megkap személy automatikusan hozzájut az eredeti licencüldjosten szmaz licencéhez, amely a jelen szabályok szerint biztosítja a jogot a Program msolsra, terjesztésre s mdostsra. Nem lehet semmilyen msdn tovább korlátozni a fogad flnek az itt megadott jogai. A Program továbbadja nem felels harmadik személyekkel betartatni a jelen szabályokat.</p>

</sect2>
7. szakasz

Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellentesek a jelen felttelekkel, az nem menti fel a terjeszt a jelen felttelek figyelembevtele all. Ha a terjeszts nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyttes betartsval, akkor tilos a Program terjesztse. Ha pldl egy szabadalmi szerzds nem engedi meg egy program jogdj nkli tovbbterjesztst azok szmra, akik kzetve vagy kzetlenl megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felttelnek az, hogy ell a program terjesztstl.<para>

Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egcsz alkalmazand.<para>

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnzzn brkit is; mindszs meg szeretn vdeni a szabad szoftver terjesztj rendszernek egysgt, amelyet a szabad kreadst szablyoz felteltrendszek teremtenek meg. Sok ember nagymértkben jlt hozz az e rendszer keretben terjesztett, klnfe szoftverekhez, s szmt a rendszer kvetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendszer szerint is kzz kvnja-e tenni, s a licencet kapk ezt nem befolysolhatjik.<para>

E szakasz clja, hogy pontosan tisztzza azt, ami elgondolsunk szerint a jelen licenc tbbi rsznak a kvetkezmnye.<section id="sect8" label="8">

8. szakasz

Ha a Program terjesztse s/vagy hasznlata egyes orszgokban nem lehetsges akr szabadalmak, akr szerzi jogokkal vdett felletek miatt, akkor a Program szerzi jogainak eredeti tulajdonosa, aki a Programot ezen szablyozs alapjn adja kze, egy explicit fldrajzi megktst adhat a terjesztse, s egyes orszogokat kizrhat. Eben az esetben gy tekintend, hogy a jelen licenc ezt a megktst is tartalmazza, ugyangy mintha csak a f szvegben lenne lerva.<section id="sect9" label="9">

9. szakasz

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A dokumentum minden vltozata egy megklnbztet verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzbsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.<section id="sect11" label="11">

A dokumentum minden vltozata megklnbztet verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzbsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.<section id="sect12" label="12">\n
A dokumentum minden vltozata megklnbztet verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzbsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.<section id="sect13" label="13">\n
A dokumentum minden vltozata megklnbztet verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzbsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.<section id="sect14" label="14">\n
A dokumentum minden vltozata megklnbztet verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzbsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.<section id="sect15" label="15">
10. szakasz

A Programot ms szabad szoftverbe, amelynek szerzi jogi szabályozója kihívik, csak akkor pethet be, ha a szerzett erre engedélyt szerzett. Abban az esetben, ha a program szerzőinek tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell rni; nha kivételt tesznek. A dnts a kivetkez kt el szem elt tartalval fog trtni: megmaradjan a szabad szoftveren alapul munkk szabad lapota, valamint segíts el a szoftver jrafelhasználat s megosztst.

11. szakasz

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12. szakasz

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Paragraf 0

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Paragraf 1

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Mario Blttermann 2008, 2012

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</sect1>
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
</para>

<para>
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
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<para>
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</para>

<para>
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
</para>

<para>
We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

The modified work must itself be a software library.

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a work that uses the Library. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a work that uses the Library with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a work that uses the library. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a work that uses the Library uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
terface-compatible with the version that the work was made with.

</para>
</listitem>
</listitem>

<para>
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
this distribution.
</para>
</listitem>
</listitem>

<para>
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
</listitem>

<para>
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
</para>
</listitem>
</orderedlist>

<para>
For an executable, the required form of the <quote>work that uses the
Library</quote> must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
</para>

<para>
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use both them and the Library together in an executable that you
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</para>
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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any
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</para>

<para>
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</para>

<sect2 id="sect12" label="12">
<title>Section 12</title>

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</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

<para>
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</para>

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Edonork egin eta banatu ditzake lizentzia-dokumentu honen kopia literalak, baina debekatuta dago dokumentuan aldaketak egitea.</para>

Softwarea partekatzeko eta aldatzeko askatasuna diseinatuta daude software-lizentzia gehienak. Aitzitik, software libre partekatu eta aldatzeko duzun askatasuna bermatzea da GNU Lizentzia Publiko Orokorraren xedea, hau da, software erabiltzaile guztientzat librea izango dela ziurtatzea.

Software libreaz hitz egiten dugunean, askutasunari buruz ari gara, eta ez prezioari buruz. Gure Lizentzia Publiko Orokorren xedea da software librearen kopia banatzeko (eta, nahi izanez gero, zerbitzu horrengatik kobratzeko) askatasuna duzula ziurtatzea, iturburu-kodea jasoko duzula edo, nahi izanez gero, hartzeko aukera duzula bermatzea, softwarea aldatzeko edo software zatiak beste programa libre berri batzuetan erabiltzeko eskubidea duzula segurtatzea eta gauza horiek egin ditzakezula jakinarazteatx.<para>

Hedadura Txikiagoko Lizentzia Publiko Orokorra Software Foundation-en software-pakete (normalean, liburutegiak) zehatz batzuei eta haieek erabilitzen dituzten egileei aplikatzeko azia. Zuk ere erabil dezakezu, baina lehenengo pentsa ezazu, behean ematen diren azalpenak kontuan hartuz, lizentzia hori edo Lizentzia Publiko Orokorra erabiltzea komeni zaizun kasu jakinetan.</para>

Zure eskubideak babesteko, banatzaileek zuri eskubide hauek ukatzea edo eskubide horiei uko eginaraztea debekatzeko eta eragozteko mugak jarri behar ditugu. Mugaketa horien ondorioz, liburutegia aldatu edo kopia banatzen badituzu, zenbait erantzukizun hartuko dituzten jakinak.</para>

<para>Bi urratsez osatutako metodoarekin babesten ditugu zure eskubideak: (1) liburutegiaren egile-eskubideak erregistratzen ditugu, eta (2) liburutegia kopiatzeko, banatzea eta/edo aldatzeko legezko baimena ematen dizun lizentzia eskaintzen dizugu.</para>

<para>Banatzailak babesteko, argi utzi nahi dugu liburutegi breakez duela bermerik. Norbaitek liburutegia aldatzen eta banatzen badu, hartzailak jakin behar dute haiek dutena ez dela jatorrizko bertsoa, eta, beraz, besteren batek sortutako arazoak ez dutela jatorrizko egileen ospea kaltetuko.</para>

<para>Azkenik, software-patenteak etengabeko arriskua arriskua dira programa libreantzat. Ziurtatu nahi dizugu enpresa batek ezin dituela programa libre baten erabilzaileak mugatu patentea duenaren lizentzia murriztailea lortuz. Horregatik, azpimarratzen dugu liburutegiaren bertso bateko batetik eskuratutako patenteak lizentzia honetan zehazten den erabilera-askatasuna izan beha duela.</para>

<para>GNU softwarearen zati handiena, liburutegi batzuk barne, GNU Lizentzia Publiko Orokorraren baldintzapean dago. GNU Hedadura Txikiagoko Lizentzia Publiko Orokorra liburutegi jakin batzuei aplikatzen zaie, eta Lizentzia Publiko Orokoretik asko desberdintzen da. Lizentzia hori liburutegi batzuetan erabiltzen dugu programa libreak ez diren programen liburutegietara estekatu ahal izateko.</para>

<para>Programa bat liburutegi batekin estekatuta dagoenean, estatikoki nahiz liburutegi partekatua erabiliz, bi horien lotura lan konbinatua da legalki hitz eginez, hau da, jatorrizko liburutegiaren eratorria. Lizentzia Publiko Orokor arruntak estekatze horiek egiteko baimena ematen du, betiere, konbinazio osoa askatasun-irizpidearekin bat badator. Hedadura Txikiagoko Lizentzia Publiko Orokorrak irizpide malguagoa eskaintzen du beste kode batzuk liburutegiarekin estekatuko.</para>

<para>Lizentzia honi <quote>Hedadura Txikiagoko</quote> Lizentzia Publiko Orokorra deitzen diogu, erabilzailearen askatasuna Lizentzia Publiko Orokor arruntak baino gutxiago babesten baitu. Bestalde, software librearen garatzaileei abantaila gutxiago eskaintzen dizkie programa ez-libreekin lehian aritzeari dagokionez. Eragospen hortegatik erabiltzen dugu Lizentzia Publiko Orokor arrunta hainbat liburutegiarentzat. Hala ere, Hedadura Txikiagoko lizentziak abantailak eskaintzen ditu egoera bereziak.</para>


<para>Beste kasu batzuetan, liburutegi jakin bat programa ez-libreetan erabiltzea baimena ematea software libreia jende gehiagok erabiltzea ahalbidetzen du. Adibidez, GNU C Liburutegia programa ez-libreetan erabiltzea baimenari esker, jende gehiagok erabiltzen ditu GNU sistema eragile osoa eta bere aldakera, hau da, GNU/Linux sistema eragilea.</para>

<para>Hedadura Txikiagoko Lizentzia Publiko Orokorrak erabilzailearen askatasuna gutxiago bastu arren, liburutegiarekin estekatutako programa baten erabilzaileari programa hori liburutegiaren bertso aldatu batean erabiltzeko askatasuna eta baliabideak ematen dizkio.</para>

<para>Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatza dituzu jarraian: arretaz irakurri zein den <quote>liburutegiak onartutako lan</quote>aren eta <quote>liburutegia erabiltzen duen lan</quote>aren arteko ezberdintasuna. Lehenengo lanak liburutegitik eratorritako kodea du; bigarren lana, aldiz, liburutegiarekin konbinatu
KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK

0. atala

Hedadura Txikiagoko Lizentzia Publiko Orokor honen (<quote>Lizentzia hau</quote> ere deitua) baldintzapean banatu daitekeela adierazten duen oharra jarri baldin badoin egoitza eskubideen jabeak software-liburutegi bati edo beste programe bati, lizentzia-kontratu hau aplikatuko zaio liburutegi edo programe horri. Lizentziadun oro adierazteko, <quote>zu</quote> erabiltzen da.</para>

Liburutegiaren zati bat daukan lana, bai kopia literalara, bai aldaketak dituen kopia, bai beste hizkuntza batera itzulitakoa. (Aurrerantzean, itzulpena <quote>aldaketa</quote> terminoaren sartuko da inongo mugari gabe.)

Liburutegiaren iturburu-kode osoa jaso bezala kopiatu eta banatu dezakezu edozein euskarritan, baldin eta kopia bakoitzari behar bezala eta ikusteko moduan jarraian bai aplikazio-gunearen eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezarri dagokion ohar guztien oso-osoik ustelan baditu; eta Lizentziaren kopia Liburutegiaren konpilazioa erabilteko erabiltzen diren script-ak


1. atala

Liburutegiaren iturburu-kode osaa jaso bezala kopia indar eta bakan batetik duen oharra ez dago eman aurkezpenaren ona, baldin eta kopia bakoitzari behar bezala eta ikusteko moduan jarraian bai aplikazio-gunearen eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezarri dagokion ohar guztien oso-osoik ustelan baditu; eta Lizentziaren kopia Liburutegiaren konpilazioa erabilteko diren script-ak

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Liburutegia kopiatu edo banatu dezakezu (edo Liburutegian oinarritutako lana, <link linkend="sect2">2. atalean</link> azaltzen den bezala) objektu-kodean edo forma exekutagarrian <link linkend="sect1">1.</link> eta <link linkend="sect2">2.</link> ataletako baldintzei jarraiki, baldin eta makina bidez irakurtzeko moduko iturburu-kode osoarekin batera banatzen baduzu, goiko <link linkend="sect1">1.</link> eta <link linkend="sect2">2.</link> ataletan biltzen diren baldintzak betez softwarea trukatzeko eskuarki erabiltzen den euskarian.</para>

Objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbidea baliokidea eskaintzeko iturburu-kodea banatzeko baldintza betetzen du, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburua kopiatzera.</para>

Programa batek Liburutegiaren zatietatik eratorri ez den edukia duenean, baina Liburutegiarekin lan egiteko diseinatua dagoean (harenkin konpilatuta edo estekatuta), <quote>Liburutegia erabiltzen duen lana</quote> deitzen zaio. Horrelako lanak, bakarka, ez dira Liburutegitik eratorritako lanak, eta, beraz, Lizentzia honen esparrutik kanpo daude.</para>

Hala ere, <quote>Liburutegia erabiltzen duen lana</quote> bat Liburutegiarekin estekatzen baduzu, exekutagarri bat sortzen du eta hori Liburutegiarekin eratorria da (Liburutegiarekin zatiai baititu), eta ez <quote>Liburutegia erabiltzen duen lana</quote>. Beraz, exekutagarria Lizentzia honen baitan sartzen da. <link linkend="sect6">6. atalean</link> exekutagarri horiek banatzeko baldintzak zehazten dira.</para>


Horrelako objektu-fitxategi batek zenbakizko parametroak, datu-egituraren diseinua eta gehigarriak, makro txikiak eta barneko funtzio txikiak (hamar leerro edo gutxiago lizura) soilik erabiltzen baditu, objektu-fitxategiaren erabilera mugatu gabe egongo da. Legalki lan eratorria den edo ez kontuan hartu gabe. (Objektu-kodea eta Liburutegiarekin zatiai dituzten exekutagarriak <link linkend="sect6">6. atalean</link> zehazten dira.)<para>

Bestela, lana Liburutegiaren eratorria bada, lanaren objektu-kodea <link linkend="sect6">6. ataleko</link> baldintzen pean banatu dezakezu. Lan hori duen edozein exekutagarri ere <link linkend="sect6">6. atalean</link> sartuko da, Liburutegiarekin zuzenean estekatuta dagoen edo ez kontuan hartu gabe.</para>

Goiko atalen salbuespen gisa, <quote>Liburutegia erabiltzen duen lana</quote> Liburutegiarekin konbina edo estekatu dezakezu Liburutegiarekin zatiai dituen lana sortzeko, eta lan hori nahiz duzun baldintzen arabera banatu
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Exekutagarri, behar den Liburutegia erabiltzen duen lanak exekutagarria kopiatzeko behar diren datu eta programa-utilitateak eduki behar ditu. Nolanahi ere, aparteko salbuespen gisa, banatzen den materialak ez dauka exekutatzeko erabiltzen den sistema eragilearen osagai nagusiekin (konpiladorea, nukleoa eta abar) banatu ohi den guzizia eman beharrik (iturburu nahiz bitar moduan), baldin eta osagaia bera ez bada exekutagarriarena batera banatzen.

Baliteke baldintza hori liburutegien jabeari buruz lizentzian ezartzen diren mugekin kontraesanean egotea (normalean ez dira sistema eragilearen batera etortzen). Kontraesan horrek esan nahi du ezin dituzula biak batera erabili banatzen duzun exekutagarri batean.

Liburutegian oinarritutako lana diren liburutegi-eginbideak elkarren ondoan jar ditzakezu liburutegi bakarrean, Lizentzia honetan aipatzen ez diren beste liburutegi-eginbide batzuen batera, eta horrelako liburutegi konbinatuak banatu ditzakezu, betiere Liburutegian oinarritutako lanaren eta beste liburutegi-eginbide batzuen banaketa bereizia onartzen bada, etxeko bi gauza hauek egiten badituzu: Liburutegian oinarritutako lana diren liburutegi-eginbideak elkarren ondoan jar ditzakezu liburutegi

Liburutegi konbinatuak Liburutegian oinarritutako lan berdinen kopiarekin banatu, beste inolako
liburutegi-eginbiderik sartu gabe. Goiko atalean zehaztutako baldintzen pean banatu behar da.

Liburutegi konbinatuan ohar nabermen bat jarri bere zati bat Liburutegian oinarritutako lana dela adierazi,
etako beraren konbinatu gabeko formatua non aurkitu daitekeen azaldu.
Debekatuta dago lizentzia honen baitan espresuki adierazitakoa bete gabe Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzeko. Beste era batean Liburutegia kopiatsu, aldatsu, azpilizentziatsu, estekatu edo banatzeko saio oro deusea izango da, eta Lizentzia honen baitan dauzkazun eskubideak automatikoki kendu egingo zaizkizun. Dena den, Lizentzia honen pean zuregandik kopiarik edo eskubideak jaso dituztenei ez zaizkie lizentziak kendukoa, baldintza guztiak betetzen dituzten bitartean.</para>


Liburutegia (edo Liburutegian oinarritutako edozein lan) birbanatzen duzun bakoitzean, hartzailak automatikoki jasotzen du emailearengandik Liburutegia kopiatsu, banatu edo aldatzeko jatorrizko lizentzia. Hemen ematen diren eskubideei dagokion, ezin diozu bestelako murriztapenik ezarri hartzailarei. Ez da zure ardurak hirugarrenei Lizentzia hau betearaztea.</para>

Epaitegi-ebazpen baten ondorioz edo patente-eskubidea urratu dela dioen salaketa baten ondorioz, edo beste edoak arrazoirengatik (ez bakarrik patente-gaiei dagokiena) Lizentzia honen baldintzekin bat ez datoz zen baldintzak ezartzen bazaizkizun, ez zaituzte Lizentzia honen baldintzak bete beharretik libratuko. Ezinezkoak bazaizu Lizentzia honekako baldintzak eta dagozkion beste betebehar batzuk betez banatzea, ezingo duzu Liburutegia inola ere banatu. Adibidez, patente-lizentzia batek ez balu onartuko zure bitartez zuzenean edo zeharka kopiak pasotzen dituztenek Liburutegia egile-eskubiderik gabe birbanatzea, patentea eta Lizentzia hau betetzeko modu bakarra Liburutegia ez banatzea litzateke. </para>

Atal honen zatiren bat baliogabea edo beteezina bada egoera bereziren batean, atalaren gainerako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</para>

Atal honen xedea ez da patenteak edo jabetza-eskubideak eskakizunak ez betetzera bultzatzea edo halako eskakizunen baliozkotasuna ukatzea; atal honen xede bakarra da software librearen banaketa-sistemaren zuzentasuna babestea, lizentzia publikoen bidez bideratzen baida. Sistema horren bain banatutako software ugariari ekarpen oparoa egin dio jende askok, sistema modu iraunkorrean aplikatuko delakoan. Egile/emailearen esku dago
erabakitzea beste sistemaren baten bidez banatu nahi duen edo ez, eta lizentziadun batek ezin du halako erabakirik inposatu.</para>

<para>Atal honek argi eta garbi utzi nahi du zer den Lizentziaren zatiaren orduan-batzuen orduan ezin duenak.</para>

<sect2 id="sect12" label="12">
<title>12. atala</title>

<para>Zenbait herrialdeetan Liburutegiaren banaketa edo/ eta erabilera mugatzen baldin badute patenteen edo copyrightdun interfazeez bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kantoan aztertuko, banaketa baztertu gabeko herrialdeetan edo horien artean soilik egin dadin. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzean idatzita egongo balitz bezala.</para>

<sect2 id="sect13" label="13">
<title>13. atala</title>

<para>Free Software Foundation-ek noizean behin Hedadura Txikiagoko Lizentzia Publiko Orokorren bertsio berrikusiaik edo berriak argitara ditzake. Bertsio berri horiek egungoaren antzekoak izango dira espirituz, baina arazo edo kezka berriei aurre egin beharko diete apez.</para>


<sect2 id="sect14" label="14">
<title>14. atala</title>


<sect2 id="sect15" label="15">
<title>BERMERIK EZA</title>

<para>LIBURUTEGIAREN LIZENTZIA DOAN EMATEN DENEZ, LIBURUTEGIAK EZ DU BERMERIK, LEGE APLIKAGARRIAK ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTEK ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA (quote)DAGOEN-DAGOENNEAN (quote) EMATEN DUTE INOLAKO
BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA. LIBURUTEGIAREN KALITATEARI ETA ERREN african DUARI DAGOKIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. LIBURUTEGIAREN AKATSIA IZANGO BALU, KONPONTZEKO EDO ZUZENTZEKO BEHARREKO ZERBITZU GUZTIEN KOSTUAN ZURE GAIN HARTU BEHARKO ZENUKE.</sect2>

<title>16. atala</title>

<para>LEGE APLIKAGARRIARIK EDO IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELAKO EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALEKO ESKUBIDEDUNARI EDU GOIAN BAIMENTZEN DEN BEZALOA LIBURUTEGIA BIRBANATU EDU ALDA DEZAKEEN BESTE ALDERDI BATI ERANTZUZKIZUNEN ESKATU EZ KALTEENGATIK, EZ LIBURUTEGIAREN ERABILERAREN EDO ERABILTZEKO EZGAITASUNAREN ONDORIOZ SOR LITEZKEEN KALTE OROK, BEREZI, GEHIARRI EDO ONDORIOIZKOENGATIK (BESTEAK BESTE, DATUAK GALTZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEK JASANDAKO GALERAK, EDO BESTE SOFTWARE BATEKIN LAN EGITEKO LIBURUTEGIAREN HUTS EGITEREN BAT), NAHIZ ETA ESKUBIDEDUNARI EDO BESTE NORBAIT HORRI KALTEA IZAN LITEZKEELA AURRETIK ABISATU IZAN.</para>
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<sect2 id="sect3" label="3">
<title>Section 3</title>

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Lizentzia hau Bertsio aldatua, Dokumentuaren" esaten denez, Dokumentu hau osorik
edo zati batean biltzen duen edozein lan adierazten da, hau da, kopia literalra, aldaketak dituena edo beste hizkuntza batera itzulitakoa.</para>


<para id="fdl-invariant"><quote>Azaleko testua</quote> testu zati laburrak dira eta Aurreko azaleko testu edo Atzeko azaleko testu gisa aipatzen dira <link linkend="fdl-document">Dokumentua</link> Lizentzia honen pean argitaratzen dela esaten duen oharrean zehazten dira Atal aldeazinen izenburrak.</para>

<para id="fdl-transparent"><link linkend="fdl-document">Dokumentu</link>aren kopia <quote>gardena</quote> makina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorrak erabiltzeko moduko formatuduna, zuzenean testu-editore arruntetik ikusi eta edita daitekeena, edo, pixeletan osatutako irudia bada, pintatzeko editore orokorrekin editatzeko moduko edo, markazia bada, markazki-editore oso erabilgarriezko editatzeko modukoak; horrez gain, testu-formateatzaileen sargai edo input gisa erabil daitekeena, edo testu-formateatzaileen sargai gisa onartzen duten formatuetako batera automatikoki iztul daitekeena. Beste ezen bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldaketak egiteko eragazpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiari <quote>opako</quote> deitzen zaio.</para>

<para id="fdl-cover-texts"><quote>Azaleko testua</quote> testuaren gorputza hasi aurretik, gehien nabarmenduta agertzen den lanaren tituluaren ondoan agertzen den testua. Berez titulu-orririk ez duten formatuetan egindako lanetan, <quote>Titulu-orririk</quote> esan nahi duena da, testuaren gorputza hari aurretik, gehien nabarmenduta agertzen den lanaren tituluaren ondoan agertzen den testua.</para>

<sect1 id="fdl-section2" label="2">KOPIA LITERALAK</sect1>

<para id="fdl-transparent"><link linkend="fdl-document">Dokumentu</link>aren kopia <quote>gardena</quote> makina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorrak erabiltzeko moduko formatuduna, zuzenean testu-editore arruntetik ikusi eta edita daitekeena, edo, pixeletan osatutako irudia bada, pintatzeko editore orokorrekin editatzeko moduko edo, markazia bada, markazki-editore oso erabilgarriezko edatzeko modukoak; horrez gain, testu-formateatzaileen sargai edo input gisa erabil daitekeena, edo testu-formateatzaileen sargai gisa onartzen duten formatuetako batera automatikoki iztul daitekeena. Beste ezen bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldaketak egiteko eragazpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiari <quote>opako</quote> deitzen zaio.</para>

<sect1 id="fdl-section2" label="2">KOPIA LITERALAK</sect1>

<para id="fdl-transparent"><link linkend="fdl-document">Dokumentu</link>aren kopia <quote>gardena</quote> makina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorrak erabiltzeko moduko formatuduna, zuzenean testu-editore arruntetik ikusi eta edita daitekeena, edo, pixeletan osatutako irudia bada, pintatzeko editore orokorrekin editatzeko moduko edo, markazia bada, markazki-editore oso erabilgarriezko edatzeko modukoak; horrez gain, testu-formateatzaileen sargai edo input gisa erabil daitekeena, edo testu-formateatzaileen sargai gisa onartzen duten formatuetako batera automatikoki iztul daitekeena. Beste ezen bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldaketak egiteko eragazpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiari <quote>opako</quote> deitzen zaio.</para>

<para id="fdl-cover-texts"><quote>Azaleko testua</quote> testuaren gorputza hasi aurretik, gehien nabarmenduta agertzen den lanaren tituluaren ondoan agertzen den testua. Berez titulu-orririk ez duten formatuetan egindako lanetan, <quote>Titulu-orririk</quote> esan nahi duena da, testuaren gorputza hari aurretik, gehien nabarmenduta agertzen den lanaren tituluaren ondoan agertzen den testua.</para>
baldintzarik gehitzen ez badiozu. Egiten edo banatzen dituzun kopietan ezin da erabili irakurketa edo kopiak egitea eragozten eta kontrolatzen duen inolako baliabide teknikorik. Nolanahi ere, kopiak egitearen truke ordaina jasotzea onartzen da. Kopia asko banatzen baduzu (hurrengo atalean zehazten da kopurua), <link linkend="fdl-section3">3. ataleko</link> baldintzak ere bete behar dituzu. </para>

<para>Goian azaldutako baldintza berdinen pean kopiak mailegutan ere utz ditzakezu, eta kopiak jendaurrean erakutsi ere bai.</para>
</sect1>

<sect1 id="fdl-section3" label="3">
<title>KANTITATE HANDIA KOPIATZEA</title>

<para>Goian azaldutako testuak luzeegiak badira modu irakurgarrian ipintzeko, zerrendako lehenak jarri behar dituzu azalean bertan (sartzen diren guztiak), eta hurrengo orrietan jarraitu besteekin.</para>

<para><link linkend="fdl-document">Dokumentu</link>aren 100 kopia <link linkend="fdl-transparent">Opako</link> argitaratzen edo banatzen badituzu, kopia Opako bakoitzarekin batera makinaz irakurtzeko moduko kopia <link linkend="fdl-transparent">Garden</link> eman behar duzu, edo bestela, kopia Opako bakoitzean edo bakoitzarekin batera ordenagailu-sare bateko helbide bat adierazi beharko duzu, edonork libreki atzi dezaekena eta Dokumentuaren kopia Garden osoa daukana, gehitutako materialik gabe, sare-erabilzaile arruntak anonimoki deskargatu ahal izateko doan eta sare-protokolo estandar publikoen bidez. Azken aukeraren bidetik jotzen baduzu, zentzuz eta zuhur jokatu behar duzu kopia Opako asko banatzen hasten zarenean, kopia Garden hori adierazitako kokalekuaren urtebetean gutxienez erabilgarri eta atzigarri egongo dela segurtatzeko zuk edizio horren azken kopia Opako (zuzenean edo zure agente edo xehekarien bidez) publikoari banatzen diozunetik kontatzen hasita.</para>

<para>Bestalde, <link linkend="fdl-document">Dokumentu</link>aren kopiak kantitate handian birbanatzen hasi aurretik, autoreekin harremanetan jar zaitzeko eskatzen zaizkion behar du, kopia Dokumentuaren bertsio eguneratua eman ahal izan diezazuten.</para>
</sect1>

<sect1 id="fdl-section4" label="4">
<title>ALDAKETAK</title>
<para><link linkend="fdl-document">Dokumentu</link>aren <link linkend="fdl-modified">Bertsio aldatua</link> kopiatu eta banatu dezakezu baldin eta hemen goiko <link linkend="fdl-section2">2</link> eta <link linkend="fdl-section3">3</link> ataleako baldintzak betetzen badituzu, kontuan izanik betiere Bertsio aldatua Lizentzia honen pean banatu behar duzu, Bertsio aldatua izanik Dokumentuaren funtzioa beteko duena, eta, beraz, Bertsio aldatua banatzeko edo aldatzeko baimena eman behar diozuela kopia bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertsio Aldatuan:</para>
</sect1>
Titulu-orri an (eta azaletan, azalik badu) Dokumentuarena eta aurreko bertsioa ez den beste edozein titulu bat erabili behar duzu (aurreko bertsiorik badago, Dokumentuaren Historiaren atalean zerrendatuta egongo da). Aurreko bertsio horietako baten titulu bera erabil dezakezu, baldin eta jatorrizko argitaratzailak horretarako baimena ematen badu.</para>
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</listitem>

</para><link linkend="fld-title-page">Titulu-orri</link>an, autore gisa, <link linkend="fld-modified">Bertsio aldatu</link>an aldaketak egin dituen perso na edo erakunde baten edo gehiagoren izena jarri behar duzu, eta, horrekin batera, <link linkend="fld-document">Dokumentu</link>aren bost egile nagusien izena gutxienez (eta bost baino gutxiago badira, guztiena).</para>
</listitem>

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</listitem>

</para><link linkend="fld-document">Dokumentu</link>aren copyright-ohar guztiak gord e behar dituzu.</para>
</listitem>

</listitem>

</para>Zure aldaketei dagokien copyright-oharra gehitu behar duzu beste copyright-oharren ondoan.</para>
</listitem>

</listitem>

</para>Copyright-oharen jarraian, lizentzia-ohar bat ipini behar duzu, jendeari baimena emateko <link linkend="fld-modified">Bertsio aldatua</link> erabil dezan Lizentzia horren baldintzen pean, beheko Eranskinean azaltzen den bezala.</para>
</listitem>

</listitem>

</listitem>

</para>Lizentzia-ohar horretan <link linkend="fld-document">Dokumentu</link>aren lizentzia-oharrean adierazitako <link linkend="fld-invariant">Atal aldaezin</link> eta jarri beharreko <link linkend="fld-cover-texts">Azaleko testu</link> guztien zerrenda gorde behar duzu.</para>
</listitem>

</listitem>

</para>Lizentzia honen kopia ere, aldaketarik gabe jarri behar duzu.</para>
</listitem>

</listitem>

</para>Historia izeneko atala gorde behar duzu, baita bere titulua ere, eta gutxienez <link linkend="fld-modified">Bertsio aldatuaren</link> izenburua, urtea, autore berriak eta argitaratzailea aipatuko
dituen elementu bat gehitu behar diozu, <link linkend="fdl-title-page">Titulu-orri</link>an agertzen den bezala. <quote>Historia</quote> izeneko atalak ez badago <link linkend="fdl-document">Dokumentu</link>an, zeuk sortu beharko duzu, Dokumentuaren titulua, urtea, autoreak eta argitaratzailea adierazteko Dokumentuaren Titulu-orrian agertzen den bezala, eta, gainera, Bertso aldatua deskribatzeko beste elementu bat gehitu beharko duzu aurreko esaldian azaldutako moduan.</para>

</listitem>

</listitem>

</para>Dokumentuaren kopia <link linkend="fdl-transparent">Gardena</link> publikoki atzitzeko <link linkend="fdl-document">Dokumentu</link>an ematen den sare-helbidea (helbiderik ematen bada) gorde behar duzu, eta, era berean, Dokumentuaren oinarri izan diren aurreko bertsoentzat ematen diren sare-helbideak ere bai. Helbide horiek <quote>Historia</quote> atalean sar daitezke. Sare-helbideak ez dira nahitaez jarri behar, Dokumentua bera baino gutxienez lau urte lehenago argitaratutako lanari dagozkionak baldin badira, edo horretarako baimena ematen badu bertsioaren jatorrizko argitaratzaileak.</para>

</listitem>

</listitem>

</para>Eskertza<quote>Entzako</quote> izeneko ataletan, atalen titulua gorde behar da, eta ataleko eskertza edota eskaitea bakoitzean egileak darabilen gai eta tonua errespetatu behar dira.</para>

</listitem>

</listitem>

</para>Errespetatu <link linkend="fdl-document">Dokumentu</link>aren <link linkend="fdl-invariant">Atal aldaezin</link> guztiak, testuak eta tituluak batere aldatu gabe. Atal-zenbakiak edo haien baliokideak ez dira atalaren tituluaren zatitza hartzen.</para>

</listitem>

</listitem>

</para>Ezabatu <quote>Oniritziak</quote> titulua duen atala gehi dezakezu, baldin eta zure <link linkend="fdl-modified">Bertsio aldatu</link>ari buruz alderdiek emandako oniritziak soilik biltzen badira, eta ez beste ezer --
adibidez, adituek egindako ikuskatzea edo erakunde batek testua estandartzat onartu duela, eta abar--. 

Geihienez bost hitz dituen pasartea gehi dezakezu link kendenda "fdl-cover-texts" Aurreko azaleko testu(link) gisa, eta gehienez 25 hitzeko pasartea link kendenda "fdl-cover-texts" Atzeko azaleko testu(link) gisa link kendenda "fdl-modified" Bertso aldatu(link)aren link kendenda "fdl-cover-texts" Azaleko testu(link) en zerrendaren bukaeran. Aurreko azaleko testu bakar bat eta Atzeko azaleko testu bat gehi daiteke entitate baten bidez (edo entitate batek egindako egokitzapenen bidez). Dagoeneko link kendenda "fdl-document" Dokumentu(link) ak azaleko testuak baldin badaukoa azal berarentzat, aurretik zuk edo zu ordezkatzen zaituen entitateak gehitutakoa, ezingo duzu beste testurik gehitu, baina nahi izanez gero, lehendik dagoena ordeztu dezakezu, testu zaharra gehitu zuen argitaratzaileen baimen esplizitua baldin baduzu.

Gehienez bost hitz dituen pasartea gehi dezakezu link kendenda "fdl-document" Dokumentu(link)aren autoreak (edo autoreek) eta argitaratzaileen (edo argitaratzaileen) ez dute baimen ematen hainen izenak publizitatean erabiltzeko edo link kendenda "fdl-modified" Bertso aldatu(link)en oniritzia eragiteko edo adierazteko

DOKUMENTUAK KONBINATZEA

Lizentzia honen pean argitaratutako beste dokumentu batzuekin konbina dezakezu link kendenda "fdl-document" Dokumentu(link), goian link kendenda "fdl-section4" 4. atalean(link) biltzen diren baldintzak betetzen badituzu eta bateratzean jatorrizko dokumentuak link kendenda "fdl-invariant" Atal aldaezin(link) guztiak sartzen badituzu aldatu gabe eta guztiak Atal aldaezin gisa zerrendatuta zure lan konbinatuaren lizentzia-oharrean.


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</para>
</sect1>

<sect1 id="fdl-section7" label="7">
<title>LAN INDEPENDENTEAK GAINERATZEA</title>
<para><link linkend="fdl-document">Dokumentua</link> edo dokumentuaren eratorriak beste dokumentu edo lan bereizi batzuekin batera elkartzea --biltegi-bolumen batean edo banaketarako euskarri batean-- ez da Dokumentuaren <link linkend="fdl-modified">Bertsio aldatu</link>tat jotzen bere osotasunean, non eta ez den konpilazioarenagatik konpilazio-copyrightik eskatzen. Horrelako konpilazioei <quote>agregazio</quote> esaten zaie, eta Lizentzia hau ez zaie aplikatuko Dokumentuarekin batera konpilazioan sartutako gainerako lanei, konpilazioan sartu izanagatik bakarrik, baldin eta ez badira Dokumentuaren lan eratorriak. <link linkend="fdl-cover-texts">Azaleko testu</link>ari dagokion <link linkend="fdl-section3">3. ataleko</link> betebeharra Dokumentuaren kopia hauei aplikatzerik baldin badago, Dokumentuoa agregazioaren barnean biltzen duten azaletan bakarrik jar daitezkeAzaleko testuak Dokumentua agregazio osoaren laurdena baino txikiagoa bada. Bestela, agregazio osoa inguratzen duten azaletan jarri behar dira testu horiek.</para>
</sect1>

<sect1 id="fdl-section8" label="8">
<title>ITZULPENA</title>
</sect1>

<sect1 id="fdl-section9" label="9">
<title>AMAIERA</title>
<para>Lizentzia honen baitan espresuki adierazitakoa betetzen ez bada, debekatuta dago <link linkend="fdl-document">Dokumentua</link>aren <link linkend="fdl-section4">4. ataleko</link> baldintzen pean banatu ditzakezu. <link linkend="fdl-invariant"> Atal aldaezin</link>en ordez itzulpena bakarrik jartzeko, copyright-jabeken baimena behar da,aina Atal aldaezin batzuen edo guztien itzulpenak jar ditzakezu Atal aldaezin horien jatorrizko bertsoa edo bertsoak batera. Lizentzia honen itzulpena ere jar dezakezu, baldin eta ingelesezko jatorrizko bertsoa bere edo jatorrizko bertsoak baldin baduzu. Lizentzia honen itzulpena eta jatorrizko ingelesezko bertsoa bat ez badatoz, jatorrizko bertsoak balioko du.</para>
</sect1>

<sect1 id="fdl-section10" label="10">
<title>LIZENTZIA HONEN ETORKIZUNEKO BERRIKUSPENAK</title>
</sect1>

<para>Lizentziaren bertsio bakoitzak bertsio-zenbaki desberdindua dauka. <link linkend="fdl-
Dokumentuaren zehaztun bada Lizentzia honen bertsio-zenbaki jakin bat <quote>edo bertsio berriago bat</quote> dagokiola, zehaztutako bertsioko baldintzak edo Free Software Foundation-ek argitaratutako (ez zirriborro gisako) bertsio berriago bateko baldintzak betetzeko aukera izango duzu. Dokumentuak ez badu Lizentzia honen bertsio-zenbakirik zehazten, Free Software Foundation-ek argitaratutako bertsioetako edozein aukeratu dezakezu (baina ez zirriborro gisa argitaratutakoa).

</sect1>

<sect1 id="fdl-using" label="none">
<title>Eranskina</title>
<para>Zuk idatzitako dokumentuan Lizentzia hau erabilteko, jar ezazu Lizentziaren kopia bat dokumentuan, eta titulu-orriaren jarraian, berriz, copyrighta eta lizentzia-ohar hauek:</para>

<blockquote>
<para>Copyright URTEA ZURE IZENA.</para>
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</blockquote>

<para><link linkend="fdl-invariant">Atal aldaezin</link>ik ez baduzu, idatzi <quote>Atal aldaezinik gabe</quote> aldaezinak zein diren adierazi beharrean. Ez baduzu <link linkend="fdl-cover-texts">Aurreko azaleko testu</link> <link linkend="fdl-cover-texts">Aurreko azaleko testurik gabe</quote> jarri beharrean, eta gauza bera <link linkend="fdl-cover-texts">Atzeko azaleko testu</link>ekin.</para>

<para>Zure dokumentuan programa-kodearen adibide ez-tribialik baldin badago, adibide horiek paraleloan argitaratzea gomendatzen dizugu eta zeuk aukeratu software librearen lizentzia eman nahi diezun, <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html">GNU Lizentzia Publiko Orokorra</ulink> lizentzian esaterako, software libre gisa erabil ahal izan daitezzen.</para>
</sect1>
</article>
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Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1  39019

brki szabadon módosíthatja a szoftvert, vagy felhasználhassa a rseit j szabad programokban; s hogy msok megismerhessék ezt a lehetséget.</para>

Ez a licenc, a Lesser General Public License (LGPL) vonatkozik a Free Software Foundation speciálisan kialakított szoftvercsomagjaira - jellemzően programknyvtrakra -, illetve minden olyan szoftvercsomagra, amelynek szerzje gy dnt, hogy ezt használja a szerző jog megjelölésével. n is használhatja, de azt javasoljuk, az alábbi magyarázatok alapján elszí gondolja t, hogy ez a licenc, vagy a szoksos GPL (GNU General Public License) szm-é jobb ketvent stratginak.</para>

A szabad szoftver megjells nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencek elhanyagolják a szabad szoftver módosításaikat, míg a LGPL licencek megmeleg magyarázatot írnak a módosításokról.

A szerző jogainak védelmében korlátozásokat kell hozni, amelyek megtiltják, hogy brki módosíthassa ezeket a jogokat msktl, vagy brki mst ezekrl val lemondása knyszertsen. Ezek a megszorítható bizonyos felelősségeket jelentenek azok szmra, akik a szoftver mssolait terjesztik vagy mdostíjik. 

Ha valaki pldul egy ilyen programknyvtr mssolatait terjeszt, akkor ingeren vagy bizonyos sszeg fejben, a vonatkoz minden jogot tovbb kell adnia a fogad feleknek. Biztostani kell tovbb, hogy megkapják vagy legalábbis megkaphassák a forraskdot is. s a jelen dokumentumban szerepl licencfelteleket is el kell juttatni, hogy tiszttan legyenek a jogaikial.</para>

A jogok vdelme kt lpsbl ll: (1) a programknyvtr szerő jogainak vdelmbl s (2) a jelen licenc bizottsbl, amely jogalapot biztost a programknyvtr msolrsra, terjesztésre s/vagy mdostsra.</para>

Az egyes terjeszté vdelmén vilgoss akarjuk tenni: a jelen szabad programknyvtrra nincs jtl. Ha a programknyvtrat mddostt ik tobbadik, akkor mindenkinke, aki a mdostott vltozatot kapja, tudnia kell, hogy az nem az eredeti, gy a msok ital okozott hibknak nem lehet hssza az eredeti szerz hnevre.</para>

A legtbb GNU szoftverre, belterve egyes programknyvtrakat is, a norml GNU General Public License (GPL) felttelei vonatkoznak. Ez a licenc, a GNU Lesser General Public License (LGPL), meghatározott programknyvtrakra vonatkozik, s elgg eltr a norml GNU General Public License-tl. Ezt a licencet azt alkalmazzuk bizonyos programknyvtrakhoz, hogy engedélyezhessék a beptsket nem szabad programokba is.</para>

Amikor egy programot sszeszerkesztenek egy programknyvtalal, fggetlenl attl, hogy statikusan vagy egy megosztott programknyvt hasznalataval, a kett kombinacija jogilag kzs munknak, az eredeti programknyvtr leszmazottjnak sznt. A norml GNU General Public License (GPL) felttelek ezt csak akkor engedi az ilyen sszeszerkesztst, ha a teljes kombinci is megfelel a szabadsg feltteleinek. A GNU Lesser General Public License (LGPL) azonban kevbs szigorat rendelkezik ms kdnak a programknyvtalal sszeszerkesztstrl.</para>

General Public License-nek hvjuk ezt a licencet, mert kevesebb tesz a felhaszn szabadsgnak vdelme rdekben, mint a norml GNU General Public License (GPL). Szintnl kevesebb elnyt
nyit a tbbi szabadszoftver-fejlesztnek a versenytrs, nem szabad programokkal szemben. Az ilyen elny miatt hasznljuk magunk is a norml GNU General Public License-t (GPL) szmos programknyvtrhoz. Nhny specilis esetben azonban a GNU Lesser General Public License (LGPL) hasznlata elnyseb.</para>

<para>Ritkn ugyan, de pldul elfordulhat, hogy igy van egy meghatrozott programknyvtnak a lehet legszlesebb krben trtn elterjesztsre, hogy az vlhasszon a de facto szabvnny. Ehhez engedlyezni kell, hogy a nem szabad programok is hasznlhaiss a programknyvtrat. Gyakoribb eset az, hogy egy szabad programknyvvr ugyanazt a feladatot ltja el, mint a szles krben hasznlt nem szabad programknyvtrak. Ebben az esetben igen kevs elny szmazik a programknyvvr kizrlag szabad szoftverekben felhasznlsra val korltoznak, teht ilyenkor is az LGPL feltteleit hasznljuk.</para>

<para>Megint ms esetekben egy adott programknyvvr nem szabad programokban felhasznlnak engedlyezse azt jelenti, hogy tbb ember hasznlat szabad szoftvert. Pldul a GNU C Programknyvvr felhasznlna nem szabad programokban azt jelenti, hogy sokkal tbb ember hasznlatja a teljes GNU opercis rendszert, illetve annak vltozt, a GNU/Linux opercis rendszert.</para>

<para>Br az LGPL kevsb vdi a felhasznlnk szabadsgt, azt azonban garantlja, hogy a Programknyvvrnal sszeszerkesztt program felhasznlnja jogosult legyen a program hasznlatra a Programknyvvr mdostott vltozatval is.</para>

<para>A mslsra, terjesztsre s mdostsra vonatkoz pontos szablyok s felttelek az albbiakban olvashat. Nagyon fontos megklnbztetni a <quote>programknyvtron alapul munka</quote> s a <quote>programknyvtrat felhasznln munka</quote> fogalmakat. Az elbbi a programknyvtrbl szmaz kdot tartalmaz, mg az utb bi a futshoz ignyli a programknyvtrat.</para>

</sect1>

<sect1 id="terms" label="none">
<title>A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELETTELEK S KIKTSEK</title>

<sect2 id="sect0" label="0">
<title>0. szakasz</title>

<para>Ez a licenc minden olyan programknyvtra vagy egyb programra vonatkozik, amelyhez a szerzi jog tulajdonosa vagy egyb jogosult fl azt a megjegyzst fzte, hogy az a jelen LGPL-ben (ms nven a <quote>jelen Licencben</quote>) foglaltak alapjn terjeszthet. Minden engedlyezs cmzettj <quote>n</quote>. </para>

<para><quote>Programknyvtr</quote> alatt fggvnyek s/vagy adatok olyan gyjtemnyt rtjk, amely gyjtemnyt rtja, hogy kivitelezhet a leggyorsabban. A programknyvtron alapul munka</quote> szels, hogy az a jelen LGPL-ben (ms nven a <quote>jelen Licencben</quote>) fogalmakat. Az elbbi a programknyvtrbl szmaz kdot tartalmaz, mg az utb bi a futshoz ignyli a programknyvtrat.</para>

</sect2>
</sect1>
jelenti, valamint minden hozz tartoz illesztdefincis fjlt, valamint a programknyvt forrtdst s teleptst szablyoz parancsfjlokat.</para>

A jelen Licenc a msolson, terjesztsten s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Programknyvtrat hasznl program futtatsa nincs korlozva, illetve a program kimenetre is csak abban az esetben vonatkozik ez a szablyozs, ha az tartalmazza a Programknyvtron alapul munka egy rszlett (fggetlenl attl, hogy a Programknyvtrat hasznlk-e egy eszkzben a megrsh). Az, hogy ez igaz-e, a Programknyvtr, illetve a Programknyvtrat hasznl program mkdstl fgg.</para>

</sect2>

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</sect2>

Felszmthat dj a msolat fizikai tovbbtsa fejben, illetve ellenszolgtats fejben garancilis tmogats is biztosthat.</para>

</sect2>

A Programknyvtr forrskdja mdosts nlkl msolhat s brmely adathordozn terjeszthet, feltve, hogy minden egyes pldynon pontosan szerepel a megfelel szerzi jogi megjegyz, illetve a garanciavllals elutasza; rintetlenl kell hagyni minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

</sect2>

A Programknyvtr forrskdja mdosts nlkl msolhat s brmely adathordozn terjeszthet, feltve, hogy minden egyes pldynon pontosan szerepel a megfelel szerzi jogi megjegyz, illetve a garanciavllals elutasza; rintetlenl kell hagyni minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

</sect2>

A Programknyvtr mslatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdost ezutn az a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

</sect2>

A Programknyvtr mslatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdost ezutn az a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

</sect2>

A teljes munkt olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rsze licencd metamysen hozzfrhet legyen, a jelen Licencnek megfeleljen.</para>

</sect2>

Ha a mdost Programknyvtr egy rsze egy olyan fggvnyre vagy adattbla hivatkozik, amelyet egy, az adott rszt hasznl alkalmazsprogram biztost, s nem egy tudott argumentumrl van sz annak meghvsakor, akkor mindent el kell kvetni annak rdekben, hogy amennyiben az alkalmazs nem biztostja a szkses fggvnyt vagy adattblt, az adott rsz akkor is mkdkpes maradjon, s vgehajtsa, amit csak a mkdsbl addan elvgezhet.</para>

Ha a mdost Programknyvtr egy rsze egy olyan fggvnyre vagy adattbla hivatkozik, amelyet egy, az adott rszt hasznl alkalmazsprogram biztost, s nem egy tudott argumentumrl van sz annak meghvsakor, akkor mindent el kell kvetni annak rdekben, hogy amennyiben az alkalmazs nem biztostja a szkses fggvnyt vagy adattblt, az adott rsz akkor is mkdkpes maradjon, s vgehajtsa, amit csak a mkdsbl addan elvgezhet.</para>

(Ha pldul egy programknyvtr egy fggvnye ngyzetgyk szmt, akkor annak a clja teljesen jld definiilt, az alkalmazstl fggetlenl. Vagyis a 2d alpont azt kveteli meg, hogy a fggvny szmra az alkalmazs ital biztosttt fggvny vagy adattbla opcionlis legyen: ha az alkalmazs nem biztost illet, a ngyzetgyk fggvnynek akkor is ngyzetgykkel kell tudnia szmtani.)</para>
Ezek a feltételek a mdostott munkra, mint egysre vonatkoznak. Ha a munka azonosíthat rszei nem a Programknyvtron alapulnak s fgytlen munkknt elklnten azonosíthatak, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, amennyiben azok kln munkaknt kernek terjesztstre. Viszont, ha ugyanez a rsz az egys rszeknt kerl terjesztstre, amely a Programknyvtron alapul munka, akkor az egys munka terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti a munka egysre tekintet nkll arra, hogy melyik rszt ki rt.</para>

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkra; a cl az, hogy a jogok gyakorlsa szablyozva legyen a Programknyvtron alapul illetve a gyjtemnyes munk terjesztstre esetben.</para>

Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a Programknyvtron alapul munkval) kzs adathordozn vagy adattroln szerepeltsete nem jelenti a jelen szablyok rnnyessgt azokra is.</para>

Miutn a mdosts megtrtnt, az visszafordthatatlan az adott pldnyra vonatkozoz, vagyis a GNU General Public License fog vonatkozni annak sszes tovbbi msolatra s az abbl a pldnybl szrmaztatott sszes munkra. </para>

Ez a lehetsg akkor hasznos, ha a Programknyvtr kdjnak egy rszt egy olyan programba akarja illeszteni, amelyik nem programknyvtr.</para>

A Programknyvtr (vagy a programknyvtron alapul munka a Programknyvtr megfelelen) mshat s terjeszthet trgykd vagy vghrjthat kd formjban az az anyagot, amelynek terjesztse az szakaszban foglaltak szerint, feltve, hogy a teljes, gp ltal rtelmezhet forrskd ksr az trgykd terjesztstre alapul a <link linkend="sect1">1.</link> és a <link linkend="sect2">2. </link> szakaszban foglaltak szerint, jellemzen szoftverterjesztstre hasznlt adathordozon. </para>

Ha a trgykd terjesztse azt jelenti, hogy lehetsg van lemsolni egy meghatrozott helyr, akkor ez teljesti a forrskd terjesztstre vonatkoz ktelezettsgt, br a harmadik felek nem ktelesek a forrskdot a trgykddal egytt lemsolni.
Az olyan Programknyvtrat, amely nem tartalmazza a Programknyvtr semmilyen rsznek leszrmazottját, de 
gy kskzt, hogy a Programknyvtrral egyttmkdn, hozzfordts vagy hozzszerkeszts tjn, <quote>Programknyvtrat használ 
munknak</quote> nevezzk. Az ilyen munkak elszigetelten nem szmtanak a Programknyvtr szrmaztatott munkjnak, 
gy a jelen Licenc hatlyn kv esnek. </para>

Egy, a <quote>Programknyvtrat használ munka</quote> s a Programknyvtr szszeszerkesztse azonban egy 
olyan vgreajhatfajlt eredmnyez, amelyik a Programknyvtr szrmaztatott munkja (hiszen tartalmazza a 
Programknyvtr rszeit), nem pedig a <quote>Programknyvtrat használ munka</quote>. A vgreajhatfajlra teht 
vonatkozik a jelen Licenc. A <link linkend="sect6">6. szakasz</link> tagalja az ilyen vgreajhatfajlok terjesztsek 
feltteleit. 

Ha egy <quote>Programknyvtrat használ munka</quote> egy olyan fejlcifjl anyagt használja, amelyik a 
Programknyvtr rsze, akkor a munka trgykdja lehet a Programknyvtr szrmaztatott munkja, akkor is, ha maga a 
forrskd nem az. Az, hogy ez igaz-e, klszen fontos, ha az adott munka sszeszerkeszthet a Programknyvtr nlkl is, vagy 
ha a munka maga is egy programknyvtr. Azt, hogy ez mikor igaz, a trvny nem szablyozza pontosan. 

Ellenkez esetben, ha a munka a Programknyvtr szrmaztatott munkja, akkor a trgykdja terjeszthet a <link 
linkend="sect6">6. szakasz</link> feltteleinek megfelelten. A munkt tartalmaz vgreajhatfajlok szintn a <link 
linkend="sect6">6. szakasz</link> hatlya al esnek, akkor is, ha nincsenek ksvetlenl a Programknyvtrtral 
sszeszerkeszvte. 

A fenti szakaszok kivteleknt egy, a <quote>Programknyvtrat használ munka</quote> egyesthet vagy 
sszeszerkeszthet a Programknyvtrral, hogy ltrejjjn egy olyan munka, amely tartalmazza a Programknyvtr rszeit, s az 
ilyen munka terjeszthet az n Ital vlasztott felttelek szerint is, feltve, hogy ezek a felttelek megingedik a munka 
szabad mdostst a vsr1 sajt hasznlatra s az ilyen mdostsok hibakeressre szolgln visszafejtt. 

A munka minden egyes pldnyn megfelelen jelezni kell, hogy a Programknyvtr használja, s hogy 
ahasznlatot a jelen Licenc szablyozza. Mellkni kell a jelen Licenc egy plnyt. Ha a munka vgreajhts kben szerzi 
jogi megjegyzseket jelent meg, akkor ezek kzt szerepelnie kell a Programknyvtr szerzi jogi megjegyzsek is, 
valamiint egy hivatkoznak, amely a felhasznlt a jelen Licenc egy plnyhoz irnytja. Tovbb az albbiak egyik 
biztostani kell: <orderedlist numeration="loweralpha"> 

A munka mell mellkeli kell a Programknyvtr teljes, gppel olvashat forrskdjt, jelezve, hogy a
Egy megfelel megosztott Programknyvvr mechanizmus használata a Programknyvvrval sszeszerkesztshoz. Megfelel mechanizmus az olyan, amely (1) futsi idben a programknyvvr egy, mr a felhaszn szmtprendszer megahak po nyasztal pliny szalatina, nem pedig bemosolja a programknyvvr egyes fggvnyeit a vgrehajthat fjbna, tovbb (2) megfelel mdkik a programknyvvr mdostott vlozatval is, ha a felhaszn egy olyat telept, felte, hogy a mdostott verzi interfse kompatibilis azzal a verziival, amelyikkel a munka kszlt.

A munkhoz egy legalbb hrom vig rvnyes rsos ajnlat mellkelse, hogy ugyanazon felhasznl szmra a <link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztostja, nem nagyobb djrt, mint a jelen terjeszts dja.

Vgrehajthat fjl esetben a <quote>Programknyvvrat hasznl munka</quote> elvrt formjnak tartalmaznia kell minden adatot s segdprogramot, amelyre szksg van a bellk szrmaz vgrehajthat fjl elltshoz. Specilis kivetlknt a terjesztett anyagoknak nem kell semmi olyat tartalmaznia, amelyek norml esetben azon opercis rendszer f rszeivel (fordt, kernel stb.) egytt kerlnek terjesztsre (akr forrskdnkt, akr binris formban), amelyen a vgrehajthat fjl futni fog, kivve, ha a komponens maga a vgrehajhat fjlal egytt rkezik.

Elfordulhat, hogy ez a kvetelmny ellentmond ms szellemi tulajdont kpez programknyvvr licencorltozsainak, amelyek norml esetben nem jn az opercis rendszer mell. Az ilyen ellentmonds azt jelenti, hogy nem hasznhatja azokat s a Programknyvvrat egytt egy terjeszteni kvnt vgrehajthat fjlban.
<orderedlist numeration="loweralpha">
  <listitem>
    <para>Az egyestett programknyvtr mell mellkeli a Programknyvtron alapul ugyanazon munkt, amely nincs egyestve semmilyen ms programknyvtr rszeivel. Ezt a fenti rszek feltteleinek megfelelen kell terjeszteni.</para>
  </listitem>
  <listitem>
    <para>Megfele figyelmeztetst alkalmaz az egyestett programknyvtr mell a tnyrl, hogy ez rszben a Programknyvtron alapul munka, s elmagyarzza, hogy hol tallhat ugyanazon munka nem egyestett formban.</para>
  </listitem>
</orderedlist>

<sect2 id="sect8" label="8">
  <title>8. szakasz</title>
  <para>A Programknyvtrat csak a jelen Licencben lertaknak megfelelen szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon val msols, mdosts, terjeszts s allicencbe ads rsnytelen, s azonnal rsnyteleni a dokumentumban biztostott jogosultsgokat. Mindazonlt azok, akik aLicencet megszegtl kaptak plnyokat vagy jogokat, tovv gyakorolhatjik a Licenc Ittal meghatrozott jogaikat mindaddig, amg teljes mrtkben megfelelnnek a Licenc feltteleinek.</para>
</sect2>

<sect2 id="sect9" label="9">
  <title>9. szakasz</title>
  <para>Nem ktelez elfogadnia ezt a szablyozst, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad jogokat a Programknyvtr vagy a szrmaztatott munkk terjesztsre s mdostsra. Ezeket a cselekedetekeket a trvny bneti, ha nem a jelen szerzi jogi szablyozs keretei kzzt ttrnnek. Mindezek miatt a Programknyvtr (vagy a Programknyvtron alapul munka) terjesztse vagy mdosta a jelen dokumentum szablyainak, s azon bell a Programknyvtr vagy a munka mdosta, msolsra vagy terjesztsre vonatkoz sszes felttelnek elfogadst jelenti.</para>
</sect2>

<sect2 id="sect10" label="10">
  <title>10. szakasz</title>
  <para>Minden alkalommal, amikor a Programknyvtr (vagy az azon alapul munka) tovbbadja trtnik, a Programknyvtrat megkap szemly automatikusan hozjut az eredeti licencutajdonostl szrmaz licenchez, amely a jelen szablyok szerint biztostja a jogot a Programknyvtr msolsra, terjesztsre, szerkesztshez felhasznlsra s mdostsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flne az itt megadott jogait. A Programknyvtr tovbbadj nem felels harmadik szemlyekkel betartatni a jelen szablyokat.</para>
</sect2>

<sect2 id="sect11" label="11">
  <title>11. szakasz</title>
  <para>Ha brsgi hatrozat, szabadalomsrts vleme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredinnyekpp), amelyek
ellenteseiek a jelen felttelekkel, az nem menti fel a terjeszt a jelen felttelek figyelembevtele all. Ha a terjeszts nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyettes betartstval, akkor tilos a Programknyvr terjesztse. Ha pled egy licencszabadalom nem engedi meg egy programknyvr jogdj nikli tovbbterjesztst azok szmra, akik kzvetve vagy kivetlenl megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felteltnek, az, hogy eill a programknyvr terjesztstl.</para>

<para>Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz fennmarad rszt kell alkalmazt, egyb esetekben pedig a szakasz egze alkalmazand.</para>

<para>Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnzzn brkit is; mindssze meg szeretn vdeni a szabad szoftver terjesztst rendszernek egysgt, amelyet a szabad kreadst szabloyoz felttelrendszerrek teremtenek meg. Sok ember nagymrtkben jrut hozz az e rendszer keretben terjesztett, klnle szoftverekhez, s szmt a rendszer kivetkezetet alkalmazsa; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendszer szerint is kzz kvnja-e teni, s a licencet kapk ezt nem befolysolhatj.</para>

<para>E szakasz clja, hogy pontosan tisztzza azt, ami elgondolsunk szerint a jelen licenc tbbi rsznek a kivetkezmnye.</para>

<sect2 id="sect12" label="12">
<title>12. szakasz</title>

<para>Ha a Programknyvr terjesztse s/vagy hasznlata egyes orszgokban nem lehetsges akr szabadalmak, akr szerzi jogokkal vdett felletek miatt, akkor a Programknyvr szerzi jogainak eredeti tulajdonosa, aki a Programknyvrat ezen szabloyoz alapin adja krze, egy explicit fdrajzi megktst adhat a terjesztsre, s egyes orszgokat kizhat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megktst is tartalmazza, ugyangy, mintha az a szvegben lenne lerva.</para>

<sect2 id="sect13" label="13">
<title>13. szakasz</title>

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<para>A dokumentum minden vltozata egy megklnbztet verziszmmal elltva jelenik meg. Ha a programknyvr szerzi jogi megjegyzsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik verzi alkalmazsa.</para>

<sect2 id="sect14" label="14">
<title>14. szakasz</title>

<para>A Programknyvrat ms szabad szoftverbe, amelyek szerzi jogi szabloyozsa klnbzik, csak akkor ptheti be, ha a szerztl erre engedlyt szerzett. Abban az esetben, ha a programknyvr szerzi jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell nmi; nha kivtelt tesznnk. A dnts a kvetkez ktcl
A szemelt tartozott fog trtnni: megmaradjon a szabad szoftveren alapul munkk szabad llapota, valamint segítse el a szoftver jafelhasznlnst s megosztst.</para>

</sect2>

<sect2 id="sect15" label="15">
<title>GARANCIAVLLALS HINYA</title>
</sect2>

<para>MIVEL A JELEN PROGRAMKNYVTR HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMKNYVTRHOZ A GARANCIA BIZTOSTST. AMENNYiben A SZERZI JOGOK TULAJDONOSAI RSBN MSKNT NEM NYILATKOZNAK, A PROGRAMKNYVTR A <quote>JELN LLAPOTBAN</quote> KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELERTETT, BELERTVE, DE NEM KIZRLAGOSAN A FORGALOMBAHOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAMKNYVTR MINSGL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAMKNYVTR HIBSAN MKDIK, A FELHASZNLNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</para>

</sect2>

<sect2 id="sect16" label="16">
<title>16. szakasz</title>
</sect2>

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</sect2>

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</para>

</sect2>

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</sect2>

<sect2 id="sect2" label="2">
<title>Secci 2</title>
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    <listitem>
        <para>The modified work must itself be a software library.</para>
    </listitem>
    <listitem>
        <para>Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificació.</para>
    </listitem>
    <listitem>
        <para>You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.</para>
    </listitem>
    <listitem>
        <para>If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.
</para>

<para>
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
</para>

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<sect id="sect3" label="3">
<title>Secci 3</title>

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</sect2>

<sect2 id="sect11" label="11">
<title>Secci 11</title>

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<para>Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Secci 12</title>

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</sect2>

<sect2 id="sect13" label="13">
<title>Secci 13</title>

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DE DADES, LES DADES QUE LA BIBLIOTECA HAGI MALMS, LES PRDUES QUE US HAGI PROVOCAT
A VS O A TERCERS O LA IMPOSSIBILITAT QUE LA BIBLIOTECA FUNCIONI AMB QUALSEVOL
ALTRE PROGRAMA), FINS I TOT SI AQUEST POSSEDER O ALTRA PART HA ESTAT ADVERTIDA DE
LA POSSIBILITAT D’AQUESTS PERJUDICIS.

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The GNU Public License 2 in DocBook
Markup by Eric Baudais <baudais@okstate.edu>
Maintained by the GNOME Documentation Project
http://developer.gnome.org/projects/gdp
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 свободу, а также E-mail: gnu@gnu.org для получения информации о приобретении лицензии.
Кроме того, свободное программное обеспечение может быть копировано, распространено,
использовано и/или модифицировано без предварительного согласия автора лицензии.

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 39066
A qualquer pessoa permitido copiar e distribuir cópias desse documento de licença, desde que sem qualquer alteração.

Verso 2, junho de 1991

As licenças de muitos softwares são desenvolvidas para restringir sua liberdade de compartilhá-lo e mudá-lo. Contrário a isso, a Licença Pública Geral GNU pretende garantir sua liberdade de compartilhar e alterar software livres -- garantindo que o software seja livre e gratuito para os seus usuários.

Quando nos referimos a software livre, estamos nos referindo a liberdade, e não a preço. As nossas Licenças Públicas Gerais foram desenvolvidas para garantir que você tenha a liberdade de distribuir cópias de softwares livres (e cobrar por este serviço, se quiser); que você receba o código-fonte ou tenha acesso a ele, se quiser; que você possa alterar o software ou utilizar partes dele em novos programas livres; e que você saiba que pode fazer tudo isso.

Para proteger seus direitos, precisamos fazer restrições que impeçam a qualquer um de negar estes direitos ou solicitar que você abdique deles. Estas restrições traduzem-se em certas responsabilidades para você, se você for distribuir cópias do software ou modificá-lo.

Por exemplo, se você distribuir cópias de um programa, gratuitamente ou por alguma quantia, você tem que fornecer aos receptores todos os direitos que você possui. Você tem que garantir que eles também recebam ou possam...
obter o código-fonte. E você tem que mostrar-lhes estes termos para que eles possam conhecer seus direitos.

Ns protegemos seus direitos em dois passos: com direitos autorais do software; e

com a oferta desta licença, que lhe d permissão legal para copiar, distribuir e/ou modificar o software.

Além disso, tanto para a proteção de cada autor quanto a nossa, gostaríamos de nos certificar de que todos entendam que não há qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram no original, de forma que qualquer problema introduzido por terceiros não interfira na reputação do autor original.

Além disso, tanto para a proteção de cada autor quanto a nossa, gostaríamos de nos certificar de que todos entendam que não há qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram no original, de forma que qualquer problema introduzido por terceiros não interfira na reputação do autor original.

Finalmente, qualquer programa livre ameaçado constantemente por patentes de software. Queremos evitar o perigo de que redistribuidores de software livre obtenham individualmente licenças de patentes, o que teria o efeito de tornar o programa proprietário. Para prevenir isso, deixamos claro que qualquer patente tem que ser licenciada para uso livre e gratuito por qualquer pessoa, ou então que não seja licenciada.

Os precisos termos e condições para cópia, distribuição e modificação se encontram abaixo.

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TERMOS E CONDIÇÕES PARA CóPIA, DISTRIBUIÇÃO E MODIFICAÇÃO

Esta Licença se aplica a qualquer programa ou outro trabalho que contenha um aviso colocado pelo detentor dos direitos autorais informando que aquele pode ser distribuído sob as condições desta Licença PÚBLICA GERAL. O Programa abaixo refere-se a qualquer programa ou trabalho, e trabalho baseado no Programa significa tanto o Programa em si como quaisquer trabalhos derivados, de acordo com a lei de direitos autorais: isto quer dizer um trabalho que contenha o Programa ou parte dele, tanto originalmente quanto com modificações, e/ou tradução para outro idioma. (Doravante tradução é incluído sem limites no termo modificação.) Cada licenciado mencionado como você.

Atividades além de cópia, distribuição e modificação no esto cobertas por esta Licença; elas estão fora de seu escopo. O ato de executar o Programa no restringo, e o resultado do Programa coberto apenas se seu conteúdo contenha trabalhos baseados no Programa (independentemente de terem sido gerados pela execução do Programa). Se isso verdadeiro depende do que o Programa faz.
Voc pode cobrar pelo ato físico de transferir uma cópia e pode, opcionalmente, oferecer garantia em troca de pagamento.</sect2>

Voc pode modificar sua cópia ou cópias do Programa, ou qualquer parte dele, assim gerando um trabalho baseado no Programa, e copiar e distribuir essas modificações ou trabalhos sob os termos da Seção 1 acima, desde que voc também se atenda a todas estas condições: 

- Voc tem que fazer com que os arquivos modificados levem avisos proeminentes afirmando que voc alterou os arquivos, incluindo a data de qualquer alteração.</listitem>
- Voc tem que fazer com que quaisquer trabalhos que voc distribua ou publique, e que integralmente ou em partes contenham ou sejam derivados do Programa ou de suas partes, sejam licenciados, integralmente e sem custo algum para quaisquer terceiros, sob os termos desta Licença.</listitem>
- Se o programa modificado normalmente l comandos interativamente quando executados, voc tem que fazer com que, quando iniciado tal uso interativo da forma mais simples, seja impresso ou mostrado um anúncio de direitos autorais um e anúncio de que no h qualquer garantia (ou ento, que voc fornece a garantia) e que os usuários podem redistribuir o programa sob estas condições, ainda informando os usuários como consultar uma cópia desta Licença. <note><title>Exceção: </title> se o Programa em si interativo mas normalmente no imprime estes tipos de anúncios, seu trabalho baseado no Programa no precisa imprimir um anúncio. </note></para>

Estas exigências aplicam-se ao trabalho modificado como um todo. Se se es identificáveis de tal trabalho no forem derivadas do Programa, e que podem ser razoavelmente consideradas trabalhos independentes e separados por si s, ento esta Licença, e seus termos, no se aplicam a estas se es quando voc distribu-lias como trabalhos em separado. Mas quando voc distribuir as mesmas se es como parte de um todo, o qual baseado no Programa, a distribuição como um todo deve que se enquadrar nos termos desta Licença, cujas permissões para outros licenciados se estendem ao todo, portanto para cada e toda parte, independente de quem a escreveu.</para>

Destina forma, esta se no tem a intenção de reclamar direitos ou contestar seus direitos sobre o trabalho escrito inteiramente por voc; ao invés disso, a inten a de exercitar o direito de controlar a distribuição de trabalhos, derivados ou coletivos, baseados no Programa.</para>

Adicionalmente, a mera agregação ao Programa de outro trabalho no baseado no Programa (ou de trabalho
Voc pode copiar e distribuir o Programa (ou um trabalho baseado nele, conforme descrito na Seio 2) em código-objeto ou em forma executável sob os termos das Seios 1 e 2 acima, desde que voc tambem faa um dos seguintes itens: 

- O acompanhe com o código-fonte completo correspondente e em forma acessível por maquinas, que deve ser distribuido sob os termos das Seios 1 e 2 acima e em meio normalmente utilizado para o intercâmbio de software; ou,
- O acompanhe com uma oferta expressa, vlida por pelo menos trs anos, de fornecer a qualquer terceiros, com um custo no superior ao custo de distribuição física do material, uma cpi da cdo-fonte completo e em forma acessível por maquinas, que deve ser distribuido sob os termos das Seios 1 e 2 acima e em meio normalmente utilizado para o intercâmbio de software; ou,
- O acompanhe com a informao que voc recebeu em relao oferta de distribuição do código-fonte correspondente. (Esta alternativa permitida somente em distribuição no comercial, e apenas se voc recebeu o programa em forma de código-objeto ou executável, com oferta, de acordo com a Subseio b acima.)

O código-fonte de um trabalho corresponde forma de trabalho preferida para se fazer modificaes. Para um trabalho em forma executável, o código-fonte completo significa todo o código-fonte de todos os módulos que ele contm, mais quaisquer arquivos de definio de "interface", mais os "scripts" utilizados para se controlar a compilação e a instalação do executável. Contudo, como exceo especial, o código-fonte distribuido no precisa incluir qualquer componente normalmente distribuido (tanto em forma original quanto binria) com os maiores componentes (o compilador, o "kernel" etc.) do sistema operacional sob o qual o executável funciona, a menos que o componente em si acompanhe o executável.

Se a distribuição do executável ou código-objeto feita através da oferta de acesso a cpias de algum lugar, ento ofertar o acesso equivalente a cpi, do mesmo lugar, do código-fonte equivalente distribuição do código-fonte, mesmo que terceiros no sejam compelidos a copiar o código-fonte com o código-objeto.
receberam cpias ou direitos, fornecidos por voc sob os termos desta Licena, no tero suas licenas canceladas, desde que permaneem em total concordncia com ela.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Voc no obrigado a aceitar esta Licena, j que no a assinou. No entanto, nada mais o dar permissio para modificar ou distribuir o Programa ou trabalhos derivados deste. Estas aes so proibidas por lei, caso voc no aceite esta Licena. Desta forma, ao modificar ou distribuir o Programa (ou qualquer trabalho derivado do Programa), voc estar indicando sua total aceitao desta Licena para faz-los, e todos os seus termos e condies para copiar, distribuir ou modificar o Programa, ou trabalhos baseados nele.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Cada vez que voc redistribuir o Programa (ou qualquer trabalho baseado nele), os recebedores adquiriro automaticamente do licenciador original uma licena para copiar, distribuir ou modificar o Programa, sujeitos a estes termos e condies. Voc no poder impor aos recebedores qualquer outra restrio ao exercicio dos direitos ento adquiridos. Voc no responsvel em garantir a concordncia de terceiros a esta Licena.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Seo 7</title>

<para>Se, em consequncia de decises judiciais ou alegaes de infringimento de patentes ou quaisquer outras razes (no limitadas a assuntos relacionados a patentes), condies forem impostas a voc (por ordem judicial, acordos ou outras formas) e que contradigam as condies desta Licena, elas no o livram das condies desta Licena. Se voc no puder distribuir de forma a satisfazer simultaneamente suas obrigaes para com esta Licena e para com as outras obrigaes pertinentes, ento como consequencia voc no poder distribuir o Programa. Por exemplo, se uma licena de patente no permitir a redistribuição, livre de "royalties", do Programa, por todos aqueles que receberem cpias direta ou indiretamente de voc, ento a nica forma de voc satisfazer a ela e a esta Licena seria a de desistir completamente de distribuir o Programa.</para>

<para>Se qualquer parte desta seo for considerada invlida ou no aplicvel em qualquer circunstncia particular, o restante da seo se aplica, e a seo como um todo se aplica em outras circunstncias.</para>

<para>O propsito desta seo no o de induzi-lo a infringir quaisquer patentes ou reivindicaes de direitos de propriedade outros, ou a contestar a validade de quaisquer dessas reivindicaes; esta seo tem como nico propsito proteger a integridade dos sistemas de distribuição de software livres, o que implementado pela prtica de licenas pblicas. Vrias pessoas tm contribuido generosamente e em grande escala para os software distribuidos usando este sistema, na certeza de que sua aplicao feita de forma consistente; fica a critrio do autor/doador decidir se ele ou ela est disposto a distribuir software utilizndo outro sistema, e um licenciado no pode impor qualquer escolha.</para>

<para>Esta seo destina-se a tornar bastante claro o que se acredita ser consequencia do restante desta Licena.</para>

</sect2>
<sect id="sect8" label="8">
<title>Seo 8</title>

<para>Se a distribuição e/ou uso do Programa so restritivos em certos países por patentes ou direitos autorais, o detentor dos direitos autorais original, e que colocou o Programa sob esta Licença, pode incluir uma limitação geográfica de distribuição, excluindo aqueles países de forma a tornar a distribuição permitida apenas naqueles ou entre aqueles países ento no excluídos. Nestes casos, esta Licença incorpora a limitação como se a mesma constasse escrita nesta Licença.</para>

</sect>

<sect id="sect9" label="9">
<title>Seo 9</title>

<para>A Free Software Foundation pode publicar versões revisadas e/ou novas da Licença Pública Geral de tempos em tempos. Estas novas versões serão similares em espírito com o atual, mas podem diferir em detalhes que resolvem novos problemas ou situações.</para>

<para>A cada versão dada um número distinto. Se o Programa especifica um número de versão específico desta Licença que se aplica a ele e a qualquer nova versão, você tem a opção de aceitar os termos e condições daquela versão ou de qualquer outra versão publicada pela Free Software Foundation. Se o Programa não especifica um número de versão desta Licença, você pode escolher qualquer versão já publicada pela Free Software Foundation.</para>

</sect>

<sect id="sect10" label="10">
<title>Seo 10</title>

<para>Se você pretende incorporar partes do Programa em outros programas livres, cujas condições de distribuição são diferentes, escreva ao autor e solicite permissão. Para o software que a Free Software Foundation detém direitos autorais, escreva Free Software Foundation; algumas vezes ns permitimos exceções a este caso. Nossa decisão será guiada pelos dois objetivos de preservar a condição de liberdade de todas as derivações de nosso software livre, e de promover o compartilhamento e reutilização de software em aspectos gerais.</para>

</sect>

<sect id="sect11" label="11">
<title>AUSNCIA DE GARANTIAS</title>

<subtitle>Seo 11</subtitle>

<para>Uma vez que o Programa Licenciado sem NUS, NO H QUALQUER GARANTIA PARA O PROGRAMA, NA EXTENSÃO PERMITIDA PELAS LEIS APLICáveis. EXCETO QUANDO EXPRESSADO DE FORMA EXPRESSA, OS DETENTORES DOS DIREITOS AUTORAIS E/OU TERCEIROS DISPONIBILIZAM O PROGRAMA <quote>NO ESTADO</quote>, SEM QUALQUER TIPO DE GARANTIAS, EXPRESSAS OU IMPLÍCITAS, INCLUINDO, MAS NO LIMITADO A, AS GARANTIAS IMPLÍCITAS DE COMERCIALIZAÇÃO E AS DE ADEQUAÇÃO A QUALQUER PROPOSITO. TODO O RISCO RELACIONADO QUALIDADE E DESEMPENHO DO PROGRAMA SEU. SE O PROGRAMA SE MOSTRAR DEFEITUOSO, VOC ASSUME OS CUSTOS DE TODAS AS MANUTENÇÕES, REPAROS E CORREES.</para>

</sect>
EM NENHUMA OCASÃO, A MENOS QUE EXIGIDO PELAS LEIS APLICÁVEIS OU ACORDO EXPRESSO, OS DETENTORES DOS DIREITOS AUTORAIS, OU QUALQUER OUTRA PARTE QUE POSSA MODIFICAR E/OU REDISTRIBUIR O PROGRAMA CONFORME PERMITIDO ACIMA, SERÃO RESPONSABILIZADOS POR VOCÊ POR DANOS, INCLUINDO QUALQUER DANO EM GERAL, ESPECIAL, ACIDENTAL OU CONSEQUENTE, RESULTANTES DO USO OU INCAPACIDADE DE USO DO PROGRAMA (INCLUINDO, MAS NO LIMITADO A, PERDA DE DADOS OU DADOS TORNADOS INCORRETOS, OU PERDAS SOFRIDAS POR VOCÊ OU POR OUTRAS PARTES, OU FALHAS DO PROGRAMA AO OPERAR COM QUALQUER OUTRO PROGRAMA), MESMO QUE TAL DETENTOR OU PARTE TENHAM SIDO AVISADOS DA POSSIBILIDADE DE TAIS DANOS.
We protect your rights with two steps:

- copyright the software, and
- offer you this license which gives you legal permission to copy, distribute and/or modify the software.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

You may copy and distribute the Program (or a work based on it, under <link linkend="sect2">Section 2</link>) in object code or executable form under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
<listitem>
<para>
Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above on a medium customarily used for software interchange; or,
Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,

Accompany it with the information you received as to the offer to distribute
the corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU està pensada per a garantir-vostra llibertat de compartir i modificar el programari lliure, per tal d’assegurar que el programari sigui lliure per a tots els seus usuaris i usuraries.

Tothom pot copiar i distribuir còpies literals d’aquest document de llicència, per no es permet de fer-hi modificacions.
Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuaries. Aquesta Llicència pública general s'aplica a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programari els autors del qual es comprometin a utilitzar-la (algun altre programari de la Free Software Foundation, en canvi, està protegit per la Llicència pública general per a biblioteques de GNU). També podeu aplicar-la als vostres programes.

Quan parlem de programari lliure ens referim a la llibertat, no al preu. Les nostres llicències públiques generals estan pensades per assegurar que tinguéu la llibertat de distribuir còpies del programari lliure (i de cobrar per aquest servei, si voleu); que rebéu el codi font o que, si el voleu, el pugueu rebrer; que pugueu modificar el programari o fer-ne servir parts en programes lliures nous; i que sapigueu que podeu fer totes aquestes coses.

Per a protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquests drets o demanar-vos que hi renuncieu. Aquestes restriccions suposen determinades responsabilitats per a vs si distribueu còpies del programari o si el modifiqueu.

Per exemple, si distribueu còpies d'un programa, tant si el distribueu de franc com si en feu pagar un preu, heu de donar als destinataris els mateixos drets que teniu vs. Us heu d'assegurar que ells també en rebin o puguin aconseguire el codi font, i els heu de fer saber aquests termes per tal que coneguin els seus drets.

Protegim els vostres drets amb dos passos:

1. Ens reservem el copyright del programari, i
2. Reservem els drets de distribució i reproducció.
<listitem>
<para>Us oferim aquesta llicència que us dona permissió legal per a copiar, distribuir i/o modificar el programari.</para>
</listitem>
</orderedlist></para>

<para>A més a més, per protegir-nos i protegir l'autor o autora, volem estar segurs que tothom entn que no hi ha cap garantia per a aquest programari lliure. Si alg modifici el programari i el passa, volem que els destinataris espiguen que el que tenen no és l'original, per tal que qualsevol problema que hagin pogut introduir terceres persones no repercuteixi en la reputació de l'autor o autora original.</para>

<para>Finalment, qualsevol programa lliure està constantment amenaçat per les patents de programari. Volem evitar el perill que els redistribuïdors d'un programa lliure acabin obtenint llicències de patents i que, com a conseqüència d'això, el programa esdevingui propietat exclusiva d'alg. Per evitar-ho, hem deixat clar que, de qualsevol patent, se n'han d'emetre llicències per a tothom o no emetre'n cap.</para>

<para>Les condicions exactes per a la cpia, distribució i modificació són les següents.</para>

</sect1>

<sect1 id="terms" label="none">
<title>TERMES I CONDICIONS PER A LA CPIA, DISTRIBUCIÓ I MODIFICACIÓ</title>

<sect2 id="sect0" label="0">
<title>Secció 0</title>
<para>Aquesta llicència s'aplica a qualsevol programa o altra obra que continguï un avís del propietari del copyright que digui que es pot distribuir sota els termes d'aquesta llicència pública general. D'ara endavant, el <quote>programa</quote> es refereix a aquest programa o obra, i una <quote>obra basada en el programa</quote> es refereix al programa o a qualsevol obra derivada segons la llei de copyright: és a dir, una obra que continguï el programa o alguna part del programa, ja sigui literalment o amb modificacions o traduïda a altres llengües (d'ara endavant, les traduccions s'inclouen sense cap limitació en el terme <quote>modificació</quote>). Ens referim a cada beneficiari de la llicència com a <quote>ús</quote>.</para>

<para>Les activitats que no siguin cpia, distribució o modificació no es tenen en compte en aquesta llicència, queden fora del seu mèrit. No es restringeix l'acte d'executari el programa, i la llicència noms protegeix la producció que s'obtingui amb el programa si el seu contingut constitueix una obra basada en el programa (independientment de si s'ha creat executant el programa). Què aquest sigui el cas o no depèn de què faci el programa.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Secció 1</title>
<para>Podreu copiar i distribuir cpies literal del codi font del programa tal com el rebue, en qualsevol mitjà, sempre que publiquereu cada cpi, de manera adient i ben visible, una nota de copyright i una renúncia de garantia; manteniu intacles tots els avisos que fan referència a aquesta llicència i a l'absència de garanties de cap mena; i liureu a qualsevol altre destinatari del programa una cpi d'aquesta llicència juntament amb el programa.</para>

<para>Podreu cobrar un preu per l'acte físic de trametre una cpi i podeu, si així ho voleu, oferir alguna garantia a canvi d'un preu.</para>
Podeu modificar la còpia o còpies del programa o qualsevol tros del programa i, així, fer una obra basada en el programa, i podeu copiar i distribuir aquestes modificacions o obres sota els termes de la Secció anterior, sempre que també compliu les condicions següents: 

- Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificació.
- Heu de portar les modificacions o obres que compleixin amb aquesta llicència a totes les terceres parts.

Si el programa modificat normalment ellegeix instruccions interactivament quan s'executa, heu de fer que quan s'arrenqui per a aquest s interactiu de la manera ms habitual, imprimeixi o mostri un missatge que inclogui una nota de copyright adient i un avís de que no hi ha garantia (o, si no, que digui que la garantia l'oferiu vs mateix) i que els usuaris poden redistribuir el programa sota aquestes condicions, i que indiqui a l'usuari o ususaria com veure una còpia d'aquesta llicència.

Si el programa s'interactiu per normalment no porta cap indicació com la que s'ha descrit, tampoc cal que les obres que feu basades en el programa en portin cap.

Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identifiables que no estan derivades del programa, i es poden considerar raonablement com a obres independents i separades en si mateixes, aleshores aquesta llicència i els seus termes no s'aplicen a aquelles parts quan les distribueu com a obres separades. Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en el programa, la distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicència, i els permisos atorgats a altres beneficiaris abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites.

Així doncs, la intenció d'aquesta secció no s'declara o disputar-vos cap dret a codi que hagueu escrit del tot vs mateix. La intenció és aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en el programa.

A ms a ms, la simple agregació amb el programa (o amb una obra basada en el programa) d'altres obres no basades en el programa en un volum d'un mitjà d'emmagatzematge o de distribució no posa aquestes altres obres sota l'impacte de la llicència.
Podeu copiar i distribuir el programa (o una obra basada en el programa, segons la [sect2](#sect2)) en forma executable o de codi objecte d'acord amb els termes de les [sect1](#sect1) i [sect2](#sect2) anteriors, amb la condició que també feu una de les coses següents: 

- L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribuir d'acord amb els termes de les [sect1](#sect1) i [sect2](#sect2) anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para>

- L'acompanyeu amb un oferiment per escrit, amb validesa com a mínim fins al cap de tres anys, de subministrar a tota tercera part, i per un preu no superior al que us costi físicament realitzar la distribució, el codi font complet corresponent, que es distribuir d'acord amb els termes de les seccions 1 i 2 anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para>

- L'acompanyeu amb la informació que hagué rebut de l'ofert per distribuir el codi font corresponent (aquesta alternativa només s'permés per a la distribució no comercial i només si heu rebut el programa en forma executable o de codi objecte amb aquest ofert, d'acord amb la subsecció b anterior).</para>

El codi font per a una obra vol dir la forma preferida de l'obra per a fer-hi modificacions. Per una obra executable, el codi font complet vol dir tot el codi font per a tots els mduls que conté, ms tots els fitxers de definició d'interfície associats si s'escou, ms els scripts que es fan per a controlar la compilació i la instal·lació de l'executable si s'escou. Tanmateix, com a excepció especial, el codi font que es distribueixi no cal que inclògui res del que normalment es distribueixi (sia en forma binària o de codi font) amb els components principals (compilador, núcli o similars) del sistema operatiu en què s'executa el programa, tret que el component en qüestió acompanyi l'executable.</para>

Si la distribució de l'executable consisteix a donar accés per a copiar-lo d'un lloc determinat, aleshores serveix com a distribució del codi font el fet de donar un accés equivalent per a copiar el codi font, encara que les terceres parts no estiguin obligades a copiar el codi font en copiar el codi objecte.</para>

No podeu copiar, modificar, reemetre llicències, o distribuir el programa si no s de la forma expressa que atorga aquesta Llicència. Qualsevol altre intent de copiar, modificar, reemetre llicències, o distribuir el programa és il·lícit i finalitzarà automaticament els drets que hagué rebut d'aquesta llicència. Tanmateix, les parts que hagin rebut de vs cpies o drets d'acord amb aquesta llicència no veuran les seves llicències finalitzades mentre segueixin observant les estrictament.
No esteu obligat a acceptar aquesta llicència, ja que no l'heu signada. Tanmateix, no hi ha cap altra opció que us doni permis per modificar o distribuir el programa o les seves obres derivades. Aquestes accions queden prohibides per la llei si no accepteu aquesta llicència. Així doncs, en modificar o distribuir el programa o les seves obres derivades, indiqueu que accepteu aquesta llicència per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar el programa o obres que hi estiguin basades.

Cada cop que distribueu el programa (o qualsevol obra basada en el programa), el destinatari rep automàticament, de qui va emetre la llicència originàriament, una llicència per copiar, distribuir o modificar el programa sotmesa a aquests termes i condicions. No podeu imposar cap més restricció a l'exercici dels drets que aquells que es confereixen. No sou responsable de fer complir aquesta llicència a tercers parts.

Si, a conseqüència d'una decisió judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s'hi ordeni judicial, acord, o el que sigui) que contradueixin les condicions d'aquesta llicència, no quedeu excusat de les condicions d'aquesta llicència. Si no us s'hi podem distribuir de manera que satisfiu alhora les obligacions que us imposta aquesta llicència i qualsevol altra obligació pertinente, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permet per redistribuir gratuïtament el programa a aquells que hagin rebut còpies de vos directament o indirectament, aleshores la única manera en què podreu satisfacer tant així com aquesta llicència seria abstenir-vos completament de distribuir el programa.

Si qualsevol fragment d'aquesta secció quedarà invalidat o no es pogués fer complir en qualsevol circumstància particular, la intenció és que s'apliqui el balanç de la secció, i que s'apliqui la secció en la seva totalitat en altres circumstàncies.

El propòsit d'aquesta secció no s'induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'únic propòsit d'aquesta secció és protegir la integrïtat del sistema de distribució de programari lliure, que s'implementa amb pràctiques de llicència pública. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribuït per aquest sistema refiant-se de l'aplicació consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.

Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.

Si hi ha pasos que restringeixen la distribució o l's del programari, ja sigui per patents o per interveïncies sota copyright, el possessor del copyright original que posi el programa sota aquesta llicència pot afegir limitacions.
geográficas explícitas que excluyan estos pasos, de manera que la distribución de nombres quedó permitida en los pasos no exclusivos, o entre ellos. En tal caso, esta licencia incorpora la limitación común si estuviera escrita en el texto de la licencia.

<sect2 id="sect9" label="9">
<title>Sección 9</title>

<para>La Free Software Foundation podrá publicar versiones revisadas o nuevas de la licencia pública general de tal vez. Estas versiones nuevas serán similares en espíritu a la versión actual, pero pueden diferir en detalles para tratar nuevas preocupaciones o problemas.</para>

<para>Cada versión representa un número de versión distinto. Si el programa especifica un número de versión de esta licencia que se aplicable y que tambien aplicable a <quote>qualsevol versi posterior</quote>, tieni l'opció de seguir los términos y condiciones de la versión especificada o bien los de qualsevol versi publicada posteriormente por la Free Software Foundation. Si el programa no especifica un número de versión de esta licencia, puede triar qualsevol versi que hagi publicat la Free Software Foundation en qualsevol data.</para>

<sect2 id="sect10" label="10">
<title>Sección 10</title>

<para>Si desea incorporar partes del programa en otros programas libres las condiciones de distribución de los cuales son diferentes, escribí a la autor para pedir permiso. Para el programador que está bajo copyright de la Free Software Foundation, escribí a la Free Software Foundation; de vez en cuando excepciones permitiendo-permitiendo. Tomaremos nuestras decisiones guiados por los dos objetivos de mantener la condición de libres de todos los derivados de nuestro programar libre y de promover la compartición y la reutilización del programan en general.</para>

<sect2 id="sect11" label="11">
<title>SENSE GARANTIA</title>

<subtitle>Sección 11</subtitle>

<para>ATS QUE EL PROGRAMA T UNA LLICENCIA GRATUÍTA, NO SE N'OFEIXEIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QU'S'AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCIADORS I/O LES ALTRES PARTS OFEREIXEN EL PROGRAMA <quote>TAL COM S</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLÍCITA NI IMPLÍCITA; AIXI INCLÒU, SENSE LIMITAR-S'HÍ, LES GARANTIES IMPLICITES DE COMERCIALIZACIÓ I ADECUACIÓ A UN S CONCRET. TOT EL RISC QUE FA A LA QUALITAT I RENDIMENT DEL PROGRAMA S VOSTRE. EN CAS QUE EL PROGRAMA RESULTS DEFECTUS, VS ASSUMIU TOT EL COST D'ASSISTÈNCIA, REPARACIÓ O CORRECCIÓ.</para>

<sect2 id="sect12" label="12">
<title>Sección 12</title>

<para>EL POSSEDER DEL COPYRIGHT, O QUALSEVOL ALTRA PART QUE PUGUI MODIFICAR O REDISTRIBUIR EL PROGRAMA TAL I COM ES PERMET MS AMUNT NO US HAUR DE RESPONDRE EN
CAP CAS, TRET DEL QUE REQUEREIXI LA LLEI APLICABLE O ELS ACORDS PER ESCRIT, PER
PERJUDICIS, INCLUSOS ELS INCIDENTALS, DERIVATS, ESPECIALS O GENERALS QUE ES DERIVIN
DE L’S O DE LA IMPOSSIBILITAT D’S DEL PROGRAMA (INCLOSES, ENTRE D’ALTRES, LES PRDUES
DE DADES, LES DADES QUE EL PROGRAMA HAGI MALMS, LES PRDUES QUE US HAGI PROVOCAT A
VS O A TERCERS O LA IMPOSSIBILITAT QUE EL PROGRAMA FUNCIONI AMB QUALSEVOL ALTRE
PROGRAMA), FINS I TOT SI AQUEST POSSEDOR O ALTRA PART HA ESTAT ADVERTIDA DE LA
POSSIBILITAT D’AQUESTS PERJUDICIS.</para>
Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike.

Dovoljenje GPL se nanaa na veino programske opreme ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. (Nekatera druga programska oprema ustanove Free Software Foundation je namesto tega pokrita s Splonim dovoljenjem GNU za knjinice, angl. GNU Library General Public License.) Uporabite jo lahko tudi za vae programe.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona Javna dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanje njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

Zaradi zavarovanja vàih pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v vao odgovornost, e razirjate kopije programske opreme ali jo spreminjate.

Na primer, e razirjate kopije takega programa, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate vi. Prepriati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. In morate jim pokazati te pogoje (opp. izvirnik), da bodo poznali svoje pravice.

Pravice uporabnika so varovane v dveh korakih: 

- s pravno zaito programske opreme in 
- ponujenim dovoljenjem, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in/ali spreminjanje programske opreme. 

Prav tako, za zaito vsakega avtorja in zaradi nae zaite elim mo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posredoval naprej, elim, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja.

Konno, vsaki prosti programski opremi nenehno grozijo programski patenti. elim se izogniti nevarnosti,
da bi razirjevalci proste programske opreme posamino dobivali patentna dovoljenja in s tem naredili program lastniki (angl. proprietary). Za prepreitev tega jasno zahtevamo, da mora biti dovoljenje vsakega patenta tako, da ga lahko vsakdo prosto uporablja, ali pa sploh ne sme biti omejen s kakrnimkoli dovoljenjem.</para>

<para>Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje.</para>

</sect1>

<sect1 id="terms" label="none">
<title>Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje</title>

<sect2 id="sect0" label="0">
<title>Razdelek 0</title>

<para>Dovoljenje se nanaa na vsak program ali drugo delo, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) z izjavo, da se program ali drugo delo lahko razirja pod pogoji Splonega Javnega Dovoljenja GNU (angl. General Public License). <quote>Program</quote> se v nadaljevanju nanaa na vsak tak program ali delo, in <quote>delo, ki temelji na tem programu</quote> pomeni bodisi program ali pa katerokoli izvedeno delo po zakonu o avtorskih pravicah (angl. copyright law): se pravi delo, ki vsebuje program ali njegov del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitev v pojem <quote>spremembe</quote>.) Vsak zavezanec k dovoljenju je opredeljen kot <quote>vi</quote>.</para>

<para>Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in sprememb; ostale so izven njenega dosega. Dejanje zagona programa ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina sestavlja delo, iz katerega je izpeljan program (ne glede na to, da je bil narejen z zagnanim programom). Ali je to res ali ne, je odvisno od tega, kaj program dela.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Razdelek 1</title>

<para>Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakr sakega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

<para>Za fizino dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plailo.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Razdelek 2</title>

<para>Dovoljeno je spreminjati va izvod ali izvode programa ali katerikoli njegov del, in tako narediti delo, ki temelji na programu, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega <link linkend="sect1">Razdelka 1</link>, e je zadoeno tudi vsem naslednjim pogojem: <orderedlist numeration="loweralpha">
<li><para>Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena in datum vsake spremembe.</para></li>
</orderedlist>
Zagotoviti je treba, da je vsako delo, ki ga razirjate ali izdajate in ki v celoti ali deloma vsebuje program ali katerikoli njegov del ali pa je iz njega izpeljano, objavljeno pod pogoji tega dovoljenja kot celota brez plaila katerikoli tretji osebi.

e spremenjeni program ob zagonu navadno bere ukaze interaktivno, je treba zagotoviti, da se ob najbolj obajnem zagonu za takno interaktivno uporabo izpie ali pokae najava, ki vkljuje ustrezen sporoi o pravicah razirjanja in sporoi, da jamstvo ni zagotovljeno (ali pa sporoi, da ponujate jamstvo) in da lahko uporabniki razirjajo program pod temi pogoji, in pove uporabniku, kako pogledati izvod tega dovoljenja. izjema: je sam program interaktiven, vendar navadno ne izpie takne najave, tudi za vae delo, ki temelji na programu, ni nujno, da jo.

Te zahteve se nanaajo na spremenjeno delo kot celoto. Razdelki tega dela, ki jih je lahko prepoznati, niso izpeljani iz programa in se jih lahko ima za neodvisna in loena dela sama po sebi, potem to dovoljenje in njeni pogoji zanje ne veljajo, kadar jih razirjate loeno. Vendar, kadar te iste razdelke razirjate kot del celote, ki je delo, ki temelji na programu, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja za druga dovoljenja se razirjajo na vso celoto in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Torej, namen tega razdelka ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen raziriti pravico do nadzora razirjanja na izpeljana ali zbrana dela, ki temeljijo na programu.

Poleg tega, e gre za zgolj kopienje drugega dela, ki ne temelji na programu, s programom (ali z delom, ki temelji na programu) na mediju za shranjevanje ali distribucijskem mediju, se dovoljenje na to drugo delo ne nanaa.

Program (ali delo, ki temelji na njem, pod doolo) je dovoljeno razmnoevati in razirjati v objektini kodi ali izvedljivi obliki pod pogoji zgornjih in razdelkov 1 in 2, e izpolnite tudi kaj od tega: razdelkov 1 2, ali, ali, ali, ali.
Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namestitev izvedljive datoteke. Vendar - kot posebna izjema - ni nujno, da razirjana izvorna koda vključuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tako naprej) operacijskega sistema, na katerem te dejanja izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko.</para>

Ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali razirjati programa drugae, kot to izrecno doloa priujoe dovoljenje. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajoce iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma podrejajo.</para>

Vsaki, ko razirjate program (ali katerokoli delo, ki temelji na programu), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje ali spreminjanje programa glede na ta doloila in pogoje. Ni dovoljeno vsljevati nobenih nadaljnijih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsljevanje strinjanja tretjih oseb s tem dovoljenjem.
 Razdelek 7

<para>e so vam, kot posledica presoje sodia ali suma kritve patenta ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odcezujemo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, e patentno dovoljenje ne dovoli razirjanja programa brez plaevanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdržite razirjanja programa.</para>

<para>e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da se ga ne da izvajati pod kateremkoli doloenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.</para>

Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnitva pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema distribucije proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.</para>

Razdelek 8

<para>e sta razirjanje in/ali uporaba programa omejena v doloenih dravah, bodisi zaradi patentov ali vmesnikov s posebno pravico razirjanja (angl. copyrighted interfaces), lahko izvorni lastnik ali lastnica pravic razirjanja, ki postavlja program pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljujuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuuje omejitev, kot da so napisane v telesu tega dovoljenja.</para>

Razdelek 9

<para>Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Splonega Javnega dovoljenja (angl. General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.</para>

Vsaki razliici je prirejena razloevalna tevilka razliice. e program doloa tevilko razliice tega dovoljenja, ki se nanaa nanj in <quote>na katerekoli poznej razliice</quote>, imate izbiro upotevanja pogojev in doloi bodisi te razliice ali katerekoli poznej razliice, ki jo je izdala ustanova Free Software Foundation. e program ne doloa tevilke razliice tega dovoljenja, lahko izberete katerokoli razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.
e elite vključiti dele programa v druge proste programe, katerih pogoji razirjanja so drugani, pište avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, pište na Free Software Foundation; vasi naredimo izjemo pri tem. Nao dlitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</sect2>

<sect2 id="sect11" label="11">
<title>BREZ JAMSTVA</title>
<subtitle>Razdelek 11</subtitle>
<para>KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJU PROGRAM<br/><quote>TAK, KOT JE</quote>, BREZ ZAGOTOVILA KAKRNEKOLI VRSTE, NEPOSREDNEGA ALI POSREDNEGA, KAR VKLJUUJE, A NI OMEJENO NA POSREDNA JAMSTVA CENOVNE VREDNOSTI IN PRIMERNOSTI ZA DOLOENO UPORABO. CELOTO TVEGANJE GLEDE KAKRNO KAKRNE ali DELOVANJA PROGRAMA PREVZAMETE SAMI. E SE PROGRAM IZKAE ZA OKVARJENEGA, SAMI NOSITE STROKE VSEH POTREBNIH STORITEV. POPRAVIL ALI POPRAVKOV.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>
<para>V NOBENEM PRIMERU, RAZEN E TAKO PRAV IZLJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPREMEMI IN/ALI PONOVNO RAZIRJA PROGRAM, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVORNOSTI ZARADI KODE, NAISI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJOO IZ UPORABE ALI NEZMONOSTI UPORABE PROGRAMA (VKLJUNO Z, A NE OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST PROGRAMA, DA BI DELOVAL S KAKIM DRUGIM PROGRAMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.</para>
</sect2>
</sect1>
</article>

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The GNU Public License 2 in DocBook

Markup by Eric Baudais <baudais@okstate.edu>

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Versión 2, Xuo de 1991

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<li><para>pr o software baixo copyright e</para></li>
<li><para>ofrecerlle esta licenza, que o autoriza legalmente para copiar, distribuir e/ou modificar o software.</para></li>
</orderedlist></para>

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A seguir detllanse os termos e condicones exactos para a copia, distribución e modificación.
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Sección 1

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Sección 2

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- Debe hacer que cualquier producto distribuido o publicado por vose, que en todo o en parte contea ou derive do Programa ou de cualquier parte del Programa, obtenga una licencia no seu conjunto sen que isto repercuta en ningun gasto para cualquier tercera parte de acuerdo con los términos de esta licencia.

</orderedlist>
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Excepción:

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Pode copiar e distribuir o Programa (ou un produto baseado nel, segundo os termos do <link linkend="sect2">apartado 2</link>) en código obxecto ou forma executable de acordo co establecido nos <link linkend="sect1">apartados 1</link> e <link linkend="sect2"><2</link> anteriores, sempre que cumpra tamén con un dos seguintes requisitos: <orderedlist numeration="loweralpha">
  <listitem>
    <para>Acompáalo do correspondente código fonte completo nun formato lexible por máquina, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte típicamente utilizado para o intercambio de software.</para>
  </listitem>
  <listitem>
    <para>Acompáalo dunha oferta por escrito, cunha validez mínima de tres anos, na que se entregue a calquera terceiro interesado, por un custo nunca superior aos gastos nos que vostede poida incorrer pola execución física da distribución do código fonte, unha copia completa en formato lexible por máquina do código fonte correspondente, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte típicamente utilizado para o intercambio de software.</para>
  </listitem>
</orderedlist>
<listitem>
<para>Acompaño da informacín que recibiu vostede verbo da oferta de distribuir o código fonte correspondente. (Esta opción s est permitida para a distribucín non-comercial, e unicamente no caso de que vostede recibise o programa en código objecto ou forma executable cunha oferta como a que se acaba de explicar, de acordo co subapartado b anterior.))</para>
</listitem>

<sect2 id="sect4" label="4">
<title>Seccín 4</title>

<para>No non lle est permitido copiar, modificar, emitir unha sublicenza nin distribuir o Programa ags nos termos especificamente estipulados nesta licenza. Calquera outro intento de copiar, modificar, emitir unha sublicenza ou distribuir o Programa ser considerado nulo, e implicar a cancelacín automática dos dereitos que lle concede esta licenza. No entanto, as partes s que vostede concedera copias ou dereitos consonte os termos desta licenza non vern resoltas as sas respectivas licenzas, sempre que cumpran plenamente con todo o que nelas se estipula.</para>

<sect2 id="sect5" label="5">
<title>Seccín 5</title>

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<sect2 id="sect6" label="6">
<title>Seccín 6</title>

<para>Cada vez que redistribua o Programa (ou calquera producto baseado no Programa), o receptor recibir automaticamente unha licenza por parte do emisor da licenza orixinal que lle permitir copiar, distribuir ou modificar o Programa consonte estes termos e condicins. Vostede non poder impor ningunha outra restricín sobre o exercicio
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 Alguns dels formats adequats per a còpies Transparents són: ASCII net sense etiquetatge, format d'entrada Texinfo, format d'entrada LaTeX, SGML o XML que utilitzin un DTD accessible per a totxoms, i HTML senzill que compleixi amb els estàndards que estiguin dissenyat per a la modificació humana. Els formats opacs inclouen PostScript, PDF, els formats de propietat que noms es poden llegir i editar per processadors de textos de propietat, SGML o XML el DTD i/o eines de processament dels quals no siguin fàcilment accessibles, i HTML generat automàticament per alguns processadors de textos noms per a la sortida.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and
- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

<para>

<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
    </para>
  </listitem>
  <listitem>
    <para>
      Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
    </para>
  </listitem>
</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title>Section 8</title>

<para>
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>

<para>
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

<para>
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

<para>
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
</para>

<para>
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
</para>

<para>
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
the Free Software Foundation.
</para>
</sect2>

<sect2 id="sect14" label="14">
<title>Section 14</title>

<para>
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
</para>
</sect2>

<sect2 id="sect15" label="15">
<title>NO WARRANTY</title>
<subtitle>Section 15</subtitle>

<para>
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY <quote>AS IS</quote> WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Section 16</title>

<para>
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
</para>
Chacun est libre de copier et de distribuer des copies conformes de cette Licence, mais nul n'est autorisé à la modifier. 

Les licences de la plupart des logiciels sont conçues pour vous garantir la liberté de partager et de modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir la liberté de partager et modifier un logiciel libre, pour que le logiciel soit bien libre pour tous les utilisateurs.
Les licences de la plupart des logiciels sont conçues pour vous ter toute liberté de les partager et de les modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir votre liberté de partager et modifier un logiciel libre pour être sûr que le logiciel est bien libre pour tous les utilisateurs.<br/>

Quand nous parlons de logiciel libre, nous parlons de liberté, pas de prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez), que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez, que vous pouvez modifier le logiciel et en utilisez tout ou partie dans de nouveaux programmes libres, et que vous êtes informés que vous pouvez faire tout ceci.<br/>

Cette licence, la Licence Générale Publique Limite (Lesser General Public License), s'applique certains paquets logiciels désignés spécifiquement typiquement des bibliothèques de la Free Software Foundation et d'autres auteurs qui décident de l'utiliser. Vous pouvez l'utiliser aussi, mais nous vous suggérons de considérer d'abord si la présente licence ou la Licence Générale Publique GNU (GNU General Public License) ordinaire est la meilleure stratégie utiliser dans chaque cas particulier, suivant les explications données ci-dessous.<br/>

Quand nous parlons de logiciel libre, nous parlons de la liberté de l'utiliser, pas de son prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez); que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez; que vous pouvez modifier le logiciel et en utilisez tout ou partie dans de nouveaux programmes libres; et que vous êtes informés que vous pouvez faire tout ceci.
Pour protéger vos droits, nous devons mettre des restrictions qui interdisent aux distributeurs de vous refuser ces droits ou de vous demander d'abandonner ces droits. Ces restrictions se traduisent par certaines responsabilités pour vous si vous distribuez des copies de la bibliothèque ou si vous la modifiez.

Par exemple, si vous distribuez des copies de la bibliothèque, que ce soit titre gratuit ou contre un paiement, vous devez donner aux concessionnaires tous les droits que nous vous avons concédés. Si vous liez d'autres codes avec la bibliothèque, vous devez fournir des fichiers objets complets aux concessionnaires, de sorte qu'ils puissent les lier nouveau avec la bibliothèque après l'avoir modifiée et recompilée. Et vous devez leur montrer ces termes de sorte qu'ils puissent connaître leurs droits.

Nous protégeons vos droits par une méthode en deux tapes: (1) nous libellons la Bibliothèque avec une notice de propriété intellectuelle (copyright) et (2) nous vous offrons cette Licence, qui vous donne le droit de copier, distribuer ou modifier la bibliothèque.

Pour protéger chaque distributeur, nous voulons tablir de façon très claire qu'il n'y a aucune garantie pour la Bibliothèque libre. Aussi, si la Bibliothèque est modifiée par quelqu'un d'autre qui la redistribue ensuite, ses concessionnaires devraient savoir que ce qu'ils ont n'est pas la version originale, de sorte que la réputation de l'auteur original ne sera pas affectée cause de problèmes introduits par d'autres.

Enfin, les brevets logiciels constituent une menace constante contre l'existence même de tout logiciel libre. Nous voulons être sûr qu'une société ne peut pas effectivement restreindre les utilisateurs d'un programme libre en obtenant une licence restrictive d'un titulaire de brevet. Par conséquent, nous insistons pour que toute licence de brevet obtenue pour une version de la Bibliothèque doit être cohérente avec sa pleine liberté d'utilisation spécifie dans la présente Licence.

La plupart des logiciels GNU, y compris certaines bibliothèques, sont couverts par la Licence Gnrale Publique GNU (GNU General Public License). La présente licence s'applique à certaines bibliothèques désignées et est assez différente de la Licence Gnrale Publique. Nous utilisons la présente licence pour certaines bibliothèques afin de permettre de lier ces bibliothèques, sous certaines conditions, des programmes non libres.

Quand un programme est lié avec une bibliothèque, que ce soit statiquement ou avec une bibliothèque partage, la combinaison des deux constitue, en termes légaux, un travail combin, un driv de la bibliothèque originale. Il s'ensuit que la Licence Gnrale Publique ordinaire ne permet une telle liaison que si l'entière combinaison remplit ses critères et conditions de liberté. La Licence Gnrale Publique Limite permet de desserrer les critères permettant de lier d'autres codes avec la bibliothèque.

Nous appelons cette licence la Licence Gnrale Publique Limite (Lesser General Public License) car elle offre en fait une protection plus limite de la liberté de l'utilisateur que celle offerte par la Licence Gnrale Publique ordinaire. Elle offre aux autres développeurs de logiciels libres un avantage plus limité face aux programmes concurrents non libres. Ces désavantages sont la raison pour laquelle nous utilisons la Licence Gnrale Publique Limite ordinaire pour de nombreuses bibliothèques. Cependant la licence limite offre des avantages dans certaines circonstances spéciales.

Par exemple, en de rares occasions, il peut exister le besoin particulier d'encourager l'utilisation la plus large possible d'une certaine bibliothèque, afin qu'elle devienne un standard de facto. Pour arriver à cette fin, des programmes non libres doivent pouvoir utiliser la bibliothèque. Un cas plus fréquent est qu'une bibliothèque libre effectue les mêmes tâches que des bibliothèques non libres largement utilisées. Dans ce cas, il n'y a pas
grand chose gagner limiter la bibliothèque libre aux seuls logiciels libres, aussi nous utilisons la Licence Générale Publique Limite.

Dans d'autres cas, l'autorisation d'utiliser une bibliothèque particulière dans des programmes non libres permet un plus grand nombre de personnes d'utiliser un corpus très large de logiciels libres. Par exemple, l'autorisation d'utiliser la bibliothèque C GNU dans des programmes non libres permet plus de personnes d'utiliser le système d'exploitation GNU tout entier, de même que sa variante, le système d'exploitation GNU/Linux.

Bien que la Licence Générale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec la bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.

Les termes et conditions précis concernant la copie, la distribution et la modification suivent. Prenez une attention toute particulière aux différences entre un "travail bas sur la Bibliothèque" et un "travail utilisant la Bibliothèque". Le premier contient du code driv de la bibliothèque, tandis que le second doit être combiné avec la bibliothèque afin de pouvoir être exécuté.

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**TERMES ET CONDITIONS CONCERNANT LA COPIE, LA DISTRIBUTION ET LA MODIFICATION**

Cette Licence s'applique toute bibliothèque logicielle ou tout programme contenant une notice place par le titulaire de la réservation de droits (copyright) ou toute autre partie autorisé indiquant que ce logiciel peut être distribué suivant les termes de cette Licence Générale Publique Limite (appelée ci-dessous "cette Licence"). Chacun des concessionnaires de cette Licence sera désigné en tant que "Vous".

Une "bibliothèque" signifie une collection de fonctions logicielles ou de données prérées de façon à être liées facilement des programmes applicatifs (utilisant tout ou partie de ces fonctions et données) afin de former des exécutables.

La "Bibliothèque", ci-dessous, se réfère toute telle bibliothèque logicielle ou travail qui a été distribué suivant ces termes. Un "travail bas sur la Bibliothèque" signifie soit la Bibliothèque ou tout travail driv pouvant être soumis aux lois de propriété intellectuelle: c'est-dire un travail contenant la Bibliothèque ou une portion de celle-ci, soit en copie conforme, soit avec des modifications ou traduits directement dans une autre langue. (Dans la suite ci-dessous, les traductions sont incluses sans limitation dans le terme modification.)

Le "code source" d'un travail signifie la forme préférée du travail permettant d'y effectuer des modifications. Pour une bibliothèque, le code source complet signifie tout le code source de tous les modules qu'elle contient, plus tous les fichiers de définition d'interface associés, plus les scripts utilisés pour contrôler la compilation et l'installation de la bibliothèque.

Les activités autres que la copie, la distribution et la modification ne sont pas couvertes par cette Licence; elles sont en dehors de son tendue. L'action d'exécuter un programme utilisant la Bibliothèque n'est pas restreinte et les
résultats produits par un tel programme ne sont couverts que si leur contenu constitue un travail bas sur la Bibliothèque (indépendamment de l'utilisation de la Bibliothèque dans un outil utilisé pour l'écrire). Que ce soit ou non le cas dépend de ce que réalise la Bibliothèque, et de ce que fait le programme utilisant la Bibliothèque.

</sect2>

<sect2 id="sect1" label="1">
<title>Section 1</title>
<para>Vous pouvez copier et distribuer des copies conformes du code source complet de la Bibliothèque que vous recevez, sur tout support, pourvu que vous publiez scrupuleusement et de façon appropriée sur chaque copie la notice de réservation de droit (copyright) et un déni de garantie; gardez intactes toutes les notices qui se réfèrent cette Licence et l'absence de toute garantie; et distribuez une copie de cette Licence en même temps que la Bibliothèque.</para>

<para>Vous pouvez demander un paiement pour l'action physique de transfert d'une copie et vous pouvez offrir une protection de garantie en change d'un paiement.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Section 2</title>
<para>Vous pouvez modifier votre ou vos copie(s) de la Bibliothèque ou toute portion de celle-ci et ainsi créer un travail bas sur la Bibliothèque et copier ou distribuer de telles modifications suivant les termes de la <link linkend="sect1">Section 1</link> ci-dessus, pourvu que vous satisfassiez également chacune de ces conditions: </para>
<orderedlist numeration="loweralpha">
<li><para>Le travail modifié doit être lui-même une bibliothèque logicielle.</para></li>
<li><para>Vous devez assurer que les fichiers modifiés comportent des notices vides tablissant que vous avez changé les fichiers et la date de ces changements.</para></li>
<li><para>Vous devez assurer que l'ensemble du travail pourra être licencié sans frais toute tierce partie suivant les termes de cette Licence.</para></li>
<li><para>Si une facilit dans la bibliothèque modifie référence une fonction ou une table de données fournir par une application utilisant la facilit, autre qu'un argument pass quand la facilit est invoquée, alors vous devez faire un effort en toute bonne foi pour vous assurer que, dans l'eventualité où une application ne fournirait pas une telle fonction ou table, la facilit restera opérationnelle et effectuera une partie quelconque de sa finalité de façon sensée.</para></li>
</orderedlist>

(Par exemple, une fonction dans une bibliothèque pour calculer des racines carrées a une finalité qui est totalement définie indépendamment de l'application. Par conséquent, la Sous-section 2d requiert que toute fonction fournie par l'application ou table utilisée par cette fonction doit être optionnelle si l'application n'en fournit pas: la fonction racine carrée doit encore pouvoir calculer des racines carrées.)</para>

<para>Ces obligations s'appliquent au travail modifié dans son entier. Si des sections identifiables de ce travail ne sont pas drives dans la Bibliothèque, et peuvent être raisonnablement considérés comme des travaux indépendants et spars par eux-mêmes, alors cette Licence et ses termes, ne s'appliquent pas ces sections, dès lors que vous les
distribuez en tant que travaux spars. Mais quand vous distribuez les mêmes sections en tant que composants d'un ensemble constituant un travail bas sur la Bibliothèque, la distribution de l'ensemble doit se faire suivant les termes de cette Licence, dont les autorisations accordées d'autres obteneurs de licences s'endent la totalité de l'ensemble et donc pour chacun des composants indépendamment de qui les a crit.</para>

<Apara>Aussi, ce n'est pas l'intention de cette section de clamer des droits ou de contester vos droits sur des travaux crits entièrement par vous; l'intention est plutôt d'exercer le droit de contrôler la distribution des travaux drivs ou collectifs bas sur la Bibliothèque.</Apara>

<Apara>De plus, la simple agrégation avec la Bibliothèque (ou avec un travail bas sur la Bibliothèque) d'un autre travail non bas sur la Bibliothèque sur un même volume de stockage ou un support de distribution n'amène pas cet autre travail dans le champ d'application de cette Licence.</Apara>

</orderedlist></para>

</sect2>

<sect2 id="sect3" label="3">
<title>Section 3</title>

</sect2>

<sect2 id="sect4" label="4">
<title>Section 4</title>

</sect2>

<para Vous pouvez choisir d'appliquer les termes de la Licence Générale Publique GNU ordinaire au lieu de deux de cette Licence une copie donnée de cette Bibliothèque. Pour le faire, vous devez modifier les notices qui se réfèrent cette Licence, de sorte qu'ils se réfèrent plutôt la Licence Générale Publique GNU version 2, au lieu de cette Licence. (Si une version officielle plus récente que la version 2 de la Licence Générale Publique GNU ordinaire a été publiée, alors vous pouvez spécifier plutôt cette version si vous le souhaitez.) N'effectuez aucun autre changement ces notices.</para>

<para>De que ce changement a été fait dans une copie donnée, il est irréversible pour cette copie et donc la Licence Générale Publique GNU ordinaire s'appliquera toutes les copies suivantes et tous travaux drivs effectus partir de cette copie.</para>

<para>Cette option est utile quand vous souhaitez copier une partie du code de la Bibliothèque en un programme qui n'est pas une bibliothèque.</para>

<para>Vous pouvez copier et distribuer la Bibliothèque (ou une portion ou un driv de celle-ci, suivant les termes de la Licence Générale Publique GNU ordinaire) sous forme de code objet ou exécutable suivant les termes des Sections 1 et 2 ci-dessus, pourvu que vous l'accompagniez avec le code source correspondant sous forme lisible par une machine, qui doit être distribué suivant les termes des Sections 1 et 2 ci-dessus sur un support utilis habituellement pour l'échange de logiciels.</para>

<para>Si la distribution du code objet se fait en offrant l'accès à la copie depuis un emplacement désigné, alors une offre d'accès équivalente pour copier le code source depuis le même emplacement satisfait l'obligation de distribuer le code source, même si des parties tierces ne sont pas obliges de copier simultanément le source en même temps que le
Un programme qui ne contient aucun driv d'une quelconque portion de la Bibliothèque, mais est conçu pour travailler avec la Bibliothèque en tant compil ou li avec cette Bibliothèque, est appel un <quote>travail utilisant la Bibliothèque</quote>. Un tel travail, pris isolément, n'est pas un travail driv de la Bibliothèque et tombe par conséquent hors du champ d'application de cette Licence.</para>

Cependant, la liaison avec la Bibliothèque d'un <quote>travail utilisant la Bibliothèque</quote> crée un exécutable qui est un driv de la Bibliothèque (car il contient des portions de la Bibliothèque), plutôt qu'un <quote>travail utilisant la Bibliothèque</quote>. L'exécutable est par conséquent couvert par cette Licence. La <link linkend="sect6">Section 6</link> tablitr les termes de distribution de tels exécutables.</para>

Quand un <quote>travail utilisant la Bibliothèque</quote> utilise des éléments d'un fichier d'entrée faisant partie de la Bibliothèque, le code objet de ce travail peut être un travail driv de la Bibliothèque même si son code source ne l'est pas. Cette définition prendra son sens tout particulièrement si le travail peut être lié sans la Bibliothèque ou si le travail est lui-même une bibliothèque. Les délimitations de ce cas ne sont pas définies de façon précise par la loi.</para>

Si un tel fichier objet utilise uniquement des paramètres numériques, des schémas et accesseurs de structures de données et de petites macros et petites fonctions en ligne (dix lignes de source ou moins en longueur), alors l'utilisation du fichier objet est non restreinte, indépendamment du fait que cela constitue également un travail driv. (Les règles de la <link linkend="sect6">Section 6</link> s'appliqueront tout de même aux exécutables contenant ce code objet plus des portions de la Bibliothèque.)</para>

Autrement, si le travail est un driv de la Bibliothèque, vous pouvez distribuer le code objet pour le travail suivant les termes de la <link linkend="sect6">Section 6</link>. Les règles de la <link linkend="sect6">Section 6</link> s'appliquent alors tout exécutable contenant ce travail, que ce dernier soit ou ne soit pas lié directement avec la Bibliothèque elle-même.</para>

Par exception aux Sections ci-dessus, vous pouvez aussi combiner ou lier un <quote>travail utilisant la Bibliothèque</quote> avec la Bibliothèque pour produire un travail contenant des portions de la Bibliothèque et distribuer ce travail suivant les termes de votre choix, pourvu que ces termes permettent la modification du travail pour les besoins propres du client et l'ingénierie inverse permettant le débogage de telles modifications.</para>

Vous devez donner une notice explicite et vidente avec chaque copie du travail montrant que la Bibliothèque est utilisée dans celui-ci et que la Bibliothèque est couverte par cette Licence. Vous devez fournir une copie de cette Licence. Si le travail lors de son exécution affiche des Notices de droits et propriétés intellectuelles, vous devez inclure la notice pour la Bibliothèque parmi celles-ci, ainsi qu'une référence vers une copie de cette Licence. Vous devez aussi effectuer l'une des tâches suivantes: <orderedlist numeration="loweralpha">

<liitem>
Accompagner le travail avec le code source complet correspondant lisible par une machine pour la Bibliothèque incluant tout changement quelconque qui ont ts effectus dans le travail (qui doit tre distribu suivant les Sections et ci-dessus); et, si le travail est un exécutable li avec la Bibliothèque, fournir la totalité du travail utilisant la Bibliothèque lisible par une machine, sous forme de code objet ou source, de sorte que l'utilisateur puisse modifier la Bibliothèque et la relier pour produire un exécutable modifié contenant la Bibliothèque modifiée. (Il est admis que l'utilisateur qui change le contenu de fichiers de définition dans la Bibliothèque ne sera pas nécessairement capable de recompiler l'application pour utiliser les définitions modifiées.)</para>

Utiliser un mécanisme approprié de bibliothèque partage pour lier avec la Bibliothèque. Un mécanisme approprié est celui qui (1) utilise l'exécution une copie de la Bibliothèque déjà présente sur le système de l'utilisateur, plutôt que de copier les fonctions de bibliothèque dans l'exécutable et (2) fonctionnera correctement avec une version modifiée de la Bibliothèque, si l'utilisateur en installe une, tant que la version modifiée est compatible au niveau de l'interface avec la version avec laquelle le travail a été réalisé.</para>

Accompagner le travail avec une offre écrite, valide pour au moins trois ans, de donner au même utilisateur les éléments spécifiques dans la Sous-section 6a, ci-dessus, contre un paiement n'excédant pas le coût requis pour effectuer cette distribution.</para>

Si la distribution du travail est faite en offrant l'accès une copie depuis un emplacement désigné, offrir un accès équivalent depuis le même emplacement pour copier les éléments spécifiques ci-dessus.</para>

Vérifier que l'utilisateur a déjà reçu une copie de ces éléments ou que vous en avez déjà envoyé une copie cet utilisateur.</para>

Pour un exécutable, la forme requise du travail utilisant la Bibliothèque doit inclure toutes les données et programmes utilitaires nécessaires permettant de reproduire l'exécutable partir de ceux-ci. Cependant, par exception, les matériels distribuer n'ont pas besoin d'inclure tout ce qui est normalement distribué (sous forme source ou binaire) avec les composants majeurs (compilateur, noyau et autres composants similaires) du système d'exploitation sur lequel l'exécutable fonctionne, moins que ce composant lui-même accompagne l'exécutable.</para>

Il peut arriver que ces conditions nécessaires contredisent les restrictions de licence d'autres bibliothèques propriétaires qui n'accompagnent pas normalement le système d'exploitation. Une telle contradiction signifie que vous ne pouvez pas les utiliser en même temps que la Bibliothèque dans un exécutable que vous distribuez.</para>

Vous pouvez placer les facilités de bibliothèque qui sont un travail bas sur la Bibliothèque cte cte dans une unique bibliothèque avec d'autres facilités de bibliothèque non couvertes par cette Licence et distribuer une telle
bibliothèque combine, pourvu que la distribution spare du travail bas sur la Bibliothèque et des autres facilités de bibliothèque soient autrement permises et pourvu que vous effectuiez chacune des deux tâches suivantes:</para>

<orderedlist numeration="loweralpha">  
<li><para>Accompagner la bibliothèque combine avec une copie du même travail bas sur la Bibliothèque, non combine avec d'autres facilités de bibliothèque. Cela doit être distribué suivant les termes des Sections ci-dessus.</para></li>  
<li><para>Donner une notice vidente avec la bibliothèque combine du fait qu'une partie de celle-ci est un travail bas sur la Bibliothèque et expliquant où trouver la forme non combine accompagnante du même travail.</para></li> 
</orderedlist>
Section 11

Si, par suite d'une décision judiciaire ou d'une allégation d'infraction d'un brevet ou pour toute autre raison (non limitée aux problèmes de brevets), des conditions vous sont imposées (que ce soit par une ordonnance de justice, une transaction amiable ou contractuelle ou toute autre raison) qui contredisent les conditions de cette Licence, elles ne vous dégagent pas des obligations de cette Licence. Si vous ne pouvez pas effectuer une distribution de façon satisfaite simultanément vos obligations sous cette Licence et toute autre obligation pertinente, alors vous ne pouvez en aucun cas distribuer la Bibliothèque. Par exemple, si une licence de brevet ne permettait pas une redistribution de la Bibliothèque sans paiement de royalties par tous ceux qui en reçoivent des copies directement ou indirectement travers vous, alors la seule façon pour vous de satisfaire la fois les conditions imposées et cette Licence sera de vous abstenir complètement de toute distribution de la Bibliothèque.

Si toute portion de cette section est jugée invalide ou inapplicable de plein droit dans une quelconque circonstance particulière, le maximum possible de cette section est supposé s'appliquer et la section dans son tout est suppose toujours applicable dans toutes les autres circonstances.

Le but de cette section n'est pas de vous obliger d'enfreindre un quelconque brevet ou d'autres prétentions des droits de propriété ou de contester la validité de telles prétentions; cette section a pour seul but de protéger l'intégrité du système de distribution des logiciels libres tel qu'il fonctionne au moyen de pratiques de licences publiques. De nombreuses personnes ont fait des contributions généreuses à la gamme très tendue de logiciels distribués via ce système, en comptant sur l'application rigoureuse et cohérente de ce système; il appartient seulement à l'auteur ou au donateur de décider si il ou elle désire distribuer un logiciel via un autre système et le concessionnaire de licence ne peut pas imposer ce choix.

Cette section a pour but d'établir de façon très claire ce que l'on croit être une conséquence nécessaire du reste de cette Licence.

Section 12

Si la distribution ou l'usage de la Bibliothèque est restreinte dans certains pays, que ce soit par des brevets ou des interfaces soumises au droit de propriété intellectuelle, le titulaire original de ce droit de propriété qui place la Bibliothèque sous la couverture de cette Licence peut ajouter une limitation géographique explicite de distribution excluant ces pays, afin que la distribution soit permise seulement dans ou parmi les pays non exclus. Dans un tel cas, cette Licence incorpore la limitation comme si elle tait réputée citée dans le corps de cette Licence.

Section 13

La Free Software Foundation peut publier des versions révisées ou nouvelles de la Licence Générale Publique Limite de temps en temps. De telles nouvelles versions resteront similaires à l'esprit de la présente version, mais peut différer dans son détail afin de traiter de nouveaux problèmes ou préoccupations.

Chaque version reçoit un numéro de version distinctif. Si la Bibliothèque spécifie un numéro de version de cette Licence qui s'applique à celle-ci et toute autre version future, vous avez l'option de suivre les termes et conditions de cette version ou de toute version ultérieure publiées par la Free Software Foundation. Si la
Bibliothèque ne spécifie pas un numéro de version de licence, vous pouvez choisir n’importe quelle version publie par la Free Software Foundation.</para>

</sect2>

<sect2 id="sect14" label="14">
<title>Section 14</title>

<para>Si vous souhaitez incorporer des parties de la Bibliothèque dans tout autre programme libre dont les conditions de distribution sont incompatibles avec ces termes, crivez l'auteur ou demandez son autorisation. Pour les logiciels dont les droits de propriété sont détenus par la Free Software Foundation, crivez la Free Software Foundation; nous faisons parfois des exceptions pour celui-ci. Notre décision sera guide par les deux finalités de préserver le statut libre de tous les drivs de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.</para>

</sect2>

<sect2 id="sect15" label="15">
<title>ABSENCE DE GARANTIE</title>

<subtitle>Section 15</subtitle>

<para>PUISQUE CETTE BIBLIOTHÈQUE FAIT L'OBJET D'UNE LICENCE QUI VOUS EST ACCORDE SANS FRAIS, IL N'Y A AUCUNE GARANTIE POUR LA BIBLIOTHÈQUE, DANS LES LIMITES AUTORISES PAR LA LOI APPLICABLE. MOINS QUE CELA NE SOIT TABLI DIFFREMENT PAR CRIT, LES TITULAIRES DE DROITS DE PROPRIET OU LES AUTRES PARTIES FOURNISSENT LA BIBLIOTHÈQUE TELLEQUELLE SANS GARANTIE D'AUCUNE SORTE, QU'ELLE SOIT EXPRIME OU IMPLICITE, CECI INCLUANT, MAIS SANS LIMITATION, LES GARANTIES IMPLICITES DE MARCHANDABILIT ET D'ADQUATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ SEUL LE RISQUE TOUT ENTIER CONCERNANT LA QUALIT ET LA PERFORMANCE DE LA BIBLIOTHÈQUE. DANS L'EVENTUALIT O LA BIBLIOTHÈQUE S'AVERAIT DFECTUEUSE, VOUS ASSUMEREZ VOUS-MME LE COT DE TOUS LES SERVICES, RPARATIONS OU CORRECTIONS NCESSAIRES.</para>

</sect2>

<sect2 id="sect16" label="16">
<title>Section 16</title>

<para>EN AUCUNE AUTRE CIRCONSTANCE QUE CELLES REQUISES PAR LA LOI APPLICABLE OU ACCORDES PAR CRIT, UN TITULAIRE DE DROIT DE PROPRIET, OU TOUT AUTRE PARTIE QUI PEUT MODIFIER OU REDISTRIBUER LA BIBLIOTHÈQUE COMME PERMIS CI-DESSUS, NE PORRA TRE TENU POUR RESPONSABLE ENVERS VOUS POUR LES DOMMAGES, INCLUANT TOUS DOMMAGE GNRAL, SPCIAL, ACCIDENTEL OU INDUCT SURVENANT PAR SUITE DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LA BIBLIOTHÈQUE CECI INCLUANT MAIS SANS LIMITATION LA PERTE DE DONNES OU L'INEXACTITUDE DES DONNES RETOURNES OU LES PERTES SUBIES PAR VOUS OU DES PARTIES TIERCES OU L'INCAPACIT DE LA BIBLIOTHÈQUE FONCTIONNER AVEC TOUT AUTRE LOGICIEL), MME SI UN TEL TITULAIRE OU TOUTE AUTRE PARTIE A T AVIS DE LA POSSIBILIT DE TELS DOMMAGES.</para>

</sect2>

</sect1>

</article>
Edonork egin eta banatu ditzake lizentzia-dokumentu honen kopia literalak, baina debekatuta dago dokumentuan aldaketak egitea.

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2. Offer you this license which gives you legal permission to copy, distribute and/or modify the software.
Horrez gainera, egile oro eta geure burua babestearen, ziurtatu nahi dugu jende guztiak ulertzen duela software libre honek ez duela inolako bermerik. Norbaitek softwarea aldatu eta beste bati pasatzenazio, hartzailak, berak jaso duena ez dela jatorrizkoa jakitea nahi dugu, besteak ere horrez sortzen diren arazoak kalterik egin ez diezaioten jatorrizkoaren egilearen ospe edo edo izen onari.


Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituzu jarraian:

KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK


Lizentzia honi dagozkion jarduera bakarrak kopiatzeari, banatzeari eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kampto daude. Programa exekutatzea ez dago mugatuta, eta Programaren emaitza euskarri zen lizentziaren da edukia Programan oinarritutako lana bada soilik (Programa exekutatuz egina izan edo ez). Egia den edo ez, programak egiten duenaren araberakoa da.

Lizentziarri honi dagozkion jarduera bakarrak kopiatzeari, banatzeari eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kampto daude. Programa exekutatzea ez dago mugatuta, eta Programaren emaitza euskarri zen lizentziaren da edukia Programan oinarritutako lana bada soilik (Programa exekutatuz egina izan edo ez). Egia den edo ez, programak egiten duenaren araberakoa da.

Kuota kobra dezaikoa kopia ematearen ekintza fisikoagatik, eta zure esku dago garantia-babesak ematea kuota baten truke.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
identifikagarriak ez badira Programatik eratorritakoak, eta ondorioz lan independente eta bereizitza beldaraino. Baina atal horiek Programan oinarritutako lan oso horren banaketa Lizentzia honen baldintzak betez egin behar da, eta lizentzia honek beste lizentziadun batzuetan dituen baimenek osorik hartzen dute, eta, beraz, zati bakoitza eta zati guztiak, nork idatziak diren kontuan hartu gabe. 

Honela, beraz, atal honen xedea ez da zuk osoki idatzitako lanaren eskubideak eskatu edo exijitzea, baizik eta Programan oinarritutako lan eratorrien edo talde-lanen banaketa kontrolatzeko eskuidea baliatzea.

Horrez gainera, Programari (edo programan oinarritutako lan bati) Programan oinarritu gabeko beste lan bat gehitzen bazaio biltegi-bolumen batean edo banaketarako euskarri batean, gehitze hutsarengatik beste lan hori ez da sartuko Lizentzia honen esparruan.

You may copy and distribute the Program (or a work based on it, under <link linkend="sect2">Section 2</link>) in object code or executable form under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that you also do one of the following: 

Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above on a medium customarily used for software interchange; or, 

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or, 

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

Exekutagarri edo objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide baliokidea eskaintza iturburu-kodearen banaketa gisa hartzen da, nahiz eta hirugarren alderdian ez diren behartuta objektu-kodearekin batera iturburua kopiatzen.</sect2>

Lizentzia honen baitan espresuki adierazitakoa bete gabe debekatuta dago Programa kopiatu, aldatu, azpilizentziatu edo banatzea. Beste era batean Programa kopiatu, aldatu, azpilizentziatu edo banatzeko saio oro deuseza izango da, eta Lizentzia honen baitan dazkazun eskubideak automatikoki kenduko zaizkizun deitzen. Dena den, Lizentzia honen pean zuregandik kopiatzeko edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen baditzute.</sect2>


Epaitegi-ebazpen baten ondorioz edo patente-eskubidea urratu dela dioen salaketa baten ondorioz, edo beste edozein arrazoirengatik (ez bakarrik patente-gaietako dagokiena) Lizentzia honen baldintzekin bat ez datozen baldintzak ezartzen bazaia kizu, ez zara Lizentzia honen baldintzak bete beharretik libratuko. Ezinezkooa bazaizu Lizentzia honetako baldintzak eta dagozkion beste betebehar batzuk betez banatzea, ezingo duzu Programa inola ere banatu. Adibidez, patente-lizentzia batek ez balu onartuko zure bitartez zuzenean edo zeharka kopiak jasotzen dituztenek Programa egile-eskubiderik gabe birbanatzea, Programa ez banatzea litzateke bai patentea, bai Lizentzia hau betetzeko modu bakarra.</para>

Atal honen zatiren bat baliogabea edo bete ezina bada egoera bereziren batean, atalaren gainerrako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</para>

Atal honen xedea ez da patenteak edo jabetza-eskubideen eskakizunen edo bete ezina da baliogabeko edo beste egoeretan aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</para>

Zenbait herrialdetan Programaren banaketa edo/eta erabilera mugatzen baldin badute patenteen edo copyright-dun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango duenak bidez banaketa horri izango du, sistema horren bide batera libratu ahal izango du. Sistema horren bideak edo bete ezin da bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak edo bete ezin duenak bideak


Lega aplikagarria edo idatzi jasotako borondatezko akordio batek hal a eskatzen duelako ez bada, ezin izango diozu jabetza intelektualaren eskubideunari edo goian baimentzen den bezala programa birbanatu edo alda dezakeen beste alderdi bat irantzukizunik eskatu zu kalteengatik, ez programaren erabilerraren edo erabiltzea ezgaitasunaren ondorioz sor daitezkeen kalte orokor, berezi, gehigarri edo ondoriozkoengatik (besteak beste, datuak galteza edo hondatzea, edo zuk edo beste norbaitek jasandako galera, edo beste programekin lan egiteko programaren huts egiteren bat), nahiz eta eskubideunari edo beste norbait horri kalteak izan litezteela aurreratik abisatuz izan.
Version: 1.0.1
Last Modified: Dec 16, 2000

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</sect1>

<para> <link linkend="fdl-invariant"> </link> <link linkend="fdl-cover-texts"> </link>, : </para>

<para> <link linkend="fdl-invariant"> </link> <link linkend="fdl-cover-texts"> </link> : </para>
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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<orderedlist numeration="loweralpha">
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    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
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    </para>
  </listitem>
</orderedlist>

<note>
  <title>Exception:</title>
  <para>
    If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
  </para>
</note>

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every part regardless of who wrote it.
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<para>
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the distribution of derivative or collective works based on the Program.
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In addition, mere aggregation of another work not based on the Program with the Program
(or with a work based on the Program) on a volume of a storage or distribution medium
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</para>
</sect2>

<sect2 id="sect3" label="3">
<title> 3</title>

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you also do one of the following:
</para>

<orderedlist numeration="loweralpha">
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<para>
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,
</para>
</li>
<li>
<para>
Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</para>
</li>
</orderedlist>
</sect2>
Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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</sect2>

<sect2 id="sect6" label="6">
<title> 6</title>

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</sect2>

<sect2 id="sect7" label="7">
<title> 7</title>

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<note>
<title>Exception:</title>
<para>If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.</para>
</note>

<br>

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<br>

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<br>  
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</orderedlist>
</para>
</sect2>
customarily used for software interchange; or,
</para>
</listitem>
</listitem>

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to be distributed under the terms of Sections 1 and 2 above on a medium customarily
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</para>
</listitem>
</listitem>

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distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
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</listitem>
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sect2 id="sect4" label="4"
<title>Odeljak 4</title>

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sect2 id="sect5" label="5"
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<sect2 id="sect7" label="7">
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<title>Odeljak 8</title>

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Para proteger cada distribuidor, ns queremos deixar claro que no h garantia para a bibioteca livre. Tambm, se a bibioteca modificada por outra pessoa e repassada, os recipientes devem saber que o que eles possuem no a verso original, para que a reputao do autor inicial no seja afetada por problemas que podem ter sido incluidos por outros.

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A maioria do software GNU, incluindo algumas bibliotecas,  coberto pela Licena Pblica Geral GNU. Esta licena, a Licena Pblica Geral Branda GNU (GNU Lesser General Public License) se aplica a certas bibliotecas especificas e particularmente diferente da Licena Pblica Geral (General Public License). Ns usamos esta licena para certas bibliotecas de forma a permitir relacionar estas bibliotecas com programas no-livres.

Quando um programa relacionado com uma bibioteca, seja estatisticamente ou usando numa bibioteca compartilhada, a combinao das duas , legalmente falando, um trabalho combinado, um trabalho derivado da bibioteca original. A Licena Pblica Geral portanto permite tal relacionamento somente se toda a combinao se encaixar no critrio de liberdade. A Lesser General Public License permite critrios mais maleveis para relacionar outro cdigo com a bibioteca.

Ns chamamos esta licena de Licena Pblica Geral <quote>Branda (Lesser)</quote> porque ela protege menos a liberdade dos usurios do que a Licena Pblica Geral (General Public Licence) normal. Ela tambm providencia a outros desenvolvedores de software livre menos vantagem na competio com programas no-livres. Estas desvantagens so a razo de usarmos Licena Pblica Geral (General Public License) para vrias bibliotecas. No entanto, a licena Branda prov vantagens em certas circunstncias especiais.

Por exemplo, em raras ocasies, pode haver uma necessidade especial de encorajar o maior uso possvel de certa bibioteca, de forma que ela se torne um padro. Para alcanar isso, programas no-livres devem ser permitidos a usar a bibioteca. Um caso mais ferente quando uma bibioteca livre faz o mesmo trabalho que bibliotecas no-livres muito usadas. Neste caso, h pouco a ganhar limitando a bibioteca somente para software livre, ento usamos a Licena Pblica Geral Branda (Lesser General Public License).
Em outros casos, permissão para usar uma biblioteca em particular em programas no-livres permite um número maior de pessoas usar uma grande variedade de software livre. Por exemplo, permissão para usar a Biblioteca GNU C em programas no-livres permite muito mais pessoas a usar todo o sistema operacional GNU, assim como sua variante, o sistema operacional GNU/Linux.

Apesar da Lesser General Public License ser menos protetora da liberdade dos usuários, ela assegura que o usuário de um programa que relacionado a Biblioteca tenha a liberdade e os recursos para executar aquele programa usando uma versão modificada da Biblioteca.

Os termos e condições precisos para cópia, distribuição e modificação seguem. Preste atenção na diferença entre um trabalho baseado numa biblioteca e um trabalho que usa uma biblioteca. O primeiro contém código derivado da biblioteca, enquanto o último deve ser combinado com a biblioteca para que funcione.

TERMOS E CONDIÇÕES PARA CóPIA, DISTRIBUIÇÃO E MODIFICAÇÃO

Este Acordo de Licença se aplica a qualquer biblioteca de software ou outro programa que contenha um aviso colocado pelo proprietário da licença ou outra parte autorizada dizendo que ele pode ser distribuído sob os termos desta Licença Pública Geral Branda (Lesser General Public License) (também chamada "esta Licença"). Cada licenciado referido como "você".

Uma "biblioteca" significa uma coleção de funções de software e/ou dados preparado de forma a ser convencionalmente relacionado com a aplicação de programas (que usa algumas destas funções e dados) para formar executáveis.

A "Biblioteca", abaixo, refere-se a qualquer biblioteca de software ou trabalho que tenha sido distribuído sob estes termos. Um "trabalho baseado na Biblioteca" significa ou que a Biblioteca ou qualquer trabalho derivado está sob a lei de direitos autorais: necessita ser dito que, um trabalho contendo uma Biblioteca ou uma porção dela, seja transcrito ou com modificações e/ou traduzida diretamente em outra língua. (Deste ponto em diante, tradução incluída sem limitação no termo "modificação".)

"Código fonte" para um trabalho significa a forma preferida de trabalho para fazer modificações no mesmo. Para uma biblioteca, o código fonte completo significa todo o código fonte para todos os módulos que ele contém, mais quaisquer arquivos de definição de interface associados, mais arquivos usados para controlar a compilação e instalação da biblioteca.

Atividades que não sejam cópia, distribuição e modificações no software cobertas por esta Licença; elas estão fora do alcance da Licença. O ato de executar um programa usando a Biblioteca no restrito, e o retorno deste programa coberto somente se os conteúdos dele constituem um trabalho baseado na Biblioteca (independente do uso da Biblioteca numa ferramenta para escrevê-la). Se isso verdade depende do que a Biblioteca faz e o que o programa que usa a Biblioteca faz.
Voc pode copiar e distribuir cpias transcritas do cdigo fonte completo da biblioteca ao receb-la, em qualquer meio, desde que voc clara e apropriadamente publique em cada cpi a nota de direito autoral apropriado e aviso legal de garantia; mantenha intactas todas as notificaes que referem a Licena e a ausncia de qualquer garantia; e distribua uma cpi desta Licena junto Biblioteca.}</sect2>

Voc pode cobrar uma taxa pelo ato fisico de transferncia da cpi, e voc pode por opo oferecer proteo de garantia em troca de uma taxa.}</sect2>

Voc pode modificar sua cpi ou cpias da Biblioteca ou qualquer poro dela, assim formando um trabalho baseado na Biblioteca, e copiar e distribuir tais modificaes ou trabalho sob os termos da <link linkend="sect1">Seo 1</link> acima, supondo que voc tambm atenda a todas suas condies: <orderedlist numeration="loweralpha">

<li><para>O trabalho modificado deve, por si s, ser uma biblioteca de software.</para></li>

<li><para>Voc deve fazer com que os arquivos modificados carreguem informaes proeminentes de que voc modificou os arquivos e a data de qualquer mudana.</para></li>

<li><para>Voc deve fazer com que todo o trabalho seja licenciado sob nenhuma taxa a todas as terceiras partes sob os termos desta Licena.</para></li>

<li><para>Se uma instalao numa Biblioteca modificada refere a uma funo ou a uma tabela de dados a ser fornecida por um programa aplicativo que use a instalao, outro que como um argumento passado quando a instalao e invocada, ento voc deve fazer um esforo de boa f para garantir que, no evento de uma aplicao no fornecer tal funo ou tabela, a instalao ainda opere, e execute qualquer parte desta proposta continuando significativa.</para>

<para>(Por exemplo, a funo na biblioteca para calcular razes quadradas tem um propsito que totalmente bem definido independente da aplicao. Dessa forma, a 2 Subseo requisita que qualquer funo suprida pela aplicao ou tabela usada por essa funo deve ser opcional: se a aplicao no suprir isto, a funo da raiz quadrada ainda deve calcular razes quadradas.)</para>

<li><para>Estes requisitos se aplicam ao trabalho modificado como um todo. Se sees identificveis do trabalho no so derivadas da Biblioteca, e podem ser razoavelmente considerados trabalhos independentes e separados em si, ento esta Licena e seus termos, no se aplicam aquelas sees quando voc as distribui como trabalhos separados. Mas quando voc distribui as mesmas sees como parte de um todo que um trabalho baseado na Biblioteca, a distribuio do todo deve ser nos termos dessa Licena, da qual as permisses para outros licenciados se aplicam para todo o inteiro, e assim para toda e cada parte, independente de quem a escreveu.</para>

<li><para>Assim, no a inteno desta seo reivindicar direitos ou contestar os seus direitos de trabalho escrito
completamente por voc; preferencialmente, a inten exercitar o direito de controlar a distribui de trabalhos
coleto e derivados baseados na Biblioteca.

<para>Em adio, a mera agregao de qualquer trabalho no baseado na Biblioteca com a Biblioteca (ou com um
trabalho baseado na Biblioteca) num volume de armazenamento ou meio de distribui no traz a outro trabalho sob o
alcance desta Licena.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Seo 3</title>

<para>Voc pode optar por aplicar os termos de licena da Licena Pblica Geral GNU normal(GNU General Public
License) ao invs desta Licena para dada cpia da Biblioteca. Para fazer isto, voc deve alterar todas as notificaes que
se referem a esta Licena, para que elas refiram-se a Licena Pblica Geral GNU normal(GNU General Public License),
verso 2, invs desta Licena.(Se uma verso mais nova que a verso 2 da Licena Pblica Geral GNU(GNU General Public
License) tiver aparecido ento voc pode especificar esta verso se desejar.) No faa nenhuma outra mudana nestas
modificaes.</para>

<para>Uma vez feita a mudana em determinada cpia, isto irreversvel para esta cpia, ento a Licena Pblica Geral
GNU normal se aplica a todas as cpias subsequentes e trabalhos derivados feitos desta cpia.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Voc pode copiar e distribuir a Biblioteca (ou uma poro ou derivada dela, sob <link linkend="sect2">Seo
2</link>) em cdigo objetivo ou de forma executvel sob os termos das Sees <link linkend="sect1">1</link> e <link
linkend="sect2">2</link> acima fornecido que voc acompanhe-a com o cdigo-fonte correspondente em formato lido
por mquina, que deve ser distribuido sob os termos das Sees <link linkend="sect1">1</link> e <link
linkend="sect2">2</link> acima num meio costumeiramente usado para transao de software.</para>

<para>Se a distribui do cdigo feita oferecendo acesso a cpia de um local especifico, ento oferecer acesso
equivalente cpia do cdigo-fonte do mesmo local satisfaz a requerimento de distribuir o cdigo fonte, mesmo se
terceiros no tiverem interesse de copiar a fonte junto ao cdigo em questo.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Um programa que contm nenhum derivado de qualquer poro da Biblioteca, mas desenvolvido para
trabalhar com a Biblioteca por ser compilado com ela ou ser relacionado a ela, chamado <quote>trabalho que usa a
Biblioteca</quote>. Tal trabalho, em isolamento, no um trabalho derivado da Biblioteca, e desta forma, fica fora da competência desta Licença.</para>

<para>No entanto, relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca cria um executável que derivado da Biblioteca (porque ela contém pores da Biblioteca), mais do que um <quote>um trabalho que usa a biblioteca</quote>. O executável desta forma coberto por esta Licença. <link linkend="sect6">Seo 6</link> diz os termos para a distribuição de tais executáveis.</para>

<para>Quando um <quote>trabalho que usa a Biblioteca</quote> usa material de um arquivo pai que parte da Biblioteca, o código em quanto o trabalho pode ser um trabalho derivado da Biblioteca mesmo que o código fonte no seja. Se isso verdade especialmente significante se o trabalho pode ser relacionado sem a Biblioteca, ou se o trabalho por si é uma biblioteca. O princípio para isso ser verdade no precisamente definido por lei.</para>

<para>Se tal arquivo objeto usa somente parâmetros numéricos, o layout da estrutura de dados e acessórios, e pequenas macros e pequenas funções internas (dez linhas ou menos de tamanho), então o uso do objeto irrestrito, independente de ser um trabalho derivado legalmente. (Executáveis contendo este código objeto e pores da Biblioteca ainda ficam sob a <link linkend="sect6">Seo 6</link>.)</para>

<para>De outra forma, se o trabalho for derivado da Biblioteca, você pode distribuir o código objeto para o trabalho sob os termos da <link linkend="sect6">Seo 6</link>. Quaisquer executáveis contendo este trabalho também ficam sob a <link linkend="sect6">Seo 6</link> estando, ou não, relacionados diretamente a Biblioteca.</para>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Como uma exceção as Sees acima, você pode também combinar ou relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca para produzir um trabalho contendo pores da Biblioteca, e distribuir este trabalho sob os termos de sua escolha, dado que os termos permitam modificação do trabalho para o uso do próprio cliente e engenharia reversa para depuração destas modificações.</para>

<para>Você deve dar aviso proeminente com cada cópia do trabalho que esta Biblioteca usada nela e que a Biblioteca e seu uso são cobertos por esta Licença. Você deve fornecer uma cópia desta Licença. Se o trabalho, durante esta execução exibe avisos de direitos autorais, você deve incluir o aviso de direito autoral para a Biblioteca entre eles, assim como uma referência direcionando o usuário a cópia desta Licença. Também, você deve fazer umas destas coisas: <orderedlist numeration="loweralpha">
<li>Acompanhe o trabalho com o correspondente código-fonte em formato lido por máquina para a Biblioteca, incluindo quaisquer mudanças que foram usadas no trabalho(qual deve ser distribuído sob as Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima); e, se o trabalho um executável relacionado com a Biblioteca, com o <quote>trabalho que usa a Biblioteca</quote> completo em formato lido por máquina, como código objeto e/ou código-fonte, para que o usuário possa modificar a Biblioteca e ento relacionar novamente para produzir um executável modificado contendo a Biblioteca modificada.( entendido que o usuário que modifica os contidos de arquivos de definição da Biblioteca no ser necessariamente hbeis a recompilar a aplicação para usar as definições modificadas.)</li>
<li>Use um mecanismo de biblioteca compartilhada compatível para relacionamento com a Biblioteca. Um
mecanismo compatível um que (1) usa no tempo de execução uma cópia da biblioteca já presente no sistema do computador do usuário, ao invés de copiar funções da biblioteca no executável, e (2) v operar apropriadamente com uma versão modificada, se o usuário instalar uma, contanto que a versão modificada seja compatível com a interface da versão na qual o trabalho foi desenvolvido.

Acompanhe o trabalho com uma oferta escrita, válida por pelo menos três anos, de dar ao mesmo usuário os materiais especificados na <link linkend="sect6a">Subseção 6a</link>, acima, por um valor no maior que o custo de efetuar esta distribuição.

Se a distribuição do trabalho feita oferecendo acesso à cópia de um local específico, ofereça acesso equivalente cópia dos materiais acima especificados, do mesmo local.

Para um executável, a forma requisitada de <quote>trabalho que usa a Biblioteca</quote> deve incluir qualquer dado ou programas utilitários necessários para reprodução do executável nele. No entanto, como uma exceção especial, os materiais a serem distribuídos no precisam incluir nada que normalmente distribuído (seja na forma de fonte ou binário) com os componentes principais (compilador, kernel, e assim por diante) do sistema operacional no qual o executável funciona, ao menos que o componente em si acompanhe o executável.

Voc pode posicionar as instalações da biblioteca que só um trabalho baseado na biblioteca lado-a-lado numa biblioteca juntas a outras instalações da biblioteca no cobertas por esta Licença, e distribuir tal biblioteca combinada, dado que a distribuição separada do trabalho baseado na Biblioteca e das outras instalações da biblioteca seja permitida, e dado que você faça estas duas coisas:

Acompanhar a biblioteca combinada com uma cópia do mesmo trabalho baseado numa Biblioteca, no combinada com quaisquer outras instalações de biblioteca. Isto deve ser distribuído sob os termos de licença das Sees acima.

De informação proeminente com a biblioteca combinada do fato que parte dele um trabalho baseado na
Biblioteca, e explicando onde achar o formato no combinado do mesmo trabalho, que acompanha.</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>Seo 8</title>

<para>Você não pode copiar, modificar, sublicenciar, relacionar com, ou distribuir a Biblioteca, exceto como expressamente determinado sob esta Licença. Qualquer tentativa do contrário de copiar, modificar, sublicenciar, relacionar com, ou distribuir a Biblioteca nula, e automaticamente terminar com seus direitos sob esta Licença. No entanto, as partes que receberem cópias, ou direitos, sob esta Licença no terão suas licenças terminadas ao longo que tais partes se mantenham em total plena conformidade.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Seo 9</title>

<para>Você não requisitado a aceitar esta Licença, já que você não a assinou. No entanto, nada te d permissão de modificar ou distribuir a Biblioteca trabalhos derivados dela. Estas ações são proibidas por lei se você não aceita esta Licença. Desta forma, por modificar ou distribuir a Biblioteca (ou qualquer trabalho baseado na Biblioteca), você indica sua aceitação desta Licença para o fazer, e todos os seus termos e condições para cópia, distribuição ou modificação da Biblioteca ou trabalhos baseados na mesma.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Seo 10</title>

<para>Toda vez que você distribuir a Biblioteca (ou qualquer trabalho baseado na Biblioteca), o recipiente automaticamente recebe uma licença do licenciador original para copiar, distribuir, relacionar ou modificar o assunto da Biblioteca a estes termos e condições. Você não pode impor maiores restrições ao exercício dos direitos dados ao recipiente, por meio desta. Você não responsável por forçar o cumprimento dos termos desta Licença por terceiros.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Seo 11</title>

<para>Se, como uma consequência de julgamento em tribunal ou alegação infração de patente ou por qualquer outra razão (no limitado a casos de patente), as condições so impostas a você (seja por ordem da corte, acordo ou de qualquer outra natureza) que contradiga as condições desta Licença, elas no excluem você das condições desta Licença. Se você não pode distribuir de forma a satisfazer simultaneamente suas obrigações sob esta Licença e quaisquer outras obrigações pertinentes, ento como consequência você não pode distribuir a Biblioteca de forma alguma. Por exemplo, se uma licença de patente no permitir redistribuição da Biblioteca livre de royalties por todos aqueles que recebem cópias direta ou indiretamente por você, ento a única maneira de você satisfazer tanto ela quanto esta Licença seria prevenir completamente a distribuição da Biblioteca.</para>
</sect2>

<para>Se qualquer poro desta seo for considerada inválida ou sem força sob qualquer circunstância particular, o
equilbrio da seo intencionada a ser aplicada, e a seo como um todo intencionada a ser aplicada sob quaisquer outras circunstncias.<para>

<para>No o intuito desta seo te induzir a infringir quaisquer patentes ou proclamaes de propriedade por direito ou contestar a validade de tais proclamaes; esta seo tem a proposta nica de proteger a integridade do sistema de distribuição do software livre que implementado pelas prticas de licena pública. Muitas pessoas fizeram generosas contribuies para o vasto alcance do software distribuido por este sistema confiando na consistente aplicao deste sistema; cabe ao autor/doador decidir se ele ou ela tem interesse de distribuir software por qualquer outro sistema e um licenciado no pode impor esta escolha.<para>

<para>A inteno desta seo fazer exatamente claro o que acredita-se ser uma consequencia do resto desta Licena.</para>

<title>Seo 12</title>

<para>Se a distribuição e/ou uso da Biblioteca restrito em certos pases seja por patentes ou por interfaces registradas, o detentor do direito autoral original que coloca a Biblioteca sob esta Licena deve adicionar uma limitao de distribuição geográfica explícita excluindo estes pases, para que a distribuição seja permitida somente em e entre pases no exclusos. Neste caso, esta Licena incorpora a limitao como se escrita no corpo desta Licena.</para>

<title>Seo 13</title>

<para>A Free Software Foundation pode publicar versoes novas e/ou revisadas do Lesser General Public License de hora em hora. Tais novas versoes sero similares em espirito a verso atual, mas pode divergir em detalhe para abordar novos problemas ou preocupas.</para>

<title>Seo 14</title>

<para>cada verso dado um numero distinto. Se a Biblioteca especifica um numero de verso desta Licena que se aplica a ela e <quote>qualquer verso mais antiga</quote>, voc tem a opo de seguir os termos e condies tanto desta verso ou qualquer verso mais antiga publicada pela Free Software Foundation. Se a Biblioteca no especifica um numero de verso de licena, voc pode escolher qualquer verso j publicada pela Free Software Foundation.</para>

<title>SEM GARANTIA</title>

<para>Se voc desejar incorporar partes da Biblioteca em outros programas livres as quais tem condies de distribuição incompatíveis com aquelas, escreva ao autor para pedir permissao. Para software que registrado pela Free Software Foundation, escreva a Free Software Foundation; ns, algumas vezes fazemos excees para isto. Nossa deciso ser guiada pelas duas metas de preservar o status livre de todos os derivados de nosso softwares livre e de promover o compartilhamento e reuso de software em geral.</para>
PELA BIBLIOTECA SER LICENCIADA LIVRE DE ENCARGOS, NO H GARANTIA BIBLIOTECA, ALM DA PERMITIDA PELA LEI APLICADA. EXCETO QUANDO DE OUTRA FORMA DECLARADO NA ESCRITA QUE OS DETENTORES DO DIREITO AUTORAL E/OU OUTRAS PARTES FORNECEM A BIBLIOTECA COMO SEM GARANTIA DE QUALQUER TIPO, SEJA EXPRESSA OU IMPLICITA, INCLUINDO, MAS NO LIMITADO, GARANTIAS IMPLICITAS DE COMERCIALIZAO E ADAPTAO A UMA PROPOSTA EM PARTICULAR. TODO O RISCO QUANTO A QUALIDADE E PERFORMANCE DA BIBLIOTECA EST COM VOC. SE A BIBLIOTECA SE PROVAR DEFEITUOSA, VOC ASSUME O CUSTO DE TODA MANUTENO NECESSRIA, REPARO OU CORREO.

EM NENHUM EVENTO, A NO SER SE REQUISITADO PELA LEI APLICADA OU EM ACORDO ESCRITO QUALQUER DETENTOR DO DIREITO AUTORAL, OU QUALQUER OUTRA PARTE QUE POSSA MODIFICAR E/OU REDISTRIBUIR A BIBLIOTECA COMO PERMITIDO ACIMA, SEJA RESPONSVEL POR VOC PELO SEUS DANOS, INCLUINDO QUALQUER DANO GENRICO, ESPECIAL, INCIDENTAL OU CONSEQUENCIAL, PROVENIENTES DO USO OU INABILIDADE DE USAR A BIBLIOTECA (INCLUINDO, MAS NO LIMITADO A PERDA DE DADOS OU DADOS SENDO PROCESSADOS DE FORMA INCORRETA OU PERDAS SUSTENTADAS POR VOC OU TERCEIROS OU UMA FALHA DA BIBLIOTECA EM OPERAR COM QUALQUER OUTRO SOFTWARE), MESMO QUE TAL DETENTOR OU OUTRA PARTE TENHA SIDO AVISADO DA POSSIBILIDADE DE TAIS DANOS.

</sect1>

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<listitem>
<para>Bevara alla <link linkend="fdl-invariant">ofrnderliga avsnitt</link> i <link linkend="fdl-document">dokumentet</link> ofrndrade till text och titel. Avsnittsnummer eller motsvarande anser inte tillhara avsnittets titel.</para>
</listitem>

<listitem>
<para>Radera varje avsnitt med titeln <quote>endossering</quote> (Endorsements). Ett sdant avsnitt fr inte inkluderades i en <link linkend="fdl-modified">frndrad version</link>.</para>
</listitem>

<listitem>
<para>Inte byta titel p ngot existerande avsnitt s att det blir <quote>endossering</quote> (Endorsements) eller s att titeln kan frvxlas med ngot <link linkend="fdl-invariant">ofrnderligt avsnitt</link>.</para>
</listitem>

<para>Om den <link linkend="fdl-modified">frndrade versionen</link> innehller nya frmsidestexter eller bilagor som r att anses som <link linkend="fdl-secondary">sekundra avsnitt</link> och inte innehller ngot material kopierat frn dokumentet, s ger du, om du vill, bennma ngra eller samtliga av dessa som ofrnderliga. Fr att gra detta, lgg deras titlar till listan ver <link linkend="fdl-invariant">ofrnderliga avsnitt</link> i den frndrade versionens licensmeddelande. Dessa titlar mste vara skilda frn alla andra avsnitts titlar.</para>

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<sect1 id="fdl-section5" label="5">
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<para>I det kombinerade verket mste du kombinera alla avsnitt med titlarna <quote>historik</quote> (History) i de ursprungliga dokumenten, till ett avsnitt med titeln <quote>historik</quote> (History); p samma stt skall alla avsnitt med titlarna <quote>tillknnagivanden</quote> (Acknowledgements), alla avsnitt med titlarna <quote>dedikationer</quote> (Dedications) kombineras. Du mste ta bort alla avsnitt med titlarna <quote>endossering</quote> (Endorsements).</para>

</sect1>

<sect1 id="fdl-section6" label="6">
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</sect1>

<sect1 id="fdl-section7" label="7">
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</sect1>

<sect1 id="fdl-section8" label="8">
<title>VERSTTNING</title>

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1

2

sect2

sect3
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<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

<para>
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<para>
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</para>

<sect2 id="sect3" label="3">
<title>Paragraph 3</title>
<para>
You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
</para>
</sect2>
Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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<title>Paragraph 10</title>

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<h1>Cui cng, chng trnh t do no cng lun b e da bi bng sng ch phn mm. Chng ti mun trnh nguy c vic nhng ngi phth hnh li chng trnh t do s ginh bng sng ch ring, s hu chng trnh . ngng nga iu ny, chng ti l m r rng bng sng ch phi cp cho mi ngi s dng t do, hoc khng cp cho bt k ai ht.</h1>

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      </para>
    </note>
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<para>Nngh ng iu kin ny p dng cho ton b sn phm b sa i. Nu c th nhn ra phn ring ca sn phm khng bt ngun t Chng trnh, v cc phn ny c th c xem mt cch hp l l sn phm ring v khng ph thuc, th Giy ph ny, v cc iu kin ca n, khng p dng cho nhng phn ring khi bn pht hnh chng l sn phm ring. Tuy nhin, khi bn pht hnh nhng phn cng vi ton b sn phm da vo Chng trnh, s pht hnh ton b ny phi tun theo iu kin ca Giy ph ny, cng cp cho mi ngi c quyn bao trm ton b sn phm, bao qut tt c mi phn ca n, bt k ai to n.</para>
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trnh bin dch v ci t tp tin chy c. Tuy nhin, ngoi l c bit l m ngun c pht hnh khng cm phi bao gm nhng g c pht hnh hnh thng (trong dng the hoc ngun hoc nh pHn) vi cc thnh phn chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thnh phn km theo cn thit chy tp tin. </para>

<para>Nu vic pht hnh m chy c hay m i ting c lm bng c ch c ch ao chp t mt ni xe nh, th vic trao cc truy cp sao chp ting ng n m ngun t cng ni c thnh l s ph t hnh m ngun, mc d ngi khe khng bt buc phi sao chp m ngun cng vi m i ting. </para>

</sect2>

<sect2 id="sect4" label="4">
<title>Phn 4</title>

<para>Khng cho php bn sao chp, sa i, cp giy php ph hay pht hnh Chng trnh, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph hay pht hnh Chng trnh bng cch khe b bi b, v s kt the cc quyn ca bn di Giy php ny. Tuy nhin, ngi khc nhn bn sao hay quy nh t bn di Giy php ny s khng b nh hng, min l h tip tc tun theo hon ton.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Phn 5</title>

<para>Bn khng bt buc phi chp nhn Giy php ny, v bn cha k tn vo n. Tuy nhin, khng c g khe cho php bn sa i hay pht hnh Chng trnh hay sn phm bt ngun t n. Cc hnh ng ny b php lut cm nu bn khng chp nhn Giy php ny. V vy, bng cch sa i hay pht hnh Chng trnh (hay sn phm da vo n), bn ng s chp nhn Giy php ny lnh th, gm mi iu kin sao chp, pht hnh hay sa i Chng trnh hay sn phm da vo n.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Phn 6</title>

<para>Mi ln bn ph hnh l Chng trnh (hay sn phm da vo n), ngi nhn c th nhn t ng mt giy php t ngi cp gc, sao chp, pht hnh hay sa i Chng trnh vi iu kin ny. Khng cho php bn hn ch thm cch ngi dng s dng cc quyn c cp trong Giy php ny. Bn cng khng phi chu trch nhim v vic p buc ngoi khe tun theo iu kin ca Giy php ny.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Phn 7</title>

<para>Nu, do kt qu ca quyt nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gii hnh trong vn bng sng ch), bn b p buc chp nhn iu kin (hoc v quyt nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy php ny, trng hp ny khng min cho bn khng phi tha mn iu kin ca Giy php ny. Nu bn khng th pht hnh bng cch tha mn ng thi cc gia o c ca bn di Giy php ny v bt k gia o c th hp khe, th kt qu l khng cho php bn pht hnh Chng trnh bng cch no c. Ly th d, nu mt bng sng ch no khng cho php s pt hnh l Chng trnh mtc cch min tin bn quy nhn pt minh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nh bt c th th c bng v Giy php ny l hon ton khng pt hnh Chng trnh.</para>

</sect2>

<para>Nu on trng phn ny c quyt nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p dng c, v ton b phn d nh p dng trong cc trng hp khe.</para>
Phn ny d nh din t r ng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</sect2>

<sect2 id="sect8" label="8">
<title>Phn 8</title>

<para>Nu s phn hnh v/hay cch s dung Chng trnh b bn ch trong mt s quc gia no , hoc bi bng snng ch hoc bi giao din c bn quyn tc gi, ngi gi tc quyn gc t Chng trnh di Giy php ny c kh nhng thm s hn ch pht hnh a l ring loi tr nhng quc gia , cho php ph hnh ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nh s hn ch nh l n c ghi trong thn ca Giy php ny.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Phn 9</title>

<para>Phin bn c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng GNU. Phin bn mi nh vy s c tinh thn thng t vi phin bn hin thi, nhng c th khc bit trong chi tit gii quyt vn mi.</para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Chng trnh xc nh s phin bn ring ca Giy php ny p dung cho n, v bt k phin bn sau no , bn c ty chn tha iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T ch Phn mm T do. Nu Chng trnh khng xc nh s phin bn ring ca Giy php ny, bn c kh nhng chn bt k phin bn no ca Giy php ny c xut bn bi T ch Phn mm T do.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Nu bn mun hp nh phn no ca Chng trnh vo chng trnh t do khc c iu kin ph nhnh khc GPL, hy xin php tc gi. i vi phn mm c bn quyn tc gi ca T chc Phn mm T do, hy vit th cho T chc Phn mm T do : thng thong chng ti cho php ngoi l trong trng hp ny. Quy nh ca chng ti s c hnh dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt ngu t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt cch chung.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>KHNG BO HNH</title>

<subtitle>Phn 11</subtitle>

<para>V CHNG TRNH C CP PHP MIN PH, KHNG C BO HNH I VI CHNG TRNH NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP CHNG TRNH NY NH TH , KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT.
MI RI RO V CHT LNG, CHNH XC V HIU SUT CA CHNG TRNH NY BN S T CHU. NU CHNG TRNH NY GY RA H HING, BN GNH VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGO GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI CHNG TRNH NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG CHNG TRNH NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C CHNG TRNH NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.</para>

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<title>3</title>

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<title>4</title>

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<title> 9</title>

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<title> 10</title>

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<title> 11</title>

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<title> 13</title>

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. The modified work must itself be a software library.

2. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

3. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has...
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

</para>

<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</para>

<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

</para>

<para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

</para>

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</sect2>

<sect2 id="sect6" label="6">
<title>6</title>

<para>, <quote> </quote> , , ( reverse regineering) .</para>

<para>You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

<orderedlist numeration="loweralpha">
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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable
work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, että ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyttjn vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, että ohjelma on vapaa kaikille kyttjille.

Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssi on nimittin suunniteltu siten, että kyttjille taataan vapaus levitt kopioita vapaista ohjelmista (ja pyyt halutessaan maksu tst
This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

Edelleen, jokaisen tekijän ja Free Software Foundationin suojaamiseksi on varmistettava, että jokainen ymmärtää, että vapaalla kirjastolla ei ole takuuta. Jos joku muuttaa kirjastoa ja levittää sen edelleen, kirjaston vastaanottajien on tiedettävä, että heillä ei ole alkuperäistä kirjastoa. Joten mik tahansa ongelma, jonka muut ovat aikaansaaneet, ei vaikuta alkuperäisen tekijän maineeseen. 

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

<para>

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

<para>

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

<para>

We call this license the <quote>Lesser</quote> General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

<para>

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

<para>

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
</para>

<para>
Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
</para>

<para>
The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
<quote>work based on the library</quote> and a <quote>work that uses the
library</quote>. The former contains code derived from the library,
whereas the latter must be combined with the library in order to run.
</para>

</sect1>

<sect1 id="terms" label="none">
<title>Ehdot kopioimiselle, levittämiselle ja muuttamiselle</title>

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<title>Kohta 0</title>
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This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called <quote>this License</quote>). Each licensee is addressed as <quote>you</quote>. 
</para>

<para>
A <quote>library</quote> means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables. 
</para>

<para>
The <quote>Library</quote>, below, refers to any such software library or work
which has been distributed under these terms. A <quote>work based on the
Library</quote> means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

The modified work must itself be a software library.
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.
</para>
</listitem>
<li>
<para>
You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.
</para>
</listitem>
<li>
<para>
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.
</para>
</li>
<para>
(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
</para>
<para>
These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
</para>
<para>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and
above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections above on a medium customarily used for software interchange.

Jos ajettavan tai objektikoodin levittminen tehdn tarjoamalla psy tietysä paikassa olevaan kopioon, tllin tarjoamalla vastaavasti psy samassa paikassa olevaan lähdekoodiin luetaan lähdekoodin levittmiseksi, vaikka kolmansia osapuolia ei pakotettaisi kopioimaan lähdekoodia objektikoodin mukana.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

</para>
</listitem>
<li>
<para>
Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.
</para>
</listitem>
<li>
<para>
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>
, above, for a charge no more than the cost of performing
this distribution.
</para>
</listitem>
<li>
<para>
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
<li>
<para>
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
</para>
</listitem>
</orderedlist>

</para>

For an executable, the required form of the <quote>work that uses the
Library</quote> must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
levitt Kirjastoa ovat ptemttmi ja johtavat automaattisesti tnn Lisenssin mukaisten oikeuksien pttymiseen. Sen sijaan ne, jotka ovat saaneet kopioita tai oikeuksia Lisenssin saajalta tnn Lisenssin ehtojen mukaisesti, eivt menet saamiaan lisenoituja oikeuksia niin kauan kuin he noudattavat nit ehtoja.</sect2>

<sect2 id="sect9" label="9">
<title>Kohta 9</title>


</sect2>

<sect2 id="sect10" label="10">
<title>Kohta 10</title>

<para>Aina kun Kirjastoa (tai Kirjastoon perustuvaa teosta) levitetn, vastaanottaja saa automaattisesti alkuperiselt tekijlt lisenssin kopioidua, levitt ja muuttaa Kirjastoa niden ehtojen ja edellytysten sitomina. Vastaanottajalle ei saa asettaa mitn lisrajoitteita tss annettujen oikeuksien kytst. Lisenssin saajalla ei ole vastuuta valvoa noudattavatko kolmannot osapuolet tt Lisenssi.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>Kohta 11</title>

<para>Jos oikeuden pts tai vte patentin loukkauskesta tai jokin muu syy (rajoittumatta patenttikysymyksiin) asettaa Lisenssin saajalle ehtoja (olipa niiden alkuper sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nit lisenssiehtoja, ne eivt anna oikeutta poiketa tss Lisenssist. Jos levittminen ei ole mahdollista siten, ett samanaikaisesti toimitaan sek tnn Lisenssin ett joidenkin muiden rajoittavien velvoitteiden mukaisesti, tt Kirjastoa ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salli kaikkille niille, jotka saavat Kirjaston Lisenssin saajalta joko suoraan tai epsuorasti, Kirjaston levittmist edelleen ilman rojalitimaksuja, tt lainkaan tapa tytt sek patenttilisenssin ett tnn Lisenssin ehdot on olla levitttt Kirjastoa lainkaan.</para>

<para>Jos jokin osa tist kohdasta katsoetaan ptemttmksi tai mahdottomaksi vahvistaa oikeudessa joissakin tietyiss olosuhteissa, silloin tt kohtaa on tarkoitus soveltaa ptevin osin ja muissa olosuhteissa kokonaisuudessaan.</para>

<para>Tnn kohdan tarkoitus ei ole johtaa siihen, ett Lisenssin saaja rikkoisi mitn patenttia tai muuta varallisuussoikeutta tai vtt mitn niden oikeuksien ptevyyst; tnn kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levitysjrjestelmyn yhtenisyys, joka on luotu kyttnll yleisi lisensej. Monet ovat antaneet arvokkaan panoksensa mit erilaismipiin ohjelmiin, joita levitet tss jrjestelmss luotaen sen soveltamisen pysyvyyteen; on jokaisen tekijin ja lahjoittajan ptvallalla haluaako hnet levitt ohjelmia jossakin muussa jrjestelmss ja Lisenssin saaja ei voi vaikuttaa thn valintaan.</para>

<para>Tnn kohdan tarkoituksena on tehdys selvksi se, mik on tnn Lisenssin muiden osien seuraus.</para>

</sect2>
Kohta 12

Jos patentit tai tekijänoikeudella suojatut kyytiä rajoittavat Kirjaston levittämistä tai kytjä joissakin valtioissa, Kirjaston alkuverinner teki, joka lisensoi ohjelmaansa tll Lisenssillä, voi asettaa nimenomaisia maantieteellisiä levitysrajoituksia, jolloin levittäminen on sallittu joko mukaan- tai poislukien n n valtio. Tllisessä tapauksessa n n rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tll Lisenssin sekaan.

Kohta 13

Free Software Foundation voi julkaista korjattuja tai uusia versioita LGPL-lisenssistä ajoin. Niden uusien versioiden henki on yhtenevän nykyisen versiokanssa, mutta ne saattavat erottaa yksityiskohdissa ottaen huomioon uusia ongelmia ja huolenaiheita.

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Kohta 14

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standardna oblika HTML, namenjena temu, da jo spremeni lovek. Nejasne oblike vključujejo PostScript, PDF, lastnike oblike, ki jih lahko beremo in urejamo le z lastnikimi urejevalniki besedil, SGML ali XML, za katerega DTD in/ali orodja za obdelavo niso splonjo dostopna, in strojno ustvarjen HTML, ki ga nekateri urejevalniki besedil izdelujejo le kot izhodno obliko zapisa.</para>

<quote>Naslovna stran</quote> pri natisnjeni knjigi pomeni smo naslovno stran skupaj s taknimi nadaljnimi stranmi, ki so neizogibne za itljivo izraanje stvari, za katere to dovoljenje zahteva, da se pojavljajo na naslovni strani. Za dela v oblikah, ki nimajo naslovne strani kot take, <quote>Naslovna stran</quote> pomeni besedilo blizu najvidnejše pojavitvi naslova dela, pred zaetkom telesa besedila.</para>

<quote>Naslovna stran</quote> pri natisnjeni knjigi pomeni samo naslovno stran skupaj s taknimi nadaljnimi stranmi, ki so neizogibne za itljivo izraanje stvari, za katere to dovoljenje zahteva, da se pojavljajo na naslovni strani. Za dela v oblikah, ki nimajo naslovne strani kot take, <quote>Naslovna stran</quote> pomeni besedilo blizu najvidnejše pojavitvi naslova dela, pred zaetkom telesa besedila.</para>

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Priporočeno je, ne pa tudi zahtevano, da se precej pred zaetkom razrirjanja vejega tevila izvodov, vzpostavi stik z avtorji tega <link linkend="fdl-document">Dokumenta</link>, da imajo monost priskrbeti pred razrirjanjem posodobljene različice dokumenta.</para>

</sect1>

<sect1 id="fdl-section4" label="4">
<title>Spremembe</title>
<para>Spremenjeno razliico tega <link linkend="fdl-document">Dokumenta</link> je dovoljeno razmnoevati in razrirjati pod pogoji iz <link linkend="fdl-section2">2.</link> in <link linkend="fdl-section3">3.</link> razdelka, v kolikor bo izdana <link linkend="fdl-modified">Spremenjena razliica</link> pod tono tem dovoljenjem, kjer Spremenjena razliica prevzame vlogo tega dokumenta, in torej to dovoljenje ureja razrirjanje in spreminjanje Spremenjene različice za kogarkoli, ki posejuje njen izvod. Poleg tega je treba v Spremenjeni različici narediti e naslednje:</para>

<iitemizedlist mark="upper-alpha">
<listitem>
<para>Na <link linkend="fdl-title-page">naslovni strani</link> (ali platnicah, e obstajajo) uporabite naslov, razliken od naslova izvirnega <link linkend="fdl-document">Dokumenta</link> in vseh prejnjih razliic (ki bi morale biti, e jih je kaj, natete v razdelku Zgodovina v dokumentu). e se izvirni zalonik s tem strinja, lahko uporabite isti naslov kot ga ima prejnj različica.</para>
</listitem>

<listitem>
<para>Na <link linkend="fdl-title-page">naslovni strani</link> kot avtorje nateti eno ali ve oseb ali drub, odgovornih za avtorstvo sprememb v <link linkend="fdl-modified">Spremenjeni razliici</link>, skupaj z vsaj petimi glavnimi avtorji <link linkend="fdl-document">Dokumenta</link> (ali vsemi avtorji, e jih je manj kot pet).</para>
</listitem>

<listitem>
<para>Na <link linkend="fdl-title-page">naslovni strani</link> imenovati zalonika <link linkend="fdl-modified">Spremenjene različice</link>.</para>
</listitem>

<listitem>
<para>Ohraniti vsa obvestila o pravicah razrirjanja <link linkend="fdl-document">Dokumenta</link>.</para>
</listitem>

<listitem>
<para>Dodati ustrezno obvestilo o pravicah razrirjanja za vse spremembe poleg drugih obvestil o pravicah razrirjanja.</para>
</listitem>

<listitem>
<para>Takoj po obvestilih o pravicah razrirjanja vkljuiti obvestilo dovoljenja, ki javno dovoljuje rabo <link linkend="fdl-modified">Spremenjene različice</link> pod pogoji tega dovoljenja, v obliki, prikazani v Dodatku, spodaj.</para>
</listitem>
</iitemizedlist>
V tem obvestilu dovoljenja ohranite popoln seznam Nespremenljivih razdelkov in zahtevanih Besedil na ovitku, podanih v obvestilu dovoljenja tega Dokumenta.</para>

Vključite nespremenjen izvod tega dovoljenja.

Ohranite razdelek, imenovan "Zgodovina", in njegov naslov, in vanj dodajte postavko z vsaj naslovom, letom, novimi avtorji in izdajateljem Spremenjene razliice, kot je podana na Naslovni strani. Če v dokumentu ni razdelka, imenovanega "Zgodovina", ga ustvarite, in podajte naslov, leto, avtorje in izdajatelja Dokumenta kot je podan na njegovi Naslovni strani, potem pa e dodajte postavko, v kateri opiite Spremenjeno razliico, kot pie v prejnjem stavku.

V kolikor obstaja, je priporočeno ohraniti omrežno mesto, za javni dostop do Jasnih izvodov Dokumenta, ki je navedeno v dokumentu, in podobno tudi vsa omrežna mesta s prejnjimi razliicami dokumenta, ki so navedena v dokumentu. Priporoljivo jih je dodati v razdelek "Zgodovine". Mogoe pa je omrežna mesta tudi izpustiti za delo, ki je bilo izdano vsaj tiri leta pred samim dokumentom, ali, e izdajatelj, omenjen v ustreznih razliicah, to dovoli.

V vsakem razdelku, poimenovanem "Zahvale" ali "Posvetila", je treba ohraniti naslov razdelka in v razdelku ohraniti vso izvorno vsebino za vse tam podane zahvale in/ali posvetila.

Ohraniti je treba vse Nespremenljive razdelke Dokumenta, z nespremenjenim besedilom in naslovi. tevilke ali druge oznake razdelkov ne tejejo za del naslovov razdelkov.

Izbrisati je treba vse razdelke, naslovljene "Odobritve". Takni razdelki ne smejo biti vključeni v Spremenjeni razliici.

Ni dovoljeno preimenovati kateregakoli obstojeega razdelka v "Odobritve" ali v isto ime, kot
V primeru, da spremenjena različica vključuje nove elne razdelke ali dodatke, ki tejejo za Drugotne razdelke in ne vsebujejo iz dokumenta prepisane snovi, je dovoljeno po lastni presoji označiti nekatere ali vse takne razdelke kot nespremenljive. To je treba storiti tako, da se dodajo njihovi naslovi v seznam v obvestilu dovoljenja Spremenjene različice. Ti naslovi se morajo razlikovati od vseh drugih naslovov razdelkov.

Dodate lahko razdelek, imenovan "Odobritve", e se vsebuje ni drugega kot odobritve vseh Spremenjenih različic različnih strank na primer, recenzijske izjave ali besedilo, ki je bilo odobreno s strani organizacije kot veljavna definicija standarda.

Kot Besedilo na naslovnici je dovoljeno dodati odlomek največ petih besed, kot Besedilo na zadnji strani pa odlomek največ 25 besed. Vsaka oseba lahko doda le po en odlomek Besedila na naslovnici in Besedila na zadnji strani platnic, vključno z odlomki po dogovorih. e vsebuje besedilo na naslovnici za isti oblikovanje, ki je bil e dodan ali je bil dodan po dogovoru z isto (fizino ali pravno) osebo v zastopstvu, ni dovoljeno dodati e enega, pa pa je dovoljeno starega nadomestiti z izrecnim soglasjem prejnjega izdajatelja, ki je stari odlomek dodal.

Spremenjene različice je dolgo dovoljeno zdruevati s katerimikoli drugimi dokumenti, izdanimi pod pogoji tega dovoljenja, pod zgornjimi pogoji za spremenjene različice iz dokumenta. e vse izvirnih dokumentov, nespremenjenih, in so v izjavi dovoljenja nateti kot Nespremenljivi razdelki novoega, zdruenega dela. e lahko nadomestiti z enim samim. e obstaja ve Nespremenljivih razdelkov z istim imenom, vendar razlino vsebino, je treba združiti v en sam razdelek "Zgodovina"; podobno je treba združiti vse razdelke "Zahvale" in "Posvetila". Izbrisati pa je treba narediti v imenih razdelkov v seznamu Nespremenljivih razdelkov v izjavi dovoljenja vaega zdruenega dela.

V zdrujenem delu je treba združiti vse razdelke v različnih izvirnih dokumentih, poimenovane "Zgodovina", tako da se oblikuje en sam razdelek "Zgodovina"; podobno je treba združiti vse razdelke "Zahvale" in "Posvetila". Izbrisati pa je treba vse razdelke, poimenovane "Odobritve."
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</para>
</sect1>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 38236

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<sect2 id="sect7" label="7">
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<li>Vous devez munir les fichiers modifiés d'avis bien visibles stipulant que vous avez modifié ces fichiers, ainsi que la date de chaque modification;</li>
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<li>Si le programme modifié lit habituellement des instructions de façon interactive lorsqu'on l'excute, vous devez, quand il commence son excution pour ladite utilisation interactive de la manière la plus usuelle, faire en sorte qu'il imprime ou affiche une annonce comprenant un avis de droit d'auteur ad hoc, et un avis stipulant qu'il n'y a pas de garantie (ou bien indiquant que c'est vous qui fournissez la garantie), et que les utilisateurs peuvent redistribuer le programme en respectant les présentes obligations, et expliquant l'utilisateur comment voir une copie de la présente Licence. <note>
<title>Exception:</title>
</li>
</orderedlist>


Si le Programme est lui-même interactif mais n'imprime pas habituellement une telle annonce, votre ouvrage fond sur le Programme n'est pas oblig d'imprimer une annonce.

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- L'accompagner de l'intégralité du code source correspondant, sous une forme lisible par un ordinateur, lequel doit être distribué au titre des termes des articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,
- L'accompagner d'une proposition écrite, valable pendant au moins trois ans, de fournir à tout tiers, un tarif qui ne soit pas supérieure à ce que vous coute l'acte physique de raliser une distribution source, une copie intégrale du code source correspondant sous une forme lisible par un ordinateur, qui sera distribuée au titre des termes des articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,
- L'accompagner des informations reçues par vous concernant la proposition de distribution du code source correspondant. (Cette solution n'est autorisée que dans le cas d'une distribution non-commerciale et seulement si vous avez reçu le programme sous forme de code objet ou d'exécutable accompagn d'une telle proposition - en conformité avec le sous-Article b ci-dessus.)
Le code source d'un ouvrage désigne la forme favorite pour travailler des modifications de cet ouvrage. Pour un ouvrage exécutable, le code source intégral désigne la totalité du code source de la totalité des modules qu'il contient, ainsi que les ventuels fichiers de définition des interfaces qui y sont associés, ainsi que les scripts utilisés pour contrôler la compilation et l'installation de l'exécutable. Cependant, par exception spéciale, le code source distribué n'est pas censé inclure quoi que ce soit de normalement distribué (que ce soit sous forme source ou binaire) avec les composants principaux (compilateur, noyau, et autre) du système d'exploitation sur lequel l'exécutable tourne, moins que ce composant lui-même n'accompagne l'exécutable.

Si distribuer un exécutable ou un code objet consiste à offrir un accès permettant leur copie depuis un endroit particulier, alors l'offre d'un accès équivalent pour copier le code source depuis le même endroit compte comme une distribution du code source - même si les tiers ne sont pas contraints de copier le source en même temps que le code objet.

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**Article 4**

Vous ne pouvez copier, modifier, concéder sous-licence, ou distribuer le Programme, sauf tel qu'expressément prévu par la présente Licence. Toute tentative de copier, modifier, concéder sous-licence, ou distribuer le Programme d'une autre manière est réputée non valable, et met immédiatement fin vos droits au titre de la présente Licence. Toutefois, les tiers ayant reçu de vous des copies, ou des droits, au titre de la présente Licence ne verront pas leurs autorisations révocées aussi longtemps que ledits tiers se conforment pleinement elle.

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**Article 5**

Vous n'êtes pas obligé d'accepter la présente Licence tant que vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer le Programme ou les ouvrages fondés sur lui. Ces actions sont interdites par la loi si vous n'acceptez pas la présente Licence. En conséquence, en modifiant ou distribuant le Programme (ou un ouvrage quelconque fondé sur le Programme), vous signifiez votre acceptation de la présente Licence en le faisant, et de toutes ses conditions concernant la copie, la distribution ou la modification du Programme ou d'ouvrages fondés sur lui.

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**Article 6**

Chaque fois que vous redistribuez le Programme (ou n'importe quel ouvrage fondé sur le Programme), une licence est automatiquement concédée au destinataire par le concédant originel de la licence, l'autorisant copier, distribuer ou modifier le Programme, sous réserve des présentes conditions. Vous ne pouvez imposer une quelconque limitation supplémentaire l'exercice des droits octroyés au titre des présentes par le destinataire. Vous n'avez pas la responsabilité d'imposer le respect de la présente Licence des tiers.

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**Article 7**
Si, conséquemment une décision de justice ou l'alléghation d'une transgression de brevet ou pour toute autre raison (non limite un problème de brevet), des obligations vous sont imposées (que ce soit par jugement, conciliation ou autre) qui contredisent les conditions de la présente Licence, elles ne vous excusent pas des conditions de la présente Licence. Si vous ne pouvez distribuer de manière satisfaire simultanément vos obligations au titre de la présente Licence et toute autre obligation pertinente, alors il en découle que vous ne pouvez pas du tout distribuer le Programme. Par exemple, si une licence de brevet ne permettait pas une redistribution sans redevance du Programme par tous ceux qui reçoivent une copie directement ou indirectement par votre intermédiaire, alors la seule facon pour vous de satisfaire la fois la licence du brevet et la présente Licence serait de vous abstenir totalement de toute distribution du Programme.

Si une partie quelconque de cet article est tenue pour nulle ou inopposable dans une circonstance particulière quelconque, l'intention est que le reste de l'article s'applique. La totalité de la section s'appliquera dans toutes les autres circonstances.

Cet article n'a pas pour but de vous induire à transgresser un quelconque brevet ou d'autres revendications un droit de propriété ou de contester la validité de la moindre de ces revendications; cet article a pour seul objectif de protéger l'intégrité du système de distribution du logiciel libre, qui est mis en œuvre par la pratique des licences publiques. De nombreuses personnes ont fait de généreuses contributions au large spectre de logiciels distribués par ce système en se fiant à l'application cohérente de ce système; il appartient chaque auteur/donateur de décider si il ou elle veut distribuer du logiciel par l'intermédiaire d'un quelconque autre système et un concessionnaire ne peut imposer ce choix.

Cet article a pour but de rendre totalement limpide ce que l'on pense être une conséquence du reste de la présente Licence.

Si la distribution et/ou l'utilisation du Programme est limitée dans certains pays que ce soit par des brevets ou par des interfaces soumises au droit d'auteur, le titulaire originel des droits d'auteur qui décide de couvrir le Programme par la présente Licence peut ajouter une limitation géographique de distribution explicite qui exclut ces pays afin que la distribution soit permise seulement dans ou entre les pays qui ne sont pas ainsi exclus. Dans ce cas, la présente Licence incorpore la limitation comme si elle tait crite dans le corps de la présente Licence.

La Free Software Foundation peut, de temps à autre, publier des versions revisées et/ou nouvelles de la Licence Publique Générale. De telles nouvelles versions seront similaires à la présente version dans l'esprit mais pourront différer dans le détail pour prendre en compte de nouvelles problématiques ou inquiétudes.

Chaque version possède un numéro de version la distinguant. Si le Programme précise le numéro de version de la présente Licence qui s'y applique et une version ultérieure quelconque, vous avez le choix de suivre les conditions de la présente version ou de toute autre version ultérieure publie par la Free Software Foundation. Si le Programme ne spécifie aucun numéro de version de la présente Licence, vous pouvez choisir une version.
quelconque publie par la Free Software Foundation quelque moment que ce soit.</para>  
</sect2>

<sect2 id="sect10" label="10">
<title>Article 10</title>  
<para>Si vous souhaitez incorporer des parties du Programme dans d'autres programmes libres dont les conditions de distribution sont différentes, crivez l'auteur pour lui en demander l'autorisation. Pour les logiciels dont la Free Software Foundation est titulaire des droits d'auteur, crivez la Free Software Foundation; nous faisons parfois des exceptions dans ce sens. Notre décision sera guide par le double objectif de préserver le statut libre de tous les drivs de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.</para>  
</sect2>

<sect2 id="sect11" label="11">
<title>ABSENCE DE GARANTIE</title>  
<subtitle>Article 11</subtitle>  
<para>COMME LA LICENCE DU PROGRAMME EST CONCDE TITRE GRATUIT, AUCUNE GARANTIE NE S'APPLIQUE AU PROGRAMME, DANS LES LIMITES AUTORISEES PAR LA LOI APPLICABLE. SAUF MENTION CONTRAIRE CRITE, LES TITULAIRES DU DROIT D'AUTEUR ET/OU LES AUTRES PARTIES FOURNISSENT LE PROGRAMME <quote>TELQUEL</quote>, SANS AUCUNE GARANTIE DE QUELQUE NATURE QUE CE SOIT, EXPRESSE OU IMPLICITE, Y COMPRIS, MAIS SANS Y TRE LIMIT, LES GARANTIES IMPLICITES DE MARCHANDABILIT ET D'ADQUATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ LA TOTALIT DES RISQUES LIS LA QUALIT ET AUX PERFORMANCES DU PROGRAMME. SI LE PROGRAMME SE RVLAIT DFECTUEUX, LE COT DE L'ENTRETIEN, DES RPARATIONS OU DES CORRECTIONS NCESSAIRES VOUS INCOMPENT INTRALEMENT.</para>  
</sect2>

<sect2 id="sect12" label="12">
<title>Article 12</title>  
<para>EN AUCUN CAS, SAUF LORSQUE LA LOI APPLICABLE OU UNE CONVENTION CRTE L'EXIGE, UN TITULAIRE DE DROIT D'AUTEUR QUEL QU'IL SOIT, OU TOUTE PARTIE QUI POURRAIT MODIFIER ET/OU REDISTRIBUER LE PROGRAMME COMME PERMIS CI-DESSUS, NE POURRAIT TRE TENU POUR RESPONSABLE VOTRE GARD DES DOMMAGES, INCLUANT LES DOMMAGES GNRIQUES, SPIFIQUES, SECONDAIRES OU CONSCUTIFS, RSULTANT DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LE PROGRAMME (Y COMPRIS, MAIS SANS Y TRE LIMIT, LA PERTE DE DONNES, OU LE FAIT QUE DES DONNES SOIENT RENDUES IMPRCEISES, OU LES PERTES PROUVES PAR VOUS OU PAR DES TIERS, OU LE FAIT QUE LE PROGRAMME CHOUE INTROPRER AVEC UN AUTRE PROGRAMME QUEL QU'IL SOIT) MME SI LE DIT TITULAIRE DU DROIT D'AUTEUR OU LE PARTI CONCERN A T AVERTI DE L'EVENTUALIT DE TELS DOMMAGES.</para>  
</sect2>
Licencia Pública General Menor de GNU

Se permite a todo el mundo copiar y distribuir copias literales de este documento de licencia, pero no se permite modificarlo.

Versión 2.1, Febrero de 1999

Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Cuando hablamos de software libre, estamos refiriéndonos a libertad, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurarnos de que tenga la libertad de distribuir copias de software libre (y cobrar por ese servicio si quiere), de que reciba el código fuente o que pueda conseguirlo si lo quiere, de que pueda modificar el software o usar fragmentos de él en programas nuevos libres, y de que sepa que puede hacer todas estas cosas.

Esta licencia, la Licencia Pública General Menor (Lesser General Public Licence), se aplica a algunos paquetes de software diseñados específicamente tipicamente bibliotecas de la Free Software Foundation y de otros autores que deciden usarla. Usted puede usarla también, pero le sugerimos que piense primero cuidadosamente si esta licencia o la General Public Licence ordinaria, es o no la estrategia mejor a usar en un caso particular, basándose en las explicaciones siguientes.

Cuando hablamos de software libre, nos referimos a libertad de uso, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurar que usted tiene la libertad de distribuir copias de software libre (y cobrar por
este servicio si quiere); que recibe el código fuente o que puede obtenerlo si lo quiere; que puede modificar el software y usar partes de él en nuevos programas libres; y de que ha sido informado de que puede hacer estas cosas.</para>

<para>Para proteger sus derechos necesitamos algunas restricciones que prohíban a cualquiera negarle a usted estos derechos o pedirle que renuncie a ellos. Estas restricciones se traducen en ciertas obligaciones que le afectan si distribuye copias de la biblioteca, o si la modifica.</para>

<para>Por ejemplo, si distribuye copias de la biblioteca, sea gratuitamente, o a cambio de una contraprestación, debe dar a los receptores todos los derechos que tiene. Debe asegurarse de que ellos también reciben, o pueden conseguir, el código fuente. Si enlaza otro código con la biblioteca, debe proporcionar archivos objeto completos a los receptores, para que ellos puedan reenlazarlos con la biblioteca después de hacer cambios a la biblioteca y recompilarla. Y debe mostrarles estas condiciones de forma que conozcan sus derechos.</para>

<para>Protegemos sus derechos con la combinación de dos medidas:
(1) Derechos de copia de la Biblioteca (copyright), y
(2) le ofrecemos esta licencia, que le da permiso legal para copiar, distribuir y/o modificar la biblioteca.</para>

<para>Para proteger a cada uno de los distribuidores, queremos dejar muy claro que no existe garantía para la biblioteca libre. Además, si la biblioteca es modificada por alguien y se transmite, los receptores deberían saber que lo que ellos tienen no es la versión original, de forma que la reputación del autor original no se vea afectada por problemas que podrían ser introducidos por otros.</para>

<para>Finalmente, cualquier programa libre está constantemente amenazado por patentes sobre el software. Queremos evitar el peligro de que una compaa no pueda restringir efectivamente a los usuarios de un programa libre obteniendo una licencia restrictiva de un propietario de una patente. Para evitar esto, insistimos en que cualquier licencia de patente obtenida por una versión de la biblioteca deba ser consistente con la completa libertad de uso especificada en esta licencia.</para>

<para>La mayoría del software de GNU, incluyendo algunas bibliotecas, está cubierto por la Licencia Pública General ordinaria. Esta licencia, la GNU Licencia Pública General Menor, se aplica a ciertas bibliotecas designadas, y es un poco diferente de la Licencia Pública General. Usamos esta licencia para ciertas bibliotecas con el fin de permitir enlazar esas bibliotecas en programas no libres.</para>

<para>Cuando un programa está enlazado con una biblioteca, ya sea estéticamente o usando una biblioteca compartida, la combinación de los dos es hablando legalmente un trabajo combinado, una derivación de la biblioteca original. La Licencia Pública General entonces permite dicho enlazado sólo si la combinación entera cumple con este criterio de libertad. La Licencia Pública General Menor permite un criterio más relajado para enlazar otro código con la biblioteca.</para>

<para>Llamamos a esta licencia Licencia Pública General <quote>Menor</quote> porque hace Menos para proteger la libertad del usuario que la Licencia Licencia Pública General ordinaria. También proporciona otros desarrolladores de software libre Menos de las ventajas respecto a competir con programas que no sean software libre. Estas desventajas son la razón por la que usamos la licencia Licencia Pública General para muchas bibliotecas. Sin embargo, la licencia Menor proporciona ventajas en ciertas circunstancias especiales.</para>

<para>Por ejemplo, en raras ocasiones puede haber una necesidad especial de fomentar lo más ampliamente posible el uso de una determinada biblioteca, de forma que esta se convierta en un estándar. Para conseguir esto, se debe
permitir a los programas no libres el uso de estas bibliotecas. Un caso más frecuente es aquel en el que una biblioteca libre hace el mismo trabajo que el que realizan las bibliotecas no libres más ampliamente usadas. En este caso, hay poco que ganar limitando la biblioteca nicamente al software libre, de manera que usamos la Licencia Pública General Menor.

<para>En otros casos, el permiso para usar una biblioteca determinada en programas no libres posibilita a un mayor número de gente a usar una gran cantidad de software libre. Por ejemplo, el permiso para utilizar la biblioteca GNU C en programas no libres posibilita a mucha más gente a usar al completo el sistema operativo GNU, así como su variante, el sistema operativo GNU/LINUX. </para>

<para>Aunque la Licencia Pública General Menor es menos protectora para las libertades del usuario, asegura que el usuario de un programa que est enlazado con la biblioteca tiene la libertad y los medios para ejecutar ese programa usando una versión modificada de la biblioteca.</para>

<para>Los términos y las condiciones exactas para la copia, distribución y modificación se indican a continuación. Preste especial atención a la diferencia entre un <quote>trabajo basado en la biblioteca</quote> y un <quote>trabajo que utiliza la biblioteca</quote>. El primero contiene código derivado de la biblioteca, mientras que el último debe estar unido con la biblioteca para ser ejecutado.</para>

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<sect1 id="terms" label="none">
<title>Trminos y condiciones para la copia, distribucin y modificacin</title>

<sect2 id="sect0" label="0">
<title>Seccin 0</title>
<para>Este Acuerdo de Licencia se aplica a cualquier biblioteca de software u otro programa que contenga una notificación colocada por el poseedor del copyright u otra parte autorizada diciendo que puede distribuirse bajo los trminos de la licencia Licencia Pública General Menor (también llamada <quote>esta Licencia</quote>. Cada licenciatario será referido como <quote>Usted</quote>. </para>

<para>Una <quote>biblioteca</quote> significa una colección de funciones y/o datos de software, preparados para ser enlazados de una forma cómoda con programas de aplicación (que usan algunas de estas funciones y datos) para formar ejecutables.</para>

<para>La <quote>Biblioteca</quote> en lo que sigue, se refiere a cualquier trabajo o biblioteca de software que haya sido distribuido bajo estos términos. Un <quote>trabajo basado en la Biblioteca</quote> significa que, o la Biblioteca o cualquier trabajo derivado, están bajo la ley de derechos de autor: es decir, un trabajo que contiene a la Biblioteca o a una parte de ella, ya sea de forma literal o con modificaciones y/o traducida de forma clara a otro idioma (mas abajo se incluye la traducción sin restricción en el término <quote>modificación</quote>).</para>

<para>El <quote>cdigo fuente</quote> para un trabajo se refiere a la forma preferida del trabajo para hacer modificaciones en 1. Para una Biblioteca, el código fuente completo significa todos los códigos fuente para todos los módulos que contenga la biblioteca, ms cualquier fichero de definición de interfaz asociado, y los scripts asociados para controlar la compilación y la instalación de la biblioteca.</para>

<para>Otras actividades que no sean la copia, distribución y modificación no se encuentran cubiertas por esta Licencia; se encuentran fuera de su objetivo. La opción de ejecutar un programa utilizando la Biblioteca no esta
restringido, y el resultado de dicho programa esta cubierto nicamente si su contenido constituye un trabajo basado en la Biblioteca (independientemente del uso de la Biblioteca como herramienta para escribirlo). Que esto sea cierto va a depender de lo que haga la Biblioteca y de lo que haga el programa que utiliza la Biblioteca.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Seccin 1</title>
<para>Puede copiar y distribuir copias literales del cdigo fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condicin de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garanta; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garantia; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

<para>Puede cobrar un importe por el acto fısico de traspasar una copia y puede, a opcin suya, ofrecer una proteccin de garantıa a cambio de un importe.</para>
</sect2>

<sect2 id="sect2" label="2">
<title>Seccin 2</title>
<para>Puede modificar su copia o copias de la Biblioteca o de cualquier parte de ella, formando as un trabajo basado en la Biblioteca, y copiar y distribuir tales modificaciones o trabajo bajo los trminos de la <link linkend="sect1">Seccin 1</link> de arriba, siempre que usted tambıen cumpla con todas estas condiciones:
<orderedlist numeration="loweralpha">
<li>El trabajo modificado debe ser por s mismo una biblioteca.</li>
<li>Debe hacer que los ficheros modificados lleven avisos llamativos, declarando que usted cambi los ficheros y la fecha de cualquier cambio.</li>
<li>Debe hacer que a todo el trabajo le sea concedida una licencia, sin cargo a terceras partes, bajo los trminos de esta Licencia.</li>
<li>Si una facilidad en la Biblioteca modificada se refiere a una funcin o a una tabla de datos, que deba ser suministrada por un programa de aplicacin que usa la facilidad de otra manera que como un argumento pasado cuando la facilidad es invocada, entonces debe hacer un esfuerzo de buena fe para asegurar que, en caso de que una aplicacin no suministre tal funcin o tabla, la facilidad aun funcione y haga que cualquier parte de su finalidad siga siendo significativa.</li>
<para>(Por ejemplo, una funcin en una biblioteca para computar races cuadradas tiene un proposito que est bien definido completamente, independientemente de la aplicacin. Por tanto, la Subseccin 2d exige que cualquier funcin o tabla suministrada por la aplicacin y usada por esa funcin debe ser opcional: si la aplicacin no la suministra, la funcin raz cuadrada debe seguir computando races cuadradas).</para>
<li>Estos requisitos se aplican al trabajo modificado como un todo. Si hay secciones identificables de ese
trabajo que no derivan de la Biblioteca, y se pueden considerar razonablemente independientes y trabajos separados, por ellas mismas, entonces esta Licencia y sus trminos, no se aplican a aquellas secciones cuando usted los distribuya como trabajos separados. Pero cuando usted distribuya las mismas secciones como parte de un todo, que sea un trabajo basado en la Biblioteca, la distribucin del todo debe estar bajo los trminos de esta Licencia cuyos permisos para otros licenciatarios se extienden a todo el conjunto, y as para todas y cada una de las partes, sin tener en cuenta quien las escribi.

As pues, la intencin de esta seccin no es exigir derechos o discutir los derechos de un trabajo escrito completamente por usted; ms bien, la intencin es ejercer el derecho a controlar la distribucin de trabajos derivados o colectivos basados en la Biblioteca.

Adems, la mera agregacin de otro trabajo no basado en la Biblioteca con la Biblioteca (o con un trabajo basado en la Biblioteca) en un volumen de almacenaje o en un medio de distribucin, no pone al otro trabajo bajo los objetivos de esta Licencia.

Usted puede optar por aplicar a una determinada copia de la Biblioteca, los trminos de la Licencia Pblica General GNU ordinaria en vez de los de esta Licencia. Para hacer esto, debe alterar todas las notificaciones que se refieren a esta Licencia, para que se refieran a la Licencia Pblica General GNU ordinaria, versin 2, en vez de a esta Licencia. (Si ha aparecido una versin ms reciente que la versin 2 de la Licencia Pblica General GNU ordinaria, entonces, si quiere, puede especificar esa nueva versin). No haga ningn otro cambio en estas notificaciones.

Una vez que se haya hecho este cambio en una copia dada, es irreversible para esa copia, de modo que la Licencia Pblica General GNU ordinaria se aplica a todas las copias siguientes y a trabajos derivados realizados a partir de esa copia.

Esta opcin es til cuando usted quiere copiar parte del cdigo de la Biblioteca dentro de un programa que no es una biblioteca.

Puede copiar y distribuir la Biblioteca (o una porcin o derivado de ella, bajo la Seccin 2) en cdigo objeto o forma ejecutable bajo los trminos de las Secciones 1 y 2 arriba indicadas, siempre que la acompae con el correspondiente cdigo fuente legible (a mquina) completo, que debe ser distribuido bajo los trminos de las Secciones 1 y 2 de arriba, en un medio usado habitualmente para el intercambio de software.

Si la distribucin del cdigo objeto se hace ofreciendo el acceso a su copia desde un lugar designado, entonces ofreciendo un acceso equivalente a la copia del cdigo fuente desde el mismo sitio se satisfacen los requisitos para la distribucin del cdigo fuente, aunque las terceras partes no estn obligadas a copiar el cdigo fuente junto con el cdigo objeto.
Un programa que no contiene derivado de ninguna porción de la Biblioteca, pero está diseñado para trabajar con la Biblioteca al ser compilado o enlazado con ella, se denomina un "trabajo que usa la Biblioteca". Dicho trabajo, por separado, no es un trabajo derivado de la Biblioteca, y por tanto cae fuera del ámbito de esta Licencia.

Sin embargo, enlazar un "trabajo que usa la Biblioteca" con la Biblioteca, crea un executable que es un derivado de la Biblioteca (porque contiene porciones de la Biblioteca), en vez de un "trabajo que usa la Biblioteca". El executable está por tanto cubierto por esta Licencia. La Sección 6 expone los términos para la distribución de tales ejecutables.

Cuando un "trabajo que usa la Biblioteca" utiliza material de un fichero cabecera que forma parte de la Biblioteca, el código objeto del trabajo puede ser un trabajo derivado de la Biblioteca aunque el código fuente no lo sea. Que esto sea cierto es especialmente significativo si el trabajo puede ser enlazado sin la Biblioteca, o si el trabajo es por sí mismo una biblioteca. El límite para que esto sea cierto no está definido con precisión por la ley.

Si dicho fichero objeto utiliza solo parámetros numéricos, esquema de estructura de datos, y pequeñas macros y pequeñas funciones en línea (diez líneas o menos de longitud), entonces el uso del fichero objeto no está restringido, sin tener en cuenta si esto es legalmente un trabajo derivado. (Ejecutables que contengan este código objeto y porciones de la Biblioteca están aún bajo la Sección 6). En caso contrario, si el trabajo es un derivado de la Biblioteca, usted puede distribuir el código objeto del trabajo bajo los términos de su elección, siempre que los términos permitan la modificación del trabajo por el uso propio del cliente y la ingeniería inversa para la depuración de tales modificaciones.

Debe incluir con cada copia del trabajo una notificación de que la Biblioteca se utilizó en él, y de que la Biblioteca y su uso están cubiertos por esta Licencia. Debe suministrar una copia de esta Licencia. Si el trabajo, durante su ejecución, muestra notas de derechos de autor, usted debe incluir entre ellas las notas de derechos de autor de la Biblioteca, así como una referencia que dirija al usuario a la copia de esta Licencia. Además, usted debe hacer una de estas cosas: 

- Acompañar el trabajo con el correspondiente código fuente legible (a máquina) completo de la Biblioteca, incluyendo cualquier cambio que fuera utilizado en el trabajo (el cual debe ser distribuido bajo las
Secciones <link linkend="sect1">1</link> y <link linkend="sect2">2</link> de arriba); y, si el trabajo es un ejecutable enlazado con la Biblioteca, con el completo, legible (a maquina) <quote>trabajo que usa la Biblioteca</quote>, como código objeto y/o código fuente, de forma que el usuario pueda modificar la Biblioteca y reenlarzar entonces para producir un ejecutable modificado que contenga la Biblioteca modificada. (Se entiende que el usuario que cambia los contenidos de los archivos de definiciones en la Biblioteca no necesariamente ser capaz de recompilar la aplicacin para usar las definiciones modificadas).</para>

<listitem>
<para>Usar un mecanismo de biblioteca compartida adecuado para enlazar con la Biblioteca. Un mecanismo adecuado es uno que (1) utiliza en tiempo de ejecución una copia de la biblioteca que est ya presente en el ordenador del usuario, en vez de copiar funciones de biblioteca dentro del ejecutable, y (2) funcionar correctamente con una versión modificada de la biblioteca, si el usuario instala una, mientras que la versión modificada sea de interfaz compatible con la versión con la que se hizo el trabajo.</para>
</listitem>
</orderedlist></para>

Para un ejecutable, la forma requerida del <quote>trabajo que usa la Biblioteca</quote> debe incluir todos los programas de datos y utilidades necesitados para reproducir el ejecutable desde l. Sin embargo, como una excepción especial, los materiales a distribuir no necesitan incluir nada de lo que es distribuido normalmente (ya sea en forma binaria o fuente) con los componentes principales (compilador, núcleo, y demás) del sistema operativo en el cual funciona el ejecutable, a menos que el componente por l mismo acompañe al ejecutable.

Puede suceder que este requisito contradiga las restricciones de la licencia de otras bibliotecas propietarias que no acompañan normalmente al sistema operativo. Dicha contradicción significa que no puede usar estas y la Biblioteca juntas en un ejecutable que usted distribuya.
Acompañar la biblioteca combinada con una copia del mismo trabajo basado en la Biblioteca, no combinado con cualquier otra facilidad de biblioteca. Esto debe ser distribuido bajo los términos de las Secciones superiores.

Incluir una notificación destacada con la biblioteca combinada del hecho de que parte de ella es un trabajo basado en la Biblioteca, y explicando donde encontrar las formas sin combinar acompañantes del mismo trabajo.

Usted no puede copiar, modificar, sublicenciar o distribuir la Biblioteca salvo por lo permitido expresamente por esta Licencia. Cualquier otro intento de copia, modificación, sublicenciamiento o distribución de la Biblioteca es nulo, y dar por terminados automáticamente sus derechos bajo esa Licencia. Sin embargo, los terceros que hayan recibido copias, o derechos, de usted bajo esta Licencia no verán terminadas sus licencias, siempre que permanezcan en total conformidad con ella.

No se le exige que acepte esta Licencia, puesto que no la ha firmado. Sin embargo, ninguna otra cosa le concede a usted el permiso para modificar o distribuir la Biblioteca o sus trabajos derivados. Estas acciones están prohibidas por ley si usted no acepta esta Licencia. Por tanto, al modificar o distribuir la Biblioteca (o cualquier trabajo basado en la Biblioteca), usted indica su aceptación de esta Licencia para hacerlo, y todos sus términos y condiciones para copiar, distribuir o modificar la Biblioteca o los trabajos basados en ella.

Cada vez que usted distribuye la Biblioteca (o cualquier trabajo basado en la Biblioteca), el receptor recibe automáticamente una licencia del titular original de la Licencia para copiar, distribuir, enlazar con o modificar la Biblioteca sujeto a estos términos y condiciones. Usted no debe imponer ninguna restricción posterior sobre el ejercicio de los derechos otorgados aquí mencionados. Usted no es responsable de imponer conformidad con esta Licencia por terceras partes.
Si, como consecuencia de un juicio o infracción de patente o por cualquier otra razón (no limitada a asuntos de patente) a usted se le imponen condiciones (sea orden judicial, acuerdo u otras) que contradigan las condiciones de esta Licencia, eso no le dispensa de las condiciones de esta Licencia. Si usted no puede distribuirla de tal forma que satisfaga simultáneamente sus obligaciones con respecto a esta licencia y cualquier otras obligaciones pertinentes, entonces como consecuencia, no debe en absoluto distribuir la Biblioteca. Por ejemplo, si una licencia de patente no permitiera la redistribución libre de derechos de autor de la Biblioteca a todo aquellos que reciben copias directamente o indirectamente a través de usted, entonces la nica forma en la que podrá satisfacer tanto esto como esta Licencia será abstenerse completamente de la distribución de la Biblioteca.

Si cualquier parte de esta sección se considera invalida o inaplicable bajo cualquier circunstancia particular, se intentará aplicar el balance de la sección, y en otras circunstancias se intentará aplicar la sección como un todo.

No es el propósito de esta sección el inducirle a usted a infringir cualquier demanda de derechos de patente u otros derechos de propiedad o el impugnar la validez de tales demandas; esta sección tiene el nico propósito de proteger la integridad del sistema de distribución de software libre, lo cual se lleva a cabo mediante prácicas de licencia pública. Mucha gente ha hecho generosas contribuciones al amplio rango de software distribuido a través de este sistema, confiando en la firme aplicación de este sistema; es decisión de autor/donante decidir si el o ella quiere distribuir software a través de cualquier otro sistema y una licencia no puede imponer esa elección.

Esta sección tiene el propósito de esclarecer a fondo lo que se cree ser una consecuencia del resto de esta licencia.

Si la distribución y/o uso de la Biblioteca est restringida en ciertos países mediante patentes o interfaces con derechos de autor, el propietario de los derechos de autor originales, el cual puso la Biblioteca bajo esta Licencia, puede añadir una limitación a la distribución geográfica explícita excluyendo estos países, de forma que esta distribución se permita solamente en o entre países no excluidos. En tal caso, esta Licencia incorpora la limitación como si estuviera escrita en el cuerpo de esta Licencia.

La Free Software Foundation puede publicar versiones nuevas y revisadas de la Licencia Licencia Pública General Menor de vez en cuando. Dichas versiones nuevas serán similares en espíritu a la presente versión, pero pueden diferir en detalles para solucionar nuevos problemas o preocupaciones.

Cada versión tiene un número de versión que la distingue. Si la Biblioteca especifica que se aplica un número de versión en particular de esta Licencia y cualquier versión posterior, usted tiene la opción de seguir los términos y condiciones de la versión especificada o cualquier otra posterior que haya sido publicada por la Free Software Foundation. Si la Biblioteca no especifica un número de versión de esta Licencia, puede escoger cualquier versión que haya sido publicada por la Free Software Foundation.
Si quiere incorporar partes de la Biblioteca en otros programas libres cuyas condiciones de distribución son incompatibles con estos, escriba al autor para pedirle permiso. Para el software cuyos derechos de autor pertenecen a la Free Software Foundation, escriba a la Free Software Foundation; nosotros hacemos a veces excepciones a esto. Nuestra decisión se guiará generalmente por los dos objetivos de preservar el estatus libre de todo lo derivado de nuestro software libre y de promover la compartición y reutilización de software.

DEBIDO A QUE LA BIBLIOTECA ESTÁ LICENCIADA LIBRE DE CARGO, NO HAY GARANTÍA para LA BIBLIOTECA EN LA EXTENSIÓN PERMITIDA POR LA LEY APLICABLE. EXCEPTO CUANDO SE ESTABLEZCA DE OTRO MODO POR ESCRITO, LOS POSEEDORES DEL DERECHO DE AUTOR Y/O OTRAS PARTES SUMINISTRAN LA BIBLIOTECA <quote>TAL CUAL</quote> SIN GARANTÍA DE NINGUNA CLASE, YA SEA DE FORMA EXPRESA O IMPLÍCITA, INCLUYENDO, PERO NO LIMITADA A, LAS GARANTÍAS IMPLÍCITAS DE COMERCIALIZABILIDAD Y ADECUACIÓN PARA UN PROPÓSITO PARTICULAR. TODO EL RIESGO EN CUANTO A CALIDAD Y EJECUCIÓN DE LA BIBLIOTECA ES SUYO. SI LA BIBLIOTECA RESULTARA ESTAR DEFECTUOSA, USTED ASESTE EL COSTE DE TODO EL MANTENIMIENTO, REPARACIÓN O CORRECCIÓN NECESARIA.

BAJO NINGÚN CONCEPTO, A MENOS QUE SEA REQUERIDO POR LA LEY APLICABLE O DE ACUERDO A UN ESCRITO, CUALQUIER POSEEDOR DE DERECHOS DE AUTOR O CUALQUIER OTRA PARTE QUE PUEDA MODIFICAR Y/O REDISTRIBUIR LA BIBLIOTECA COMO SE PERMITE ARRIBA, SER RESPONSABLE CON USTED POR DAOS, INCLUYENDO CUALQUIER DAO GENERAL, ESPECIAL, ACCIDENTAL O CONSECUENTE ORIGINADO POR EL USO O INCAPACIDAD DE USAR LA BIBLIOTECA (INCLUYENDO PERO NO LIMITANDO, A LAS PRDIDAS DE DATOS O A LA PRODUCCIÓN DE DATOS INCORRECTOS, O PRDIDAS SUFRIDAS POR USTED O TERCERAS PARTES O UN FALLO DE LA BIBLIOTECA PARA FUNCIONAR CON CUALQUIER OTRO SOFTWARE) INCLUSO SI TAL TITULAR O OTRA PARTE HA SIDO NOTIFICADA DE LA POSIBILIDAD DE TALES DAOS.
GNU Lesser General Public License

Version: 1.0.1
Last Modified: Feb. 5, 2001

Var och en ger kopiera och distribuera exakta kopior av detta licensavtal, men att ndra det r inte tilltet.

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frndra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.
BAKGRUND

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frndra fri programvara att frskra att programvaran r fri fr alla dess anvndare. 

Nr vi talar om fri programvara syftar vi p frihet att anvnda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr klkkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvnda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.


Om du exempelvis distribuerar kopior av biblioteket, gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks se till att mottagaren fr och kan f klkkoden. Om du lnkar annan kod till biblioteket mste du tillhandahlla fullstndiga objektfiler till mottagaren s att han/hon kan terlnka dem med biblioteket efter att ha gjort ndringar i biblioteket och kompilerat om det. Du mste ocks visa dessa licensvillkor fr mottagaren s att han/hon knner till sina rttigheter.

Vi skyddar dina rttigheter i tv steg: (1) upphovsrätt till biblioteket och (2) dessa licensvillkor som ger dig laglig tilltelse att kopiera, distribuera och/eller ndra biblioteket.

Fr varje enskild distributurs skerhet vill vi ftyliga att det inte nnas ngar garantier fr det fria biblioteket. Om biblioteket ndras av ngn annan n upphovsmannen och vidareverlts, br mottagaren knna till att han/hon inte har
originalversionen och att frndringar av och felaktigheter i biblioteket inte skall belasta den ursprunglige upphovsmannen.</para>

<para>Slutligen skall nmnas att all fri programvara hotas av programvarupatent. Vi vill undvika att fretag kan frhindra anvndningen av fri programvara genom att skaffa en begrnsande licens frn en patentinnehavare. Vi insisterar drfr p att alla patentlicenser som erhlls fr en version av biblioteket mste vara frena med den fulla nyttjandefriheten i den hr licensen.</para>

<para>De flesta GNU-program, inklusive vissa bibliotek, tcks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kallad LGPL), gller vissa specificerade bibliotek och skiljer sig avsevrt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta lnkning av biblioteken till icke-fria programvaror.</para>

<para>Nr ett program lnkas med ett bibliotek, antingen statiskt eller genom ett delat bibliotek, r sammanslagningen ur rttslig synpunkt ett kombinerat verk, en hredning ur det ursprungliga biblioteket. Enligt ordinarie GPL tillts drfr sdan lnkning endast om hela kombinationen verensstimmer med kriterierna fr fri programvara. LGPL tillter mer upplckrade kriterier fr lnkning av annan kod till biblioteken.</para>

<para>Vi kallar denna licens <quote>begrnsad</quote> eftersom skyddet av anvndarens frihet r mindre n genom ordinarie GPL. Den ger också utvecklare av fri programvara frre frdelar jmfrt med konkurrerande icke-fria program. Det r dessa nackdelar som r orsaken till att vi behllt LGPL fr vissa bibliotek. Den begrnsade licensen medfr dock frdelar under vissa speciella omstndigheter.</para>

<para>I sllsynta fall kan det finnas srskilt behov av att uppmuntra bredast mjliga anvndning av ett visst bibliotek s att det de facto blir standard. I syfte att uppn detta mste icke-fria program tilltas anvnda biblioteket. Vanligare r att ett fritt bibliotek utfr samma uppgift som ofta anvnda icke-fria bibliotek. I det senare fallet finns det inte mycket att winna p att begrnsa det fria biblioteket till fri programvara enbart, s vi anvnder d den begrnsade licensen.</para>

<para>I andra fall ger tilltelse att anvnda ett visst bibliotek i icke-fria program fler mnniskor mjlighet att anvnda en stor mngd fria programvaror. Som exempel kan nmnas att tilltelse att anvnda biblioteket GNU C i icke-fria program, gr det mjligt fr fler personer att anvnda hela GNU-operativsystemet eller GNU/Linux-operativsystemet.</para>

<para>Men om den begrnsade licensen ger ett mindre omfattande skydd av anvndarnas frihet, garanterar det att anvndaren av ett program som r Inkat till biblioteket har friheten och mjligheten att kra programmet via en ndrad version av Biblioteket.</para>

<para>De exakta villkoren och frutsttningarna fr att kopiera, distribuera och ndra programvaran beskrivs nedan. Observera skillnaden mellan ett verk r <quote>baserat p biblioteket</quote> och ett <quote>verk som anvnder biblioteket</quote>. Det frstmmnda innehller kod som hrllet ur biblioteket medan det senare mste kombineras med biblioteket fr att kras.</para>

</sect1>

<sect1 id="terms" label="none">
<title>VILLKOR FR ATT KOPIERA, DISTRIBUTUERA OCH NDRA PROGRAMVARAN</title>

<sect2 id="sect0" label="0">
<title>Paragraf 0</title>

</sect1>

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 39351
Detta licensavtal gäller samtliga programbibliotek eller andra program som innehåller en upphovsrättssklausul från upphovsrättsinnehavaren eller annan behörig part som sger att det kan distribueras enligt villkoren i Lesser General Public License (nedan kallad "Licensen"). Samtliga licensinnehavare tituleras med "du".

Med ett "bibliotek" avses en samling programfunktioner och/eller data som fråberets fr att enkelt kunna inkas till applikationsprogram (som använder vissa av dessa funktioner och viss data) fr att skapa krbara filer.

"Biblioteket" nedan hänvisar till alla sådana programbibliotek eller verk som har distribuerats enligt dessa licensvillkor. Ett "verk baserat på Biblioteket" avser antingen Biblioteket eller hredda verk enligt upphovsrättsslig lagstiftning: det vill sga ett verk som innehåller hela eller delar av Biblioteket, antingen en exakt kopia eller ndrad kopia och/eller versatt till ett annat språk. (Versningar ingr nedan utan begränsning i begreppet "ndring eller ndra").


tgörer utetter kopiering, distribution och ndringar omfattas inte av Licensen. Krning av en programvara med hjelp av Biblioteket r inte begränsad, och resultatet av användningen teks endast om resultatet utg för ett verk baserat på Biblioteket (oberoende av att Biblioteket anvnts i ett verktyg fr att skriva ut det). Detta beror på Biblioteket utför och vad programmet som använder Biblioteket utför.

Du kan kopiera och distribuera exakta kopior av Bibliotekets fullständiga källkod i den form du mottagit det, oavsett medium, frutsatt att du tydligt och korrekt p varje kopia publicerar en riktig upphovsrättssklausul och garantifriskrivningsklausul, vidhiller alla hänvisningar till Licensen och till alla garantifriskrivningar samt distribuerar en kopia av Licensen tillsammans med Biblioteket.

Du kan ta ut en avgift fr proceduren att verfna en kopia och du kan erbjuda garanti mot en avgift om du s nskar.

Du kan ndra din kopia eller dina kopior av Biblioteket eller delar av det och p s tt skapa ett verk baserat på Biblioteket. Du kan ven kopiera och distribuera dessa ndringar eller verk enligt villkoren i <link linkeid="sect1" paragraf 1 ovan, under frutsttning att ven fljande villkor r uppfyllda: <orderedlist numeration="loweralpha">

Det fnndrade verket mste i sig sjlv vara ett programvarubibliotek.

De ndrade filerna mste innehålla tydlig information om att du har ndrat filerna och vilket datum dessa
ndringar utfördes.</para>
</listitem>
</listitem>
</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

<para>Du kan välja att tillämpa villkoren i GNU GPL i stället för den här Licensen för en viss kopia av Biblioteket. I syfte att gräva detta måste du ndra hänvisningar i upphovsrättsklausulerna till GNU GPL, version 2 istället för den hr Licensen. (Om det existerar en nyare version av GNU GPL n version 2, kan du ange den versionen i stället.) Du fr inte gräa andra ndringar i upphovsrättsklausulerna.</para>

<para>Nr ndringen har genomfömts i en viss kopia, r den oterkallelig fr denna kopia, s att GNU GPL gller alla fljande kopior och hrdeda verk som skapas frn den kopian.</para>

<para>Detta alternativ r anvndbart nr du vill kopiera delar av Bibliotekets kod till ett program som inte r ett bibliotek.</para>
</sect2>
Du kan kopiera och distribuera Biblioteket (eller del av det eller verk hrledda ur Biblioteket enligt paragraf 2) i objektkod eller kvarform enligt villkoren i paragraf 1 och 2 ovan under frutsttning att du bifogar den kompletta maskinlsbara kllkoden, vilken mste distribueras i enlighet med paragraf 1 och 2 ovan, p ett medium som i allmnhet anvs fr utbyte av programvara.

Om distribution av objektkod utfrs genom att erbjuda tillgng till att kopiera den frn en bestmd plats skall motsvarande tillgng till att kopiera kllkoden frn samma plats rknas som distribution av kllkoden, ven om tredjeman inte behver kopiera kllkoden tillsammans med objektkoden.

Ett program som inte innehll del som hrfr frn Biblioteket, men r skapat fr att arbeta med Biblioteket genom att kompileras eller lnkas med det, kallas ett verk som anvnder Biblioteket. Ett sdant verk r i sig inte ett hrlett verk av Biblioteket och faller utanfr licensens rckvidd.

Dremot r en lnkning av ett verk som anvnder Biblioteket med Biblioteket till en krbar fil en hrledning av Biblioteket (eftersom det innehll delar av Biblioteket) snarare n ett verk som anvnder Biblioteket. Den krbara filen tcks i sdant fall av Licensen. I beskrivs villkoren fr distribution av sdana krbara filer.

Nr ett verk som anvnder Biblioteket anvnder material frn en etikettfil som ingr i Biblioteket kan objektkoden fr verket vara ett hrlett verk ur Biblioteket ven om kllkoden inte r det. Denna skillnad r srskilt viktig om verket kan lnkas utan Biblioteket eller om verket i sig r ett bibliotek. Var grnsen gr fr att detta skall vara ett faktu r inte exakt definierat i lagstiftningen.

Om en sdan objektfil endast anvnder numeriska parametrar, datastrukturlayouter, accessor-funktioner, korta makron och kortare inline-funktioner (tio rader eller kortare) r anvndningen av objektfilen obegrnsad, oavsett om det lagligt sett r ett hrlett verk. (Krbara filer som innehll objektkoden samt delar av Biblioteket faller nd under paragraf 6.)

Om verket r en hrledning ur Biblioteket, kan du distribuera objektkoden fr verket enligt villkoren i paragraf 6. Samtliga krbara filer som innehll det verket faller ocks under paragraf 6, oavsett om de lnkade direkt till Biblioteket eller inte.

Undantag frn paragraferna ovan kan gras fr kombination eller lnkning av ett verk som anvnder Biblioteket med Biblioteket fr att skapa ett verk som innehller delar av Biblioteket samt distribution av verket enligt andra villkor, under frutsttning att villkoren tillter ndringar i verket fr kundens egen rkning och omvnt
en möjlighet att ta bort ndringarna.</para>

<para>Varje kopia av verket mste tfljas av ett tydligt meddelande att Biblioteket anvnds i verket och att Biblioteket och dess anvndning tcks av den hr Licensen. Du mste bifoga en kopia av Licensen. Om verket under kring visar upphovsrtsklausuler mste du ven inkludera upphovsrtsklausuler fr Biblioteket samt en referens till kopian av denna Licens. Du mste ven gra en av fljande saker: <orderedlist numeration="loweralpha"

<li id="sect6a">Bifoga den kompletta kl lkoden fr Biblioteket i maskinlsbar form inklusive eventuella ndringar som anvnts i verket (vilka skall distribueras enligt paragraf <link linkend="sect1">1</link> och <link linkend="sect2">2</link> ovan) samt, om verket r en krbar fil lnkad till Biblioteket, det kompletta maskinlsbara <quote>verket som anvnder Biblioteket</quote> som objekt kod och/eller kl lkod, s att anvndaren kan ndra Biblioteket och sedan terlnka det fr att skapa en frndrad krbar fil innehllande det ndrade Biblioteket. (Detta beror p att anvndaren som ndrar innehlet av definitionsfilerna i Biblioteket kanske inte kan kompilera om applikationen fr att anvnda de ndrade definitionerna.)</li>

<li>Anvnda en lmplig delad biblioteksfunktion fr lnkning med Biblioteket. En lmplig funktion r en som (1) under kringen anvnder en redan befintlig kopia av biblioteket i stl fr att kopiera biblioteksfunktioner till den krbara filen och (2) fungerar korrekt med en ndrad version av biblioteket, om anvndaren installerar en, s in de den ndrade versionen r grnssnittskompatibel med versionen som verket skapades fr.</li>

<li>Bifoga ett skriftligt erbjudande, gllande i minst tre r, att ge samma anvndare materialen uppknade i <link linkend="sect6a">6a</link> ovan, mot en avgift som inte r hgre n sjlvkostnaden fr distributionen.</li>

<li>Om distributionen av verket sker genom erbjudande av tillgng till kopiering frn en bestmd plats, erbjuda motsvarande tillgng att kopiera de ovan nmnda materialen frn samma plats.</li>

<li>Kontrollera att anvndaren redan har mottagit en kopia av materialen eller att du redan har skickat en kopia till denna anvndare.</li>

</orderedlist></para>

<para>Fr krbara filer mste <quote>verket som anvnder Biblioteket</quote> innehlla samtliga data- och hjlppprogram som behvs fr att skapa en krbar fil frn den. Ett undantag kan dock gras fr material som normalt distribueras, antingen i binr form eller kl lkod, med huvudkomponenterna (kompilator, krna osv.) i vilket den krbara filen krs, svida inte denna komponent medfljer den krbara filen.</para>

<para>Det kan intrffa att detta krav motsger licensbegrnsningarna i andra patenterade bibliotek som normalt inte medfljer operativsystemet. Sdana begrnsningar innebr att du inte kan anvnda de patenterade biblioteken samtidigt med Biblioteket i en krbar fil som du distribuerar.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Paragraf 7</title>
<para>Du kan placera biblioteksfunktioner som r ett verk baserat p Biblioteket sida vid sida i ett enskilt bibliotek tillsammans med andra biblioteksfunktioner som inte tcks av Licensen, och distribuera ett sdant kombinerat bibliotek under frutstning att separat distribution av verket baserat p Biblioteket och av de andra biblioteksmodulenerna r tilltet, samt under frutstning att du gr ngot av fljande:</para>

<orderedlist numeration="loweralpha">
  <listitem>
    <para>Bifogar en kopia av samma verk baserat p Biblioteket, men skild frn andra biblioteksfunktioner. Distributionen mste ske enligt villkoren i ovanstende paragrafer.</para>
  </listitem>
  <listitem>
    <para>Meddelar tydligt i det sammansatta biblioteket att en del av biblioteket r ett verk baserat p Biblioteket samt frklarar var den medfljande separata versionen av samma verk kan terfinnas.</para>
  </listitem>
</orderedlist>

<sect2 id="sect8" label="8">
  <title>Paragraf 8</title>
  <para>Du fr inte kopiera, ndra, licensiera, lnka till eller distribuera Biblioteket utom p det stt som uttryckligen anges i Licensen. Alla andra frsk att kopiera, ndra, licensiera, lnka till eller distribuera Biblioteket r ogiltiga och upphver automatiskt dina rttigheter enligt Licensen. Tredje man som har mottagit kopior eller rttigheter frn dig enligt Licensen kommer dock inte att frlora sina rttigheter s lnge de fljer licensvillkoren.</para>
</sect2>

<sect2 id="sect9" label="9">
  <title>Paragraf 9</title>
</sect2>

<sect2 id="sect10" label="10">
  <title>Paragraf 10</title>
  <para>Varje gng du distribuerar Biblioteket (eller verk baserat p Biblioteket) erhller mottagaren automatiskt en licens frn den ursprunglige licensgivaren att kopiera, distribuera, lnka till eller ndra Biblioteket enligt dessa licensvillkor. Du kan inte lgga mottagaren ngra andra begrnsningar av rttigheterna n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer Licensen.</para>
</sect2>

<sect2 id="sect11" label="11">
  <title>Paragraf 11</title>
  <para>Varje gng du distribuerar Biblioteket (eller verk baserat p Biblioteket) erhller mottagaren automatiskt en licens frn den ursprunglige licensgivaren att kopiera, distribuera, lnka till eller ndra Biblioteket enligt dessa licensvillkor. Du kan inte lgga mottagaren ngra andra begrnsningar av rttigheterna n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer Licensen.</para>
</sect2>
Om till fljd av ett domstolsutslag eller anklagelse om patentintrng eller av ngot annat skl (ej begrnsat till patentfrgor), villkor lggs dig (antingen genom domstolsbeslut, avtal eller p annat stt) som strider mot den hr Licensen, befriar det dig inte frn ngot av villkoren i Licensen. Om du inte kan distribuera Biblioteket och samtidigt uppfylla villkoren enligt Licensen och andra skyldigheter, fr du som en konsekvens inte distribuera Biblioteket. Om exempelvis ett patent inte tillter fri distribution av Biblioteket till alla dem som mottar kopior direkt eller indirekt frn dig, mste du avst helt frn distribution av Biblioteket.

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Syftet med denna paragraf r inte att frm dig att beg intrng i patent eller andra rttigheter eller att frm dig att bestrida giltigheten i sdana rttigheter. Det enda syftet med denna paragraf r att skydda distributionssystemet fr fri programvara vilket gis genom anvandandet av dessa licensvillkor. Mnga mnniskor har lmnat genersa bidrag till det stora utbudet av programvara som distribueras i det hr systemet och stter sin tillit till en fortsatt anvndning av systemet. Det r upphovsmannen sjlv som beslutar om han/hon vill distribuera programvara genom detta eller annat system och en licensinnehavare kan inte framtvinga ett sdant beslut.

Denna paragrafs syfte r att gra helt klart vad som anses vara konsekvensen av terstende delen av Licensen.

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Free Software Foundation kan ge ut reviderade och/eller nya versioner av LGPL frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version, men kan skilja sig t i detaljer som berr nya problem eller vervganden.


Om du vill anvnda delar av Biblioteket i andra fria programvaror vars distributionsvillkor inte r frenliga
med dessa skall du skriva till upphovsmannen och begra tillstånd. Fr programvara dr Free Software Foundation har upphovsrätt, skriver du till Free Software Foundation. Vi gr ibland undantag fr detta. Vrt beslut kommer att styras av tv ml, nmligen att bevara den fria statusen av alla verk som hrleds ur vr fria programvara samt att frmja delning och teranvndning av programvara i allmnhet.</para>

</sect2>

<sect2 id="sect15" label="15"><title>INGEN GARANTI</title><subtitle>Paragraf 15</subtitle><para>VEN OM BIBLIOTEKET LICENSIERAS UTAN KOSTNAD, GES INGEN GARANTI FR BIBLIOTEKET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT GLLANTE LAGSTIFTNING. FRUTOM NR S SKRIFTLIGT ANGES, TILLHANDAHLLER UPPHOVSRTTSINNEHAVAREN OCH/ELLER ANDRA PARTER BIBLIOTEKET I <quote>BEFINHTLIGT SKICK</quote> (AS IS) UTAN GARANTI AV NGOT SLAG, VARKEN UTRYCKKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL UNDERFRSTDDA GARANTIER VID KP OCH LMLIGHET FR ETT VISST NDAML, HELA RISKEN FR KVALITET OCH ANVDNBARHET AV BIBLIOTEKET BRS AV DIG. OM BIBLIOTEKET SKULLE VISA SIG BEFIKTAT MED FEL BR DU ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATION ELLER NDVNDIG SERVICE.</para>
</sect2>

</sect2>

<sect2 id="sect16" label="16"><title>Paragraf 16</title><para>INTE I NGOT FALL, SVIDA INTE DET KRVS ENLIGT GLLANTE LAGSTIFTNING ELLER AVTALAS SKRIFTLIGT, SKALL EN UPPHOVSRTTSINNEHAVARE ELLER ANNAN PART SOM KAN NDRA OCH/ELLER DISTRIBUERA BIBLIOTEKET ENLIGT OVAR, VARA SKYLDIG UTGE ERSTTNING FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDIRECT SKADA SOM FLER P GRUND AV ANVDNING AV, ELLER OMJLIGHET ATT ANVnda, BIBLIOTEKET (INKLUSIVE MEN INTE BEGRNSAT TILL FRLUST AV DATA, DATA SOM FRAMSTLLS FELAKTIGT, FRLUSTER SOM DU ELLER TREDJE MAN LIDER ELLER FEL I BIBLIOTEKET SOM GR ATT DET INTE FUNGERAR MED ANNAN PROGRAMVARA), VEN OM UPPHOVSRTTSINNEHAVARE ELLER ANNAN PART HAR UNDERRTTATS OM MJLIGHETEN TILL SDAN SKADA.</para>
</sect2>

</sect1>
</article>
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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:
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You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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- Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
<country>USA</country>
</address>.</para>

<para>Tm lisenssisopimuksen kirjaimellinen kopioiminen ja levittminen on sallittu, mutta muuttaminen on kielletty.

<warning><para>Tm on GPL-lisenssin epvirallinen kanssuomeksi. Tt kunnst ei ole julkaissut Free Software Foundation eik se mit oikeudellisesti sitovasti GPL-lisensi kyttvien ohjelmien levysehtoja vain alkuperinen englanninkielinen GPL-lisenssin teksti on oikeudellisesti sitova. Toivomme kuitenkin, ett tm kunn suomenkieliisi ymmrtmn GPL-lisensi paremmin.</para></warning></para>

</legalnotice>

<releaseinfo>Versio 2, keskuu 1991</releaseinfo>

<abstract role="description"><para>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, ett ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisensi on suunniteltu takaamaan kyttjin vapaus jakaa ja muuttaa ohjelmaa lisess varmistaa, ett ohjelma on vapaat kaikille kyttjille. </para></abstract>

</articleinfo>

<sect1 id="preamble" label="none">
<title>Johdanto</title>

<para>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, ett ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisensi on suunniteltu takaamaan kyttjin vapaus jakaa ja muuttaa ohjelmaa lisess varmistaa, ett ohjelma on vapaat kaikille kyttjille. GPL-lisensi soveltuu posaan Free Software Foundationin ohjelmia ja mihin tahansa muuhan ohjelman, jonka tekijt ja oikeudenomistajat sitoutuvat sen kyttin. (Joihinkin Free Software Foundationin ohjelmiin sovelletaan GPL-lisenssin sijasta LGPL-lisenssi [GNU-kirjastolisenssi]). Kuka tahansa voi kytt GPL-lisenssi.</para>

<para>Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisensi on nimittin suunniteltu siten, ett kyttijle taataan vapaus levitt kopioita vapaista ohjelmista (ja pyyt halutessaan maksu tst palvelusta). GPL-lisensi takaa mys sen, ett kyttj saa halutessaan ohjelman lhdekoodin, ett hn voi muuttaa ohjelmaa tai kytt osia siit omissa vapaissa ohjelmissaan, ja ett kaikkien niden toimien tiedetn olevan sallittuja.</para>

<para>Jotta kyttjin oikeudet turvattaisiin, lisenssil asetetaan rajoituksia, jotka estvt ket tahansa kieltmst nit oikeuksia tai vaatimasta niiden luovuttamista. Nm rajoitukset merkitsevtt tiettyj velvoitteita jokaiselle kyttjille, joka levitt ohjelmakopioita tai muuttaa ohjelmaa.</para>

<para>Jokaisen joka esimerkiksi levitt kopioita GPL-lisessin alaisesta ohjelmasta, ilmaseksi tai maksusta, on annettava kyttijle kaikki oikeudet, jotka hnellhin on. Jokaisella kyttjjll on oltava varmasti mahdollisuus saada ohjelman lhdekoodi. Ohjelman kyttjille on myskin esitettv tmn lisenssisopimuksen ehdot, jotta he tietvt oikeutensa.</para>

<para>Jokaisen oikeudet turvataan kahdella toimenpiteell: <orderedlist numeration="arabic">
<listitem>
<para>ohjelma suojaata teknioikeudella, ja</para>
</listitem>
</listitem>
</listitem>
</li>
<para>Kytkjille tarjotaan tämän lisenssi, joka antaa laillisen luvan kopioida, levittää ja muuttaa ohjelmaa.</para>

<sect1 id="terms" label="none">
<title>Ehdot kopioimiselle, levittämiselle ja muuttamiselle</title>

<sect2 id="sect0" label="0">
<title>Kohta 0</title>

<para>Tämä Lisenssi sovelletaan kaikkiin ohjelmiin tai muihin teoksiin, jotka sisältävät tekijän oikeuden haltijan ilmoituksen, että teoksen levittäminen tapahtuu GPL-lisenssin ehtojen mukaan. <quote>Ohjelma</quote> viittaa kaikkiin tällaisiin tietokoneohjelmiin ja muihin teoksiin. <quote>Ohjelmaan perustuva teos</quote> tarkoittaa joko Ohjelmaa tai mitä tahansa tekijän oikeuslain mukaista jälkiperistä teosta: toisin sanoen teosta, joka sisältää Ohjelman tai osan siitä, kirjaimellisesti tai muutettuna, tai toiselle kielelle liitetyn. (Tst eteenpin sisältää <quote>muutos</quote>). <quote>Lisenssin saaja</quote> on se, jolle ohjelma lisensoidaan.</para>

<para>Tämä lisenssi ei kata muita toimenpiteitä kuin kopioimisen, levittämisen ja muuttamisen. Ohjelman ajaminen ei ole kielletty. Ohjelman tuloste on tämän Lisenssin alainen vain silloin, kun se muodostaa Ohjelmaan perustuvan teoksen (riippumatta siitä ajetaanko Ohjelmaa vai ei). Milloin tuloste on Lisenssin alainen riippuu siitä, mitä Ohjelma tekee.</para>

<sect2 id="sect1" label="1">
<title>Kohta 1</title>

<para>Lisenssin saajalla on oikeus kopioida ja levittää sanatarkoja kopioita Ohjelman lähdekooodista sellaisena kuin se on saatu, millä tahansa laitteella. Ehdona on, että asianmukaisesti jokaisesta kopioista ilmenee kenellä on siihen tekijän oikeus ja että Ohjelmaan ei ole tarkoitus; edelleen, kaikki viitaukset tähän Lisenssiin ja ilmoitukseen takaun puuttumisesta on pidettävä koskemattoman; ja vielä, jokaiselle Ohjelman vastaanottajalle on annettava tämän Lisenssin ohjelman mukana.</para>

<para>Lisenssin saajaa voi pyytää maksun Ohjelman kopioimisesta ja voi halutessaan myydä Ohjelman takuun.</para>

<sect2 id="sect2" label="2">
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
koske nyt osia, kun niit levitetn erillisin teoksina. Mutta jos samoja osia levitetn osana kokonaisuutta, joka on
Ohjelmaan perustuva teos, tmn kokonaisuuden levittminen on tapahduttava tmn Lisenssin ehtojen mukaan, jolloin
tmn lisenssin ehdot laajenevat kokonaisuuteen ja tten sen jokaiseen osaan riippumatta siit, kuka ne on tehnyt ja mill
lisenssiehdotilla.</para>

<para>Eli tmn Kohdan tarkoitus ei ole saada oikeuksia tai ottaa pois Lisenssin saajan oikeuksia teokseen, jonka
hn on kokonaan kirjoittanut; pikemminkin tarkoitus on kytt oikeutta kontrolloida Ohjelmaan perustuvien
jlkiperisteosten tai kollektiivisten teosten levittmist.</para>

<para>Lisksi pelkk toisen teoksen, joka ei perustu Ohjelmaan, liittminen Ohjelman (tai Ohjelmaan perustuvan
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<link linkend="sect2">Section 2</link>) in object code or executable form under the terms of
<link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above provided that
you also do one of the following:

<orderedlist numeration="loweralpha">
<li>
<para>
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link
linkend="sect2">2</link> above on a medium
customarily used for software interchange; or,
</para>
</li>
<li>
</li>
<li>
Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</li>
<li>
</li>
<li>
Accompany it with the information you received as to the offer to distribute
 corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
</li>
</orderedlist>
Teoksen lähdekoodi tarkoittaa sen suositeltavaa muotoa muutosten tekemistä varten. Ajottavan teoksen tydellinen lähdekoodi tarkoittaa kaikkia lähdekoodiä kaikki teoksen sisältöihin ja lisäksi kaikkiin sen mukana seuraaviin kytkeltymöönteihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kuntta. Kuitenkin erityisen poikkeuksena levitetyn lähdekoodin ei tarvitse sisältää sellaista, mik yleens levitetään (joko lähdekoodi- tai binrimmuodossa) kyttjestelmin pkomponenttien (kntj, ydin, jne.) mukana, joiden pl teosta ajetaan, ellei tällä komponentilla tule ajettavan teoksen mukana.

Jos ajettavan tai objektikoodin levittäminen tehdään tietystä paikasta olevaan kopioon, tällöin tarjoamalla vastavasti tietystä paikasta olevaan lähdekoodiin luetaan lähdekoodin levittämisksi, vaikka kolmansia osapuolia ei pakotettaisi kopioimaan lähdekoodia objektikoodin mukana.

Ohjelman kopioiminen, muuttaminen, lisenssointi edelleen tai Ohjelman levittäminen muuten kuin tll Lisenssin ehtojen mukaisesti on kielletty. Kaikki yritykset, jotka ovat saaneet kopioita tai oikeuksia Lisenssin saajalta tll Lisenssin ehtojen mukaisesti, eivt menetä saamiaan oikeuksia niin kauan kuin he noudattavat tll ehtoja.

Lisenssin saajalta ei vaadita tll Lisenssin hyvääkäyn, koska siitä puuttuu allekirjoitus. Kuitenkaan mik nmuu ei sali Lisenssin saajaa muuttaa tai levittää Ohjelmaa tai sen julkisteroeosta. Nämä toimenpiteet ovat lailla kiellettyjä, eikä Lisenssin saaja ei saa levittää Ohjelmaa tai Ohjelman perustuvaa teosta Lisenssin saaja ihmisille hyväksyvän tll Lisenssin ja kaikkein ehtoja sek edellytöt Ohjelman ja siihen perustuvien teosten kopioimiselle, levittämiselle ja muuttamiselle.

Aina kun Ohjelma (tai Ohjelman perustuvaa teosta) levitetään, vastaanottaja saa automaattisesti alkuperäiseltä tekijää lisenssin kopioidesta levitän ja muuttaa Ohjelmaa niden ehtojen ja edellytysten sitominä. Vastaanottajalle ei saa asettaa mitin lisäkohtia tehden annettujen oikeuksien kytyst. Lisenssin saajalla ei ole vastuuta valvoa noudattavatko kolmanset osapuolet tll Lisenssin.
Jos oikeuden pts tai vrite patentin loukkauksesta tai jokin muu syy (rajoittumatta patenttikysymyksiin) asettaa Lisenssin saajalle ehtoja (olipa niiden alkuper sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nit lisenssiehtoja, ne eivt anna oikeutta poiketa tst Lisenssist. Jos levittminen ei ole mahdollista siten, ett samanaikaisesti toimitaan sek tnn Lisenssin ett joidenkin muiden rajoittavien velvoitteiden mukaisesti, tllin Ohjelmaa ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salli kaikille niille, jotka saavat Ohjelman Lisenssin saajalta joko suoraan tai epsuorasti, Ohjelman levittmist edelleen ilman rojaltimaksuja, tllin ainut tapa tyy sek patenttilisenssin ett tnn Lisenssin ehdot on olla levittmtt Ohjelmaa lainkaan.</para>

Jos jokin osa tst kohdasta katsotaan ptemttmksi tai mahdottomaksi vahvistaa oikeudessa joissakin tietyiss olosuhteissa, silloin tt kohtaa on tartoitus soveltaa ptevin osin ja muissa olosuhteissa kokonaisuudessaan.</para>

Tmn kohdan tarkoitus ei ole johtaa siihen, ett Lisenssin saaja rikkoisi mitn patenttia tai muuta varallisuusokeutta tai vitt mitn niden oikeuksien ptevydest; tnn kohdan ainoana tarkoituksena on suojeta vapaiden ohjelmien levitys ja yhtenysysy, joka on luotu kytkinn yhteis lisenssej. Monet ovat antaneet arvokkaan panoksensa mit erilaisimpiin ohjelmiin, joita levitetn ss jostelms luotetaan sen soveltamisen pysyvyyteen; on jokaisen tekijn ja lahjoittajan ptevallassa haluakoa tt levitt ohjelman jossakin muussa jostelmassa ja Lisenssin saaja ei voi vaikuttaa thn valintaan.</para>

Tmn kohdan tarkoituksena on tehd tysin selvksi se, mik on tnn Lisenssin muiden osien seuraus.</para>

jos patentit tai tekijnoikeudella suojatut kyttliittymt rajoittavat Ohjelman levittmist tai kytt joissakin valtioissa, Ohjelman alkuperinen tekij, joka lisensi on suoritettu tll Lisenssin, voi asettaa nimenomaisia maantieteellisi levyysrajoituksia, jolloin levittminen on sallittu joko mukaan- tai poisluksen mm valtio. Tlliss tapauksessa nm rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tnn Lisenssin saajan versiota mL Lisenssin sekaa. </para>

Free Software Foundation voi julkaista korjattuja tai uusia versioita GPL-lisenssist aika ajoin. Niden uusien versioiden henki on yhtenev nykyisen version kanssa, mutta ne saattavat erota yksityiskohdissa ottaen huomioon uusia ongelmia ja huolienaiheita.</para>

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jos Lisenssim saaja haluaa ottaa osia Ohjelmasta mukaan muiden vapaisiin ohjelmiin, joiden levysehdot ovat erilaiset, hnen tulee kirjoittaa tekijlle ja kysy lupaa. Jos ohjelman tekijnoikeuden omistaa Free Software
Foundation, on kirjoitettava heille; he tekevät joskus poikkeuksia. Free Software Foundationin ptsten ohjenuorana on
kaksi pmr; silytä kaikista heidän vapaista ohjelmista johdettujen ohjelmien vapaa asema ja yleisesti kannustaa
ohjelmien jakamiseen ja uudelleen kytyn.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>Elä takuuta</title>
<subtitle>Kohta 11</subtitle>

<para>Koska tm Ohjelma on lisensoitu ilmaiseksi, tlle Ohjelmalle ei myynet takuuta lain sallimissa rajoissa.
Ellei tekijänoikeuden haltija kirjalallisesti muuta osoita, Ohjelma on tarjolla <quote>sellaisena kuin se on</quote>
ilman minkäläistä takuuta, ilmaistua tai hiljaista, sisäntä, muttei tyhjentävä, hiljaisen takuun kaupallisesti hyvksyttvst
laadusta ja soveltuvuudesta tietyyyn tarkoitukseen. Lisenssin saajalla on kaikki riski Ohjelman laadusta ja
suorituskyvyyst. Jos ohjelma osoittautuu virheelliseksi, Lisenssin saajan vastuulla ovat kaikki huolto- ja
korjaukustannukset.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Kohta 12</title>

<para>Ellei laista tai kirjalilisesta hyvksynnst muuta johdu, tekijänoikeuden haltija ja kuka tahansa kolmas
osapuoli, joka voi muuttaa tai levittäy ohjelmaa kuten edellä on sallittu, eivt ole missn tilanteessa vastuussa Lisenssin
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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Giy Php ny nhm mc ch lm cho s tay, cun sch gio hay ti liu ghi ra khe l
<quote>t do</quote>: m bo mi ngi c quyn sao chp v phnh nh li ti liu , c sa i n hay khng, mt cch thng mi hay khng.
Th hai, Giy Php ny bo tn cho tc gi v nh xut bn c cch hng cnh trng v s c gng ca mnhs, cn h khng c coi c chu trch nhim
v s sa i ca ngi khe.</para>
</abstract>

Giy Php ny l kiu <quote>tc quyn ngc</quote>, c ngha l mi sn phm bt ngn t ti liu ny cng phi l t do v cng
ngha. N b tr Giy Php Cng cng GNU (GPL), mt giy php tc quyn ngc c thit k chon phn mm dng t do.</para>

Chng ti thit k Giy php ny dng n vi s tay hng dl cch s dng phn mm t do, v phn mm t do cn thit ti liu cng t
do: chng trnh t do nn c sn s tay cng cp cng nhng quyn t do vn phn mm . Tuy nhn Giy php ny khng b hn ch trong cc
s tay phn mm; n c th c dng vi bt c vn bn no, bt ch cp ch , bt chp n l cun sch c in ra hay khng. Chng ti ngh Giy php ny
cnhnh cho ti liu nhm mc ch hng dn hay tham kho.</para>
</sect1>

Phin bn Sa i c<quote> Ti liu c ngha l bt c vn bn cha Ti liu hay on no ca n, hoc
ch sao chp ng nhu v, hoc vi s sa i v/hay c ch nhng ng ng khe.</quote>

Tit on Ph<quote>Tit on Bt Bin</quote> l ph l c tn hay tit on trc ca <link linkend="fdl-
document">Tit on Bt Bin</link> trong thng bo ni rng <link linkend="fdl-document">Tit on Bt Bin trong thng bo ni rng</link>.

Tit on Ph<quote>Tit on Bt Bin</quote> l ch nh l Tit on Bt Bin trong thng bo ni rng <link linkend="fdl-document">Tit on Bt Bin trong thng bo ni rng</link>.

On Ba<quote>Tit on Bt Bin trong thng bo ni rng</quote> l vn bn ngn c lit k l on Ba Trc hay on Ba Sau trong thng bo ni
rng <link linkend="fdl-document">Tit on Bt Bin trong thng bo ni rng</link>.

Trong Sut<quote>Tit on Bt Bin trong thng bo ni rng</quote> ca <link linkend="fdl-document">Tit on Bt Bin trong thng bo ni rng</link>.
vo trnh nh dng vn bn. Bn sao c to theo mt nh dng tp tin Trong Sut bng cch khc tr n c m nh dng c thit k chn hay can ngn ngi c sa i th khng phi l Trong Sut. Bn sao khng phi l Trong Sut c gi l &lt;quote&gt;c&lt;/quote&gt;.&lt;/para&gt;

&lt;para&gt;Nhng nh dng thch hp vi bn sao Trong Sut gm c ASCII chun khng c m nh dng, nh dng nhp vo Texinfo, nh dng nhp vo LaTeX, SGML hay XML dng mt DTD c cng b, v HTML n gin ph hp vi tiu chun c thit k cho ngi sa i. Nhng nh dng gm c PostScript, PDF, nh dng s hu c th c v sa i ch bng trnh x l t s hu, SGML hay XML cho DTD hay/v cng c x l khng c cng b, v HTML do my to ra c to bi mt s trnh x l t ch cho mc ch xut.&lt;/para&gt;

&lt;para id="fdl-title-page"&gt;&lt;quote&gt;Trang Tiu &lt;/quote&gt; c ngha l, i vi cun sch c in ra, trang tiu chnh n, cng vi trang sau no cn thit hin th r mg nguy lien phi xut hin trn trang tiu . ty theo Giy phi ny. i vi vn bn theo nh dng khng c trang tiu nh th, &lt;quote&gt;Trang Tiu &lt;/quote&gt; ngha l vn bn gn v tr hin th r mg nht tiu ca vn bn, nm trc thn vn bn.&lt;/para&gt;

&lt;/sect1&gt;

&lt;sect1 id="fdl-section2" label="2"&gt;
&lt;title&gt;SAO CHP NG NGUYN VN&lt;/title&gt;

&lt;para&gt;Cho php bn sao cht v phth nh&lt;link linkend="fdl-document">Ti liu&lt;/link&gt;&lt;/para&gt; trong bt c vt cha no, thng mi hay khng, min l Giy phi ny, nhng thng bo tc quyn, v thng bo giy phi ni ng r Giy phi ny ph dng cho Ti liu c to li trong mi bn sao, v bn khng thm iu kin khc no vo nhng iu kn ca Giy phi ny. Khng cho php bn s dng bin phi k thut gy tr nghi cho hay iu khin hot ng c hay sao cht dnm na nhng bn bn bn to hay phth nhn. Tuy nhin, cho php bn cht nhn s n b trao cho bn sao. Nu bn phth nhn s bn sao ln, bn cng phi tun theo iu kin trong &lt;link linkend="fdl-section3"&gt;phn 3&lt;/link&gt;.&lt;/para&gt;

&lt;para&gt;Cng cho php bn cho mn bn plus, vi cng iu kin ni trn, v cho php bn trnh by cng khai bn sao.&lt;/para&gt;

&lt;/sect1&gt;

&lt;sect1 id="fdl-section3" label="3"&gt;
&lt;title&gt;SAO CHP HNG LOT&lt;/title&gt;

&lt;para&gt;Nu bn xut bn s bn sao c in ra ca &lt;link linkend="fdl-cover-texts">on Ba&lt;/link&gt;, bn phi vy quanh mi bn sao trong ba hin th r mg tt c cc on Ba ny : on Ba Trc trn ba trc, cn on Ba Sau trn ba sau. C hai ba cng phi hin th r mg bn l nh xut bn nhng bn sao ny. Ba trc phi hin th tiu y c m t r mg u. Cho php bn thm nguy lien na trn ba. Vic sao cht ch thay i ba, min l ba bo t t iu ca &lt;link linkend="fdl-document">Ti liu&lt;/link&gt; v tho nhng iu kin ny, c th c co i l vic sao cht ng nguy vn vn bng cch khc.&lt;/para&gt;

&lt;para&gt;Nu nhng vn bn bt buc phi nm trn ba no l qu di hin th r mg, bn nn hin th nhng on th nht c lit k (nhiu nht hin th c r) trn ba , v hin th vn bn cn li trn cc trang tip cn.&lt;/para&gt;

&lt;para&gt;Nu bn xut bn hay phth nhn s bn sao &lt;link linkend="fdl-transparent">&lt;/link&gt; ca &lt;link linkend="fdl-document">&lt;/link&gt; &lt;link linkend="fdl-transparent">&lt;/link&gt; cho my c c cng vi mi bn sao c, hoc ph biu trong hay vi mi bn sao c mt a im trn mtng my thnh cho mi ngi truy cp m cha mt bn sao Trong Sut hon thnh ca Ti liu, khng c nguy lien c thm, vo mi ngi s dng mtng chung c th truy cp ti xung v danh v min ph bng giao the chy mtng tiu chun cng cng. Nu bn s dng ty chn th hai, bn cn phi theo mt s bc hi cn thn, khi bn bt u phth nhn hng lot bn sao c, chn chn l bn sao Trong Sut ny s vn cn cho ngi dng truy cp a im ghi trong t nht mt nm sau ln cui cng bn phth nhn mt bn sao c (mt cch trc tip hay quy a i l hay hng bn) ca bn sa i cho cng cng.&lt;/para&gt;

&lt;para&gt;Yu cu, nhng khng cn thit bn lnc vi nhng te gi ca &lt;link linkend="fdl-document">Ti liu&lt;/link&gt; kh trc khi phth nhn hng lot bn sao, cho h c dp cung cp phin bn Ti liu c cp nht.&lt;/para&gt;
<sect1 id="fdl-section4" label="4">
<title>SA I</title>
<para>Chọn php bn sao chép v phpt hnh &lt;link linkend="fdl-modified">Phin bn  Sa i</link&gt; ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; vi iu kin ca phn &lt;link linkend="fdl-section2"&gt;2&lt;/link&gt; v &lt;link linkend="fdl-section3"&gt;3&lt;/link&gt; trn, min l bn phpt hnh Phin bn  Sa i di chnh xc Giy Php ny, cn Phin bn  Sa i lm nhm v ca Ti liu th cp quyn phpt hnh v sa i Phin bn  Sa i cho ai c bn sao ca n. Hn na, bn phi lm nhng vic ny trong Phin bn  Sa i:&lt;/para&gt;

&lt;itemizedlist mark="upper-alpha">
&lt;listitem&gt;
&lt;para&gt;Dng trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt; (cng trn nhng ba, nu c) mt tiu  khe bit vi tiu  ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; v vi tiu  ca phin bn no trc (cc phin bn trc, nu c, nn c lit k trong phn Lch s ca Ti liu). Nh xut bn gc cho php th bn c quyn s dng mt tiu  vi phin bn trc.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Lit k trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt;, lm tc gi, mt hay nhuu nghi hay thc th chu trch nhim to s sa i trong &lt;link linkend="fdl-modified">Phin bn  Sa i</link&gt;, cng vi t nht nm tc gi chnh ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; (tt c cc tc gi chnh, nu s t hn nm).&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Ghi r trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt; tn ca nh xut bn &lt;link linkend="fdl-modified">Phin bn  Sa i</link&gt;, lm nh xut bn.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Bo tn tt c cc thng bo tc quyn ca &lt;link linkend="fdl-document"&gt;Ti Liu&lt;/link&gt;.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Thm mt thng bo tc quyn thec hp vi s sa i ca bn, tip cn vi cc thng bo tc quyn khc.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Chn vo, ng sau nhng thng bo tc quyn, mt thng bo giy php cho php mi nghi s dng &lt;link linkend="fdl-modified">Phin bn  Sa i</link&gt; vi iu kin ca Giy php ny, dng mu c hin th trong Ph le bn di.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Bo tn trong thng bo giy php nhng danh sch y cc &lt;link linkend="fdl-invariant">Tit on Bt Bin</link&gt; v cc &lt;link linkend="fdl-cover-texts">on Ba</link&gt; cn thit a ra trong thng bo giy php ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt;.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Gm c mt bn sao cha thay i ca Giy php ny.&lt;/para&gt;
</sect1>
<listitem>
   <para>Bo tn phn tn <quote>Lch s</quote>, cng vi tiu ca n, v thm vo n mt mc ph bt nh t nh tiu, nm xut bn, cc te gi mi v nh xut bn ca <link linkend="fdl-modified">Phin bn Sa i</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link>. Khng c phn tn <quote>Lch S</quote> trong <link linkend="fdl-document">Ti liu</link> th bn to mt iu ph bt nh t nh tiu, nm xut bn, cc te gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link> ca n, ri thm mt mc din t <link linkend="fdl-modified">Phin bn Sa i</link> nh c ph bt biu trong cu trc.</para>
</listitem>

</listitem>

<listitem>
   <para>Bo tn a im trn mng, nu c, a ra trong <link linkend="fdl-document">Ti liu</link> cho mi nghi truy cp mt bn sao <link linkend="fdl-transparent">Trong Sut</link> ca <link linkend="fdl-document">Ti liu</link>, cng vy a im mng a ra trong <link linkend="fdl-document">Ti liu</link> cho cc phin bn trc vo n da. Cho php bn chn nhng iu ny vo phn <quote>Lch s</quote>. Cho php bn b st mt a im mng i vi vn bn xut bn t nh bn nm trc <link linkend="fdl-document">Ti liu</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link> ca n, ri thm mt mc din t <link linkend="fdl-modified">Phin bn Sa i</link> nh c ph bt biu trong cu trc. <link linkend="fdl-document">Ti liu</link> chnh n, hoc nu nh xut bn gc ca phin bn n cp c cho php.</para>
</listitem>

</listitem>

<listitem>
   <para>i vi bt c phn no tn <quote>Li Bo Nhn</quote> hay <quote>Li Tng</quote>, bo tn tiu ca phn, cng bo tn trong n ton b nguyn liu v ging iu u ca mi li bo nhn v/hay li tng ngi ng gp cho.</para>
</listitem>

</listitem>

<listitem>
   <para>Bo tn tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca <link linkend="fdl-document">Ti liu</link> c vn bn ln tiu u khng thay i. S hiu tit on hay thng ng khng c xem l phn ca tiu tit on.</para>
</listitem>

</listitem>

<listitem>
   <para>Xo b tit on no c tiu <quote>S Xc nhn</quote>. Khng cho php <link linkend="fdl-modified">Phin bn Sa i</link> cha tit on nh vy.</para>
</listitem>

</listitem>

<listitem>
   <para>ng thay i tiu ca k c tit on tn ti thnh <quote>S Xc nhn</quote> hoc thnh g xung t vi tiu ca bt c <link linkend="fdl-invariant">Tit on Bt Bin</link> no.</para>
</listitem>

</listitem>

</itemizedlist>

<para>Nu <link linkend="fdl-modified">Phin bn Sa i</link> gm c tit on trc hay ph lc tho tiu chun ca <link linkend="fdl-secondary">Tit on Ph</link> v khng cha nguy liu c sao chp t <link linkend="fdl-document">Ti liu</link>, cho php bn ty chn xc nh mt s hay t c nhng tit on ny l bt bin. Im nh th, hy thm cc tiu ca chng vo danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link> trong thng bo giy php ca <link linkend="fdl-modified">Phin bn Sa i</link>. Nhng tiu ny phi ring bit vi bt k tiu tit on khc.</para>

<para>Cho php bn thm mt tit on c tiu <quote>S Xc nhn</quote>, min l n cha ch s xc nhn <link linkend="fdl-modified">Phin bn Sa i</link> ca cc bn khc nhau ly th d, bi ph bnh ngang hng hay li ph bt biu rng vn bn c tn thnh bi</para>
mt t che no lm s xc nh c en c ca mt tiu chun.</para>

<para>Cho php bn thm mt on cha n nm t lm <link linkend="fdl-cover-texts">on Ba Trc</link>, v mt on cha n 25 t lm <link linkend="fdl-cover-texts">on Ba Sau</link>, vo kt th ca danh sch cc <link linkend="fdl-cover-texts">on Ba</link> trong <link linkend="fdl-modified">Phin bn Sa i</link>. Cho php mi th th thm (hay thu xp thm) ch mt <link linkend="fdl-cover-texts">on Ba Trc</link> v ch mt <link linkend="fdl-cover-texts">on Ba Sau</link>. Nu <link linkend="fdl-document">Ti liu</link> cha mt on ba trn ba , c thm trc bi bn (hoc c thu xp thm bi cng mt thc th bn i din), khng cho php bn thm on na; nhng bn c th thay th th iu c nu nh xut bn thm n cho php dt khot.</para>

<para>(Nhng) tc gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> khng phi bng Giy Php ny cho php s dung tn ca h trong thnh cng khai hoc xc nhn (trc tip hay c ng ) bt c <link linkend="fdl-modified">Phin bn Sa</link> i</link> no.</para>

<sect1 id="fdl-section5" label="5">
<title>KT HP TI LIU</title>
<para>Cho php bn kt hp <link linkend="fdl-document">Ti liu</link> vi cc ti liu khi c phh nh nh di Giy php ny, vi iu kin c xc nh trong <link linkend="fdl-section4">phn 4</link> trn v phn bn sa i, min l bn gm trong s kt hp tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> tit on Bt Bin</link> ca tt c cc ti liu gc, cha sa i, v lit k tt c chng l <link linkend="fdl-invariant">Tit on Bt Bin</link> tit on Bt Bin</link> ca vn bn kt hp, trong thng bo giy php ca n.</para>

<para>Vn bn kt hp cn phi cha ch mt bn sao ca Giy php ny; cng cho php thay th nhu <link linkend="fdl-invariant">Tit on Bt Bin</link> trng bng cng mt bn sao. Mu c nhu <link linkend="fdl-invariant">Tit on Bt Bin</link> cng tn nhng khi ni dung, khn mi tiu tit on l duy nht, bng cch ph thm (trong ngoc) tn ca te gi hay nh xut bn gc ca tit on , nu c bit, hoc mt s hiu, iu chnh tng ng nhng tiu tit on trong danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link> tit on Bt Bin</link>, trong thng bo giy php ca vn bn kt hp.</para>

<para>Trong s kt hp, bn phi kt hp bt k tit on c tiu <quote>Lch s</quote> ca nhng ti liu gc khi nhau, th to cng mt tit on c tiu <quote>Lch s</quote>; cng vy kt hp bt k tit on c tiu <quote>Li Bo Nh</quote>, v bt k tit on c tiu <quote>Li Tng</quote>. Bn phi xo b mi tit on c tiu <quote>S Xc Nh</quote>.</para>

<sect1 id="fdl-section6" label="6">
<title>TP HP TI LIU</title>
<para>Cho php bn to mt tp hp cha <link linkend="fdl-document">Ti liu</link> v cc ti liu khi nhau cng c phh nh nh di Giy php ny, v thay th nhng bn sao ring ca Giy php ny trong nhng ti liu khi nhau bng cng mt bn sao c bao gm trong tp hp, min l bn theo nhng quy te ca Giy php ny mi phng din khi i vi vic sao chp ng nguyn vn mi ti liu.</para>

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<sect1>
<sect1 id="fdl-section7" label="7">
<sect1 id="fdl-section8" label="8">
<title>THNG DCH</title>
<para>S thng dch c coi l kiu s sa i, v vy cho php bn ph hnh cc bn dch ca <link linkend="fdl-document"/>Ti liu</link>/v/i th trn m th kinh tinh ca phnh tin lu tr v nh ph hnh tnh, tnh v khng phi t nh n th <link linkend="fdl-modified"/>Phin bn s a i</link>/ ca <link linkend="fdl-document"/>Ti liu</link>/, min l khng c tc quy n su tp c tuyn b v s su tp. S su tp ti liu nh v c gi l <quote>khi tp hp</quote>/, v Giy php ny khng p dng cho nhng sn phm c lp khc c su tp vi <link linkend="fdl-document"/>Ti liu</link>/ do chng c su tp nh th, nu bn thn chnh khng phi l sn phm dn xut ca <link linkend="fdl-document"/>Ti liu</link>/. Nu nh cu <link linkend="fdl-cover-texts"/>on Ba</link>/ ca <link linkend="fdl-section3"/>phn 3</link>/ c th c p dng cho nhng bn sao ny ca <link linkend="fdl-document"/>Ti liu</link>/ th nu <link linkend="fdl-document"/>Ti liu</link>/ c kenh c t nh mn phn t ca ton b kenh c ca khi tp hp, cho php bn hin th nhng <link linkend="fdl-cover-texts"/>on Ba</link>/ ca <link linkend="fdl-document"/>Ti liu</link>/ trn ba chung quanh ch <link linkend="fdl-document"/>Ti liu</link>/ bn trong khi tp hp. Khng th nhng <link linkend="fdl-cover-texts"/>on Ba</link>/ ca <link linkend="fdl-document"/>Ti liu</link>/ phi xut hin trn ba chung quanh ton b khi tp hp.</para>
</sect1>

<sect1 id="fdl-section9" label="9">
<title>KT THC</title>
<para>Khng cho php bn sao chp, sa i, c ph hay ph hnh <link linkend="fdl-document"/>Ti liu</link>/, tr phi vi nhng iu kin dt khot ca Giy php ny. Bt c s c gng khc no sao chp, sa i, c ph hay ph hnh Ti liu b bi b, v s kt th c ng cc quy n ca bn di Giy php ny. Tuy nhn, nhng ngi nhn bn sao, hay quy n, t bn di Giy php ny s khng c giy php b kt thc min l h tip t c tun theo hon ton.</para>
</sect1>

<sect1 id="fdl-section10" label="10">
<title>BN SA I TNG LAI CA GIY PHP NY</title>

<para>Mi phin bn ca Giy php nhn mn s hiu phin bn ring. Nu <link linkend="fdl-document"/>Ti liu</link>/ xe nh rng mt phin bn s hiu ring ca Giy php ny <quote>hay bt c phin bn sau no</quote>/ p dng cho n, bn c ty chn tun theo iu kin hoc ca phin bn xe nh, hoc ca bt c phin bn sau no c cng b (khng phi l nhp) bt T chc Phn mn T do. Nu <link linkend="fdl-document"/>Ti liu</link>/ khng xe nh mn s hiu phin bn ring ca Giy php ny, cho php bn chn bt c phin bn no c cng b (khng phi l nhp) bt T chc Phn mn T do.</para>
</sect1>
Ph Lc

<sect id="fdl-using" label="none">
<title>Ph Lc</title>
<para>dng Giy php ny trong mt ti liu bn to, hy gm mt bn sao ca Giy php trong ti liu, v thm nhng thng bo tc quyn v giy php ny ng sau trang tiu :</para>

<blockquote>
<para>Tc quyn NM H TN CA BN</para>
<para>C cp quyn sao chp, pht lhnh v/hay sa i ti liu ny vi iu kin ca Giy php Ti liu T do GNU (GFDL), Phin bn 1.1 hay bt c phin bn sau no c cng b bi T chc Phn mm T do; cn nhng <link linkend="fdl-invariant">Tit on Bt Bin</link> 1 LIT K CC TIU, cn nhng <link linkend="fdl-cover-texts">on Ba Trc</link> l LIT K, v cn nhng <link linkend="fdl-cover-texts">on Ba Sau</link> l LIT K. Mt bn sao ca giy php c gm trong tit on c tiu <quote>Giy php Ti liu T do GNU</quote>.</para>
</blockquote>

<blockquote>
<para>Nu bn khng c <link linkend="fdl-invariant"> Tit on Bt Bin</link>, hy vit <quote>khng c Tit on Bt Bin</quote> thay cho lit k nhng tit on bt bin. Vy nu bn khng c <link linkend="fdl-cover-texts">on Ba Trc</link>, vit <quote>khng c on Ba Trc</quote> thay cho lit k chng; cng vy i vi <link linkend="fdl-cover-texts">on Ba Sau</link>.
</para>
</blockquote>

<para>Nu ti liu ca bn cha mu th d ng k ca m ngun chng trnh, khuyn bn pht lhnh nhng mu ny mt cch song song di giy php pthn mm t do mun, v.d. <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html">Giy php Cng cng GNU</ulink> (GPL), cho php ngi khc dng m ny trong phn mm t do.</para>
</sect>
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<sect2 id="sect3" label="3">
<title> 3 </title>
<para> GNU  2 ( 2 )</para>
<para> GNU </para>
</sect2>

<sect2 id="sect4" label="4">
<title> 4 </title>
<para><link linkend="sect2">1</link><link linkend="sect2">2</link><link linkend="sect2">2</link>()<link linkend="sect2">1</link><link linkend="sect2">2</link></para>
<para></para>
</sect2>

<sect2 id="sect5" label="5">
<title> 5 </title>
<para><quote></quote></para>
<para></para>
</sect2>
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<sect2 id="sect7" label="7">
<title> 7 </title>

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</sect2>

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<title> 8 </title>

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<title> 9 </title>

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<sect2 id="sect10" label="10">
<title> 10 </title>

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<sect2 id="sect11" label="11">
<title> 11 </title>

</sect2>

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<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      The modified work must itself be a software library.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
    </para>
  </listitem>
  <listitem>
    <para>
      If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
    </para>
  </listitem>
</orderedlist>

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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</para>

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</para>

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</para>
</listitem>
</orderedlist>
</sect2>

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</para>

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a work that uses the Library. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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of such executables.

<para>

<para>
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<para>

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)

<para>

<para>
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.

<para>

<sect2 id="sect6" label="6">
<title>Seccion 6</title>

<para>
As an exception to the Sections above, you may also combine or link a <quote>work that uses the Library</quote> with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

<para>

<para>
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<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
      Accompany the work with the complete corresponding
      machine-readable source code for the Library including whatever
      changes were used in the work (which must be distributed under
      Sections <link linkend="sect1">1</link> and
      <link linkend="sect2">2</link> above); and, if the work is an
      executable linked with the Library, with the complete machine-readable
      work that uses the Library, as object code and/or source
      code, so that the user can modify the Library and then relink to
      produce a modified executable containing the modified Library. (It is
      understood that the user who changes the contents of definitions files
      in the Library will not necessarily be able to recompile the application
      to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the
      Library. A suitable mechanism is one that (1) uses at run time a
      copy of the library already present on the user's computer system,
      rather than copying library functions into the executable, and (2)
      will operate properly with a modified version of the library, if
      the user installs one, as long as the modified version is
      interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at
      least three years, to give the same user the materials
      specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
      this distribution.
    </para>
  </listitem>
  <listitem>
    <para>
      If distribution of the work is made by offering access to copy
      from a designated place, offer equivalent access to copy the above
      specified materials from the same place.
    </para>
  </listitem>
</orderedlist>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Sections above.
</para>
</listitem>

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
</para>
</listitem>
</orderedlist>
</sect2>

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<title>Seccion 8</title>

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<title>Seccion 9</title>

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<title>Seccion 10</title>

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</para>
</sect2>

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</sect2>

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<title>Predgovor</title>

<para>Licenne pogodbe veine programske opreme so zasnovane tako, da vam prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa vam Splona dovoljenja GNU (angl. GNU General Public Licenses, GPL) jamijo svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovljajo, da ostane ta prosta za vse njene uporabnike.</para>

<para>Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.</para>

<para>To dovoljenje, Manj splono dovoljenje, se nanaa na nekatere posebej zasnovane programske pakete - navadno knjinice - ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. Tudi vi ga lahko uporabljate, a najprej vam priporoamo, da glede na razlago spodaj pazljivo razmislite, ali je v doloenem primeru bolje uporabljati to dovoljenje ali morda navadno Splono dovoljenje.</para>

<para>Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.</para>

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<para>Na primer, e razirjate kopije neke knjinice, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate sami. Prepriati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. e s knjinico povezujete drugo kodo, morate prejemnikom ponuditi popolne objektne datoteke, tako da jih lahko potem, ko knjinico spremenijo, vnovi poveejo s knjinico in prevedejo. In morate jim pokazati te pogoje (pravzaprav izvirnik, opomba prevajalca), da bodo poznali svoje pravice.</para>

<para>Vae pravice itimo v dveh potezah: (1) avtorsko zaitimo knjinico in (2) vam ponujamo to dovoljenje, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in ali spreminjanje knjinice.</para>

<para>Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posreboval naprej, elimo, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja. Zaradi zaite vsakega razirjevalca elimo zagotoviti, da vsakdo razume, da za to prosto knjinico ni nikakrnega jamstva. e je knjinico spremenil nekdo drug in jo posreboval naprej, elimo, da njeni prejemniki vedo, da to, kar imajo, ni izvirnik, da problemi, ki jih povzroijo drugi, ne bodo kvarili ugleda izvornega avtorja.</para>

<para>Konno, vsak prosti program nenahno ogroaj programski patenti. elimo se izogniti nevarnosti, da bi podjetja uinkovito omejevala uporabnike prostega programa s pridobivanjem omejujoih licenc od lastnikov patentov. Za prepreitev tega jaso zahtevamo, da mora biti vsak patent za katerokoli izpeljano razliico knjinice licenciran tako, da je popolnoma konsistenten s popolno svobodo rabe, kot jo doloa to dovoljenje.</para>
Veino programja GNU, vkljuno z nekaterimi knjincami, pokriva navadno Splono dovoljenje GNU. To dovoljenje, Manj splono dovoljenje GNU, se nanaa na doloene posebne knjinice, in se precej razlikuje od navadnega Splonega dovoljenja. To dovoljenje uporabljamo za tiste knjinice, za katere elimo omogoiti tudi povezovanje v neproste programe.

Ko se program povee s knjinico, naj, s pomojo deljene knjinice, je kombinacija obojega skupaj, pravno gledano, zdrueno delo, izpeljanka izvirne knjinice. Navadno Splono dovoljenje torej dovoljuje takno povezovanje le, e celotna kombinacija zadoa prav tam doloenim kriterijem svobode. Manj splono dovoljenje dovoljuje bolj ohlapne pogoje za povezovanje druge kode s knjinico.

Tem dovoljenju pravimo "Manj" splono dovoljenje, saj manj zavaruje svobodo uporabnika kot pa navadno Splono dovoljenje. Drugim razvijalcem prostega programja tudi ponuja manj prednosti pred konkurenzami neprostimi programi. Te pomanjkljivosti so razlog, da smo za tevilne knjinice uporabili navadno Splono dovoljenje. Vendar Manj splono dovoljenje v doloenih pogojih pomeni prednost.

Denimo, da v redkih primerih obstaja posebna potreba spodbuditi kar najiro rabo doloene knjinice, da bi ta postala de-facto standard. Da lahko to doseemo, mora biti neprostim programom dovoljeno uporabljati to knjinico. Pogosteje se zgodi, da prosta knjinica opravi enako delo kot irodih uporabljane neproste knjinice. V tem primeru pridobimo le malo, e omejimo rabo proste knjinice le na prosto programje, zato raje uporabimo Manj splono dovoljenje.

V drugih primerih dovoljenje rabe doloene knjinice v neprostih programih omogoi vejemu tevilu ljudi, da uporabljajo veji obseg prostega programja. Dovoljenje za uporabo knjinice GNU C v neprostih programih je, denimo, omogoilo mnogim ljudem, da so uporabljali popoln operacijski sistem GNU, kot tudi njegovo inaico, operacijski sistem GNU/Linux.

eprav Manj splono dovoljenje manj zaiti uporabnikovo svobodo, pa vendarle zagotavlja, da ima uporabnik programa, ki je povezan s knjinico, proste roke pri poganjanju tega programa s spremenjen razliico te knjinice.

Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med "delom, ki temelji na knjincici" in "delom, ki uporablja knjinico". Prvo vsebuje kodo, izpeljano iz knjinice, medtem, ko mora biti drugo kombinirano s knjinico, da lahko tee.

Razdelek 0

Ta licenca se nanaa na vsako programsko knjinico ali drug program, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) ali druge pooblaene osebe, z izjavo, da se lahko razirja pod pogoji Manj splonega dovoljenja GNU (angl. Lesser General Public License), imenovanega tudi "ta licenca". Vsakega izdajatelja licence naslavljamo z "vi".

Knjinica pomeni zbirkro programskih funkcij in/ali podatkov, pripravljenih tako, da jih je mo prirono povezovati z uporabnimi programi (ki uporabljajo nekatere teh funkcij in podatkov), da s tem
Knjinica v nadaljevanju pomeni vsako takšno programsko knjinico ali delo, ki se razirja pod temi pogoji. Delo, ki temelji na knjinici pomeni bodisi knjinico ali pa katerokoli izvedeno delo po zakonu o avtorski in sorodnih pravicah (angl. copyright law); se pravi delo, ki vsebuje knjinico ali njen del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vključen brez omejitev v pojem spremembe.)

Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri knjinici pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezanega s tem delom, ter skripte za nadzor prevajanja in namestitev knjinice.

Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa pod pogoji tega dovoljenja. Razmnojete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa pod pogoji programa e izvod tega dovoljenja.

Za fizino dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plailo.
Zagotoviti morate, da je celotno delo brezplano licenciранo tretjim osebam pod pogoji te licence.

Ker priskrbi uporabni program, ki to funkcionalnost uporablja, na drug nacin kot argument ob klicu funkcionalnosti, morate v dobri veri poskrbeti, da tudi v primeru, ko program ne ponuja take funkcije ali tabele, funkcionalnost e vedno deluje, in izvaja katerikoli del svojega namena, ki e ostaja smiseln.

(Funkcija, ki v neki knjizici skrbi za izraun kvadratnih korenov, ima namen, ki je popolnoma dobro definiran in neodvisen od programa. Podrazdelek 2.d. torej zahteva, da katerakoli funkcija ali tabela, ki jo glavni program ponuja tej funkciji, ni obvezna za pravilno delovanje funkcije za izrauna kvadratnih korenov.)

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je mogoee prepoznati, niso izpeljani iz knjizice in jih je mogoee same po sebi utemeljeno obravnavati kot neodvisna in loena dela, potem to dovoljenje in njegova dooloila za te razdelke ne velja, e jih razirjate kot loena dela. A e razirjate iste razdelke kot dele celote, ki je delo, ki temelji na knjizici, mora biti razirjanje celote izvedeno pod pogoji te dovoljenja, katerega dovoljenja uporabce za druge uporabnike dovoljenja se razirijo na vso celoto, in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Namen tega razdelka torej ni, da bi zanikal ali spodbijal vaee pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen razdelka raziriti pravico nadzora nad razirjanjem izpeljanih ali zdruenih del, ki temeljijo na knjizici.

Poleg tega zgolj uvranje drugega dela, ki ne temelji na knjizici, poleg knjizice (ali poleg dela, ki temelji na knjizici), na enoti nosilca ali mediju za razirjanje, se dovoljenje na to drugo delo ne nanaa.

Po elji lahko uporabite namesto tega dovoljenja za dani izvod knjizine tudi pogoje navadnega Splonega dovoljenja GNU. e elite to storiti, morate spremeniti vsa sklicevanja na to dovoljenje tako, da se, namesto na to dovoljenje, skliceju na navadno Spono dovoljenje GNU (angl. GNU General Public License) razliice 2. (e obstaja razliica navadnega Splonega dovoljenja GNU tevilke, veje od 2, potem lahko, e tako elite, dolote to tevilko razliice.) V teh obvestilih ne spreminjajte niesar drugega.

Ko se enkrat zgodi opisana sprememba za dani izvod, je za ta izvod to nepovratno, torej Splono dovoljenje GNU velja tudi za vse nadaljnje izvode in izpeljana dela, ki izvirajo iz tega izvoda.

Ta monost je uporabna, e elite prepisati del kode knjizine v program, ki ni knjizica.
Knjino (ali delo, ki temelji na njej, pod doloili razmnoevati in razirjati v objektini kodni ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in 2, e jo pospremite s popolno ustrezno strojno berljivo izvorno kodo, ki mora biti razirjana po pogoju zgornjih razdelkov in nosišču, navadno uporabljanem za izmenjavo programja.)

e se razirjanje objektne kode omogoa s ponujanjem dostopa do izvoda z doloenega mesta, potem pogoju za razirjanje izvorne kode zadoa tudi omogojenje enakega dostopa do izvoda izvorne kode, eprav tretje osebe niso dolne razmnoevati izvorne kode poleg objektne kode.

Program, ki ne vsebuje izpeljanke nobenega dela knjinice, a je zasnovan tako, da deluje s to knjinico tako, da je z njo preveden ali povezan, se imenuje "delo, ki uporablja knjinico". Tako delo samo po sebi ni iz knjinice izpeljano delo, in torej ni predmet te licence.

 Vendr povezovanje "delo, ki uporablja knjinico" s knjinico naredi izvedljivo datoteko, ki je izpeljanka te knjinice (ker vsebuje dele knjinice), in ne "delo, ki uporablja knjinico". Izvedljiva datoteka je torej pokrita s to licenco. Pogoje razirjanja taknik programov doloa razdelek 6.

e takna objektna datoteka uporablja le numerine parametre, podatkovne strukture in naine dostopa, in male makroukaze in male vkljuene funkcije (dolge deset vrstic ali manj), potem uporaba objektne datoteke ni omejena, ne glede na to, da je pravno gledano to izpeljano delo. (Izvedljive datoteke, ki vsebujejo objektno kodo in dele knjinice, e vedno sodijo pod razdelek 6.)

e je sicer delo izpeljano iz knjinice, lahko razirjate izvorno kodo dela pod pogoji razdelka 6. Katerekoli izvorni delo, ki tudi vsebujejo delo, sodijo pod razdelek 6, ne glede na to, ali so neposredno povezane s samo knjinico ali ne.

Kot izjemo glede na zgornje razdelke lahko tudi kombinirate ali povezujete "delo, ki uporablja knjinico" s knjinico, ki izdela delo, in razirjate to delo pod pogoji po vaizbirje, e ti pogoji dovoljujejo spreminjanje dela za uporabnikovo lastno rabo in obratni ineniring za razhroevanje taknik sprememb.
Poleg vsakega izvoda dela morate dodati jasno obvestilo, da delo uporablja knjizona in da rabo knjizice doloa ta licence. Oddati morate tudi izvod te licence. e delo med izvajanjem izpisuje pravice razirjanja, morate med njimi vkljuti tudi sporoilo o pravicah razirjanja za knjizico, kot tudi sklic, ki usmerja uporabnika na izvod te licence. Narediti morate tudi eno od teh stvari:  

- Opravite delo s popolno ustrezno strojno berljivo izvorno kodo za knjizico, vkljuno z vsemi spremembami v tem delu (ki mora biti razirjano pod pogoji zgornjih razdelkov) in (2) pravilno deluje s spremenjeno razliico knjizice, e jo uporabnik namesti, e je le vmesnik spremenjene razliice združljiv z razliico, za katero je bilo delo izdelano. 

- Opravite delo s pisno ponudbo, veljavno vsaj tri leta, ki ponuja istemu uporabniku gradiva, doloena v zgornjem podrazdelku 6a, proti plailu zneska, ki ne presega dejanski strokov taknega razirjanja. 

- Preverite, da je uporabnik e prejel izvod teh gradiv ali da ste temu uporabniku izvod e poslali. 

Pri izvedljivem delu mora zahtevana oblika dela, ki uporablja knjizico vkljuevati vse podatke in pomone programe, potrebne za ponovno izdelavo izvedljive datoteke iz nje. Vendar - kot posebna izjema - ni nujno, da razirjano gradivo vkljuuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, itn.) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko. 

Lahko se zgodi, da te zahteve nasprotujejo licennim omejitvam drugih lastnikih knjizic, ki navadno ne spremljajo operacijskega sistema. Takno nasprotovanje pomeni, da jih ne morete uporabljati hkrati s knjizico v izvedljivi datoteki, ki jo boste razirjali. 


**Razdelek 7**

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 39451
Dele knjine, ki so dela, temelje na Knjinici, lahko uvrstite v skupno knjinico z drugimi deli knjinice, ki jih ta Licenca ne pokriva, ter razirjate takno kombinirano knjinico, e je sicer dovoljeno loeno razirjati Knjinico in druge dele knjinice, in e naredite naslednji stvari:</para>

<Klistitem>
<Kpar>Kombinirano knjino pospremite z izvodom istega dela, ki temelji na Knjinici, brez kakrnihkoli dodatnih delov knjinice. To se mora razirjati pod pogoji iz zgornjih razdelkov.</Kpar>
</Klistitem>
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<Kpar>Poleg kombinirane knjice podajte vidno obvestilo, da deli knjinice temeljijo na Knjinici, in pojasnite, kje najti ustrezen nekombinirano obliko istega dela.</Kpar>
</Klistitem>
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<Ksect id="sect8" label="8">Razdelek 8</Ksect>

<Kpar>Knjinice ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja, jo povezovati ali razirjati, e to ni izrecno dovoljeno s priujoim dovoljenjem. Vsak sicernji poskus razmnoevanja, spreminjanja, podrejanja dovoljenja, povezovanja ali razirjanja knjinice je nien in vam samodejno odvzame pravice, izhajajoe iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler jo v celoti spotujejo.</Kpar>

<Ksect id="sect9" label="9">Razdelek 9</Ksect>

<Kpar>Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam brez slednjega ni ne dovoljuje spreminjanja ali razirjanja knjinice ali iz nje izpeljanih del, e ne sprejmete tega dovoljenja, so ta dejanja nezakonita. Torej, s spremembo ali razirjanjem knjinice (ali kateregakoli dela, ki temelji na knjinici) pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje knjinice ali del, ki temeljijo na njej.</Kpar>

<Ksect id="sect10" label="10">Razdelek 10</Ksect>

<Kpar>Vsaki, ko razirjate knjinico (ali katerokoli delo, ki temelji na knjinici), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje, povezovanje ali spreminjanje knjinice glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem.</Kpar>

<Ksect id="sect11" label="11">
<para>e so vam, kot posledica presoje sodia ali suma kritve patenta ali iz katerega koli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo spotovanja pogojev tega dovoljenja. e knjine ne morete razirjati tako, da hkrati zadostite svojim obvezam pod tem dovoljenjem in vsem drugim ustreznim obvezam, potem posledino sploh ne smete razirjati knjine. Na primer, e patentno dovoljenje ne dovoli razirjanja knjine brez plačvanja avtorskega honorarja vseh, ki prejmejo izvode neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju, ta, da se v celoti vzdržite razirjanja knjine. (para>

<para>e se za katerikoli del tega razdelka ugotoviti, da je neveljaven ali da ga ni mogoe izvajati pod nobenim doloenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih. (para>

<para>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastitva pravic ali izpodbijal veljavnost katerikoli taknih trditev; edini namen tega razdelka je itenje integrirati sistema razirjanja proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire. (para>

<para>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice preostalega besedila dovoljenja. (para>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>

<para>e sta razirjanje in/ali uporaba knjine v doloenih dravah omejena, bodisi zaradi patentov ali avtorsko zaintenih vmesnikov, lahko izvorni lastnik ali lastnica avtorskih pravic, ki postavlja knjinico pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuje omejitve, kot da so zapisane v besedilu tega dovoljenja. (para>

<sect2 id="sect13" label="13">
<title>Razdelek 13</title>

<para>Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Manj splonega dovoljenja (angl. Lesser General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede. (para>

<para>Vsaki razliici je doloena razlomevalna tevilka razlice. e knjinica doloa tevilko razlice tega dovoljenja, ki se nanaa nanjo in <quote>na katero koli poznejo razliico</quote>, imate izbizo upotevanja pogojev in doloibodisi te razlice ali poljubne kasneje razlice, ki jo je izdala ustanova Free Software Foundation. e knjinica ne doloa tevilke razlice tega dovoljenja, lahko izberete poljubno razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation. (para>

<sect2>
 Razdelek 14

e elite vključiti dele knjicne v drugo prosto programsko opremo, katere pogoj razirjanja so drugani od teh, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasih pri tem naredimo izjemo. Nao odloitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</para>

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      You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
    </para>
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    </para>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>3</title>
<para>GNU .` 2 GNU ( ). .</para>
<para>, , GNU.</para>
<para>, .</para>
</sect2>

<sect2 id="sect4" label="4">
<title>4</title>
<para>( , <link linkend="sect2">2</link>) ' <link linkend="sect1">1</link> <link linkend="sect2">2</link>, , <link linkend="sect1">1</link> <link linkend="sect2">2</link>, . .</para>
<para>' , , ' .</para>
</sect2>
As an exception to the Sections above, you may also combine or link a <quote>work that uses the Library</quote> with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

1. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to

...
produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

<para>
</para>

<listitem>
<para>
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
</para>
</listitem>

<listitem>
<para>
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
</para>
</listitem>

<listitem>
<para>
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
</para>
</listitem>

<listitem>
<para>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
</para>
</listitem>

<para>
For an executable, the required form of the <quote>work that uses the Library</quote> must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</para>

</sect2>

<sect2 id="sect7" label="7">
<title>7</title>

<para> , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ...
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http://developer.gnome.org/projects/gdp
Version: 1.0.1
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Fr att skydda dina rttigheter, mste vi begrnna var och ens miljhet att hindra dig frn att anvnda dig av dessa rttigheter samt frn att krva att du ger upp dessa rttigheter. Dessa begrnsningar motsvaras av en frpliktelse fr dig om du distribuerar kopior av programvaran eller om du ndrar eller modifierar programvaran.

Om du exempelvis distribuerar kopior av en fri programvara, oavsett om du gr det gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks tillsa att mottagaren fr kllkoden eller kan f den om mottagaren s nskar. Du mste ocks visa dessa licensvillkor fr mottagaren s att mottagaren knner till sina
Vi skyddar dina rättigheter i två steg: 

1. Upphovsrätt till programvaran och denna licensvillkor som ger dig rätt att kopiera, distribuera och ändra programvaran.

Du ger kopiera och distribuera exakta kopior av Programvarans källkod ssom du mottog den, i alla medier, frutsatt att Du tydligt och på ett skilt stt paster en riktig upphovsrättsklausul och garantivärd. Användningen av Programvaran r inte begränsad och resultatet av användningen av Programvaran tcks endast av dessa licensvillkor om resultatet utgör ett Verk baserat p Programvaran (oberoende av att det skapas av att programmet krets). Det beror p vad Programvaran gr.

Du ger kopiera och distribuera exakta kopior av Programvarans källkod ssom du mottog den, i alla medier, frutsatt att Du tydligt och p ett skilt stt paster en riktig upphovsrättsklausul och garantivärd.
vidhller alla hänvisningar till dessa licensvillkor och till alla garantiavsgelser samt att till alla mottagaren av
Programvaran ge en kopia av dessa licensvillkor tillsammans med Programvaran.</para>

</sect2>

</sect2 id="sect2" label="2">
<title>Paragraf 2</title>
<para>Du ger utta en avgift fr mekaniseringen [att fysiskt fsta Programvaran p ett medium, ssom en diskett eller
en cd-romskiva] eller verfringen av en kopia och du ger erbjuda en garanti fr Programvaran mot en avgift.</para>
</sect2>

</sect2 id="sect2" label="2">
<title>Paragraf 2</title>
<para>Du ger ndra ditt exemplar eller andra kopior av Programvaran eller ngon del av Programvaran och drmed
skapa ett Verk baserat p Programvaran, samt att kopiera och distribuera sdana frndrade versioner av Programvaran
eller verk enligt villkoren i <link linkend="sect1">paragraf 1</link> ovan, frutsatt att du ocks uppfyller fljande
villkor: <orderedlist numeration="loweralpha">

<li><para>Du tills att de frndrade filerna har ett tydligt meddelande som berttar att Du ndrat filerna samt vilket
datum dessa ndringar gjordes.</para></li>
<li><para>Du tillser att alla verk som du distribuerar eller offentliggr som till en del eller i sin helhet innehller eller r
hrlett fn Programvaran eller en del av Programvaran, licensieras i sin helhet, utan kostnad till tredje man enligt
dessa licensvillkor.</para></li>
<li><para>Om den frndrade Programvaran i sitt normala utfarande kan utfra interaktiv kommandon nr det krs, mste Du
tillse att nr Programmet startas skall det skriva ut eller visa, p ett enkelt tillngligt stt, ett meddelande som tydligt
och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantiavsgelse (eller i frekommande fall
ett meddelande som klargr att du tillhandahller en garanti) samt att mottagaren ger distribuera Programvaran enligt
dessa licensvillkor samt bertta hur mottagaren kan se dessa licensvillkor. <note>
<title>Undantag:</title>
<para>Fn den hr skyldigheten undantas det fall att Programvaran frvisso r interaktiv, men i sitt normala utfarande
inte visar ett meddelande av den hr typen. I sdant fall behver Verk baserat Programvaran inte visa ett sdant
meddelande som nmns ovan.</para></note></para></li>
<li><para>Dessa krav gller det frndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr fn
Programvaran och sklig kan anses vara fristende och sjlvständiga verk i sig, d skall dessa licensvillkor inte glla i de
delarna nr de distribueras som egna verk. Men om samma delar distribueras tillsammans med en helhet som
innehller verk som hrrr fn Programvaran, mste distributionen i sin helhet ske enligt dessa licensvillkor.
Licensvillkoren skall i sdant fall glla fr andra licenstagare fr hela verket och slunda till alla delar av Programvaran,
oavsett vem som r upphovsman till vilka delar av verket.</para></note></li>
</orderedlist></para>

<para>Den hr paragrafen skall slunda inte tolkas som att ansprk gars p rttigheter eller att ifrgastta Dina rttigheter
till programvara som skrivits helt av Dig. Syftet r att tillse att rtt att kontrollera distributionen av derivativa eller
samlingsverk av Programvaran.</para>

<para>Frekomsten av ett annat verk p ett lagringsmedium eller samlingsmedium som innehller Programvaran
eller Verk baserat p Programvaran leder inte till att det andra verket omfattas av dessa licensvillkor.

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

<para>Du ger kopiera och distribuera Programvaran (eller Verk baserat p Programvaran enligt <link linkend="sect2">paragraf 2</link>) i objektkod eller i kvar form enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> frutsatt att Du ocks gr en av fljande saker: <orderedlist numeration="loweralpha">
<li>Bifogar den kompletta kllkoden i maskinlsbar form, som mste distribueras enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> p ett medium som i allmnhet anvnds fr utbyte av programvara, eller</li>
<li>Bifogar det skriftligt erbjudande Du fick att erhlla kllkoden. (Det hr alternativet kan endast anvandas fr icke-kommeriell distribution och endast om Du erhllit ett program i objektkod eller kvar form med ett erbjudande i enlighet med b ovan.)</li>
<li>Bifogar den kompletta kllkoden fr ett verk avser den form av ett verk som r att fredra fr att gra frndringar av verket. Fr ett kvarart verk avser kllkoden all kllkod fr moduler det innehller, samt alla tillhrende grnssnittsfiler, definitioner, skripten fr att kontrollera kompilering och installation av den kvarbara Programvaran. Ett undantag kan dock gras fr sdant som normalt distribueras, antingen i binr form eller som kllkod, med huvudkomponenterna i operativsystemet (kompilator, kerna och s vidare) i vilket den kvarbara programvaran krs, om inte den hr komponenten medfljer den kvarbara programvaran.</li>
<li>Om distributionen av kvarbar Programvara eller objektkod ggs genom att erbjuda tillgng till att kopiera frn en bestmd plats, d skall motsvarande tillgng till att kopiera kllkoden frn samma plats rkanas som distribution av kllkoden, ven om tredje man inte behver kopiera kllkoden tillsammans med objektkoden.</li>
<li>Du ger inte kopiera, ndra, licensiera eller distribuera Programvaran utom p dessa licensvillkor. All vrig kopiering, ndringar, licensiering eller distribution av Programvaran r ogiltig och kommer automatiskt medfr numera att Du frlorar Dina rttigheter enligt dessa licensvillkor. Tredje man som har mottagit kopior eller rttigheter frn Dig enligt dessa licensvillkor kommer dock inte att frloras sina rttigheter s Inge de fljer licensvillkoren.</li>
</orderedlist>

Var gng du distribuerar Programvaran (eller Verk baserat p Programvaran), kommer mottagaren per automatik att f en licens frn den frsta licensgivaren att kopiera, distribuera eller ndra Programvaran enligt dessa licensvillkor. Du ger inte lgga mottagaren ngra andra restriktioner n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer licensvillkoren.

Om Du p grund av domstolsdom eller anklagelse om patentintrng eller p grund av annan anledning (ej begrnsat till patentfrgor), Du fr villkor (oavsett om de kommer via domstols dom, avtal eller p annat stt) som strider mot dessa licensvillkor s frntar de inte Dina frpliktelser enligt dessa licensvillkor. Om Du inte kan distribuera Programvaran och samtidigt uppfylla licensvillkor och andra skyldigheter, fr du som en konsekvens inte distribuera Programvaran. Om exempelvis ett patent gr att Du inte distribuera Programvaran fritt till alla de som mottager kopior direkt eller indirekt frn Dig, s mste Du helt sluta distribuera Programvaran.

Om delar av den hr paragrafen frklaras ogiltig eller annars inte kan verkstllas skall resten av paragrafen ga fortsatt giltighet och paragrafen i sin helhet ga fortsatt giltighet i andra sammanhang.

Syftet med den hr paragrafen r inte att frm Dig att beg patentintrng eller att beg intrng i andra rttigheter eller att frm Dig att bestrida giltigheterna i sdana rttigheter. Den hr paragrafen har ett enda syfte, vilket r att skydda distributionssystemet fr fri programvara vilket gres genom anvndandet av dessa licensvillkor. Mnga har bidragit till det stora utbudet av programvara som distribueras med hjlp av dessa licensvillkor och den fortsatta giltigheten och anvndningen av det hr systemet, men det r upphovsmannen sjlv som mste besluta om han eller hon vill distribuera Programvaran genom det hr systemet eller ett annat och en licenstagare kan inte tvinga en upphovsman till ett annat beslut.

Den hr paragrafen har till syfte att stlla det utom tvivel vad som anses flja av resten av dessa licensvillkor.
upphovsrligt skyddade grnssnitt kan upphovsmannen till Programvaran lgga till en geografisk spridningsklausul, enligt vilken distribution r tillen i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnningen att utgra en fullvrdig del av licensvillkoren.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Paragraf 9</title>

<para>The Free Software Foundation kan offentliggra ndrade och/eller nya versioner av the General Public License frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version av the General Public License, men kan vara ndrade i detaljer fr att behandla nya problem eller gra nya vervganden.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Paragraf 10</title>

<para>Om du vill anvnda delar av Programvaran i annan fri programvara som distribueras enligt andra licensvillkor, begr tillstnd frn upphovsmannen. Fr Programvaran var upphovsrt innehas av Free Software Foundation, skriv till Free Software Foundation, vi gr ibland undantag fr det hr. Vrt beslut grundas p vra tv ml att bibehilla den fria statusen av alla verk som hrleds frn vr Programvara och frmjandet av att dela med sig av och teranvnda programvara i allmnhet.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>INGEN GARANTI</title>

<para>D DENNA PROGRAMVARA LICENSIERAS UTAN KOSTNAD GES INGEN GARANTI FR PROGRAMMET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT TILLMPLIG LAG. FRUTOM D DET UTTRYCKS I SKRIFT TILLHANDAHILLER UPPHOVSRTLTSINNEHAVAREN OCH/ELLER ANDRA PARTER PROGRAMMET <quote>I BEFINTLIGT SKICK</quote> (<quote>AS IS</quote>) UTAN GARANTIER AV NGRA SLAG, VARKEN UTTRYCKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRRSAT TILL, UNDERFRSTDDA GARANTIER VID KP OCH LMPLIGHET FR ETT SRSKILT NDAML. HELA RISKEN FR KVALITET OCH ANVNDBARHET BRS AV DIG. OM PROGRAMMET SKULLE VISA SIG HA DEFEKTER SKALL DU BRA ALLA KOSTNADER FR FELETS AVHILPANDE, REPARATIONER ELLER NDVNDIG SERVICE.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Paragraf 12</title>

<para>INTE I NGOT FALL, UTOM NR DET GLLER ENLIGT TILLMPLIG LAG ELLER NR DET
VERENSKOMMITS SKRIFTLIGEN, SKALL EN UPPOHSVORTSINNEHAVARE ELLER ANNAN PART SOM GER NDRA OCH/ELLER DISTRIBUERAR PROGRAMVARAN ENLIGT OVAN, VARA SKYLDIG UTGE ERSTTTNING FR SKADA DU LIDER, INKLUSIVE ALLMÄN, DIRECT NEW V DIREKT SKADA SOM FLJER P GRUND AV ANVÄNDNING ELLER OMJÖLIGHET ATT ANVÄNTA PROGRAMVARAN (INKLUSIVE MED INTE BEGRANSAT TILL FRLUST AV DATA OCH INFORMATION ELLER DATA OCH INFORMATION SOM FRAMSTLILLS FELAKTIGT AV DIG ELLER TREDJE PART ELLER FEL DR PROGRAMMET INTE KUNNAT KRA SAMTIDIGT MED ANNAN PROGRAMVARA), VEN OM EN SDAN UPPOHSVORTSINNEHAVAREN ELLER ANNAN PART UPPLYSTS OM MJÖLIGHETEN TILL SDAN SKADA.

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http://developer.gnome.org/projects/gdp
Version: 1.0.1
Last Modified: Feb. 5, 2001

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<address>Free Software Foundation, Inc.
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<city>Boston</city>,
<state>MA</state> <postcode>02110-1301</postcode>
Mi ngử u uc quyn sao chp v phn phi nguyễn vn ti liu giy php ny, nhng khng c php thay i n.</para>

Khi chng ti ni v php mm t do, chng ti cp n s t do s dmg, ch khng phi l gi c. Giy php Cng cng GNU ca chng ti c thit k m bo bn c quyn t do phn hnh bn sao ca php mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng ly n nu bn mun, bn c th thay i php mm hay s dmg bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm nhng iu ny.</para>

Chng hn, nu bn php hnh bn sao ca th vin nh vy, d l cho khng hay thu tin, bn phi trao cho ngi nhn tt c nhng quyn bn c. Bn phi che chnh l h cng nhu c hay c th ly m ngun. Nu bn lin k t m ngun khc vi th vin, bn phi cung cp cc tp tin i tng hon thnh cho ngi nhn, h c th lin kt li tp tin nh vy vi th vin ri bin dch li. V bn cng phi cho h bit nhng iu kin ny, h bit nhng quyn ca h.</para>

Cui cng, chng trnh t do no ng cud lun b e da bi bng sng ch phn mm. Chng ti mun chc chnh l cng ty khng th gii
hn cc ngi cnh chng trnh t do, bng cch ghnh c giy php hn ch t ngi gi sng ch. V vy chng ti c nh th giy php sng ch no c ghnh cho mt phnh bn ca th vin ny phi ph hp vi t on b quy t do c ghi r trng giy php ny./p>

<p><para>Pn ln phn mm GNU, gm c mt s th vin, c bao qut bt Giy php Cng cng GNU chun. Giy php ny, Giy php Cng cng Ph GNU, p dng cho mt s th vin xe Nh: n rt khc vi Giy php Cng cng GNU chun. Chng ti s dng giy php ny cho mt s th vin ring. cho phhp kh ngh lin kt th vin vh vy vo chng trnh khc t do./p></para>

<p><para>Kh chng trnh c lin kt vi th vin, bth chp mt cch thnh hay bng th vin dng chung, s kt hp hai iu ny ni hp ph ph l mt sn phm kt hp, sn phm dn xut th vin gc. Giy php Cng cng GNU chun th cho phhp kh ngh lin kt nh vy chu ton b s kt hp tho iu chun quy t do ca n. Giy php Cng cng Ph GNU cho phhp iu chun ln ng lo ln lin kt m ngun khc vy th vin.</para></p>

<p><para>Chng ti gi giy php ny Giy php Cng cng <quote>Ph</quote> v n lm t bo v quy t do ca ngi dng hn Giy php Cng cng chun. N cng cung cp cho cc nh phtr phn mm mt t do th li hn chng trnh khc t do c nh thnh. Nhng nhc im ny l l do chng ti s dng Giy php Cng cng chun cho rt nh thu th vin. Tuy nhin, giy php Ph cng cp l ch trong mt s trng hp c bit./p></para>

<p><para>Chng hn, rt t ln c nh cu c bit h tr cch s dng rng ri nth c th th th vin no, n tr thnh mt iu chun nh th. t mc ch ny, cc chng trnh khc t do cng phi c quy s dng th vin. Mt trng hp xy ra nhnh ln ln th vin t do lm cng mt cng vic vi th vin khc t do c s dng rng ri. Trong trng hp ny, khng c li ch nh nh khi gii hn th vin t do trong ch phnh mm mt do, v th chng ti s dng Giy php Cng cng Ph.</para></p>

<p><para>Trong trng hp khc, quy s dng mt th vin no trong chng trnh khc t do cng cho rt nh thu ngi c kh nn s dng mt tp phnh mm mt t do rt ln. Chng hn, quy s dng Th vin C ca GNU trong cc chng trnh khc t do th cho rt nh thu ngi thm c kh nn s dng ton b h iu nhn GNU, cng nh bin th ca n, h iu nhn GNU/Linux.</para></p>

<p><para>Mc d Giy php Cng cng Ph lm th ln bo v quy t do ca ngi dng, n c phi m b o rng ngi dng chng trnh c lin kt vi Th vin c quy s dng chng trnh , bng mt phnh bn sa i ca Th vin.</para></p>

<p><para>Theo y c nhng iu kin chnh xc sao chp, phth hnh v sa i. Hy tr phn nhn th nh th h ngi bi gia <quote>mt sn phnh da vo th vin</quote> v <quote>mt sn phn sa th vin</quote>. iu trc cha m bt ngn th th vin, cn iu sau phi e kt hp vi th vin c nh c.</para></p>

</sect1>

<sect1 id="terms" label="none">
<title>IU KIN SAO CHP, PHT HNH V SA I</title>

<sect2 id="sect0" label="0">
<title>Pn 0</title>

<p><para>iu kin Quyn ny p dng cho bt k th vin phn mm hay chng trnh khc m cha mt thng bo c chn vo bi ngi gi tc quy nh hay bt k bn c quy nh ri c e c phth hnh theo cc iu khon ca Giy php Cng cng Ph ny (cng c gi nh l <quote>Giy php ny</quote>). Mi ngi c cp bn quy c gi l <quote>bn</quote>.</para></p>

<p><para>Mt <quote>th vin</quote> ngha l mt tp hp cc hm phn mm v/hay d liu c chun b c lin kt tin li vi chng trnh ng dng (m s dng mt s hm v d liu trong tp hp ny) xy dng tp tin c kh nnng thn hin.</para></p>

<p><para><quote>Th vin</quote> di y e ngha l bt k th vin phn mm hay sn phn nh vy c phth hnh theo cc iu khon ny.</para></p>

</sect1>
Mt <quote>sn phm da trn Th vin</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quyn: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng ngun vnhoc vi s sa i v/hoc c dch sang mt ngun ng khec. (K t cu ny, vic dch ngun ng c bao gm v bn trong thut ng <quote>s sa i</quote>.)</para>

<para><quote>M ngun</quote> ca sn phm c ngha l dng thc sn phm c a thch khi sa i n. i vi th vin, ton b m ngun c ngha l tt c cc m ngun cho mi m-un cha, cng vi bt c tp tìn xe nh gia din ng, cng vi cc vn lnh c dng iu khin tín trnh bin dch v ci t th vin.</para>

<para>Nhung hot ng khc ngoi s sao chp, pht hnh v sa i khng c kim sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Th vin khng b hn ch, v d liu xut t Th vin ch b khng ch nu ni dung ca n to thnh mt sn phm da vo Th vin (khng ph thuc vo vic s dng Th vin nh l cng c ghi n). iu ng hay khng ph thuc vo iu m Th vin to ra, v iu m chng trnh s dng Th vin to ra.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Phn 1</title>
<para>Bn c quyn sao chp v pht hnh bn sao ng ngun vn ca ton b m ngun ca Th vin nh bn nhn n, bng bt k cch no, min l bn cng b r rng v thc ng trn mi bn sao mt thng bo tc quyn thch hp v min tr bo hnh; gi ngun vn mi thng bo lin quan n Giy php ny v min tr bo hnh; v a cho nhng ngi nhn Chng trnh khc mt bn sao ca Giy php cng vi Th vin.</para>

<para>Bn c th thu ph cho vic gi bn sao, v bn c th ty ngh cng cp dch v bo hnh c thu ph.</para>
</sect2>

<sect2 id="sect2" label="2">
<title>Phn 2</title>
<para>You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
<li>The modified work must itself be a software library.</li>
</orderedlist>
</para>
</sect2>
charge to all third parties under the terms of this License.
</para>
</listitem>
</listitem>

<para>
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.
</para>

<para>
(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
</para>

<para>
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sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
</para>

<para>
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with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
<sect2 id="sect3" label="3">
<title>Phn 3</title>
<para>Bn c th chn p dng cc iu kin ca Giy php Cng cng GNU chun, thay cho Giy php ny, cho mt bn sao no ca Th vin. Im nh th, bn phi thay i mi thng bo cp Giy php ny. cp Giy php Cng cng GNU chun, phin bn 2, thay cho Giy php ny. (C phin bn mi ln ca Giy php Cng cng GNU chun th bn c th ghi r phin bn thay th, nu bn mun.) ng thay i g khc trong nhng thng bo ny.</para>
<para>Mt khi lm thay i ny trong bn sao no, khng th o ngc li cho bn sao , v th Giy php Cng cng GNU chun p dng cho tt cc bn sao ph v sn phm bt ngun t bn sao.</para>
<para>Ty chn ny khng c ch khi bn mun sao chp phn m ngun ca Th vin vo mt chng trnh khng phi l th vin.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Phn 4</title>
<para>Bn c quyn sao chp v pht hnh Th vin (hoc on no ca n hoc sn phm da vo n, di <link linkend="sect2">Phn 2</link>) trong dng thc m i tng hay tp tin chy c vi iu kin ca <link linkend="sect1">Phn 1</link> v <link linkend="sect2">2</link> bn trn, min l bn km theo ton b m ngun tng ng m my c th c c, c phn hnh vi iu kin ca Phn <link linkend="sect1">1</link> v <link linkend="sect2">2</link> bn trn, trn thit b lu tr thng dng trao i phn mm.</para>
<para>Nu vic pht hnh m i tng c ln bng cch trao truy cp sao chp t mt ni xc nh, th vic trao cc truy cp sao chp tng ng n m ngun t cng ni c tnh l s phn hnh m ngun, mc d ngi khc khng bt bng phi sao chp m ngun cng vi m i tng.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Phn 5</title>
<para>Mt chng trnh khng cha sn phm bt ngun t bt c on no ca Th vin, cn c thit k lm vic vi Th vin bng cch c bin dch hay lin kt vi n, c gi l <quote>sn phm s dng Th vin</quote>. Sn phm nh vy, c lp khng phi l sn phm bt ngun t Th vin th nm ngoi phm vi ca Giy php ny.</para>
<para>Tuy nhin, vic lin kt mt <quote>sn phm s dng Th vin</quote> vi Th vin th to mt tp tin chy c bt ngun t Th vin (v n cha on ca Th vin), hn l mt <quote>sn phm s dng Th vin</quote>. Tp tin chy c th c bao qut bi Giy php ny. <link linkend="sect6">Phn 6</link> pht biu cc iu kin pht hnh tp tin chy c nh vy.</para>
<para>Khi mt <quote>sn phm s dng Th vin</quote> cng s dng on no ca tp tin phn u thuc v Th vin, m i tng cho sn phm ny c th l mt sn phm bt ngun t Th vin, mc d m ngun khng phi. iu ng hay khng l quan trng c bit nu sn phm ny c th
c lin kt khng c Th vin, hoc nu sn phm ny chnh n l th vin. Php lut cha xc nh chnh xc ngng ng ca trng hp ny.</para>

<Tp tin i tng nh vy s dng ch cc tham s kiu s, b tr cu trc d liu, v v lnh nh v hm trc tip nh (mi iu c di ti a 10 dng) th cch s dng tp tin i tng l v hn, bt chp n hp l l sn phm bt ngun. (Tp tin chy c cha m i tng ny cng vi on ca Th vin vn cn nm di <link linkend="sect6">Phn 6</link>).)</para>

<Khng th, nu sn phm bt ngun t Th vin, bn c th phth hnh m i tng ca sn phm theo iu kin ca <link linkend="sect6">Phn 6</link>. Bt k tp tin chy c cha sn phm cng nm di <link linkend="sect6">Section 6</link>, bt chp n c lin kt trc tip vi Th vin chnh n.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Phn 6</title>

<para>Ngoi l nhng Phn trn l bn cng c th kt hp hay ln kt mt <quote>sn phm s dng Th vin</quote> vi Th vin to mt sn phm cha on ca Th vin, ri phth hnh sn phm di cc iu khon bn chn, min l iu khon ny cho php sa i sn phm cho ngi khch s dng ring, v cho php thit k i chiu g li trong s sa i nh vy.</para>

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<orderedlist numeration="loweralpha">
<li id="sect6a">
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
</li>
</orderedlist>

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

<i vi tp tin chy c, dng thc cn thit ca <quote>sn phm s dng Th vin</quote> phi cha chng trnh no kiu d liu hay tin ch cn thit to li tp tin chy c t n. Tuy nhin, noi gs b bit I cc tuy ng liu c phí hnh ñhng cn phi bao gm nhng g c phí hnh bh nh thng (trong dng thc hoc gn hoc nh phn) vi cc thnh phn chnh (b bin dch, ht nh vn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thnh phn km theo cn thit chy tp tin.</i>

C th xy ra rng iu kin ny mu thun s hn ch giy php ca th vin s hu khc khng bhng km theo h iu hnh. S mu thun nh vy c ngha I bn khng th s dng c th vin nh vy v Th vin u trong tp tin chy c bn phí hnh.</sect2>

Bn c th chc nng th vin I sn phm da vo Th vin cnh nhau trong mt th vin ring I, cng vi cc chc nng th vin khng c bao qut bi Giy php ny, v phí hnh th vin kt hp nh vy, min I cho php phí hnh ring <quote>sn phm s dng Th vin</quote> v chc nng th vin khc, v min I bn lm hai vic ny:
<orderedlist numeration="loweralpha">
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      <para>Km theo th vin kt hp mt bn sao ca cngr <quote>sn phm s dng Th vin</quote>, ring vi chc nng th vin khc no. N phi c ph th hh vi cc iu khon ca nhng Phn trn.</para>
   </listitem>
   <listitem>
      <para>Cng b r rng trn th vin kt hp thng bo rng phn ca n l <quote>sn phm s dng Th vin</quote>, cng ch ti ni cha dng the ring ca cngr sn phm km theo.</para>
   </listitem>
</orderedlist>

<sect2 id="sect8" label="8">
   <title>Phn 8</title>
   <para>Khng cho php bn sao chp, sa i, lin kt vi hay phh hnh Th vin, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph, lin kt vi hay phh hnh Th vin bng cch khe b bi b, v s t ng kt thc cc quyn ca bn di Giy php ny. Tuy nhn, ngi khc nhn bn sao hay quyn t bn di Giy php ny s khng b nh hng, min l h tip tc tun theo hon ton.</para>
</sect2>

<sect2 id="sect9" label="9">
   <title>Phn 9</title>
   <para>Bn khng bt buc phi chp nhn Giy php ny, v bn cha k t n vo n. Tuy nhn, khng c g khe cho php bn sa i hay phh hnh Th vin hay sn phm bt ngun t n. Cc hhng ng b php lut cm nu bn khng chp nhn Giy php ny. V vy, bng cch sa i hay phh hnh Th vin (hay sn phm da vo n), bn ng s chp nhn Giy php ny lm nh th, gm mi iu kin sao chp, phh hnh hay sa i Th vin hay sn phm da vo n.</para>
</sect2>

<sect2 id="sect10" label="10">
   <title>Phn 10</title>
   <para>Mi ln bn phh hnh li Th vin (hay sn phm da vo Th vin), ngi nhn c th nhn t ng mt giy php t ngi cp gc, sao chp, phh hnh, lin kt vi hay sa i Th vin vi iu kin ny. Khng cho php bn ln ch thm cch ngi dng s dng cc quyn c cp trong Giy php ny. Bn cng khng phi chu trch nhm v vic p buc ngi khe tun theo iu kin ca Giy php ny.</para>
</sect2>

<sect2 id="sect11" label="11">
   <title>Phn 11</title>
   <para>Nu, do kt qu ca quyt nh ca to n hay cc co buc vi phm bng sng ch hay v bt c I do no (khng b gi i hn trong vn bng sng ch), bn b p buc chp nhn iu kin (hoc v quyt nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy php ny, trng hp ny khng min cho bn khng phi th ca mn iu kin ca Giy php ny. Nu bn khng th phh hnh bng cch th ca mn ng thi ccc giao c ca bn di Giy php ny v bt k giao c thch hp khe, th kt qu I khng cho php bn phh hnh Th vin bng cch no c. Ly th d, nu mt bng sng ch no khng cho php s phh hnh li Th vin mt cch min tin bn quyn phh minh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nh bt c th ca c bng v Giy php ny I hon ton khng phh hnh Th
vin.</para>

<para>Nu on no trong phn ny c quyt nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p
dng c, v ton b phn d nh p dng trong cc trng hp khec.</para>

<para>Khung phi l mc ch ca phn ny xi gic bn vi phm bng snh ch no hay li yu sch quyển ti sn khc, hoc khng tha
nhn s hp l ca li yu sch nh vy; phn ny c mc ch duy nh l bo v nh trng nguyễn vn ca h thng phl hnh phn mm t do, m c
thc thi bi cc p dng giy php cng cng. Nhiu ngi nggp rng lng cho mt phm v rng ca cc phn mm c phl hnh qua h thng ,
nh s the thi nn b h thng : ty te gi / ngi trng quyển nh nu h mun phl hnh phn mm qua h thng khec no, v ngi c cp Giy php
khng th ii khin cch quyển nh .</para>

<para>Phn ny d nh din t r ng h trng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</para>

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<para>Nu s phl hnh v/hay c ch s dng Th vin b hn ch trong mt s quc gia no , hoc bi bng snh ch hoc bi gia din c bn
quyển tc gi, ngi gi tc quyển gc t Th vin di Giy php ny c kh nng thm s hn ch phl hnh a l ring loi tr nhng quc gia , cho
php plh hnh ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nht s hn ch nh l n c
ghi trong thn ca Giy php ny.</para>

<sect2 id="sect13" label="13">
<title>Phn 13</title>

<para>T chc Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng Ph GNU. Phin bn mi nh vy s c
tinh thn tng t vi phin bn hin thi, nhng c th khc bit trong chi tit gii quyển vn mi.</para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Th vin xc nh s phin bn ring ca Giy php ny p dng cho n,
<quote>v bt k phin bn sau no</quote>, bn c ty chn thia iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T
cho Phn mm T do. Nu Th vin khng xc nh s phin bn ring ca Giy php ny, bn c kh nng chn bt k phin bn no ca Giy php
ny c xut bn bi T chc Phn mm T do.</para>

<sect2 id="sect14" label="14">
<title>Phn 14</title>

<para>Nu bn mun hp nht phn no ca Th vin vo chng trnh t do khc i ukin phl hnh khng ng thc vi Giy php ny, hy
xin php tc gi. i vi phn mm c bn quyển tc gi ca T chc Phn mm T do, hy vit th cho T chc Phn mm T do : thng thong
chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo trng th gu t do ca mi iu bt
ngu t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt cch chng.</para>

<sect2 id="sect15" label="15">
<title>KHNG BO HNH</title>

<subtitle>Phn 15</subtitle>

<para>V TH VIN C CP PHP MIN PH, KHNG C BO HNH I VI TH VIN NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHKC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHKC CUNG CP TH VIN NY &lt;quote&gt;NH TH&lt;/quote&gt;, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA TH VIN NY BN S T CHU. NU TH VIN NY GY RA H HNG, BN GNH VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.&lt;/para&gt;</sect2>

&lt;sect2 id="sect16" label="16"&gt;
<title>Phn 16</title&gt;

&lt;para&gt;KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHKC NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THING, GM BT K BI THING KIU TNG QUT, C BIT, NGU NHIN HAY DO QU DO S DNG HAY S KHNG C KH NNG S DNG TH VIN NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHKC HAY S KHNG HOT NG C TH VIN NY VI CHNG TRNH KH), THM CH NU BN HAY NGI KHKC C BO BIT C KH NNG THIT HI NH VY.&lt;/para&gt;</sect2>

&lt;/sect2&gt;
&lt;/sect1&gt;
&lt;/article&gt;

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Acompárnalo con el código fuente leble completo correspondiente, leble por máquinas, que debe ser distribuido según los términos las Secciones 1 y 2 mencionadas antes en un medio habitualmente utilizado para el intercambio de software, o.

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copiar, distribuir o modificar el Programa o trabajos basados en l. </para>
</sect2>

<sect2 id="sect6" label="6">
<title>Seccin 6</title>

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</sect2>

<sect2 id="sect7" label="7">
<title>Seccin 7</title>

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</sect2>

<sect2 id="sect8" label="8">
<title>Seccin 8</title>

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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1.1757 base-files 10.1ubuntu2.10

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[This is the first released version of the library GPL. It is
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.1780 jaxb-api 2.1

1.1781 jackson-databind 2.10.0

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1.1782 libidl 0.8.14-8.el7

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1.1783 libsepol 2.5 10.el7

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1.1784 hunspell-en-ca 0.20121024-6.el7

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top 1000 male, female, and Last names from the 1990 Census report; a
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL.2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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jar/io/fabric8/kubernetes/client/extended/leaderelection/resourcelock/LockException.java
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Julian Seward, jsward@bzip.org
bzzip2/libbzzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>," 
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
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version: 3
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  <signature of Ty Coon>, 1 April 1989
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compile" );
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Year not found in perl -v copyright 1987";

    $year;
}
1.1814 httpcomponents-httpclient 4.2.1-redhat-1

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1.1817 gir1.2-gdkpixbuf-2.0 2.24.0

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1823 librsvg 2.40.20-1.el7
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/netty-transport-native-epoll-4-1-46-final-sources-1.jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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1.1828 gnome-font-viewer 3.28.0-1.el7

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* /opt/cola/permits/1132217567_1613127099.98/0/slf4j-api-1-7-2-redhat-2-sources-jar/org/slf4j/spi/NamedLoggerBase.java
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* /opt/cola/permits/1132217567_1613127099.98/0/slf4j-api-1-7-2-redhat-2-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1132217567_1613127099.98/0/slf4j-api-1-7-2-redhat-2-sources-jar/org/slf4j/spi/NamedLoggerBase.java
* /opt/cola/permits/1132217567_1613127099.98/0/slf4j-api-1-7-2-redhat-2-sources-jar/org/slf4j/helpers/BasicMarker.java

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* /opt/cola/permits/1132217567_1613127099.98/0/slf4j-api-1-7-2-redhat-2-sources-jar/META-INF/maven/org.slf4j/slf4j-api/effective-pom.xml
1.1835 openjdk 1.8.0.232.b10-1.el7_9

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IcedTea Sound (see AUTHORS for a current list):
Andrew John Hughes <gnu_andrew@member.fsf.org, gnu.andrew@redhat.com>
Ioana Ivan <iivan@redhat.com>
Matthias Klose <doko@ubuntu.com>
Denis Lila <dlila@redhat.com>
Omair Majid <omajid@redhat.com>
Xerxes Rnby <xerxes@zafena.se>
Marc Schoenefeld <mschoene@redhat.com>
Joshua Sumali <jsumali@redhat.com>
Jon VanAlten <jon.vanalten@redhat.com>

Java Access Bridge:
Bill Haneman <bill.haneman@sun.com>
Louise Miller
Gerg rdi <cactus@cactus.rulez.org>
Laszlo (Laca) Peter <laszlo.peter@sun.com>
Jeff Cai<jeff.cai@sun.com>
George Kraft IV <gk4@us.ibm.com>
Padraig O'Briain <padraig.obriain@sun.com>
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_nton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
 * Copyright (C) 2005 Steve Underwood
 *
 * Despite my general liking of the GPL, I place my own contributions
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 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
 */

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----------------------------
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Gregg Tavares
Jeff Timanus
Ben Vanik
Adrienne Walker
thestig@chromium.org
Justin Schuh
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Daniel Micay
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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d) If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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be optional: if the application does not supply it, the square
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Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
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Version 3, 29 June 2007

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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from a designated place, then offering equivalent access to copy the
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C. 
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Email local part: ph10
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./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
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./test/integer_types.cpp
./test/product_large.cpp
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./test/geo_orthomethods.cpp
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./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
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./unsupported/test/mpreal/mpreal.h
./unsupported/Eigen/src/IterativeSolvers/IterationController.h
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freetype2
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2006-Jan-27
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Our home page can be found at

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--- end of FTL.TXT ---

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GL
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Mesa Component Licenses

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objective_c/gtm_session_fetcher
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xmpmeta

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Agreement version 3.0

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* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
* 
* Author: Bjorn Roche, XO Audio, LLC
* 
* This program uses the PortAudio Portable Audio Library.
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Portable Audio I/O Library
Ring Buffer utility.

Author: Phil Burk, http://www.softsynth.com
modified for SMP safety on Mac OS X by Bjorn Roche
modified for SMP safety on Linux by Leland Lucius
also, allowed for const where possible
modified for multiple-byte-sized data elements by Sven Fischer

Note that this is safe only for a single-thread reader and a
single-thread writer.
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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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Chris Taylor <taylorc@google.com>
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Eric Roman <eroman@chromium.org>
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Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Miks Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <spfr@google.com>
Peter Kaminski <piotr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
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Sigurur sgeirsson <siggi@gmail.com>
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Anton Mitrofanov <BugMaster@narod.ru>
Jason Garrett-Glaser <darkshikari@gmail.com>
Henrik Gramner <hengar-6@student.itu.se>

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/42h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries
The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

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Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the License Term, such notification to be provided to the other Party no less than ninety (90) days before expiry of the respective License Term. Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective quote from The Qt Company and/or the respective License Fee paid by due date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than ninety (90) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

3.2. Distribution of Applications
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided
herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the time of distribution of any Redistributables to Customers.

3.3. Distribution of Devices
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

3.4. Further Requirements
The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;

(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that
Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement. Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Qt 3D Studio and/or Qt Design Studio with Open Source Qt ("Permitted Combination") for its internal evaluation purposes, provided that Licensee shall in no way transfer, publish, disclose, display or otherwise make available any software or work resulting from such Permitted Combination;

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or
attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions.
Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the "/src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.
Except as set forth above, the Licensed Software is licensed to Licensee “as is” and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company’s option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES
Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.
Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY
Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.
The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.
A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the
corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10% of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be
valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company’s position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
   (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
   (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
   (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on
the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject
matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with
all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for
Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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### APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in
object-code form only ("Redistributables") are marked with 'R' in the below table.

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All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support
will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:
(a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that
(b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE
The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with
respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

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III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12.

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Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

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"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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^ expected errors | v input
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/*---

esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/

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Darko Laus       (darko@mips.com)
Djordje Pesut    (djordje@mips.com)
Goran Cordasic   (goran@mips.com)
Nedeljko Babic   (nedeljko.babic imgtec com)
Mirjana Vulin    (mvulin@mips.com)
Stanislav Ocovaj (socovaj@mips.com)
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Eric Veach <ericv@google.com>
Jesse Rosenstock <jmr@google.com>
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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com
Initiated the project;
setup the project infrastructure (CVS, web page, etc.);
early prototype routines.
Ross Johnson rpj at callisto dot canberra dot edu dot au
early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.
Robert Colquhoun rjc at trump dot net dot au
Early bug fixes.
John E. Bossom john dot bossom at cognos dot com
Contributed substantial original working implementation;
bug fixes;
ongoing guidance and standards interpretation.
Anders Norlander anorlander ar hem2 dot passagen dot se
Early enhancements and runtime checking for supported Win32 routines.
Tor Lillqvist tml at iki dot fi
General enhancements;
early bug fixes to condition variables.
Scott Lightner scott at curriculum dot com
Bug fix.
Kevin Ruland kevin dot Ruland at anheuser-busch dot com
Various bug fixes.
Mike Russo miker at eai dot com
Bug fix.
Mark E. Armstrong avail at pacbell dot net
Bug fixes.
Lorin Hochstein lmh at xiphos dot ca
general bug fixes; bug fixes to condition variables.
Peter Slacik
Bug fixes.
Mumit Khan
Fixes to work with Mingw32.
Milan Gardian
Bug fixes and reports/analyses of obscure problems.
Aurelio Medina
First implementation of read-write locks.
Graham Dumpleton
Bug fix in condition variables.
Tristan Savatier
WinCE port.
Erik Hensema
Bug fixes.
Rich Peters
Todd Owen
Bug fixes to dll loading.
Jason Nye
Implementation of async cancelation.
Fred Forester
Kevin D. Clark
David Baggett
But fixes.
Paul Redondo
Scott McCaskill
Bug fixes.
Jef Gearhart
Bug fix.
Arthur Kantor
Mutex enhancements.
Steven Reddies
Bug fix.
Alexander Terekho
Re-implemented and improved read-write locks;
(Thomas Pfaff)
procedure to fix Mingw32 thread-safety issues.
Franco Bez
franco dot bez at gmx dot de

Louis Thomas
lthomas at arbitrade dot com
(with Alexander Terekhov) re-implemented and improved
condition variables.

David Korndgk
research dot att dot com
Ported to UWIN.

Phil Frischie, Jr.
phil at hawksoft dot com
Bug fix.

Ralf Brese
Ralf dot Brese at pdb4 dot siemens dot de
Bug fix.

prionx at junodotcom prionx at junodotcom
Bug fixes.

Max Woodbury
mtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.

Rob Fannerr
fanner dot stonethree dot com
Bug fix.

Michael Johnson
michaelj at maine dot rr dot com
Bug fix.

Nicolas Barry
boozai dot prionx at juno dot com
Bug fixes.

Piet van Bruggen
pietvb at newbridges dot nl
Bug fix.

Makoto Katora
raven at oldskool dot jp
AM64 port.

Panagiotis E. Hadjidoukas
hpc at ec dot f dot up at jsc dot dot gr
Contributed the QueueUserAPCX package which
makes preemptive async cancelation possible.

Will Bryant
will dot bryant at ecos dot com
Borland compiler patch and makefile.

Anuj Goyal
anuj dot goyal at gmail dot com
Port to Digital Mars compiler.

Gottlob Frege
frege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).

Vladimir Kliatchkov
kliatchko dot com
reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.

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=================================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
* Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <naibr774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
* Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing
all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthiusius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris.
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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Doug Kwan <dougkwan@google.com>
Dmitriy Vyukov <dvyukov@google.com>
John Millikin <jmillikin@gmail.com>
Mike Nazarewicz <mpn@google.com>
Nico Weber <sthakis@chromium.org>
Pawel Hajdan <phajdan.jr@gmail.com>
Rob Pike <r@google.com>
Russ Cox <rsc@swtch.com>
Sanjay Ghemawat <sanjay@google.com>
Stefano Rivera <stefano.rivera@gmail.com>
Srinivasan Venkatachary <vsri@google.com>
Viatcheslav Ostapenko <sl.ostapenko@samsung.com>
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* *
* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*/
***** Original Message *****
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine

* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

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BezierEasing - use bezier curve for transition easing function
by Gatan Renaudeau 2014 - 2015  MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
spline.get(x) => returns the easing value | x must be in [0, 1] range
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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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## Commands to generate dependency files 
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS) 
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS) 

## Flags for position independent code 
SHAREDLIBCFLAGS = -fPIC 
SHAREDLIBCXXFLAGS = -fPIC 
SHAREDLIBCPPFLAGS = -DPIC 

## Additional flags when building libraries and with threads 
THREADSCPPFLAGS = -D_REENTRANT 
LIBCPPFLAGS = 

## Compiler switch to embed a runtime search path 
LD_RPATH= 
LD_RPATH_PRE=-Wl,-rpath, 

## Compiler switch to embed a library name 
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET)) 

## Shared library options 
LD_SOOPTIONS= -Wl,-Bsymbolic 

## Shared object suffix 
SO = so 

## Non-shared intermediate object suffix 
STATIC_O = ao 

## Compilation rules 
%.$(STATIC_O): $(srcdir)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $< 
%.o: $(srcdir)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $< 

%.$(STATIC_O): $(srcdir)/%.cpp 
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $< 
%.o: $(srcdir)/%.cpp 
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $< 

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"sＡ($\ast)\of .o:\$@ : /g\" > $@;
[ -s $@ ]|| rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"sＡ($\ast)\of .o:\$@ : /g\" > $@;
[ -s $@ ]|| rm -f $@'

## Versioned libraries rules

%.$(_SO).$(SO_TARGET_VERSION_MAJOR): %.$(_SO).$(SO_TARGET_VERSION) $(RM) $@ && ln -s ${<F} $@
%.$(_SO): %.$(_SO).$(SO_TARGET_VERSION_MAJOR) $(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size
limited only by your computer's memory. The library provides BigUnsigned and
BigInteger classes that represent nonnegative integers and signed integers,
respectively. Most of the C++ arithmetic operators are overloaded for these
classes, so big-integer calculations are as easy as:

```cpp
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library.
To get started quickly, read the code and explanations in that file and run it.
If you want more detail or a feature not shown in `sample.cc', consult the
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed;
some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is
intended to be reasonably portable across computers and modern C++ compilers; in
particular, it uses whatever word size the computer provides (32-bit, 64-bit, or
otherwise).

Compiling programs that use the library
----------------------------------------
The library consists of a folder full of C++ header files (`.hh') and source
files (`.cc'). Your own programs should `#include' the necessary header files
and link with the source files. A makefile that builds the sample program
(`sample.cc') is included; you can adapt it to replace the sample with your own
program.

Alternatively, you can use your own build system or IDE. In that case, you must
put the library header files where the compiler will find them and arrange to
have your program linked with the library source files; otherwise, you will get
errors about missing header files or "undefined references". To learn how to do
this, consult the documentation for the build system or IDE; don't bother asking
me. Adding all the library files to your project will work in many IDEs but may
not be the most desirable approach.
Resources
--------
The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements
---------------------
The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#

src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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// sigslot.h: Signal/Slot classes
//
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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
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* Cheers,
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* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
* 
* Author: Bjorn Roche, XO Audio, LLC
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/ *
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $ *
* Portable Audio I/O Library *
* Ring Buffer utility.
* *
* Author: Phil Burk, http://www.softsynth.com *
* modified for SMP safety on Mac OS X by Bjorn Roche *
* modified for SMP safety on Linux by Leland Lucius *
* also, allowed for const where possible *
* modified for multiple-byte-sized data elements by Sven Fischer *
* *
* Note that this is safe only for a single-thread reader and a *
* single-thread writer.
* *
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One line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function should still operate.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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    * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3
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jar/org/springframework/web/client/HttpClientErrorException.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/annotation/PutMapping.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/annotation/DeleteMapping.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/support/HttpAccessor.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/SpringServletContainerInitializer.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/annotation/ApplicationScope.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/annotation/PatchMapping.java

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/request/NativeWebRequest.java
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jar/javax/validation/Valid.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-
jar/javax/validation/metadata/Scope.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-
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jar/javax/validation/validation/ReportAsSingleViolation.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-
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  jar/io/netty/buffer/PoolChunkList.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
  jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
  jar/io/netty/buffer/ByteBuf.java
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  jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4.1.49-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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  /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io.netty/buffer/PooledUnsafeDirectByteBuf.java
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  /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io.netty/buffer/AbstractReferenceCountedByteBuf.java
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  /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io.netty/buffer/PooledUnsafeDirectByteBuf.java
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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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 libbz2.dll test program.
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 usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
 */
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1.1906 lsb 9.20170808ubuntu1

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 */
/**
 * Create a new <code>Acl</code> instance from this <code>Acl</code> with
 * the given permission revoked from the given principal. Other permissions
 * of the principal are not affected.
 *
 * Note, that it is not valid to revoke a permission from a specific
 * principal if that permission is granted globally to all principals.
 *
 * @param principal The entity from which permissions should be revoked, or
 *        "*" to revoke permissions from all principals.
 * @param permissions The permissions to be revoked. The parameter can be a
 *        logical <code>or</code> of more permission constants defined in
 *        this class.
 * @return a new <code>Acl</code> instance
 * @throws IllegalArgumentException if <code>principal</code> is not a
 *         valid principal name, if <code>permissions</code> is not a
 *         valid combination of the permission constants defined in
 *         this class, or if a globally granted permission would have been
 *         revoked from a specific principal
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/**
* Service for administering configuration data.
*
* <p>
* The main purpose of this interface is to store bundle configuration data
* persistently. This information is represented in <code>Configuration</code>
* objects. The actual configuration data is a <code>Dictionary</code> of
* properties inside a <code>Configuration</code> object.
*
* <p>
* There are two principally different ways to manage configurations. First
* there is the concept of a Managed Service, where configuration data is
* uniquely associated with an object registered with the service registry.
*
* <p>
* Next, there is the concept of a factory where the Configuration Admin service
* will maintain 0 or more <code>Configuration</code> objects for a Managed
* Service Factory that is registered with the Framework.
*
* <p>
* The first concept is intended for configuration data about "things/services"
* whose existence is defined externally, e.g. a specific printer. Factories are
* intended for "things/services" that can be created any number of times, e.g.
* a configuration for a DHCP server for different networks.
*
* <p>
* Bundles that require configuration should register a Managed Service or a
* Managed Service Factory in the service registry. A registration property
* named <code>service.pid</code> (persistent identifier or PID) must be used to
* identify this Managed Service or Managed Service Factory to the Configuration
* Admin service.
*
* <p>
* When the ConfigurationAdmin detects the registration of a Managed Service, it
* checks its persistent storage for a configuration object whose
* <code>service.pid</code> property matches the PID service property (  
* <code>service.pid</code>) of the Managed Service. If found, it calls
* [link ManagedService#updated] method with the new properties. The
* implementation of a Configuration Admin service must run these call-backs  
* asynchronously to allow proper synchronization.
*
* When the Configuration Admin service detects a Managed Service Factory
* registration, it checks its storage for configuration objects whose
* <code>service.factoryPid</code> property matches the PID service property of
* the Managed Service Factory. For each such <code>Configuration</code>
* objects, it calls the <code>ManagedServiceFactory.updated</code> method
* asynchronously with the new properties. The calls to the <code>updated</code>
* method of a <code>ManagedServiceFactory</code> must be executed sequentially
* and not overlap in time.
* 
* In general, bundles having permission to use the Configuration Admin service
* can only access and modify their own configuration information. Accessing or
* modifying the configuration of another bundle requires
* <code>ConfigurationPermission[*,CONFIGURE]</code>.
* 
* <code>Configuration</code> objects can be <i>bound</i> to a specified bundle
* location. In this case, if a matching Managed Service or Managed Service
* Factory is registered by a bundle with a different location, then the
* Configuration Admin service must not do the normal callback, and it should
* log an error. In the case where a <code>Configuration</code> object is not
* bound, its location field is <code>null</code>, the Configuration Admin
* service will bind it to the location of the bundle that registers the first
* Managed Service or Managed Service Factory that has a corresponding PID
* property. When a <code>Configuration</code> object is bound to a bundle
* location in this manner, the Configuration Admin service must detect if the
* bundle corresponding to the location is uninstalled. If this occurs, the
* <code>Configuration</code> object is unbound, that is its location field is
* set back to <code>null</code>.
* 
* The method descriptions of this class refer to a concept of "the calling
* bundle". This is a loose way of referring to the bundle which obtained the
* Configuration Admin service from the service registry. Implementations of
* <code>ConfigurationAdmin</code> must use a
* [@link org.osgi.framework.ServiceFactory] to support this concept.
* 
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/blueprint/reflect/PropsMetadata.java
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jar/org/osgi/service/blueprint/reflect/Metadata.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/cdma/ESNCondition.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/cdma/MEIDCondition.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/position/Position.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/util/position/Position.java
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This interface is used to manage a database of named <code>Role</code> objects, which can be used for authentication and authorization purposes.

Every role has a name and a type.

A <code>User</code> object can be configured with credentials (e.g., a password) and properties (e.g., a street address, phone number, etc.).

A <code>Group</code> object represents an aggregation of <code>User</code> and <code>Group</code> objects. In other words, the members of a <code>Group</code> object are roles themselves.

Every User Admin service manages and maintains its own namespace of <code>Role</code> objects, in which each <code>Role</code> object has a unique name.

@version $Revision: 5673 $

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/io/ConnectorService.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/io/ConnectionFactory.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ConfigurationException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/device/Match.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/useradmin/Group.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ManagedServiceFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/useradmin/UserAdminListener.java
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/**
 * Returns the list of extension property keys, if the provider of this
 * <code>MetaNode</code> provides proprietary extensions to node meta
 * data. The method returns <code>null</code> if the node doesn't provide
 * such extensions.
 *
 * @return the array of supported extension property keys
 */

/**
 * Returns the value for the specified extension property key. This method
 * only works if the provider of this <code>MetaNode</code> provides
 * proprietary extensions to node meta data.
 *
 * @param key the key for the extension property
 * @return the value of the requested property, cannot be <code>null</code>
 */
@throws IllegalArgumentException if the specified key is not supported by
        this <code>MetaNode</code>
    */

Found in path(s):
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4- jar/info/dmtree/MetaNode.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4- jar/org/osgi/util/tracker/BundleTracker.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4- jar/org/osgi/util/tracker/AbstractTracked.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/monitor/Monitorable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/application/ApplicationHandle.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/spi/TransactionalDataSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/component/ComponentException.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/DmtEventListener.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/spi/ReadWriteDataSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/spi/ExecPlugin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/notification/spi/RemoteAlertSender.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/spi/RemoteAlertSender.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/registry/DmtServiceFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/DmtEvent.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/DmtSession.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/Uri.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/registry/DmtServiceFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/notification/spi/RemoteAlertSender.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/monitor/StatusVariable.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/info/dmtree/registry/DmtServiceFactory.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4.jar/org/osgi/service/monitor/MonitoringJob.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4.2.0-sources-4.jar/org/osgi/service/event/Event.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4.2.0-sources-4.jar/org/osgi/service/upnp/UPnPException.java
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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

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straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

Adi Dascal <ad@baum.ro>  
Alex Bernier <alex.bernier@free.fr>  
Andreas Gross <andi@andi-bika.de>  
Angela Engel <angela.engel@gmx.at>  
Attila Hammer <hammera@pickup.hu>  
August Hrandl <august.hoerandl@gmx.at>  
Boris Daix <Boris.Daix@insa-lyon.fr>  
Cheryl Homiak <chomiak@shellworld.net>  
Christian Comaschi <christian_comaschi@libero.it>  
Coscell Kao <coscell@molerat.net>
Daniel Dalton <d.dalton@iinet.net.au>
Dave Mielke <dave@mielke.cc>
David Sauer <sauer@brailcom.cz>
Hans Schou <chlor@schou.dk>
Helge Havnegjerde <helge.havnegjerde@c2i.net>
Hermann Bender <meinelisten@onlinehome.de>
James Teh <jami@jantrid.net>
Jan Buchal <buchar@brailcom.org>
Jean-Philippe Mengual <jmengual@linuxfromscratch.org>
Joanmarie Diggs <jdiggs@igalia.com>
John J. Boyer <john.boyer@jjb-software.com>
Kazunori Minatani <99112004@gakushuin.ac.jp>
Lars Bjørndal <lars.bjorndal@broadpark.no>
Lee Maschmeyer <leemer1@comcast.net>
Luke Yelavich <themuso@ubuntu.com>
Mario Lang <mlang@delysid.org>
Mark Mielke <mark@mielke.cc>
Matthew Miller <mattdm@mattdm.org>
Michael Curran <mick@kulgan.net>
Michel Such <michel.such@free.fr>
Mike Pedersen <mpedersen@mindspring.com>
Nicolas Pitre <nico@fluxnic.net>
Olivier Bert <obert01@mistigri.org>
Oscar Fernandez <ofa@once.es>
Pete De Vasto <pdevasto@incyte.com>
Peter Lundblad <plundblad@google.com>
Regiane Mendona Villela <regianevillela@gmail.com>
Rich Burridge <Rich.Burridge@Sun.COM>
Rudolf Weeber <Rudolf.Weeber@gmx.de>
Samuel Thibault <samuel.thibault@ens-lyon.org>
Samuel Yang <mison@bbs.ee.ntu.edu.tw>
Sbastien Hinderer <sebastien.hinderer@ens-lyon.org>
Srgio Neves <sergionevess@gmail.com>
Simon Kainz <simon@familiekainz.at>
Simon Meers <drmeers@gmail.com>
Stepan Kasal <kasal@ucw.cz>
Stephane Dalton <sdalton@videotron.ca>
Stephane Doyon <s.doyon@videotron.ca>
Tapio Kelloniemi <tapio.kelloniemi@thack.org>
Thu Trang <thamtrang2002@softhome.net>
Timothy Spaulding <spaulding@icanbrew.com>
Timo Matsinen <matsinen@jyu.fi>
Tom spot Callaway <tcallawa@redhat.com>
Tom Janouek <tomi@nomi.cz>
Tomoyuki Kudou <kudou@cypac.co.jp>
Ulf Beckmann <beckmann@flusoft.de>
Willi Lutzenberger <willutz@gmx.net>
William Hubbs <w.d.hubbs@gmail.com>
1.1910 error_prone_annotations 2.1.3

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Version 2.0, January 2004

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1.1928 bind 9.11.4-26.P2.el7_9.4

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* configure.ac, Makefile.am: The original versions were derived from the
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* atf-c/ui.c: The format_paragraph and format_text functions were
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3a0982da308228d796df35f98d787c5c1f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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and installation of the library.

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covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
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works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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under terms of your choice, provided that the terms permit
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/*
 * // Chew on the expression text - relying on the rules
 * case ""
 * case \\
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" +

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelEvaluationException.java
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case 'l': case '(':

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* case '{'
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  jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/EvaluationException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/PropertyAccessor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ExpressionException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/OpDivide.java
"foo\{expr0\}bar\{expr1\}". The static
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case ']':case '}

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1.1939 jakarta-validation-api 2.0.2

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/unwrapping/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/unwrapping/UnexpectedTypeException.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
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1.1940 jboss-as-jaxr 7.3.0.Final-redhat-14

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Corresponding Source from a network server at no charge.

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written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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Library" must include any data and utility programs needed for
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distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.
An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.1952 initial-setup 0.3.9.44
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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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"""EULA TUI spoke for the Initial Setup"""

import gettext
import codecs
import logging
from pyanaconda.ui.tui.spokes import NormalTUISpoke
from pyanaconda.ui.tui.simpleline.widgets import TextWidget, CheckboxWidget
from pyanaconda.ui.tui.simpleline.base import UIScreen
from pyanaconda.ui.common import FirstbootOnlySpokeMixIn
from initial_setup.product import get_license_file_name
from initial_setup.common import LicensingCategory
from pyanaconda.constants import FIRSTBOOT_ENVIRON
from pykickstart.constants import FIRSTBOOT_RECONFIG

log = logging.getLogger("initial-setup")

_=lambda x:gettext.ldgettext("initial-setup",x)
_N_=lambda x:x

__all__=["EULAspoke"]

class EULAspoke(FirstbootOnlySpokeMixIn, NormalTUISpoke):
    """The EULA spoke providing ways to read the license and agree/disagree with it."""

    title = _("License information")
    category = LicensingCategory

def __init__(self, *args, **kwargs):
    NormalTUISpoke.__init__(self, *args, **kwargs)

    self._have_eula = True
def initialize(self):
    NormalTUISpoke.initialize(self)

    self._have_eula = bool(get_license_file_name())

def refresh(self, args=None):
    NormalTUISpoke.refresh(self, args)

    if self._have_eula:
        log.debug("license found")
        # make the options aligned to the same column (the checkbox has the
        # ' [ ] ' prepended)
        self._window += [TextWidget("    1) %s" % (_("Read the License Agreement")), "]
        self._window += [CheckboxWidget(title="2) %s" % (_("I accept the license agreement.")),
                          completed=self.data.eula.agreed), "]
    else:
        log.debug("license not found")
        self._window += [TextWidget(_("No license found. Please report this 
                            "at http://bugzilla.redhat.com")), "]

@property
def completed(self):
    # Either there is no EULA available, or user agrees/disagrees with it.
    return not self._have_eula or self.data.eula.agreed

@property
def mandatory(self):
    # This spoke is always mandatory.
    return True

@property
def status(self):
    if not self._have_eula:
        return _("No license found")

    return _("License accepted") if self.data.eula.agreed else _("License not accepted")

@classmethod
def should_run(cls, environment, data):
    # the EULA spoke should only run in Initial Setup
    if environment == FIRSTBOOT_ENVIRON:
        # don't run if we are in reconfig mode and the EULA has already been accepted
        if data and data.firstboot.firstboot == FIRSTBOOT_RECONFIG and data.eula.agreed:
            log.debug("not running license spoke: reconfig mode & license already accepted")
            return False
        return True

    def apply(self):
# nothing needed here, the agreed field is changed in the input method
pass

def input(self, args, key):
    try:
        keyid = int(key)
    except ValueError:
        # only number choices are processed here
        return key

    if keyid == 1:
        # show license
        log.debug("showing the license")
        eula_screen = LicenseScreen(self._app)
        self.app.switch_screen_with_return(eula_screen)
        return None
    elif keyid == 2:
        # toggle EULA agreed checkbox by changing ksdata
        log.debug("license accepted state changed to: %s", self.data.eula.agreed)
        self.data.eula.agreed = not self.data.eula.agreed
        return None

    # some numerical value that cannot be processed here
    return key

class LicenseScreen(UIScreen):
    """Screen showing the License without any input from user requested."""

    # no title needed, we just want to show the license
    title = ""

    def __init__(self, app, screen_height=25):
        UIScreen.__init__(self, app, screen_height)

        self._license_file = get_license_file_name()

    def refresh(self, args=None):
        UIScreen.refresh(self, args)

        log.debug("reading the license file")
        buf = u"

        with codecs.open(self._license_file, "r", "utf-8", "ignore") as fobj:
            for line in fobj:
                buf += line
import gettext
import logging

from pyanaconda.ui.common import FirstbootOnlySpokeMixIn
from pyanaconda.ui.gui.spokes import NormalSpoke
from pyanaconda.constants import FIRSTBOOT_ENVIRON
from pykickstart.constants import FIRSTBOOT_RECONFIG

from initial_setup.product import get_license_file_name
from initial_setup.common import LicensingCategory

log = logging.getLogger("initial-setup")
_
= lambda x: gettext.ldgettext("initial-setup", x)
N_ = lambda x: x

__all__ = ["EULAspoke"]

class EULAspoke(FirstbootOnlySpokeMixIn, NormalSpoke):
    """The EULA spoke"""

    builderObjects = ["eulaBuffer", "eulaWindow"]
    mainWidgetName = "eulaWindow"
    uiFile = "eula.glade"
    # The EULA spoke is self-explanatory, so just redirect its
    # help button to the Initial Setup Hub help file,
    # which covers the overall theory of Initial Setup
    # usage.
    helpFile = "InitialSetupHub.xml"

    icon = "application-certificate-symbolic"
    title = N_("_LICENSE INFORMATION")
    category = LicensingCategory
    translationDomain = "initial-setup"

    def initialize(self):
        log.debug("initializing the EULA spoke")
        NormalSpoke.initialize(self)

        self._have_eula = True
self._eula_buffer = self.builder.get_object("eulaBuffer")
self._agree_check_button = self.builder.get_object("agreeCheckButton")
self._agree_label = self._agree_check_button.get_child()
self._agree_text = self._agree_label.get_text()

log.debug("looking for the license file")
license_file = get_license_file_name()
if not license_file:
    log.error("no license found")
    self._have_eula = False
    self._eula_buffer.set_text(_("No license found. Please report this "
                                "at http://bugzilla.redhat.com"))
    return

self._eula_buffer.set_text(""
itr = self._eula_buffer.get_iter_at_offset(0)
log.debug("opening the license file")
with open(license_file, "r") as fobj:
    fobj_lines = fobj.xreadlines()

    # insert the first line without prefixing with space
    try:
        first_line = fobj_lines.next()
    except StopIteration:
        # nothing in the file
        return
    self._eula_buffer.insert(itr, first_line.strip())

    # EULA file is preformatted for the console, we want to let Gtk
    # format it (blank lines should be preserved)
    for line in fobj_lines:
        stripped_line = line.strip()
        if stripped_line:
            self._eula_buffer.insert(itr, " " + stripped_line)
        else:
            self._eula_buffer.insert(itr, "\n\n")

def refresh(self):
    self._agree_check_button.set_sensitive(self._have_eula)
    self._agree_check_button.set_active(self.data.eula.agreed)

def apply(self):
    self.data.eula.agreed = self._agree_check_button.get_active()
@property
def status(self):
    if not self._have_eula:
        return _('No license found')

    return _('License accepted') if self.data.eula.agreed else _('License not accepted')

@classmethod
def should_run(cls, environment, data):
    # the EULA spoke should only run in Initial Setup
    if environment == FIRSTBOOT_ENVIRON:
        # don't run if we are in reconfig mode and the EULA has already been accepted
        if data and data.firstboot.firstboot == FIRSTBOOT_RECONFIG and data.eula.agreed:
            log.debug("not running license spoke: reconfig mode & license already accepted")
            return False
        return True

    def on_check_button_toggled(self, checkbutton, *args):
        if self._agree_check_button.get_active():
            log.debug("license is now accepted")
            self._agree_label.set_markup("<b>%s</b>" % self._agree_text)
        else:
            log.debug("license no longer accepted")
            self._agree_label.set_markup(self._agree_text)

<?xml version="1.0" encoding="UTF-8"?>
<interface>
    <!-- interface-requires gtk+ 3.6 -->
    <!-- interface-requires AnacondaWidgets 1.0 -->
    <object class="GtkTextBuffer" id="eulaBuffer">
        <property name="text">The license will go here</property>
    </object>
    <object class="AnacondaSpokeWindow" id="eulaWindow">
        <property name="can_focus">False</property>
        <property name="hexpand">True</property>
        <property name="vexpand">True</property>
        <property name="window_name" translatable="yes">LICENSE INFORMATION</property>
        <signal name="button-clicked" handler="on_back_clicked" swapped="no"/>
        <child internal-child="main_box">
            <object class="GtkBox" id="AnacondaSpokeWindow-main_box1">
                <property name="can_focus">False</property>
                <property name="orientation">vertical</property>
                <property name="spacing">6</property>
                <child internal-child="nav_box">
                    <object class="GtkEventBox" id="AnacondaSpokeWindow-nav_box1">
                        <property name="app_paintable">True</property>
                        <property name="can_focus">False</property>
                        <child internal-child="nav_area">
                            <object class="GtkGrid" id="AnacondaSpokeWindow-nav_area1"/>
1.1953 jboss-ejb-client 1.0.24.Final-redhat-1

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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS
In module `YourModule.pm`:

```perl
package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

or

```perl
package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

In other files which wish to use `YourModule`:

```perl
use YourModule qw(frobnicate);   # import listed symbols
frobnicate ($left, $right)      # calls YourModule::frobnicate
```

Take a look at `Good Practices` for some variants you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an `import` method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own `import` method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the `import` method when processing a `use` statement for a module. Modules and `use` are documented in `perlfunc` and `perlmod`. Understanding the concept of modules and how the `use` statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays `@EXPORT` and `@EXPORT_OK` in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```perl
@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```
If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };
$subref->(@args);       # Call it as a function
$obj->$subref(@args);   # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>


This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...)>;

This imports only the symbols listed by the caller into their namespace.
All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- ![name] This name only
- ![]:DEFAULT All names in @EXPORT
- ![]:tag All names in $EXPORT_TAGS{tag} anonymous list
- ![]:/pattern/ All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., F<Module.pm> defines:

```perl
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```
Other examples include:

    use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
    use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

    MyPackage->export_to_level(
        $where_to_export, $package, @what_to_export
    );

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<@what_to_export> is an array telling what symbols to export (usually this is C<@_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

    package A;

    @ISA = qw(Exporter);
    @EXPORT_OK = qw ($b);

    sub import
    {
        $A::b = 1;  # not a very useful import method
    }

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

    package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
$A::b = 1;
A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do

class YourModule;
use Exporter qw ( import );

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a
module into a call to C<< $module_name->VERSION($value) >>. This can
be used to validate that the version of the module being used is
greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that
simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION>
existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than
1.9. For this reason it is strongly recommended that you use numbers
with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name->export_fail(@failed_symbols);

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

    %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

    Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
    Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.
The simplest way to do this is:

\[
\%\text{EXPORT\_TAGS} = \text{(foo} => \{\text{qw(aa bb cc)}\}, \text{bar} => \{\text{qw(aa cc dd)}\})\;\]

\# add all the other ":class" tags to the ":all" class,
\# deleting duplicates
\{ my \%seen;

    push @{$\%\text{EXPORT\_TAGS}\{\text{all}}\},
    grep !{$\%\text{seen}\{$_}\}++ @{$\%\text{EXPORT\_TAGS}\{$_\}} foreach keys \%\text{EXPORT\_TAGS};
\}

F\text{\textless\textgreater\text{CGI.pm}}\text{\textgreater} creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

\# add some of the other ":class" tags to the ":all" class,
\# deleting duplicates
\{ my \%seen;

    push @{$\%\text{EXPORT\_TAGS}\{\text{all}}\},
    grep !{$\%\text{seen}\{$_}\}++ @{$\%\text{EXPORT\_TAGS}\{$_\}}
    foreach qw/html2 html3 netscape form cgi internal/;
\}

Note that the tag names in C\textless\%\text{EXPORT\_TAGS}\textgreater don't have the leading '\:'.

\textbf{=head2 C\textless\text{AUTOLOAD}\textgreater ed Constants}

Many modules make use of C\textless\text{AUTOLOAD}\textgreater ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L\textless\text{perlsub}\textgreater for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C\textless\text{AUTOLOAD}\textgreater ed yet). perl needs to examine both the C\textless\textgreater prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C\textless\text{BEGIN}\textgreater block:

\begin{verbatim}
package My;

use Socket;
\end{verbatim}
foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN {  SO_LINGER  }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before
SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing
an C<AUTOLOAD> for any constants explicitly imported by other packages
or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings>
pragmas, the C<our> keyword is needed to declare the package
variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important,
one must write instead a C<use vars> statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements
like C<require Exporter> and the assignment to package
variables, which can very subtle for the unaware programmer.
This may happen for instance with mutually recursive
modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think
about that is to use C<BEGIN> blocks. So the first part
of the L</SYNOPSIS> code could be rewritten as:

package YourModule;

use strict;
use warnings;
our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C<@ISA> and C<@EXPORT_OK> happen
immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

use Exporter::Easy (  
    OK => [ qw(munge frobnicate) ],  
);  
# @ISA setup is automatic
# all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L>Selecting What to Export>
to not export:

=over 4
method names (because you don't need to
and that's likely to not do what you want),

anything by default (because you don't want to surprise your users...
badly)

anything you don't need to (because less is more)

There's one more item to add to this list. Do B<not>
export variable names. Just because C<Exporter> lets you
do that, it does not mean you should.

@EXPORT_OK = qw( $svar @avar %hvar ); # DONT!

Exporting variables is not a good idea. They can
change under the hood, provoking horrible
effects at-a-distance, that are too hard to track
and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide
settings, it is best instead to provide accessors
as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with
symbol exporter capabilities. At CPAN, you may find
a bunch of them. Some are lighter. Some
provide improved APIs and features. Peek the one
that fits your needs. The following is
a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Perl6::Export / Perl6::Export::Attrs

=head1 LICENSE
This library is free software. You can redistribute it
and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135855402_1613616259.16/0/perl-Exporter-5.68-3.el7-1.src.rpm-cosi-expand-archive-yod4W2uk/Exporter-5.68.tar.gz-cosi-expand-archive-9uohzHOt/Exporter-5.68/lib/Exporter.pm
No license file was found, but licenses were detected in source scan.

License:       GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1135855402_1613616259.16/0/perl-Exporter-5.68-3.el7-1.src.rpm-cosi-expand-archive-yod4W2uk/perl-Exporter.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Implements default import method for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 5.68
NAME
Exporter - Implements default import method for modules

SYNOPSIS
In module YourModule.pm:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use "YourModule":

    use YourModule qw(frobnicate);      # import listed symbols
    frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be
given by full name with the exception that the ampersand in front of a
function is optional, e.g.

```perl
@EXPORT    = qw(afunc $scalar @array);  # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob);  # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.

Selecting What To Export
Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try
to use `@EXPORT_OK` in preference to `@EXPORT` and avoid short or common
symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the "YourModule::item_name" (or "$blessed_ref->method")
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... };  
$subref->(@args);  # Call it as a function
$obj->$subref(@args);  # Use it as a method
```

However if you use them for methods it is up to you to figure out how to
make inheritance work.)

As a general rule, if the module is trying to be object oriented then
export nothing. If it's just a collection of functions then `@EXPORT_OK`
anything but use `@EXPORT` with caution. For function and method names use
barewords in preference to names prefixed with ampersands for the export
lists.

Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways
for them to load your module and import its symbols:

"use YourModule;"

This imports all the symbols from YourModule's `@EXPORT` into the
namespace of the "use" statement.
"use YourModule ();"
   This causes perl to load your module but does not import any
   symbols.

"use YourModule qw(...);"
   This imports only the symbols listed by the caller into their
   namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK,
   else an error occurs. The advanced export features of Exporter are
   accessed like this, but with list entries that are syntactically
   distinct from symbol names.

Unless you want to use its advanced features, this is probably all you
need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the
list is treated as a series of specifications which either add to or
delete from the list of names to import. They are processed left to
right. Specifications are in the form:

   [!]name         This name only
   [!]:DEFAULT     All names in @EXPORT
   [!]:tag         All names in $EXPORT_TAGS{tag} anonymous list
   [!]/pattern/    All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the
list of names to import. If the first specification is a deletion it is
treated as though preceded by :DEFAULT. If you just want to import extra
names in addition to the default set you will still need to include
:DEFAULT explicitly.

e.g., Module.pm defines:

   @EXPORT      = qw(A1 A2 A3 A4 A5);
   @EXPORT_OK   = qw(B1 B2 B3 B4 B5);
   %EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);

   Note that you cannot use tags in @EXPORT or @EXPORT_OK.
   Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

   use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

   use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method
Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

    MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @_). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

    package A;

    @ISA = qw(Exporter);
    @EXPORT_OK = qw ($b);

    sub import
    {
        $A::b = 1;  # not a very useful import method
    }

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

    package A;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw ($b);

    sub import
    {
        $A::b = 1;
        A->export_to_level(1, @_);
    }
This will export the symbols one level 'above' the current package - ie:
to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level
- or people using your package will get very unexplained results!

Exporting without inheriting from Exporter
By including Exporter in your @ISA you inherit an Exporter's import()
method but you also inherit several other helper methods which you
probably don't want. To avoid this you can do

    package YourModule;
    use Exporter qw( import );

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
@YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released
with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a
module into a call to "$module_name->require_version($value)". This can
be used to validate that the version of the module being used is greater
than or equal to the required version.

The Exporter module supplies a default "require_version" method which
checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as
a simple numeric value it will regard version 1.10 as lower than 1.9.
For this reason it is strongly recommended that you use numbers with at
least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being
exported. Typically this applies to extensions which have functions or
constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the
@EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will
give the module an opportunity to handle the situation before generating
an error. The Exporter will call an export_fail method with a list of
the failed symbols:
@failed_symbols = $module_name->export_fail(@failed_symbols);

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{  
  my %seen;

  push @{$EXPORT_TAGS{all}},  
  grep {!seen($_)++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an ":all" tag which contains some (but not really all) of
its categories. That could be done with one small change:

```perl
# add some of the other "class" tags to the "all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
    foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in %EXPORT_TAGS don't have the leading ':'.

"AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```perl
package My ;

use Socket ;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the "AUTOLOAD" for "SO_LINGER" to take place before SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

Good Practices

Declaring @EXPORT_OK and Friends

When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT_OK,
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must write instead a "use vars" statement.

use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be rewritten as:

package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The
basic difference is that "base" code interacts with declared "fields"
while "parent" is a streamlined version of the older "base" code to just
establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use
Exporter::Easy, which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the use statement.

    use Exporter::Easy (
      OK =&gt; [ qw(munge frobnicate) ],
    );
    # @ISA setup is automatic
    # all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do
  what you want),

* anything by default (because you don't want to surprise your
  users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names.
Just because "Exporter" lets you do that, it does not mean you should.

    @EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood,
provoking horrible effects at-a-distance, that are too hard to track and
to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best
instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter
capabilities. At CPAN, you may find a bunch of them. Some are lighter.
Some provide improved APIs and features. Peek the one that fits your
needs. The following is a sample list of such modules.

    Exporter::Easy
    Exporter::Lite
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1.1956 libxfixes 5.0.3-1.el7

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1.1957 paps 0.6.8-28.el7.1

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6. Conveying Non-Source Forms.

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medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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1.1977 msv-core 2011.1

1.1978 gzip 1.5 10.el7
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  jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
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jar/org/springframework/scheduling/backportconcurrent/CustomizableThreadFactory.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/naming/SelfNaming.java
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/**
 * [ @link FactoryBean ] that obtains a WebSphere [ @link javax.management.MBeanServer ]
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean ],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 *
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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jar/org/springframework/beans/factory/annotation/Configurable.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/annotation/Value.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/annotation/Value.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
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  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/ListFactoryBean.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/DestroyAwareBeanPostProcessor.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
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  * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
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jar/org/springframework/beans/PropertyAccessorFactory.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/BeanCreationException.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/BeanExpressionException.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/SmartFactoryBean.java

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jar/org/springframework/beans/support/BeanDefinitionValueResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/support/ConstructorResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/support/SimpleInstantiationStrategy.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/config/PropertyPlaceholderConfigurer.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/PropertyEditorRegistrySupport.java
/opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/PropertyAccessorUtils.java
/opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/propertyeditors/URIEditor.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/support/PagedListHolder.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/support/DisposableBeanAdapter.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
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/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/SimpleTypeConverter.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/support/InstantiationStrategy.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/support/ProviderCreatingFactoryBean.java
/opt/coli/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3.jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
1.1994 hibernate-validator 6.1.6.Final

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-
INF/validation-mapping-1.1.xsd
*/
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
*/
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 */
/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
*/
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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 */
/**
 * <p>
 * A method-level constraint, that evaluates a script expression against the annotated method or constructor. This constraint can be used to implement validation routines that depend on several parameters of the annotated executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language, for which a a<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active
 * </p>
 * [ @link javax.validation.ParameterNameProvider]. The default provider will return the actual parameter names, if the -parameters compiler option

* has been enabled, and `{@code arg0}`, `{@code arg1}` etc. otherwise.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* `{@code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling
*/

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/HibernateValidatorPermission.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod10CheckValidator.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorResolver.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ComposingConstraintTree.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/hv/TimePastValidatorForDate.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredField.java
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* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/metadata/facets/package-info.java
* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/metadata/descriptor/ElementDescriptorImpl.java
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* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/util/privilegedactions/GetClassLoader.java
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* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/properties/Signature.java
* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/engine/valueextraction/IntArrayValueExtractor.java
* /opt/ cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/metadata/aggregate/package-info.java
jar/org/hibernate/validator/internal/engine/resolver/CachingJPATraversableResolverForSingleValidation.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForThaiBuddhistDate.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForOffsetDateTimeTime.java
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jar/org/hibernate/validator/internal/util/annotation/AnnotationDescriptor.java
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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xmlsec-nss library

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* Cryptocom LTD

1.1997 LibGOM 0.3.3-1.el7

1.1997.1 Available under license:

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@end iftex
@end ifinfo
@end page
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for 
gdb-specific debug information and the 68k series machines, most of 
the preprocessing pass, and extensive changes in messages.c, 
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various 
enhancements and many bug fixes, including merging support for several 
processors, breaking gas up to handle multiple object file format 
backends (including heavy rewrite, testing, an integration of the coff 
and b.out backends), adding configuration including heavy testing and 
verification of cross assemblers and file splits and renaming, 
converted gas to strictly ansi C including full prototypes, added 
support for m680[34]0 & cpu32, considerable work on i960 including a 
coff port (including considerable amounts of reverse engineering), a 
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host 
ports, updated "know" assertions and made them work, much other 
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of 
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. 
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of 
Buffalo University and Torbjorn Granlund of the Swedish Institute of 
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS 
back end (tc-mips.c, tc-mips.h), and contributed Rose format support 
that hasn't been merged in yet. Ralph Campbell worked with the MIPS 
code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.2017 libteam 1.27-9.el7
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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is invoked, then you must make a good faith effort to ensure that,
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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hostname -- set the host name or show the host/domain name

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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p></p>
 * <p>Example:</p>
 * <p></p>
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <br />

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 42832
* `<code>byte[] myByteArray = Base64.decode( encoded );</code>`
* `<p/>
* `<p>The `<tt>options</tt>` parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* `encodeBytes( bytes, options )` the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>`
* `<p/>
* `<p>Note, according to `<a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>`,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64 set to this behavior now, although earlier versions
* broke lines by default.</p>`
* `<p/>
* `<p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>`
* `<p/>
* `<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>`
* `<p>to compress the data before encoding it and then making the output have newline characters.</p>`
* `<p>Also...</p>`
* `<p>`
* `<p>`
* `<p>`
* `<p>`
* `<p>`
* `<p>`
* Change Log:
* `<p/>
* `<ul>
* `<li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>`
* `<li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>`
* `<li>v2.3.5 - Fixed bug in `{@link #encodeFromFile}` where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>`
* `<li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using
* `{@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}`
* method.</li>`
* `<li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException`
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the [@link #encodeBytesToBytes(byte[])] family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added [@link #encodeBytesToBytes(byte[], int, int, int)] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
*  
* <em>Does not break lines, by default.</em> This is to keep in compliance with
* @a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>. </li>
* <li>Throws exceptions instead of returning null values.</li>
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions</li>
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~&lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* </ul>
* The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
* URL and file name friendly format that preserves lexical ordering as described
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com</a>
* for contributing the new Base64 dialects.
* </li>
* <p/>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (&lt;tt&gt;int&lt;/tt&gt; s that you “OR” together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using &lt;tt&gt;decode( String s, boolean gzipCompressed )&lt;/tt&gt;.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
* </p>
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* periodically to check for updates or to contribute improvements.
* </p>
* 
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1023216565_1591382474.96/0/resteasy-jaxrs-2-2-3-ga-sources-jar/org/jboss/resteasy/util/Base64.java
1.2024 bash-completion 2.1-6.el7

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=head1 NAME

class - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
  SEC => 0,
  MIN => 1,
  HOUR => 2,
  MDAY => 3,
  MON => 4,
  YEAR => 5,
  WDAY => 6,
  YDAY => 7,
  ISDST => 8,
};

use constant WEEKDAYS => qw(
  Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], "\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES
As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo) { use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

    print "Pi equals PI...\n";    # WRONG: does not expand "PI"
    print "Pi equals ".PI."...\n";       # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.
This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

```perl
use constant TIMESTAMP => localtime;        # WRONG!
use constant TIMESTAMP => scalar localtime; # right
```

The first line above defines `TIMESTAMP` as a 9-element list, as returned by `localtime()` in list context. To set it to the string returned by `localtime()` in scalar context, an explicit `scalar()` keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```perl
my @workdays = WEEKDAYS[1 .. 5];            # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];          # right
```

=head2 Defining multiple constants at once

Instead of writing multiple `use constant` statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```perl
use constant {
  FOO => "A single value",
  BAR => "This", "won't", "work!",       # Error!
};
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until the `use` statement is finished.

```perl
use constant {
  BITMASK => 0xAFBAEBA8,
  NEGMASK => ~BITMASK,               # Error!
};
```

=head2 Magic constants
Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

```
use constant E2BIG => ($! = 7);
print E2BIG, "\n";       # something like "Arg list too long"
print 0+E2BIG, "\n";     # "7"
```

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

```
sub declared ($) {
    use constant 1.01;              # don't omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}
```

=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.
Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.

You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say $hash{CONSTANT} because $CONSTANT will
be interpreted as a string. Use $hash{CONSTANT()} or
$hash{+CONSTANT} to prevent the bareword quoting mechanism from
kicking in. Similarly, since the <<= >> operator quotes a bareword
immediately to its left, you have to say $<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
$<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the SvREADONLY scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from
many other folks.

Multiple constant declarations at once added by Casey West,
E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen,
E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni
E<lt>F<sebastien@aperghis.net>E<gt>.

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=cut

Found in path(s):
* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-eRwAgL5p/constant-1.27.tar.gz-cosi-expand-archive-B44A52uU/constant-1.27/lib/constant.pm
No license file was found, but licenses were detected in source scan.

NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

  perl Makefile.PL
  make
  make test
  make install

Alternatively, to install with Module::Build, you can use the following commands:

  perl Build.PL
  ./Build
  ./Build test
  ./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

  perldoc constant
You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

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http://cpanratings.perl.org/d/constant

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Found in path(s):
* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-eRwAgL5p/constant-1.27.tar.gz-cosi-expand-archive-B44A52uU/constant-1.27/README

1.2026 libunistring 0.9.3-9.el7

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package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {

private String permission;
private String description;
private boolean isDefault;

public Permission() {

}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

}
public String getPermission() {
    return permission;
}

class Permission {
    private String permission;
    private boolean isDefault;

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
        this.isDefault = value;
    }

    public boolean isDefault() {
        return isDefault;
    }
}

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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
* Marker interface for OutputStreams that can directly support
*/

package org.apache.cxf.io;
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/

public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}

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import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission implements Serializable {
    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }

    /**
     * Sets the permission description
     * @param description
     */
    public void setDescription(String description) {
        this.description = description;
    }

    /**
     * Get the permission value such as "read_calendar"
     * @return the value
     */
    public String getPermission() {
        return permission;
    }
}
/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/hash/PBKDF2.java
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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/examples/AuthCommonExamples.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/PRNG.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/package-info.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashingAlgorithm.java
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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/AuthProvider.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/AuthProvider.java
jar/io/vertx/ext/auth/impl/ChainAuthImpl.java

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jar/io/vertx/ext/auth/AuthOptions.java
  */opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-
jar/io/vertx/ext/auth/VertxContextPRNG.java
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jar/io/vertx/ext/auth/impl/AuthProviderInternal.java
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```java
configPropertySupportsDynamicUpdates, Boolean configPropertyConfidential, String id)
configPropertySupportsDynamicUpdates, configPropertyConfidential, id, null); * @param
configPropertyConfidential The element config-property-confidential is used to specify * whether the configuration property is confidential and * property as confidential. Boolean configPropertySupportsDynamicUpdates, Boolean configPropertyConfidential, String id, configPropertySupportsDynamicUpdates, configPropertyConfidential, id, attachedClassName, null, null, null); * @param configPropertyConfidential The element config-property-confidential is used to specify * whether the configuration property is confidential and * property as confidential. * @param confidId ID of configPropertyConfidential element Boolean configPropertySupportsDynamicUpdates, Boolean configPropertyConfidential, String id, this.configPropertyConfidential = configPropertyConfidential; *
@return configPropertyConfidential public Boolean getConfigPropertyConfidential() return
configPropertyConfidential; result = prime * result + ((configPropertyConfidential == null) ? 0 :
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(0); if
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(sb.append("/").append(ConfigProperty16.Tag.CONFIG_PROPERTY_CONFIDENTIAL).append(">");
configPropertySupportsDynamicUpdates, configPropertyConfidential, CopyUtil.cloneString(id),'
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1.2036 remoting-jmx 1.1.0.Final

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public static final String CONFIDENTIALITY_SUPPORTED = "SUPPORTED";
public static final String CONFIDENTIALITY_REQUIRED = "REQUIRED";

private String confidentiality = CONFIDENTIALITY_NONE;

public String getConfidentiality()
return confidentiality;

public void setConfidentiality(String confidentiality)
if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality");
if (CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_NONE;
else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality))
this.confidentiality = CONFIDENTIALITY_SUPPORTED;
else if (CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality))
this.confidentiality = CONFIDENTIALITY_REQUIRED;
throw new IllegalArgumentException("Unknown transport confidentiality: "+ confidentiality);

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if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality"); if (CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_NONE; else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_SUPPORTED; else if (CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_REQUIRED; throw new IllegalArgumentException("Unknown transport confidentiality: " + confidentiality");

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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AopProxyFactory.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/LazyInitTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/Pointcuts.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectAroundAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AopProxyMethodInvocation.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/MethodMatchers.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AopNamespaceHandler.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AopProxy.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/support/ClassFilters.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/support/IntroductionInfoSupport.java
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  jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
  jar/org/springframework/aop/aspectj/AnnotationAwareAspectSupport.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/PointcutAdvisor.java
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 43189
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.2057 perl-net-daemon 0.48-5.el7
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1.2058 empathy 3.12.13-1.el7

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License for Berkeley TestFloat Release 3e

John R. Hauser
2018 January 20

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Key Dates
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* August 3, 2017

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== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
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* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
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* The entire first line should be less than ~70 characters.
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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.
== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ’---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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 */

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Key Dates

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* August 3, 2017

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Contributions.txt: TianoCore Contribution Agreement 1.0

= Code Contributions =

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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Contributions using other licenses might be accepted, but further review will be required.

= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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4) QEMU is a trademark of Fabrice Bellard.

Fabrice Bellard and the QEMU team

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+         x86emu_dump_xregs();
+     } else {
+       x86emu_dump_regs();
+     }
+ }
+ 
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         printk("%04x:%04x", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
 for (i=0; i < M.x86.enc_pos; i++) {
     sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
 }  
-   printk("%-20s",buf1);
+   printf("%-20s",buf1);
 }  

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -00001.1
+++ ops2.c 20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
-    if (cond)
+    if (cond) {
          M.x86.R_IP = (u16)target;
+    } 
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+} 
+/* *******************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+**************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+} 
+/* void x86emuOp2_bswap(u8 op2) */
+{ 
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAPt");
+   switch (op2) {
+   case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+   case 0xc9:

case 0xc9:
    DECODE_PRINTF("ECX\n");
    M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
    break;
    case 0xca:
    DECODE_PRINTF("EDX\n");
    M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
    break;
    case 0xcb:
    DECODE_PRINTF("EBX\n");
    M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
    break;
    case 0xcc:
    DECODE_PRINTF("ESP\n");
    M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
    break;
    case 0xcd:
    DECODE_PRINTF("EBP\n");
    M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
    break;
    case 0xce:
    DECODE_PRINTF("ESI\n");
    M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
    break;
    case 0xcf:
    DECODE_PRINTF("EDI\n");
    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;

    }
/* 0xc0 */ x86emuOp2_bswap,
/+* 0xcc */ x86emuOp2_bswap,
/+* 0xcd */ x86emuOp2_bswap,
/+* 0xce */ x86emuOp2_bswap,
/+* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
+        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
-        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(val1, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        }
@@ -2655,11 +2674,16 @@
        val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word((u16)val1, (u16)val2);
    }
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_SI += inc;
if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
- / * move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2871,6 +2911,8 @@
M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(M.x86.R_AL, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
+ if (M.x86.intr & INTR_HALTED)
+  break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  - /* move them until CX is ZERO. */
  - while (M.x86.R_CX != 0) {
  + /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX -= 1;
    + else
    +    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
      break;          /* zero flag set means equal */
    + if (M.x86.intr & INTR_HALTED)
    +  break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
  @@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
      - /* move them until CX is ZERO. */
      - while (M.x86.R_CX != 0) {
      + /* move them until (E)CX is ZERO. */
      + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
          val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_long(M.x86.R_EAX, val);
        }
      }
      M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
      +    M.x86.R_ECX -= 1;
      + else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    while (M.x86.R_CX != 0) {
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();

    START_OF_INSTR();

    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
"NEAR");
DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
START_OF_INSTR();
DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
 ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/ossdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000.1
+++ prim_ops.c.16 Jan 2008 14:18:15 -0000.1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    } if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        -    /* in until CX is ZERO. */
-    -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    -    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
+        /* in until (E)CX is ZERO. */
+        +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
+            M.x86.R ECX : M.x86.R CX);
-    
-        while (count--) {
-            single_in(size);
-            M.x86.R DI += inc;
-        }
-    M.x86.R CX = 0;
-    -    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    -    if (M.x86.mode & SYSMODE_32BIT_REP) {
+        M.x86.R ECX = 0;
+    }
+    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2355,15 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    /* out until (E)CX is ZERO. */
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        /* out until (E)CX is ZERO. */
        /* out until (E)CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
    }
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
}
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("inw %#04x \n", addr);  
  -return inw(addr);  
  +return 0;  
}  

****************************************************************************
@@ -250,7 +245,7 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("inl %#04x \n", addr);  
  -return inl(addr);  
  +return 0;  
}  

****************************************************************************
@@ -264,7 +259,6 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("outb %#02x -> %#04x \n", val, addr);  
  -outb(val, addr);  
  return;  
}  

@@ -279,7 +273,6 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("outw %#04x -> %#04x \n", val, addr);  
  -outw(val, addr);  
  return;  
}  

@@ -295,7 +288,6 @@  
{  
  DB(if (DEBUG_IO_TRACE()))  
  printk("outl %#08x -> %#04x \n", val, addr);  
  -outl(val, addr);  
  return;  
}  

@@ -405,6 +397,6 @@  
void X86EMU_setMemBase(void *base, size_t size)  
{  
  -M.mem_base = (int) base;  
  +M.mem_base = (unsigned long) base;  
  M.mem_size = size;  
}
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+## define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+## define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS() 0
+## define DEBUG_TRACEJMP()       0
+## define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     	
	printk("%04x:%04x: %s%04x:%04x\n", u , v, s, w, x);
-## define RETURN_TRACE(n,u,v)                                    
+## define RETURN_TRACE(u,v,w,x,s)                                    
if (DEBUG_TRACECALLREGS())										x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     
-printf("%04x:%04x: %s\n",u,v,n);
+printf("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+## define JMP_TRACE(u,v,w,x,s)                                    

#include <console.h>

#define printk(x...) printk(BIOS_DEBUG, x)
#endif

#define DEBUG_TRACEJMP_REGS_F  0x040000

#define DEBUG_SYS_F       (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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History
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This is the software license for Capstone disassembly framework.
Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
    ; CHECK-LABEL: PR41535:
    ; CHECK:       // %bb.0:
    ; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
    ; CHECK-NEXT:    mov v0.d[1], v0.d[0]
    ; CHECK-NEXT:    ret
    %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
    %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
    %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
    ret <4 x i32> %r
}    

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    ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
    BB:
    %L34 = load i8, i8* %0
    %Cmp56 = icmp sgt i8 undef, %L34
    br label %CF246
    CF246:                                            ; preds = %CF246, %BB
    %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
    CF248:                                            ; preds = %CF248, %CF246
    store i8 %Sl163, i8* %0
    br label %CF248
}
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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we don't end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) { 
 ; CHECK-LABEL: TestSelect: 
 ; CHECK: # %bb.0: 
 ; CHECK-NEXT: pushq %rbx
define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm1
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    orps %xmm1, %xmm0
; CHECK-NEXT:    retq
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    %flt = sitofp <16 x i32> %in to <16 x double>
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
    ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
    ; CHECK-DAG: scvtf.2d v0, v0
    ; CHECK-DAG: scvtf.2d v1, v1
    ; CHECK: ret
    %flt = sitofp <4 x i64> %in to <4 x double>
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
    ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]??]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

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define void @foo_i32() {
entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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Albert Pretorius <pretoalb@gmail.com>
Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg,
<8 x i64>* readonly %arg1) #0 {
   ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
   ; CHECK-SAME: (<8 x i64>* [\[ARG:%.*\]], <8 x i64> [\[ARG1_VAL:%.*\]])
   ; CHECK-NEXT: bb:
   ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
   ; CHECK-NEXT: ret void
   
   bb:
   %tmp = load <8 x i64>, <8 x i64>* %arg1
   store <8 x i64> %tmp, <8 x i64>* %arg
   ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg) #0 {
   ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>*) [[ARG:%.*]]
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP.VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; CHECK-NEXT:    [[TMP_VAL:.+]]= load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:.+]]= load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void

bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:.+]], <8 x i64> [[ARG1_VAL:.+]])
    ; CHECK-NEXT:  bb:
    ; CHECK-NEXT:    store <8 x i64> %arg, <8 x i64>* %arg
    ; CHECK-NEXT:    ret void

    bb:
      %tmp = load <8 x i64>, <8 x i64>* %arg1
      store <8 x i64> %tmp, <8 x i64>* %arg
      ret void

    define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
      ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
      ; CHECK-SAME: (<8 x i64>* [[ARG:.+]])
      ; CHECK-NEXT:  bb:
      ; CHECK-NEXT:    [[TMP:.+]]= alloca <8 x i64>, align 32
      ; CHECK-NEXT:    [[TMP2:.+]]= alloca <8 x i64>, align 32
      ; CHECK-NEXT:    [[TMP3:.+]]= bitcast <8 x i64>[[TMP]] to i8*
      ; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
      ; CHECK-NEXT:    [[TMP_VAL:.+]]= load <8 x i64>, <8 x i64>* [[TMP]]
      ; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>[[TMP_VAL]])
      ; CHECK-NEXT:    [[TMP4:.+]]= load <8 x i64>, <8 x i64>* [[TMP2]], align 32
      ; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
      ; CHECK-NEXT:    ret void
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

; bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
  ; CHECK-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT:  ret void
};

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
  ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT:  ret void
};

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT:  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
  ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT:  ret void
};

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

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```c
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readable %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
```
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define <[^@]+> @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
  ; CHECK-LABEL: define <[^@]+> @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 [[X:%.*]], i32 [[Y:%.*]])
  ; CHECK-NEXT: [[C:%.*]] = add i32 [[X]], [[Y]]
  ; CHECK-NEXT: ret i32 [[C]]
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
  ; CHECK-LABEL: define <[^@]+> @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 [[B:%.*]])
  ; CHECK-NEXT: [[A:%.*]] = load i32, i32* %B
  ; CHECK-NEXT: [[B:%.*]] = load i32, i32* %X
  ; CHECK-NEXT: [[C:%.*]] = add i32 [[A]], [[B]]
  ; CHECK-NEXT: ret i32 [[C]]
}

store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define <[^@]+> @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
  ; CHECK-LABEL: define <[^@]+> @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 [[X:%.*]], i32 [[Y:%.*]])
  ; CHECK-NEXT: [[C:%.*]] = add i32 [[X]], [[Y]]
  ; CHECK-NEXT: ret i32 [[C]]
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
  ; CHECK-LABEL: define <[^@]+> @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256

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; CHECK-SAME: (i32* [[B::%.*]]))
; CHECK-NEXT:  [[A::%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL::%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:  [[B_VAL::%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:  [[C::%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define
    ({{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL::%.*]], i32 [[Y_VAL::%.*]])
; CHECK-NEXT:  [[C::%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:  ret i32 [[C]]
    ;
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define
    ({{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B::%.*]])
; CHECK-NEXT:  [[A::%.*]] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL::%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:  [[B_VAL::%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:  [[C::%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
    ;
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddw
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```c
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:        # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:   vpadd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```

```c
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:        # %bb.0:
  ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:   vpadd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
```

```c
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:        # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT:   vpavgb (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT:   vpavgb 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT:   vzeroupper
  ; CHECK-NEXT:   retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = add <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}
```
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: avg_v64i8_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
  ; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
  ; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %1 = load <64 x i8>, <64 x i8>* %a
  %2 = load <64 x i8>, <64 x i8>* %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, %4
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6, %5
  %8 = trunc <64 x i32> %7 to <64 x i8>
  store <64 x i8> %8, <64 x i8>* undef, align 4
  ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {  
; CHECK-LABEL: psubus_64i8_max_256:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0  
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%x = load <64 x i8>, <64 x i8>* %xptr  
%y = load <64 x i8>, <64 x i8>* %yptr  
%cmp = icmp ult <64 x i8> %x, %y  
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
%res = sub <64 x i8> %max, %y  
store <64 x i8> %res, <64 x i8>* %zptr  
ret void  
}  
  
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: psubus_64i8_max_512:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT: vpsubusb64 (%rsi), %zmm0, %zmm0  
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%x = load <64 x i8>, <64 x i8>* %xptr  
%y = load <64 x i8>, <64 x i8>* %yptr  
%cmp = icmp ult <64 x i8> %x, %y  
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
%res = sub <64 x i8> %max, %y  
store <64 x i8> %res, <64 x i8>* %zptr  
ret void  
}  
  
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPcS_i_256:  
; CHECK: # %bb.0: # %entry  
; CHECK-NEXT: movl %edx, %eax  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: xorl %ecx, %ecx  

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; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde...
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd \{.[#]+\} %xmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%6 = sext <32 x i8> %wide.load, <32 x i8>* %5, align 1
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%9 = sext <32 x i8> %wide.load14, <32 x i8>* %8, align 1
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i16 %16 x i32 > [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
}
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 %z, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 %z, %zmm0, %xmm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd {{.*#+}} %xmm1 = %xmm0[2,0,1]
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsbfh {{.*#}} %zmm1 = %zmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
  br label %vector.body

vector.body:

  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %1, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = add nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1
  %8 = sub nsw <16 x i32> %6, %7
  %9 = select <16 x i1> %7, %6, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:

  %rdx.shuf = shufflevector <16 x i32> %10, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3
  %bin.rdx = add <16 x i32> %10, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 7, %i32 8, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 2, %i32 3
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtqd2pd %xmm0, %ymm1
    ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT: vcvtqd2pd %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm2
    ; CHECK-NEXT: vcvtqd2pd %xmm2, %ymm3
    ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT: vcvtqd2pd %ymm2, %ymm2
    ; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT: vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm1
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
    ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrlv %k1, %zmm0
  ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vpmovaps %zmm0, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsrlv %k1, %zmm0
  ; CHECK-NEXT:  vpmovaps %zmm0, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

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define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
CHECK-NEXT:    vpmovw2m %ymm0, %k0
CHECK-NEXT:    vpmovd2m %ymm0, %zmm0
CHECK-NEXT:    vpslld $31, %zmm0, %zmm0
CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
CHECK-NEXT:    vextractabs %y, %zmm0, %ymm0
CHECK-NEXT:    vmovdqu %ymm0, %ymm0 {%k1} {z}
CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zero
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double>* %1, <16 x double>* %res
ret void
}

; CHECK-LABEL: ubto16f64_512:
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
CHECK-NEXT:    vpmovd2m %ymm1, %k0
CHECK-NEXT:    vextractabs %y, %ymm1, %ymm1
CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
CHECK-NEXT:    vpmovd2m %ymm1, %kl
CHECK-NEXT:    kunpckbw %k0, %kl, %k1
CHECK-NEXT:    vpmovdu16 %ymm0, %ymm0 {%k1} [z]
CHECK-NEXT:    retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zero
ret <16 x i16> %select
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: test_16f32toub_512:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:   cvttsd2dq (%rdi), %zmm1  
    ; CHECK-NEXT:   vpslld $31, %zmm1, %zmm1  
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1  
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
    ; CHECK-NEXT:   retq  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptoui <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}  

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: test_16f32tosb_256:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:   cvttsd2dq (%rdi), %ymm1  
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0  
    ; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1  
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k1  
    ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1  
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
    ; CHECK-NEXT:   retq  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptosi <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}  

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: test_16f32tosb_512:  
    ; CHECK:       # %bb.0:  
    ; CHECK-NEXT:   cvttsd2dq (%rdi), %zmm1  
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1  
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}  
    ; CHECK-NEXT:   retq  
    %a = load <16 x float>, <16 x float>* %ptr  
    %mask = fptosi <16 x float> %a to <16 x i1>  
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
    ret <16 x i16> %select  
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: mul256:
    ; CHECK-AVX512:  # %bb.0:
    ; CHECK-AVX512-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-AVX512-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-AVX512-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-AVX512-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-AVX512-NEXT:  vmullw %ymm4, %ymm5, %ymm4
    ; CHECK-AVX512-NEXT:  vmullw %ymm3, %ymm5, %ymm3
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-AVX512-NEXT:  vmullw %ymm3, %ymm4, %ymm3
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm1 = ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
    ; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm2 = ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
    ; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
    ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-AVX512-NEXT:  vzeroupper
    ; CHECK-AVX512-NEXT:  retq
    ;
    ; CHECK-VBMI-LABEL: mul256:
    ; CHECK-VBMI:  # %bb.0:
    ; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpand %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
  6,37,37,38,38,39,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
  6,37,37,38,38,39,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpand %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL:  mul512:
; CHECK-VBMI:     # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
  zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
  2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
  zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
  2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
  6,37,37,38,38,39,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
  6,37,37,38,38,39,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {
  ; CHECK-LABEL: mload_v4i32:
  ; CHECK:   # %bb.0:
  ; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
  ; CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
  ; CHECK-NEXT: retq
  %mask = icmp eq <4 x i32> %trigger, zeroinitializer
  %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>%addr, i32 4, <4 x i1>%mask, <4 x i32>%dst)
  ret <4 x i32>%res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64> %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i64_v16i32:
  ; CHECK:   # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT: vpmovqd %ymm0, %xmm0
  ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
  ; CHECK-NEXT: vinserti128 $1, %xmm1, %ymm0, %ymm0
  ; CHECK-NEXT: vpmovqd %ymm2, %xmm2
  ; CHECK-NEXT: vpmovqd %ymm3, %xmm3
  ; CHECK-NEXT: vinserti128 $1, %ymm2, %ymm1, %ymm1
  ; CHECK-NEXT: retq
  %a = load <16 x i64>, <16 x i64> %x
  %b = trunc <16 x i64> %a to <16 x i32>
  ret <16 x i32>%b
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64> %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i64_v16i8:
  ; CHECK:   # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT: vpmovqd %ymm0, %xmm0
  ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
  ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x  
%b = trunc <16 x i64> %a to <16 x i8>  
ret <16 x i8> %b  
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v16i32_v16i8:  
    ; CHECK:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1  
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0  
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %a = load <16 x i32>, <16 x i32>* %x  
    %b = trunc <16 x i32> %a to <16 x i8>  
    ret <16 x i8> %b  
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v8i64_v8i8:  
    ; CHECK:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1  
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0  
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %a = load <8 x i64>, <8 x i64>* %x  
    %b = trunc <8 x i64> %a to <8 x i8>  
    ret <8 x i8> %b  
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v8i64_v8i16:  
    ; CHECK:  
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
    ; CHECK-NEXT: vpmovqw %ymm1, %xmm1  
    ; CHECK-NEXT: vpmovqw %ymm0, %xmm0  
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]  
    ; CHECK-NEXT: vzeroupper  
    ; CHECK-NEXT: retq  
    %a = load <8 x i64>, <8 x i64>* %x  
    %b = trunc <8 x i64> %a to <8 x i16>  
    ret <8 x i16> %b  
}
define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT: vperm2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vperm2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpckuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermib 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>

i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: trunc_v8i64_v8i32_sign:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm0
 ; CHECK-NEXT: vpsraq $48, (%rdi), %ymm1
 ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
 ; CHECK-NEXT: vpmovqd %ymm0, %xmm0
 ; CHECK-NEXT: vinserti128 $1, %xmm0, %ymm1, %ymm0
 ; CHECK-NEXT: retq
 %a = load <8 x i64>, <8 x i64>* %x
%b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48> %c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: trunc_v16i32_v16i16_sign:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
 ; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
 ; CHECK-NEXT: vperm2w 32(%rdi), %ymm1, %ymm0
 ; CHECK-NEXT: retq
 %a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
 ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
 ; CHECK-AVX512: # %bb.0:
 ; CHECK-AVX512-NEXT: vpsraw $8, 32(%rdi), %ymm0
 ; CHECK-AVX512-NEXT: vpsraw $8, (%rdi), %ymm1
 ; CHECK-AVX512-NEXT: vpacksswb %ymm0, %ymm1, %ymm0
 ; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
 ; CHECK-AVX512-NEXT: retq
 ;
 ; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
 ; CHECK-VBMI: # %bb.0:
 ; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
 ; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8> %c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:    # %bb.0:
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT:    vpmovzvqw {{.*#+}} ymm2 =
xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT:    vpmovzvqw {{.*#+}} ymm3 =
xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:    vpmovzvqw {{.*#+}} ymm1 =
xmm1[0],zero,zero,xmm1[1],zero,zero,xmm1[2],zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:    vpmovzvbw {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:    # %bb.0:
; CHECK-NEXT:    vpmovzxbw %xmm0, (%rdi)
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpmovzvqw %xmm1, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT:    vpmovzvqw %ymm3, %xmm3
; CHECK-NEXT:    vpmovzvbq {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:  vpcmpeqw %xmm1, %xmm0, %k1
    ; CHECK-NEXT:  kshiftrb $4, %k1, %k2
    ; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i16> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
    ret void
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i32_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:  vpcmpeqd %ymm1, %ymm0, %k1
    ; CHECK-NEXT:  kshiftrb $4, %k1, %k2
    ; CHECK-NEXT:  vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i32> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
    ret void
}
define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
: CHECK-LABEL: vselect_split_v16i8_setcc:
: CHECK: # %bb.0:
: CHECK-NEXT: vmovdqa (%rsi), %ymm2
: CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
: CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
: CHECK-NEXT: kshiftrw $8, %k1, %k2
: CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
: CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
: CHECK-NEXT: vmovdqa %ymm2, (%rdx)
: CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
: CHECK-NEXT: vzeroupper
: CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
: CHECK-LABEL: vselect_split_v16i16_setcc:
: CHECK: # %bb.0:
: CHECK-NEXT: vmovdqa (%rsi), %ymm2
: CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
: CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
: CHECK-NEXT: kshiftrw $8, %k1, %k2
: CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
: CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
: CHECK-NEXT: vmovdqa %ymm2, (%rdx)
: CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
: CHECK-NEXT: vzeroupper
: CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vpermq {{.*#+}} %ymm0 = %ymm0[0,2,1,3]
  ; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %a = load <16 x i32>, <16 x i32>* %p
  %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
  %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a
  %d = icmp sgt <16 x i32> %c, zeroinitializer
  %e = select <16 x i1> %d, <16 x i32> %c, %c
  %f = trunc <16 x i32> %e to <16 x i8>
  ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vpermq {{.*#+}} %ymm0 = %ymm0[0,2,1,3]
  ; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %a = load <16 x i32>, <16 x i32>* %p
  %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
  %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a
  %d = icmp sgt <16 x i32> %c, zeroinitializer
  %e = select <16 x i1> %d, <16 x i32> %c, %c
  %f = trunc <16 x i32> %e to <16 x i8>
  store <16 x i8> %f, <16 x i8>* %q
  ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
  %a = load <16 x i32>, <16 x i32>* %p
  %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
  %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a
  %d = icmp sgt <16 x i32> %c, zeroinitializer
  %e = select <16 x i1> %d, <16 x i32> %c, %c
  %f = trunc <16 x i32> %e to <16 x i8>
  store <16 x i8> %f, <16 x i8>* %q
  ret void
}
define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftr $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftr $3, %k0, %k2
; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $61, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftr $2, %k0, %k2
; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $60, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftr $5, %k0, %k2
; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftr $4, %k0, %k2
; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
}
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $7, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $57, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $6, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $56, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $53, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $10, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $.-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $26, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $.-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftr $29, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $.-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $28, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $.-1073741825, %rax # imm = 0xCFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $31, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $33, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movabsq $.-2147483649, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftrd $30, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0, %k0
; CHECK-NEXT:    korq %k0, %k2, %k0
; CHECK-NEXT:    movabsq $.-4294967297, %rax # imm = 0xAFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftr $1, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $.-8589934593, %rax # imm = 0x9FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0

; CHECK-NEXT:  kshiftrd $9, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2199023255553, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $8, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $22, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4398046511105, %rax # imm = 0xFFFFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $11, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $21, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8796093022209, %rax # imm = 0xFFFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $10, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $20, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $13, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $19, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $12, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $18, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $15, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $17, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2

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entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
  call void @llvm.masked.store.v64i8%p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 %shuf)
  ret void
}
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 asm """,""=k,k,~-{dirflag},-{fpsr},-{flags}""(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %y.ptr, <8 x i64>* %z.ptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: cmp_v8i64_sext:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <8 x i64>, <8 x i64>* %xptr
  %y = load <8 x i64>, <8 x i64>* %y.ptr
  %cmp = icmp slt <8 x i64> %x, %y
  %ext = sext <8 x i1> %cmp to <8 x i64>
  store <8 x i64>* %ext, <8 x i64>* %z.ptr
  ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %y.ptr, <8 x i64>* %z.ptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: cmp_v8i64_zext:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
  ; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
  ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %x = load <8 x i64>, <8 x i64>* %xptr
  %y = load <8 x i64>, <8 x i64>* %y.ptr
  %cmp = icmp slt <8 x i64> %x, %y
  %ext = zext <8 x i1> %cmp to <8 x i64>
  store <8 x i64>* %ext, <8 x i64>* %z.ptr
  ret void
}
define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpsubb %xmm1, %xmm2, %xmm2
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm0 =
    ; CHECK-NEXT:    vpmovwb %ymm0, %xmm0
    ; CHECK-NEXT:    vzeroupper
    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    %shl = shl <16 x i8> %a, %b
    %lshr = lshr <16 x i8> %a, %b8
    %or = or <16 x i8> %shl, %lshr
    ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v32i8:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT:    vpsllw %ymm1, %ymm0, %ymm1
    ; CHECK-NEXT:    vpmovzxbw {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT:    vpmovwb %ymm0, %ymm0
    ; CHECK-NEXT:    vzeroupper
    %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    %shl = shl <32 x i8> %a, %b
    %lshr = lshr <32 x i8> %a, %b8
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatvar_rotate_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpbroadcastb %xmm1, %xmm1
    ; CHECK-NEXT:    vpmovzxbq {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} xmm2 = xmm1[0],zero,zero,zero,zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT:    vpsllw %xmm2, %xmm4, %xmm1
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpcmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-NEXT:    vpsllw %xmm2, %xmm4, %xmm2
    ; CHECK-NEXT:    vpbroadcastb %xmm2, %ymm2
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} xmm1 = xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-NEXT:    vpsrlw %xmm1, %ymm0, %ymm5
    ; CHECK-NEXT:    vpand %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:    vpsrlw %xmm0, %xmm0
    ; CHECK-NEXT:    vpmovzxbq {{.*#+}} %ymm0 = ymm0
    ; CHECK-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
    ; CHECK-NEXT:    retq
    %splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
    %splat8 = sub <32 x i8> %splat
    %shl = shl <32 x i8> %a, %splat
    %lshr = lshr <32 x i8> %a, %b
    %or = or <32 x i8> %shl, %lshr
    ret <32 x i8> %or
}

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: constant_rotate_v32i8:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT:    vpsllw %4, %ymm0, %ymm1
    ; CHECK-AVX512-NEXT:    vpand {{.*}}(%rip), %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:    vbroadcasti128 {{.*#+}} ymm2 =
CHECK-AVX512-NEXT:    # ymm2 = mem[0,1,0,1]
CHECK-AVX512-NEXT:    vblendvb %ymm2, %ymm1, %ymm0, %ymm1
CHECK-AVX512-NEXT:    vpsslw $2, %ymm1, %ymm3
CHECK-AVX512-NEXT:    vpand {%.v}%rip, %ymm3, %ymm3
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm1, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpaddb %ymm1, %ymm1, %ymm3
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm1, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpaddb %ymm1, %ymm1, %ymm3
CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:    vpxor %xmm2, %xmm2, %xmm2
CHECK-AVX512-NEXT:    vpunpckhbw {%.v}%+ ymm3 = ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13], ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
CHECK-AVX512-NEXT:    vpsslw {%.v}%+ rip, %ymm3, %ymm3
CHECK-AVX512-NEXT:    vpsslw S8, %ymm3, %ymm3
CHECK-AVX512-NEXT:    vpunpckdwb {%.v}%+ ymm0 = ymm0[0], ymm2[0], ymm0[1], ymm2[1], ymm0[2], ymm2[2], ymm0[3], ymm2[3], ymm0[4], ymm2[4], ymm0[5], ymm2[5], ymm0[6], ymm2[6], ymm0[7], ymm2[7], ymm0[16], ymm2[16], ymm0[17], ymm2[17], ymm0[18], ymm2[18], ymm0[19], ymm2[19], ymm0[20], ymm2[20], ymm0[21], ymm2[21], ymm0[22], ymm2[22], ymm0[23], ymm2[23]
CHECK-AVX512-NEXT:    vpsllw {%.v}%+ rip, %ymm0, %ymm0
CHECK-AVX512-NEXT:    vpsrlw S8, %ymm0, %ymm0
CHECK-AVX512-NEXT:    vpckuswb %ymm3, %ymm0, %ymm0
CHECK-AVX512-NEXT:    vpor %ymm0, %ymm1, %ymm0
CHECK-AVX512-NEXT:    retq
;
CHECK-VBMI-LABEL: constant_rotate_v32i8:
CHECK-VBMI:    # %bb.0:
CHECK-VBMI-NEXT:    vpsslw $4, %ymm0, %ymm1
CHECK-VBMI-NEXT:    vpand {%.v}%rip, %ymm1, %ymm1
CHECK-VBMI-NEXT:    vbroadcasti128 {%.v}%+ ymm2 = [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
CHECK-VBMI-NEXT:    vpsslw {%.v}%+ rip, %ymm0, %ymm1
CHECK-VBMI-NEXT:    vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
CHECK-VBMI-NEXT:    vpsslw S2, %ymm1, %ymm3
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm2, %ymm3, %ymm1
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm2, %ymm3, %ymm1
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm1, %ymm2, %ymm2
CHECK-VBMI-NEXT:    vpxor %xmm2, %xmm2, %xmm2
CHECK-VBMI-NEXT:    vpunpckhbw {%.v}%+ ymm3 = ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13], ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
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Arne Beer <arne@twobeer.de>
Billy Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
Cyrille Faucheux <cyrille.faucheux@gmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Federico Ficarelli <federico.ficarelli@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <jooppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
target triple = "hexagon"

%!struct.0 = typet i8*, i8, %union.anon.0
%!union.anon.0 = typet i8*

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ] switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
sw.bb.i:  ; preds = %while.body
unreachable

sw.bb3.i:  ; preds = %while.body
unreachable

exit:  ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17:  ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:  ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:  ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end:  ; preds = %entry
ret void
]

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT.CGSCC_NPM,NOT.CGSCC_OPM,NOT_TUNI_T_NPM,IS__TUNIT____,IS________OPM,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT.CGSCC_OPM,NOT.CGSCC_NPM,NOT_TUNI_T_OPM,IS__TUNIT____,IS________NP,M,IS__TUNIT_NPM
; RUN: opt -attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNI_T_NPM,NOT_TUNI_T_OPM,NOT.CGSCC_NPM,IS__CGSCC____,IS________OPM,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNI_T_NPM,NOT_TUNI_T_OPM,NOT.CGSCC_OPM,IS__CGSCC____,IS________NP
M.IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
  
  ; NOT_TUNIT_NPM-LABEL: define
[input@]+ @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:  ret void

; IS__TUNIT_NPM-LABEL: define
[input@]+ @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  
  ; IS__TUNIT_OPM-LABEL: define [{[^@]+}] @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP2]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]
: IS__UNIT_OPM-NEXT:    [[TMP4:*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__UNIT_OPM-NEXT:    ret void
;
: IS__UNIT_NPM-LABEL: define {[^@]+}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:*]])
: IS__UNIT_NPM-NEXT:    bb:
: IS__UNIT_NPM-NEXT:    [[TMP:*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:    [[TMP2:*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:    [[TMP3:*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__UNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, 1 false)
: IS__UNIT_NPM-NEXT:    [[TMP0:*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
: IS__UNIT_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
: IS__UNIT_NPM-NEXT:    [[TMP4:*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__UNIT_NPM-NEXT:    ret void
;
: IS__CGSCC_OPM-LABEL: define {[^@]+}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:*]])
: IS__CGSCC_OPM-NEXT:    bb:
: IS__CGSCC_OPM-NEXT:    [[TMP:*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:    [[TMP2:*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:    [[TMP3:*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, 1 false)
: IS__CGSCC_OPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
: IS__CGSCC_OPM-NEXT:    [[TMP4:*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__CGSCC_OPM-NEXT:    ret void
;
: IS__CGSCC_NPM-LABEL: define {[^@]+}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
: IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:*]])
: IS__CGSCC_NPM-NEXT:    bb:
: IS__CGSCC_NPM-NEXT:    [[TMP:*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:    [[TMP2:*]] = alloca <8 x i64>, align 32
: IS__CGSCC_NPM-NEXT:    [[TMP3:*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, 1 false)
: IS__CGSCC_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nontree nonnull readonly align 64 dereferenceable(64) [[TMP]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

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define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ;
  ; IS__TUNIT_OPM-LABEL: define [([^@]+)] @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [@ARG:%.*])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT: [[TMP:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_OPM-NEXT: ret void

  ; IS__TUNIT_NPM-LABEL: define [([^@]+)] @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [@ARG:%.*])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_NPM-NEXT: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
  ; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
  ; IS__TUNIT_NPM-NEXT: [[TMP:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_NPM-NEXT: ret void

  ; IS__CGSCC_OPM-LABEL: define [([^@]+)] @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly [@ARG:%.*])
  ; IS__CGSCC_OPM-NEXT: bb:
  ; IS__CGSCC_OPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
  ; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]])
  ; IS__CGSCC_OPM-NEXT: [[TMP:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__CGSCC_OPM-NEXT: ret void

  ; IS__CGSCC_OPM-LABEL: define [([^@]+)] @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [@ARG:.%.*])
  ; IS__CGSCC_OPM-NEXT: bb:
  ; IS__CGSCC_OPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
  ; IS__CGSCC_OPM-NEXT: [[TMP:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2


; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloc<8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloc<8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast<8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nonfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nonfree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load<8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store<8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloc<8 x i64>, align 32
%tmp2 = alloc<8 x i64>, align 32
%tmp3 = bitcast<8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load<8 x i64>, <8 x i64>* %tmp2, align 32
store<8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load<8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store<8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__UNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__UNIT_NPM-NEXT: bb:
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg)
  ret void
}

define fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) {
  bb:  
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
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...
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg1) #1 {
    ; IS__TUNIT_NPM-SAME: define (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
    [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT: ret void
    ;
    ; IS__TUNIT_NPM-SAME: define (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
    [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_NPM-NEXT: ret void
    ;
    bb:
    ;
    ;
    ;
    ;
    } define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avcallex512_legal512_prefer256_call_avx512_legal512_prefer512
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_OPM-NEXT: call fastcc void
    ;
    ;
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    ;
    ;
    } define void @avcallex512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
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```c
i64* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; NOT_TUNIT_NPM-LABEL: define
    {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT: ret void
    ;
    ; IS_TUNIT_NPM-LABEL: define
    {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; IS_TUNIT_NPM-NEXT: bb:
    ; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS_TUNIT_NPM-NEXT: ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ;
    ; IS_TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS_TUNIT_OPM-NEXT: bb:
    ; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS_TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
```
; IS__CGSCC_NPM-NEXT:    [[TMP4:.+]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readily %arg1) #2 {
    %arg = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %arg, <8 x i64>* %arg1
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    %arg = load <8 x i64>, <8 x i64>* %arg
    %arg = load <8 x i64>, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    %arg = load <8 x i64>, <8 x i64>* %arg
    %arg = load <8 x i64>, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    %arg = load <8 x i64>, <8 x i64>* %arg
    %arg = load <8 x i64>, <8 x i64>* %arg
    ret void
}
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {

bb:  
%tmp = allocas <8 x i64>, align 32  
%tmp2 = allocas <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void

};
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
: Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
  entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
    metadata !"fpexcept.strict")
    strictfp
  ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,SKX512

define void @zext256() "min-legal-vector-width"="256" { 
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%; A = zext <8 x i16> undef to <8 x i64>
% B = zext <8 x i32> undef to <8 x i64>
% C = zext <16 x i8> undef to <16 x i32>
% D = zext <16 x i16> undef to <16 x i32>
% E = zext <32 x i8> undef to <32 x i16>
ret void

} define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
define void @sext512() "min-legal-vector-width"="512" {   
   AVX-LABEL: 'sext512'
   AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
   AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
   AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
   AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
   AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
   AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
   AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

   %A = sext <8 x i8> undef to <8 x i64>
   %B = sext <8 x i16> undef to <8 x i64>
   %C = sext <8 x i32> undef to <8 x i64>
   %D = sext <16 x i8> undef to <16 x i32>
   %E = sext <16 x i16> undef to <16 x i32>
   %F = sext <32 x i8> undef to <32 x i16>
   ret void
}
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void }

define void @trunc256() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc256'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; AVX512VL256-LABEL: 'trunc256'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; AVX512VL512-LABEL: 'trunc256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX256-LABEL: 'trunc256'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'zext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
undef to <16 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL512-LABEL: 'zext256_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef 

SKX256-LABEL: 'zext256_vXi1'
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef 

SKX512-LABEL: 'zext256_vXi1'
%V4i16 = zext <4 x i1> undef to <4 x i16>
%V8i16 = zext <8 x i1> undef to <8 x i16>
%V16i16 = zext <16 x i1> undef to <16 x i16>
%V32i16 = zext <32 x i1> undef to <32 x i16>

%V2i8 = zext <2 x i1> undef to <2 x i8>
%V4i8 = zext <4 x i1> undef to <4 x i8>
%V8i8 = zext <8 x i1> undef to <8 x i8>
%V16i8 = zext <16 x i1> undef to <16 x i8>
%V32i8 = zext <32 x i1> undef to <32 x i8>
%V64i8 = zext <64 x i1> undef to <64 x i8>

ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'sext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
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; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef
to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef
to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef
to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef
to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef
to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef
to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef
to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef
to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef
to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef
to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef
to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef
to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>
%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>
%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>

%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>

ret i32 undef
}
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
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AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>

AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

AVX512VL256-LABEL: 'trunc_vXi1'

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
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1.2068 jackson-databind 2.11.2

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1.2070 jmte 4.0.0

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1.2071 jaxb-api-osgi-sources 2.2

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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/java/XML/annotation/W3CDomHandler.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/java/XML/annotation/XmlMixed.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/java/XML/annotation/XmlSchemaTypes.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/java/XML/annotation/XmlMimeType.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/java/XML/annotation/XmlAccessorType.java
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* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
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* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlElementRef.java
* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAttribute.java
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* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/UnmarshallerHandler.java
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* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/NotIdentifiableEvent.java
* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/ValidationEventCollector.java
* /opt/cola/permits/1126582920_1611721903.70/jaxb-api-2-2-sources-jar/javax/xml/bind/ValidationEventImpl.java
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1.2090 xorg-x11-proto-devel 2018.4 1.el7
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Written by:        Zoltan Herczeg
Email local part:  hzmester
Email domain:      freemail.hu

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1.2095 jboss-logmanager 1.5.1.Final-redhat-1

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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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END OF TERMS AND CONDITIONS

1.2103 perl-filter 1.49-3.el7

1.2103.1 Available under license:
No license file was found, but licenses were detected in source scan.

Source Filters

Version 1.49

2013-04-01 rurban

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DESCRIPTION

This distribution consists of a number of Source Filters.

For more details see the pod documentation embedded in the .pm files.

If you intend using the Filter::Util::Call functionality, I would strongly recommend that you check out Damian Conway's excellent Filter::Simple
module. Damian's module provides a much cleaner interface than Filter::Util::Call. Although it doesn't allow the fine control that Filter::Util::Call does, it should be adequate for the majority of applications. It's available at

http://search.cpan.org/dist/Filter-Simple/

PREREQUISITES
----------

Before you can build the Source Filters you need to have the following installed on your system:

* Perl 5.005 or better. 5.6.0 or better is recommended for Win32.

If your Perl is less than version 5.004_55, the "order" test harness will be skipped.

BUILDING THE MODULES
------------------------

Assuming you have met all the prerequisites, building the modules should be relatively straightforward.

The modules can now be built using this sequence of commands:

perl Makefile.PL
  make
  make test

The filters have been successfully built and tested on the following systems (at least):

  linux (gcc or clang)
  cygwin 1.7
  mingw strawberry 5.14
  SunOS 4.1.3 (Sun C compiler & gcc 2.7.2.3)
  Solaris 2.3 (Sun C Compiler)
  irix 5.3
  irix 6.x
  Windows XP (Visual C++ 6.0)

On Windows tr.exe and cpp.exe should be really the gnu/mingw tools in the path for the testsuite to pass successfully.

INSTALLATION
----------
make install

UPDATES
-------

The most recent version of the Filters is always available at

http://www.cpan.org/modules/by-module/Filter

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GSM1w/Filter-1.49/README
No license file was found, but licenses were detected in source scan.

/*
 * Filename : Call.xs
 *
 * Author   : Paul Marquess
 * Date     : 2013-03-29 09:04:42 rurban
 * Version  : 1.49
 *
 * Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 *
 */

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GSM1w/Filter-1.49/Call/Call.xs
No license file was found, but licenses were detected in source scan.

/*
------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.16

Automatically created by Devel::PPPort running under perl 5.011000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

------------------------------------------------------------

SKIP
=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.16

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.
=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.
=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<-unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.
DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether your module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpfv()</td>
<td>NEED_vnewSVpfv</td>
<td>NEED_vnewSVpfv_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C+#define> the macro before including C<ppport.h>:

    #define DPPP_NAMESPACE MyOwnNamespace_
    #include "ppport.h"

The default namespace is C<DPPP_>.
The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl pppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl pppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl pppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl pppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl pppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl pppport.h --api-info=newSVpvn
Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 } 

my $VERSION = 3.16;

my %opt = (  
    quiet => 0,  
    diag  => 1,  
    hints => 1,  
    changes => 1,  
    cplusplus => 0,  
    filter => 1,  
    strip  => 0,  
    version => 0,  
);

my($ppport) = $0 =~ /\w.+/;  
my $LF = '(?:\r\n|[^\r\n])';  
my $HS = '[ \t]';  
my $ccs = quotemeta $ccs;  
my $rcce = quotemeta $cce;

# Never use C comments in this file!
my $sccs = '\.';  
my $sce  = '\*';  
my $srccs = quotemeta $sccs;  
my $srcce = quotemeta $sce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(%opt, qw(
  help quiet diag! hints! changes! cplusplus strip version
  patch=s copy=s diff=s compat-version=s
  list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/i, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: $opt{'compat-version'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|([^[|]*)\|([^[|]*)\|([^]*.*)$/
  ? ( $1 => { ($2                  ? ( base     => $2 ) : ()),
            ($3                  ? ( todo     => $3 ) : ()),
            (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
            (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
            (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
      ) )
    : die "invalid spec: $_" } qw(
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if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", "."x(40-length($f)), " ", format_version($API{$f}{todo}), ".un";
  }
  exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {

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my @n = find_api($function->[1]);
push @{$depends[$function->[0]]}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ""] if m{^DPPP_\(my_\(_w+\))};

$replace = $1 if m{^\s*$rccs/s+Replace:\d+/\d+/s+$rcce\s*$};
$replace{$2} = $1 if @replace and m{^\s*$rccs/s+\w+\+\w+/\w+/s+$rcce\s*$};
$replace{$1} = $2 if m{^\s*$rccs/s+Replace \w+\+\w+/\w+/s+$rcce\s*$};

if (m{^\s*$rccs/s+(\w+\+\w+)\+\w+/\w+/\w+/s+$rcce\s*$}) {
my @deps = map { s/\s+/\s+; S_ } split ",", $3;
my $d;
for $d (map { s/\s+/\s+; S_ } split ",", $1) {
push @{$depends{$d}}, @deps;
}
}

$need{$1} = 1 if m{^\s*$rccs/s+\w+/\w+/\w+/\w+/s+$rcce\s*$};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$opt{'api-info'}\E$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n=== $f ===\n
";
if ($API{$f}{base} || $API{$f}{todo}) {
my $base = format_version($API{$f}{base} || $API{$f}{todo});
print "Supported at least starting from perl-$base.\n";
$count++;
}
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
}
print "Support by $ppport provided back to perl-$todo:\n";
print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
print "Depends on: ", join(',', @{$depends{$f}}), ":\n" if exists $depends{$f};
print "\nHints: $hints{$f}" if exists $hints{$f};
print "\nWarnings: $warnings{$f}" if exists $warnings{$f};
$info++;}
print "No portability information available:\n" unless $info;
$count++;}
$count or print "Found no API matching '$opt{'api-info'}'.\n";
print "\n";
exit 0;}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend' if exists $depends{$f};
    push @flags, 'hint' if exists $hints{$f};
    push @flags, 'warning' if exists $warnings{$f};
    my $flags = @flags ? ' [' . join(',', @flags) . '] : ";
    print "$f$flags\n";
} exit 0;}
my @files;
my @srcext = qw(.xs .c .h .cc -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;;
            } else { warn "$_" is not a file;\n" }
        } else {
            my @new = grep { -f } glob $_
            or warn "$_ does not exist;\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
}
# Temporarily remove C/XS comments and strings from the code

my @ccom;

$s = s{
    /
    ( ^\S*\#\S*\*\{include\[^\r\n]*\b(?:\Q$ppport\E|XSUB\.h)\[^\r\n]*
        | ^\S*\#\S*(?:define|elif|if(?:def)?)\[^\r\n]*
        | ( ^\S*\#\S*[\^\r\n]*)'
        | [\^\r\n]*
        | / (?: \*[^\*]*\*+(?:[^$ccs]\[^\*]*\*+)* / | /[^\r\n]*) (?:[^\r\n]*)
    )
}i

my $func;
for $func (keys %API) {
    my $match = $func;
    $match .= "\$revreplace{$func}" if exists $revreplace{$func};
    "$c =~ /\S*\#\S*\*\{include\[^\r\n]*\b$ppport\}\b/m" {
        $file{uses_replace}{$func}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /Perl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                for (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
            for ($func, @deps) {
                $file{needs}{$_} = 'static' if exists $need{$_};
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
            $file{uses_todo}{$func}++;
        }
    }
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}

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{ $1 . ($2 eq '?aTHX' ? 'aTHX_' : 'aTHX_') . $2 }ge);

if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
}
}

else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\($s*\)\((\s*aTHX_?)?\s*} {$func$1(}g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(\'\,\, ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with \'$ppport\'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne \'static\') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {

diag($message);
$file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = "",
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m))
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = "",
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "\#define NEED_$func$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/$pp/m)) {
    $pp = "",
    $file{changes}++;
  }
}
unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp := qd(#include "$ppport"
    )
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*$HS*define$HS+NEED_\w+.*$)+/$1$pp/ms)
        || ($c =~ s/\(?=$HS*\$HS*include.*$Q$ppport\E)/$Sp$/m)
        || ($c =~ s/^($HS*$HS*include.*XSUB.*s.*)$+/S$ppp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? "$warnings warning$s" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        }
    }
}
else {
    local *F;
    if (open F, "$newfile") {
        info("Writing copy of $filename with changes to $newfile");
        print F $c;
        close F;
    }
    else {
        error("Cannot open $newfile for writing: $!");
    }
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, "$opt{patch}") {
                $patch_opened = 1;
            }
            else {
                error("Cannot open $opt{patch} for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}

close PATCH if $patch_opened;
exit 0;
sub try_use { eval "use @_; return @$_" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff})
    {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff'))
    {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff)
    {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff)
    {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff)
    {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    eval "use Text::Diff;
    my($file, $str) = @_;
    my $diff = run_diff("$prog", "$file", "$str");
    "$file"
    "$file.patched"
    "$diff"
";

    if (!defined $diff)
    {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff)
    {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff)
    {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}
if (open F, ">$tmp") {
print F $str;
close F;
if (open F, "$prog $file $tmp |") {
while (<F>) {
s/\Q$tmp\E/$file.patched/;
$diff .= $_;
}
close F;
unlink $tmp;
return $diff;
}
unlink $tmp;
}
else {
error("Cannot open '$tmp' for writing: $!");
}
return undef;
}
sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}
sub parse_version
{
my $ver = shift;
if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {
die "cannot parse version '$ver'\n";
}
$ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

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$v = \text{int } \$v;
\$s = \text{int } \$s;

\text{if} (\$r < 5 \text{ or } (\$r == 5 \&\& \$v < 6)) \{ 
\text{if} (\$s \% 10) \{ 
\text{die } \text{"cannot parse version }'\$\text{ver}\text{"}; 
\}
\}

\text{return} (\$r, \$v, \$s);
\}

\text{sub format_version}
\{
\text{my } \$\text{ver} = \text{shift}; 

\$\text{ver} =~ s/\$/000000/; 
\text{my}(\$r,\$v,\$s) = \$\text{ver} =~ /(.\d+)(\d(3))(\d{3})/;

\$v = \text{int } \$v;
\$s = \text{int } \$s;

\text{if} (\$r < 5 \text{ or } (\$r == 5 \&\& \$v < 6)) \{ 
\text{if} (\$s \% 10) \{ 
\text{die } \text{"invalid version }'\$\text{ver}\text{"};
\}
\$s /= 10;

\$\text{ver} = \text{sprintf } "%d.%s03d", \$r, \$v;
\$s > 0 \text{ and } \$\text{ver} \text{.= } \text{sprintf } "%d.%s02d", \$s;

\text{return } \$\text{ver};
\}

\text{return} \text{sprintf } "%d.%d.%d", \$r, \$v, \$s;
\}

\text{sub info}
\{
\text{\$opt{quiet} and return; 
\text{print @_. "\n"};
\}

\text{sub diag}
\{
\text{\$opt{quiet} and return; 
\text{\$opt{diag} and print @_. "\n"; 
\}
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

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exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";
exit 0;

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Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GsMIw/Filter-1.49/Call/ppport.h
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/perl-Filter.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Source Filters'
author:
  - 'Paul Marquess <pmqs@cpan.org>'
builtrequires:
  - ExtUtils::MakeMaker: 0
configure_requires:
  - ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120630'
license: perl
metaspec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Filter
no_index:
directory:
  - t
  - inc
recommends:
  - Filter::Simple: 0.88
  - Filter::Simple::Compile: 0.02
requires: {}
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rurban/Filter
  version: 1.49

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GsMIw/Filter-1.49/META.yml
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-
qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GsMIw/Filter-1.49/Call/Call.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlfilter - Source Filters

=head1 DESCRIPTION

This article is about a little-known feature of Perl called
I<source filters>. Source filters alter the program text of a module
before Perl sees it, much as a C preprocessor alters the source text of
a C program before the compiler sees it. This article tells you more
about what source filters are, how they work, and how to write your
own.

The original purpose of source filters was to let you encrypt your
program source to prevent casual piracy. This isn't all they can do, as
you'll soon learn. But first, the basics.

=head1 CONCEPTS

Before the Perl interpreter can execute a Perl script, it must first
read it from a file into memory for parsing and compilation. If that
script itself includes other scripts with a C<use> or C<require>
statement, then each of those scripts will have to be read from their
respective files as well.

Now think of each logical connection between the Perl parser and an
individual file as a I<source stream>. A source stream is created when
the Perl parser opens a file, it continues to exist as the source code
is read into memory, and it is destroyed when Perl is finished parsing
the file. If the parser encounters a C<require> or C<use> statement in
a source stream, a new and distinct stream is created just for that
file.

The diagram below represents a single source stream, with the flow of
source from a Perl script file on the left into the Perl parser on the
right. This is how Perl normally operates.
There are two important points to remember:

=over 5

=item 1.

Although there can be any number of source streams in existence at any
given time, only one will be active.

=item 2.

Every source stream is associated with only one file.

A source filter is a special kind of Perl module that intercepts and
modified a source stream before it reaches the parser. A source filter
changes our diagram like this:

file ----> filter ----> parser

If that doesn't make much sense, consider the analogy of a command
pipeline. Say you have a shell script stored in the compressed file
I<trial.gz>. The simple pipeline command below runs the script without
needing to create a temporary file to hold the uncompressed file.

gunzip -c trial.gz | sh

In this case, the data flow from the pipeline can be represented as follows:

trial.gz ----> gunzip ----> sh

With source filters, you can store the text of your script compressed and use a source filter to uncompress it for
Perl's parser:

compressed           gunzip
Perl program ---> source filter ---> parser

=head1 USING FILTERS

So how do you use a source filter in a Perl script? Above, I said that
a source filter is just a special kind of module. Like all Perl
modules, a source filter is invoked with a use statement.

Say you want to pass your Perl source through the C preprocessor before
execution. As it happens, the source filters distribution comes with a C
preprocessor filter module called Filter::cpp.

Below is an example program, C<cpp_test>, which makes use of this filter. Line numbers have been added to allow specific lines to be referenced easily.

```
1: use Filter::cpp;
2: #define TRUE 1
3: $a = TRUE;
4: print "a = $a\n";
```

When you execute this script, Perl creates a source stream for the file. Before the parser processes any of the lines from the file, the source stream looks like this:

```
cpp_test ---------> parser
```

Line 1, C<use Filter::cpp>, includes and installs the C<cpp> filter module. All source filters work this way. The use statement is compiled and executed at compile time, before any more of the file is read, and it attaches the cpp filter to the source stream behind the scenes. Now the data flow looks like this:

```
cpp_test ----> cpp filter ----> parser
```

As the parser reads the second and subsequent lines from the source stream, it feeds those lines through the C<cpp> source filter before processing them. The C<cpp> filter simply passes each line through the real C preprocessor. The output from the C preprocessor is then inserted back into the source stream by the filter.

```
use Filter::cpp;
$a = 1;
print "a = $a\n";
```

The parser then sees the following code:

```
use Filter::cpp;
$a = 1;
print "a = $a\n";
```

Let’s consider what happens when the filtered code includes another module with use:

```
1: use Filter::cpp;
2: #define TRUE 1
```
3: use Fred;
4: $a = TRUE;
5: print "a = $a\n";

The C<cpp> filter does not apply to the text of the Fred module, only to the text of the file that used it (C<cpp_test>). Although the use statement on line 3 will pass through the cpp filter, the module that gets included (C<Fred>) will not. The source streams look like this after line 3 has been parsed and before line 4 is parsed:

cpp_test ---> cpp filter ---> parser (INACTIVE)

Fred.pm ----> parser

As you can see, a new stream has been created for reading the source from C<Fred.pm>. This stream will remain active until all of C<Fred.pm> has been parsed. The source stream for C<cpp_test> will still exist, but is inactive. Once the parser has finished reading Fred.pm, the source stream associated with it will be destroyed. The source stream for C<cpp_test> then becomes active again and the parser reads line 4 and subsequent lines from C<cpp_test>.

You can use more than one source filter on a single file. Similarly, you can reuse the same filter in as many files as you like.

For example, if you have a uuencoded and compressed source file, it is possible to stack a uudecode filter and an uncompression filter like this:

use Filter::uudecode; use Filter::uncompress;
M'XL(\".H<US4''V9LF%L')Q;>7/;1I_:>_I3=&E=%:F*1"T?22Q/ M6\]9*<IQCO*XFT"0[PL%`Y+IG?WN^ZYN-$J[,]JE$,.20/?K=_[]>...

Once the first line has been processed, the flow will look like this:

file ---> uudecode ---> uncompress ---> parser
filter        filter

Data flows through filters in the same order they appear in the source file. The uudecode filter appeared before the uncompress filter, so the source file will be uuencoded before it's uncompressed.

=head1 WRITING A SOURCE FILTER

There are three ways to write your own source filter. You can write it in C, use an external program as a filter, or write the filter in Perl. I won't cover the first two in any great detail, so I'll get them out
of the way first. Writing the filter in Perl is most convenient, so I'll devote the most space to it.

=head1 WRITING A SOURCE FILTER IN C

The first of the three available techniques is to write the filter completely in C. The external module you create interfaces directly with the source filter hooks provided by Perl.

The advantage of this technique is that you have complete control over the implementation of your filter. The big disadvantage is the increased complexity required to write the filter - not only do you need to understand the source filter hooks, but you also need a reasonable knowledge of Perl guts. One of the few times it is worth going to this trouble is when writing a source scrambler. The C decrypt filter (which unscrambles the source before Perl parses it) included with the source filter distribution is an example of a C source filter (see Decryption Filters, below).

=item B<Decryption Filters>

All decryption filters work on the principle of "security through obscurity." Regardless of how well you write a decryption filter and how strong your encryption algorithm is, anyone determined enough can retrieve the original source code. The reason is quite simple - once the decryption filter has decrypted the source back to its original form, fragments of it will be stored in the computer's memory as Perl parses it. The source might only be in memory for a short period of time, but anyone possessing a debugger, skill, and lots of patience can eventually reconstruct your program.

That said, there are a number of steps that can be taken to make life difficult for the potential cracker. The most important: Write your decryption filter in C and statically link the decryption module into the Perl binary. For further tips to make life difficult for the potential cracker, see the file I decrypt.pm in the source filters distribution.

=back

=head1 CREATING A SOURCE FILTER AS A SEPARATE EXECUTABLE

An alternative to writing the filter in C is to create a separate executable in the language of your choice. The separate executable reads from standard input, does whatever processing is necessary, and
writes the filtered data to standard output. C<Filter::cpp> is an example of a source filter implemented as a separate executable - the executable is the C preprocessor bundled with your C compiler.

The source filter distribution includes two modules that simplify this task: C<Filter::exec> and C<Filter::sh>. Both allow you to run any external executable. Both use a coprocess to control the flow of data into and out of the external executable. (For details on coprocesses, see Stephens, W.R., "Advanced Programming in the UNIX Environment." Addison-Wesley, ISBN 0-210-56317-7, pages 441-445.) The difference between them is that C<Filter::exec> spawns the external command directly, while C<Filter::sh> spawns a shell to execute the external command. (Unix uses the Bourne shell; NT uses the cmd shell.) Spawning a shell allows you to make use of the shell metacharacters and redirection facilities.

Here is an example script that uses C<Filter::sh>:

```perl
use Filter::sh 'tr XYZ PQR';
$a = 1;
print "XYZ a = $a\n";
```

The output you'll get when the script is executed:

```
PQR a = 1
```

Writing a source filter as a separate executable works fine, but a small performance penalty is incurred. For example, if you execute the small example above, a separate subprocess will be created to run the Unix C<tr> command. Each use of the filter requires its own subprocess. If creating subprocesses is expensive on your system, you might want to consider one of the other options for creating source filters.

=head1 WRITING A SOURCE FILTER IN PERL

The easiest and most portable option available for creating your own source filter is to write it completely in Perl. To distinguish this from the previous two techniques, I'll call it a Perl source filter.

To help understand how to write a Perl source filter we need an example to study. Here is a complete source filter that performs rot13 decoding. (Rot13 is a very simple encryption scheme used in Usenet postings to hide the contents of offensive posts. It moves every letter forward thirteen places, so that A becomes N, B becomes O, and Z becomes M.)

```perl
package Rot13;
```

```perl
```
use Filter::Util::Call;

sub import {
    my ($type) = @_; 
    my ($ref) = []; 
    filter_add(bless $ref);
}

sub filter {
    my ($self) = @_; 
    my ($status); 
    tr/n-zA-mN-ZA-M/a-zA-Z/ 
    if ($status = filter_read()) > 0; 
    $status;
}

1;

All Perl source filters are implemented as Perl classes and have the same basic structure as the example above.

First, we include the C<Filter::Util::Call> module, which exports a number of functions into your filter's namespace. The filter shown above uses two of these functions, C<filter_add()> and C<filter_read()>.

Next, we create the filter object and associate it with the source stream by defining the C<import> function. If you know Perl well enough, you know that C<import> is called automatically every time a module is included with a use statement. This makes C<import> the ideal place to both create and install a filter object.

In the example filter, the object (C<$ref>) is blessed just like any other Perl object. Our example uses an anonymous array, but this isn't a requirement. Because this example doesn't need to store any context information, we could have used a scalar or hash reference just as well. The next section demonstrates context data.

The association between the filter object and the source stream is made with the C<filter_add()> function. This takes a filter object as a parameter (C<$ref> in this case) and installs it in the source stream.

Finally, there is the code that actually does the filtering. For this type of Perl source filter, all the filtering is done in a method called C<filter()> (It is also possible to write a Perl source filter using a closure. See the C<Filter::Util::Call> manual page for more
details.) It’s called every time the Perl parser needs another line of source to process. The \texttt{C<filter()>} method, in turn, reads lines from the source stream using the \texttt{C<filter_read()>} function.

If a line was available from the source stream, \texttt{C<filter_read()>}
returns a status value greater than zero and appends the line to \texttt{C<$_>}. A status value of zero indicates end-of-file, less than zero means an error. The filter function itself is expected to return its status in the same way, and put the filtered line it wants written to the source stream in \texttt{C<$_>}. The use of \texttt{C<$_>} accounts for the brevity of most Perl source filters.

In order to make use of the rot13 filter we need some way of encoding the source file in rot13 format. The script below, \texttt{C<mkrot13>}, does just that.

die "usage mkrot13 filename\n" unless @ARGV;
my $in = $ARGV[0];
my $out = "$in.tmp"
open(IN, "<$in") or die "Cannot open file $in: $!\n";
open(OUT,">$out") or die "Cannot open file $out: $!\n";

print OUT "use Rot13;\n";
while (<$IN>) {
    tr/a-zA-Z/n-za-mN-ZA-M/;
    print OUT;
}
close IN;
close OUT;
unlink $in;
rename $out, $in;

If we encrypt this with \texttt{C<mkrot13>}:

print " hello fred \n";

the result will be this:

use Rot13;
cevag "uryyb serq\a";

Running it produces this output:

hello fred

=head1 USING CONTEXT: THE DEBUG FILTER
The rot13 example was a trivial example. Here's another demonstration that shows off a few more features.

Say you wanted to include a lot of debugging code in your Perl script during development, but you didn't want it available in the released product. Source filters offer a solution. In order to keep the example simple, let's say you wanted the debugging output to be controlled by an environment variable, C<DEBUG>. Debugging code is enabled if the variable exists, otherwise it is disabled.

Two special marker lines will bracket debugging code, like this:

```
## DEBUG_BEGIN
if ($year > 1999) {
    warn "Debug: millennium bug in year $year\n";
}
## DEBUG_END
```

The filter ensures that Perl parses the code between the <DEBUG_BEGIN> and C<DEBUG_END> markers only when the C<DEBUG> environment variable exists. That means that when C<DEBUG> does exist, the code above should be passed through the filter unchanged. The marker lines can also be passed through as-is, because the Perl parser will see them as comment lines. When C<DEBUG> isn't set, we need a way to disable the debug code. A simple way to achieve that is to convert the lines between the two markers into comments:

```
## DEBUG_BEGIN
#if ($year > 1999) {
    # warn "Debug: millennium bug in year $year\n";
    #}
## DEBUG_END
```

Here is the complete Debug filter:

```perl
package Debug;

use strict;
use warnings;
use Filter::Util::Call;

use constant TRUE => 1;
use constant FALSE => 0;

sub import {
    my ($type) = @_
    my (%context) = (
        Enabled => defined $ENV{DEBUG},
    );
}
InTraceBlock => FALSE,
Filename => (caller)[1],
LineNo => 0,
LastBegin => 0,
);
filter_add(bless %context);
}

sub Die {
  my ($self) = shift;
  my ($message) = shift;
  my ($line_no) = shift || $self->{LastBegin};
  die "$message at $self->{Filename} line $line_no.
"
}

sub filter {
  my ($self) = @_;  
  my ($status);
  $status = filter_read();
  ++$self->{LineNo};
  
  # deal with EOF/error first
  if ($status <= 0) {
    $self->Die("DEBUG_BEGIN has no DEBUG_END")
    if $self->{InTraceBlock};
    return $status;
  }

  if ($self->{InTraceBlock}) {
    if (/\s*##\s*DEBUG_BEGIN/ ) {
      $self->Die("Nested DEBUG_BEGIN", $self->{LineNo})
    } elsif (/\s*##\s*DEBUG_END/) {
      $self->{InTraceBlock} = FALSE;
    }
  # comment out the debug lines when the filter is disabled
  s/\s*#/ if ! $self->{Enabled};
  } elsif ( /\s*##\s*DEBUG_BEGIN/ ) {
    $self->{InTraceBlock} = TRUE;
  } elsif ( /\s*##\s*DEBUG_END/ ) {
    $self->Die("DEBUG_END has no DEBUG_BEGIN", $self->{LineNo});
  }
  return $status;
  }

1;
The big difference between this filter and the previous example is the use of context data in the filter object. The filter object is based on a hash reference, and is used to keep various pieces of context information between calls to the filter function. All but two of the hash fields are used for error reporting. The first of those two, Enabled, is used by the filter to determine whether the debugging code should be given to the Perl parser. The second, InTraceBlock, is true when the filter has encountered a C<DEBUG_BEGIN> line, but has not yet encountered the following C<DEBUG_END> line.

If you ignore all the error checking that most of the code does, the essence of the filter is as follows:

```perl
sub filter {
    my ($self) = @_;
    my ($status);
    $status = filter_read();

    # deal with EOF/error first
    return $status if $status <= 0;
    if ($self->{InTraceBlock}) {
        if (/\s*##\s*DEBUG_END/) {
            $self->{InTraceBlock} = FALSE
        }
    }
    # comment out debug lines when the filter is disabled
    s/#/\#/ if ! $self->{Enabled};
    } elsif ( /\s*##\s*DEBUG_BEGIN/ ) {
        $self->{InTraceBlock} = TRUE;
    }
    return $status;
}
```

Be warned: just as the C-preprocessor doesn't know C, the Debug filter doesn't know Perl. It can be fooled quite easily:

```perl
print <<EOM;
##DEBUG_BEGIN
EOM
```

Such things aside, you can see that a lot can be achieved with a modest amount of code.

=head1 CONCLUSION

You now have better understanding of what a source filter is, and you might even have a possible use for them. If you feel like playing with source filters but need a bit of inspiration, here are some extra
features you could add to the Debug filter.

First, an easy one. Rather than having debugging code that is all-or-nothing, it would be much more useful to be able to control which specific blocks of debugging code get included. Try extending the syntax for debug blocks to allow each to be identified. The contents of the C<$DEBUG$> environment variable can then be used to control which blocks get included.

Once you can identify individual blocks, try allowing them to be nested. That isn't difficult either.

Here is an interesting idea that doesn't involve the Debug filter. Currently Perl subroutines have fairly limited support for formal parameter lists. You can specify the number of parameters and their type, but you still have to manually take them out of the C@$_$> array yourself. Write a source filter that allows you to have a named parameter list. Such a filter would turn this:

```perl
sub MySub ($first, $second, @rest) { ... }
```

into this:

```perl
sub MySub($$@) {
  my ($first) = shift;
  my ($second) = shift;
  my (@rest) = @_;
  ...
}
```

Finally, if you feel like a real challenge, have a go at writing a full-blown Perl macro preprocessor as a source filter. Borrow the useful features from the C preprocessor and any other macro processors you know. The tricky bit will be choosing how much knowledge of Perl's syntax you want your filter to have.

=head1 THINGS TO LOOK OUT FOR

=over 5

=item Some Filters Clobber the C$DATA$> Handle

Some source filters use the C$DATA$> handle to read the calling program. When using these source filters you cannot rely on this handle, nor expect any particular kind of behavior when operating on it. Filters based on Filter::Util::Call (and therefore Filter::Simple) do not alter the C$DATA$> filehandle.
=head1 REQUIREMENTS

The Source Filters distribution is available on CPAN, in

CPAN/modules/by-module/Filter

Starting from Perl 5.8 Filter::Util::Call (the core part of the Source Filters distribution) is part of the standard Perl distribution. Also included is a friendlier interface called Filter::Simple, by Damian Conway.

=head1 AUTHOR

Paul Marquess E<lt>Paul.Marquess@btinternet.comE<gt>

=head1 Copyrights

This article originally appeared in The Perl Journal #11, and is copyright 1998 The Perl Journal. It appears courtesy of Jon Orwant and The Perl Journal. This document may be distributed under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1156605062_1619225137.78/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-qDQhg3kC/Filter-1.49.tar.gz-cosi-expand-archive-uu6GsMiw/Filter-1.49/perlfilter.pod

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

1.2104 perl-compress-raw-zlib 2.061-4.el7
1.2104.1 Available under license :

No license file was found, but licenses were detected in source scan.

=back
0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

B<NOTE> This behavior may go away in future versions.

=head1 CAVEATS and NOTES

=over 4

=item Backwards compatibility

Test::More works with Perl 5.004_05.

=item Overloaded objects

String overloaded objects are compared B<as strings>.  This prevents Test::More from piercing an object's interface allowing better blackbox testing.  So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference.  This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects.  In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded.  This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Test::Harness upgrade
no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.
L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern <lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.

=head1 BUGS

See F<http://rt.cpan.org> to report and view bugs.

=head1 COPYRIGHT


This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
 * Copyright (C) 1995-2003, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
 * Copyright (C) 1995-2012 Jean-loup Gailly
 * For conditions of distribution and use, see copyright notice in zlib.h
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE
Here's an example of a simple .t file for the fictional Film module.

```perl
use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title    => 'Bad Taste',
                        Director => 'Peter Jackson',
                        Rating   => 'R',
                        NumExplodingSheep => 1
                  }):
ok( defined($btaste) && ref $btaste eq 'Film,   'new() works' );

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5  
  ok 1 - new() works
  ok 2 - Title() get
  ok 3 - Director() get
  not ok 4 - Rating() get
    # Failed test (t/film.t at line 14)
  ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

    0  SS$_NORMAL  all tests successful
    4  SS$_ABORT   something went wrong

Unfortunately, I can't differentiate any further.
=head1 NOTES

Test::Simple is explicitly tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests at all. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4
=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back
AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

COPYRIGHT


This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

inffast.c -- fast decoding
* Copyright (C) 1995-2008, 2010, 2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Compress-Raw-Zlib

Version 2.061

19th May 2013

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.
This program is free software; you can redistribute it
and/or modify it under the same terms as Perl itself.

The directory zlib-src contains a subset of the
source files copied directly from zlib version 1.2.8.
DESCRIPTION
----------

This module provides a Perl interface to the zlib compression library.

PREREQUISITES
----------

Before you can build Compress-Raw-Zlib you need to have the following installed on your system:

* A C compiler

* Perl 5.006 or better.

By default, Compress-Raw-Zlib will build its own private copy of the zlib library. If you want to use a different version of zlib, follow the instructions in the section called "Controlling the version of zlib used by Compress-Raw-Zlib" later in this document.

BUILDING THE MODULE
-------------------

Assuming you have met all the prerequisites, the module can now be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

INSTALLATION
----------

To install Compress-Raw-Zlib, run the command below:

```
make install
```

Controlling the version of zlib used by Compress-Raw-Zlib
----------------------------------------------------------

Compress-Raw-Zlib interfaces to the zlib compression library. There are three options available to control which version/instance of the
zlib library is used:

1. Build a private copy of the zlib library using the zlib library source that is included with this module. This is the default and recommended option.

2. Build a private copy of the zlib library using a standard zlib source distribution.

3. Use a pre-built zlib library.

Note that if you intend to use either Option 2 or 3, you need to have zlib version 1.2.0 or better.

The contents of the file config.in are used to control which of the three options is actually used. This file is read during the perl Makefile.PL step of the build, so remember to make any required changes to config.in before building this module.

Option 1
--------

For option 1, edit the file config.in and set the variables in it as follows:

```
BUILD_ZLIB   = True
INCLUDE      = ./zlib-src
LIB          = ./zlib-src
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Option 2
--------

For option 2, fetch a copy of the zlib source distribution from http://www.zlib.org and unpack it into the Compress-Raw-Zlib source directory. Assuming you have fetched zlib 1.2.8, it will create a directory called zlib-1.2.8.

Now set the variables in the file config.in as follows (if the version you have fetched isn’t 1.2.8, change the INCLUDE and LIB variables appropriately):

```
BUILD_ZLIB   = True
```
INCLUDE = ./zlib-1.2.8
LIB = ./zlib-1.2.8
OLD_ZLIB = False
GZIP_OS_CODE = AUTO_DETECT

Option 3
--------

For option 3, you need to find out where zlib is stored on your system. There are two parts to this.

First, find the directory where the zlib library is stored (some common names for the library are libz.a and libz.so). Set the LIB variable in the config.in file to that directory.

Secondly, find the directory where the file zlib.h is stored. Now set the INCLUDE variable in the config.in file to that directory.

Next set BUILD_ZLIB to False.

Finally, if you are running zlib 1.0.5 or older, set the OLD_ZLIB variable to True. Otherwise set it to False.

As an example, if the zlib library on your system is in /usr/local/lib, zlib.h is in /usr/local/include and zlib is more recent than version 1.0.5, the variables in config.in should be set as follows:

BUILD_ZLIB = False
INCLUDE = /usr/local/include
LIB = /usr/local/lib
OLD_ZLIB = False
GZIP_OS_CODE = AUTO_DETECT

Setting the Gzip OS Code
-----------------------

Every gzip stream stores a byte in its header to identify the Operating System that was used to create the gzip stream. When you build Compress-Raw-Zlib it will attempt to determine the value that is correct for your Operating System. This will then be used by IO::Compress::Gzip as the default value for the OS byte in all gzip headers it creates.

The variable GZIP_OS_CODE in the config.in file controls the setting of this value when building Compress-Raw-Zlib. If GZIP_OS_CODE is set to AUTO_DETECT, Compress-Raw-Zlib will attempt to determine the correct value for
your Operating System.

Alternatively, you can override auto-detection of the default OS code and explicitly set it yourself. Set the GZIP_OS_CODE variable in the config.in file to be a number between 0 and 255. For example

    GZIP_OS_CODE = 3

See RFC 1952 for valid OS codes that can be used.

If you are running one of the less popular Operating Systems, it is possible that the default value picked by this module is incorrect or the default value (3) is used when there is a better value available. When Compress-Raw-Zlib cannot determine what operating system you are running, it will use the default value 3 for the OS code.

If you find you have to change this value, because you think the value auto detected is incorrect, please take a few moments to contact the author of this module.

TROUBLESHOOTING

----------

Undefined Symbol gzsetparams

---------------------------

If you get the error shown below when you run the Compress-Raw-Zlib test harness it probably means you are running a copy of zlib that is version 1.0.5 or older.

    t/01version.........Can't load 'blib/arch/auto/Compress/Zlib/Zlib.so' for module Compress::Raw::Zlib: blib/arch/auto/Compress/Raw/Zlib/Zlib.so: undefined symbol: gzsetparams at ...

There are two ways to fix this problem:

1. Upgrade to the latest version of zlib.

2. Edit config.in and set the OLD_ZLIB variable to True.

Test Harness 01version fails

---------------------------

If the 01version test harness fails, and the problem isn't covered by the scenario above, it probably means that you have two versions of zlib installed on your system.

Run the command below to see if this is indeed the case
make test TEST_VERBOSE=1 TEST_FILES=t/01version.t

Try removing the one you don't want to use and rebuild.

Solaris build fails with "language optional software package not installed"

If you are trying to build this module under Solaris and you get an error message like this

/usr/ucb/cc: language optional software package not installed

it means that Perl cannot find the C compiler on your system. The cryptic message is just Sun's way of telling you that you haven't bought their C compiler.

When you build a Perl module that needs a C compiler, the Perl build system tries to use the same C compiler that was used to build perl itself. In this case your Perl binary was built with a C compiler that lived in /usr/ucb.

To continue with building this module, you need to get a C compiler, or tell Perl where your C compiler is, if you already have one.

Assuming you have now got a C compiler, what you do next will be dependent on what C compiler you have installed. If you have just installed Sun's C compiler, you shouldn't have to do anything. Just try rebuilding this module.

If you have installed another C compiler, say gcc, you have to tell perl how to use it instead of /usr/ucb/cc.

This set of options seems to work if you want to use gcc. Your mileage may vary.

perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" "
make test

If that doesn't work for you, it's time to make changes to the Makefile by hand. Good luck!

Solaris build fails with "gcc: unrecognized option `-KPIC'"

You are running Solaris and you get an error like this when you try to build this Perl module

gcc: unrecognized option `-KPIC'
This symptom usually means that you are using a Perl binary that has been built with the Sun C compiler, but you are using gcc to build this module.

When Perl builds modules that need a C compiler, it will attempt to use the same C compiler and command line options that was used to build perl itself. In this case "-KPIC" is a valid option for the Sun C compiler, but not for gcc. The equivalent option for gcc is "-fPIC".

The solution is either:

1. Build both Perl and this module with the same C compiler, either by using the Sun C compiler for both or gcc for both.

2. Try generating the Makefile for this module like this perl

   perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" " LD=gcc
   make test

This second option seems to work when mixing a Perl binary built with the Sun C compiler and this module built with gcc. Your mileage may vary.

HP-UX Notes
------------

I've had a report that when building Compress-Raw-Zlib under HP-UX that it is necessary to have first built the zlib library with the -fPIC option.

Linux Notes
------------

Although most Linux distributions already come with zlib, some people report getting this error when they try to build this module:

$ make
   cp Zlib.pm blib/lib/Compress/Zlib.pm
   AutoSplitting blib/lib/Compress/Zlib.pm (blib/lib/auto/Compress/Zlib)
   gcc -c -I/usr/local/include -fno-strict-aliasing -I/usr/local/include -O2 -march=i386 -mcpu=i686 -DVERSION="v"1.16" -DXS_VERSION="v"1.16" -fPIC -I/usr/lib/perl5/5.6.1/i386-linux/CORE Zlib.c
   Zlib.xs:25:19: zlib.h: No such file or directory
   make: *** [Zlib.o] Error 1

This usually means that you have not installed the development RPM for zlib. Check for an RPM that start with "zlib-devel" in your Linux
distribution.

Win32 Notes
-----------

If you are running Activestate Perl (from http://www.activestate.com), it ships with a pre-compiled version of Compress-Raw-Zlib. To check if a newer version of Compress-Raw-Zlib is available run this from the command prompt

```
C:\> ppm verify -upgrade Compress-Raw-Zlib
```

If you are not running Activestate Perl and you don't have access to a C compiler, you will not be able to build and install this module.

Win32 & Cygwin Notes
---------------------

It is not possible to install Compress-Raw-Zlib using the CPAN shell. This is because the Compress-Raw-Zlib DLL is itself used by the CPAN shell and it is impossible to remove a DLL while it is already loaded under Windows.

The workaround is to install Compress-Raw-Zlib manually using the instructions given at the start of this file.

FEEDBACK
--------

How to report a problem with Compress-Raw-Zlib.

To help me help you, I need all of the following information:

1. The Versions of everything relevant.
   This includes:
   a. The *complete* output from running this

      ```perl
      perl -V
      ```

      Do not edit the output in any way.
      Note, I want you to run "perl -V" and NOT "perl -v".

      If your perl does not understand the "-V" option it is too old. This module needs Perl version 5.004 or better.

      b. The version of Compress-Raw-Zlib you have.
      If you have successfully installed Compress-Raw-Zlib, this one-liner
will tell you:

perl -MCompress::Raw::Zlib -e 'printf qq[ver $Compress::Raw::Zlib::VERSION]\n'"

If you are running windows use this

perl -MCompress::Raw::Zlib -e "printf qq[ver $Compress::Raw::Zlib::VERSION]\n"

If you haven't installed Compress::Raw-Zlib then search Compress::Raw::Zlib.pm for a line like this:

$VERSION = "2.061";

c. The version of zlib you have used.
If you have successfully installed Compress::Raw-Zlib, this one-liner will tell you:

perl -MCompress::Raw::Zlib -e "printf q{zlib ver \}. Compress::Raw::Zlib::ZLIB_VERSION.qq\n"

If not, look at the beginning of the file zlib.h.

2. If you are having problems building Compress::Raw-Zlib, send me a complete log of what happened. Start by unpacking the Compress::Raw-Zlib module into a fresh directory and keep a log of all the steps

[edit config.in, if necessary]
perl Makefile.PL
make
make test TEST_VERBOSE=1

Paul Marquess <pmqs@cpan.org>

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Compress::Raw::Zlib - Low-Level Interface to zlib compression library

=head1 SYNOPSIS

use Compress::Raw::Zlib;

($d, $status) = new Compress::Raw::Zlib::Deflate( [OPT] );
$status = $d->deflate($input, $output);
The `Compress::Raw::Zlib` module provides a Perl interface to the `zlib` compression library (see L</AUTHOR> for details about where to get `zlib`).

This section defines an interface that allows in-memory compression using the `deflate` interface provided by zlib.

Here is a definition of the interface available:
Initialises a deflation object.

If you are familiar with the I<zlib> library, it combines the features of the I<zlib> functions C<deflateInit>, C<deflateInit2> and C<deflateSetDictionary>.

If successful, it will return the initialised deflation object, C<$d> and a C<$status> of C<Z_OK> in a list context. In scalar context it returns the deflation object, C<$d>, only.

If not successful, the returned deflation object, C<$d>, will be I<undef> and C<$status> will hold the a I<zlib> error code.

The function optionally takes a number of named options specified as C<< Name => value >> pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

Below is a list of the valid options:

=over 5

=item B<-Level>

Defines the compression level. Valid values are 0 through 9, C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>.

The default is C<Z_DEFAULT_COMPRESSION>.

=item B<-Method>

Defines the compression method. The only valid value at present (and the default) is C<Z_DEFLATED>.

=item B<-WindowBits>

To compress an RFC 1950 data stream, set C<WindowBits> to a positive number between 8 and 15.

To compress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

To compress an RFC 1952 data stream (i.e. gzip), set C<WindowBits> to C<WANT_GZIP>.
For a definition of the meaning and valid values for `WindowBits`
refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to C<MAX_WBITS>.

=item B<-MemLevel>

For a definition of the meaning and valid values for `MemLevel`
refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_MEM_LEVEL.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED>, C<Z_RLE>, C<Z_FIXED> and
C<Z_HUFFMAN_ONLY>.

The default is C<Z_DEFAULT_STRATEGY>.

=item B<-Dictionary>

When a dictionary is specified I<Compress::Raw::Zlib> will automatically
 call C<deflateSetDictionary> directly after calling C<deflateInit>. The
Adler32 value for the dictionary can be obtained by calling the method
C<$d-E<gt;dict_adler()>.

The default is no dictionary.

=item B<-Bufsize>

Sets the initial size for the output buffer used by the C<$d-E<gt;deflate>
and C<$d-E<gt;flush> methods. If the buffer has to be
reallocated to increase the size, it will grow in increments of
C<Bufsize>.

The default buffer size is 4096.

=item B<-AppendOutput>

This option controls how data is written to the output buffer by the
C<$d-E<gt;deflate> and C<$d-E<gt;flush> methods.

If the C<-AppendOutput> option is set to false, the output buffers in the
C<$d-E<gt;deflate> and C<$d-E<gt;flush>  methods will be truncated before
uncompressed data is written to them.
If the option is set to true, uncompressed data will be appended to the output buffer in the C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods.

This option defaults to false.

=item B<-CRC32>

If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>crc32> method to retrieve this value.

This option defaults to false.

=item B<-ADLER32>

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>adler32> method to retrieve this value.

This option defaults to false.

=back

Here is an example of using the C<Compress::Raw::Zlib::Deflate> optional parameter list to override the default buffer size and compression level. All other options will take their default values.

    my $d = new Compress::Raw::Zlib::Deflate ( -Bufsize => 300,
        -Level   => Z_BEST_SPEED ) ;

=head2 B<$status = $d-E<gt>deflate($input, $output)> Deflates the contents of C<$input> and writes the compressed data to C<$output>.

The C<$input> and C<$output> parameters can be either scalars or scalar references.

When finished, C<$input> will be completely processed (assuming there were no errors). If the deflation was successful it writes the deflated data to C<$output> and returns a status value of C<Z_OK>.

On error, it returns a I<zlib> error code.

If the C<AppendOutput> option is set to true in the constructor for the C<$d> object, the compressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any compressed data is written to it.

B>Note>: This method will not necessarily write compressed data to
C<$output> every time it is called. So do not assume that there has been an error if the contents of C<$output> is empty on returning from this method. As long as the return code from the method is C<Z_OK>, the deflate has succeeded.

=head2 B<$status = $d-E<gt>flush($output [, $flush_type]) >

Typically used to finish the deflation. Any pending output will be written to C<$output>.

Returns C<Z_OK> if successful.

Note that flushing can seriously degrade the compression ratio, so it should only be used to terminate a decompression (using C<Z_FINISH>) or when you want to create a full flush point (using C<Z_FULL_FLUSH>).

By default the C<flush_type> used is C<Z_FINISH>. Other valid values for C<flush_type> are C<Z_NO_FLUSH>, C<Z_PARTIAL_FLUSH>, C<Z_SYNC_FLUSH> and C<Z_FULL_FLUSH>. It is strongly recommended that you only set the C<flush_type> parameter if you fully understand the implications of what it does. See the C<zlib> documentation for details.

If the C<AppendOutput> option is set to true in the constructor for the C<$d> object, the compressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any compressed data is written to it.

=head2 B<$status = $d-E<gt>deflateReset() >

This method will reset the deflation object C<$d>. It can be used when you are compressing multiple data streams and want to use the same object to compress each of them. It should only be used once the previous data stream has been flushed successfully, i.e. a call to C<< $d->flush(Z_FINISH) >> has returned C<Z_OK>.

Returns C<Z_OK> if successful.

=head2 B<$status = $d-E<gt>deflateParams([OPT])>

Change settings for the deflate object C<$d>.

The list of the valid options is shown below. Options not specified will remain unchanged.

=over 5
=item B<-Level>
Defines the compression level. Valid values are 0 through 9, 
C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and 
C<Z_DEFAULT_COMPRESSION>.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are 
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

=item B<-BufSize>

Sets the initial size for the output buffer used by the C<$d-E<gt>deflate> 
and C<$d-E<gt>flush> methods. If the buffer has to be 
reallocated to increase the size, it will grow in increments of 
C<Bufsize>.

=back

=head2 B<$status = $d-E<gt>deflateTune($good_length, $max_lazy, $nice_length, $max_chain)> 
Tune the internal settings for the deflate object C<$d>. This option is 
only available if you are running zlib 1.2.2.3 or better.

Refer to the documentation in zlib.h for instructions on how to fly 
C<deflateTune>.

=head2 B<$d-E<gt>dict_adler()> 
Returns the adler32 value for the dictionary.

=head2 B<$d-E<gt>crc32()> 
Returns the crc32 value for the uncompressed data to date.

If the C<CRC32> option is not enabled in the constructor for this object, 
this method will always return 0;

=head2 B<$d-E<gt>adler32()> 
Returns the adler32 value for the uncompressed data to date.

=head2 B<$d-E<gt>msg()> 
Returns the last error message generated by zlib.

=head2 B<$d-E<gt>total_in()> 
Returns the total number of bytes uncompressed bytes input to deflate.
Returns the total number of compressed bytes output from deflate.

Returns the deflation strategy currently used. Valid values are C\langle Z\_DEFAULT\_STRATEGY\rangle, C\langle Z\_FILTERED\rangle and C\langle Z\_HUFFMAN\_ONLY\rangle.

Returns the compression level being used.

Returns the buffer size used to carry out the compression.

Example

Here is a trivial example of using C\langle deflate\rangle. It simply reads standard input, deflates it and writes it to standard output.

```
use strict;
use warnings;
use Compress::Raw::Zlib;

binmode STDIN;
binmode STDOUT;
my $x = new Compress::Raw::Zlib::Deflate
    or die "Cannot create a deflation stream\n";

my ($output, $status);
while (<>){
    $status = $x->deflate($_, $output);
    $status == Z_OK
        or die "deflation failed\n";
    print $output;
}

$status = $x->flush($output);

$status == Z_OK
    or die "deflation failed\n";
```
print $output ;

=head1 Compress::Raw::Zlib::Inflate

This section defines an interface that allows in-memory uncompression using the \texttt{inflate} interface provided by zlib.

Here is a definition of the interface:

=head2 \texttt{($i, $status) = new Compress::Raw::Zlib::Inflate( [OPT] )}

Initialises an inflation object.

In a list context it returns the inflation object, \texttt{C<$i>}, and the zlib status code (\texttt{C<$status>}). In a scalar context it returns the inflation object only.

If successful, \texttt{C<$i>} will hold the inflation object and \texttt{C<$status>} will be \texttt{C<Z_OK>}.

If not successful, \texttt{C<$i>} will be \texttt{I<undef>} and \texttt{C<$status>} will hold the zlib error code.

The function optionally takes a number of named options specified as \texttt{C<< Name => value >>} pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the \texttt{C<< name=>value >>} pairs.

Here is a list of the valid options:

=over 5

=item \texttt{-WindowBits}

To uncompress an RFC 1950 data stream, set \texttt{C<WindowBits>} to a positive number between 8 and 15.

To uncompress an RFC 1951 data stream, set \texttt{C<WindowBits>} to \texttt{C<-MAX_WBITS>}.

To uncompress an RFC 1952 data stream (i.e. gzip), set \texttt{C<WindowBits>} to \texttt{C<WANT_GZIP>}.

To auto-detect and uncompress an RFC 1950 or RFC 1952 data stream (i.e. gzip), set \texttt{C<WindowBits>} to \texttt{C<WANT_GZIP_OR_ZLIB>}. 


For a full definition of the meaning and valid values for C<WindowBits> refer to the I<zlib> documentation for I<inflateInit2>.

Defaults to C<MAX_WBITS>.

=item B<-Bufsize>

Sets the initial size for the output buffer used by the C<$i-E<gt>inflate> method. If the output buffer in this method has to be reallocated to increase the size, it will grow in increments of C<Bufsize>.

Default is 4096.

=item B<-Dictionary>

The default is no dictionary.

=item B<-AppendOutput>

This option controls how data is written to the output buffer by the C<$i-E<gt>inflate> method.

If the option is set to false, the output buffer in the C<$i-E<gt>inflate> method will be truncated before uncompressed data is written to it.

If the option is set to true, uncompressed data will be appended to the output buffer by the C<$i-E<gt>inflate> method.

This option defaults to false.

=item B<-CRC32>

If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the C<$i-E<gt>crc32> method to retrieve this value.

This option defaults to false.

=item B<-ADLER32>

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the C<$i-E<gt>adler32> method to retrieve this value.

This option defaults to false.

=item B<-ConsumeInput>

If set to true, this option will remove compressed data from the input buffer of the C<< $i->inflate >> method as the inflate progresses.
This option can be useful when you are processing compressed data that is embedded in another file/buffer. In this case the data that immediately follows the compressed stream will be left in the input buffer.

This option defaults to true.

=item B<-LimitOutput>

The C<LimitOutput> option changes the behavior of the C<< $i->inflate >> method so that the amount of memory used by the output buffer can be limited.

When C<LimitOutput> is used the size of the output buffer used will either be the value of the C<Bufsize> option or the amount of memory already allocated to C<$output>, whichever is larger. Predicting the output size available is tricky, so don't rely on getting an exact output buffer size.

When C<LimitOutput> is not specified C<< $i->inflate >> will use as much memory as it takes to write all the uncompressed data it creates by uncompressing the input buffer.

If C<LimitOutput> is enabled, the C<ConsumeInput> option will also be enabled.

This option defaults to false.

See L</The LimitOutput option> for a discussion on why C<LimitOutput> is needed and how to use it.

=back

Here is an example of using an optional parameter to override the default buffer size.

```perl
my ($i, $status) = new Compress::Raw::Zlib::Inflate( -Bufsize => 300 ) ;

=head2 $status = $i-E<gt>inflate($input, $output \[,$eof\]) >
```

Inflates the complete contents of C<$input> and writes the uncompressed data to C<$output>. The C<$input> and C<$output> parameters can either be scalars or scalar references.

Returns C<Z_OK> if successful and C<Z_STREAM_END> if the end of the compressed data has been successfully reached.

If not successful C<$status> will hold the I<zlib> error code.
If the `<ConsumeInput>` option has been set to true when the `<Compress::Raw::Zlib::Inflate>` object is created, the `<$input>` parameter is modified by `<inflate>`. On completion it will contain what remains of the input buffer after inflation. In practice, this means that when the return status is `<Z_OK>` the `<$input>` parameter will contain an empty string, and when the return status is `<Z_STREAM_END>` the `<$input>` parameter will contain what (if anything) was stored in the input buffer after the deflated data stream.

This feature is useful when processing a file format that encapsulates a compressed data stream (e.g. gzip, zip) and there is useful data immediately after the deflation stream.

If the `<AppendOutput>` option is set to true in the constructor for this object, the uncompressed data will be appended to `<$output>`. If it is false, `<$output>` will be truncated before any uncompressed data is written to it.

The `<$eof>` parameter needs a bit of explanation.

Prior to version 1.2.0, zlib assumed that there was at least one trailing byte immediately after the compressed data stream when it was carrying out decompression. This normally isn't a problem because the majority of zlib applications guarantee that there will be data directly after the compressed data stream. For example, both gzip (RFC 1950) and zip both define trailing data that follows the compressed data stream.

The `<$eof>` parameter only needs to be used if B<all> of the following conditions apply

=over 5

=item 1

You are either using a copy of zlib that is older than version 1.2.0 or you want your application code to be able to run with as many different versions of zlib as possible.

=item 2

You have set the `<WindowBits>` parameter to `<-MAX_WBITS>` in the constructor for this object, i.e. you are uncompressing a raw deflated data stream (RFC 1951).

=item 3

There is no data immediately after the compressed data stream.
If all of these are the case, then you need to set the \$eof parameter to true on the final call (and only the final call) to \$i-E<gt>inflate.

If you have built this module with zlib >= 1.2.0, the \$eof parameter is ignored. You can still set it if you want, but it won't be used behind the scenes.

\$status = \$i-E<gt>inflateSync($input)

This method can be used to attempt to recover good data from a compressed data stream that is partially corrupt. It scans $input until it reaches either a full flush point or the end of the buffer.

If a full flush point is found, Z_OK is returned and $input will be have all data up to the flush point removed. This data can then be passed to the $i-E<gt>inflate method to be uncompressed.

Any other return code means that a flush point was not found. If more data is available, \$inflateSync can be called repeatedly with more compressed data until the flush point is found.

Note full flush points are not present by default in compressed data streams. They must have been added explicitly when the data stream was created by calling Compress::Deflate::flush with Z_FULL_FLUSH.

\$status = \$i-E<gt>inflateReset()

This method will reset the inflation object $i. It can be used when you are uncompressing multiple data streams and want to use the same object to uncompress each of them.

Returns Z_OK if successful.

\$i-E<gt>dict_adler()

Returns the adler32 value for the dictionary.

\$i-E<gt>crc32()

Returns the crc32 value for the uncompressed data to date.

If the CRC32 option is not enabled in the constructor for this object, this method will always return 0;
Returns the adler32 value for the uncompressed data to date.

If the C<ADLER32> option is not enabled in the constructor for this object, this method will always return 0;

=head2 B<$i-E.gt>msg()

Returns the last error message generated by zlib.

=head2 B<$i-E.gt>total_in()

Returns the total number of bytes compressed bytes input to inflate.

=head2 B<$i-E.gt>total_out()

Returns the total number of uncompressed bytes output from inflate.

=head2 B<$d-E.gt>get_BufSize()

Returns the buffer size used to carry out the decompression.

=head2 Examples

Here is an example of using C<inflate>.

    use strict;
    use warnings;

    use Compress::Raw::Zlib;

    my $x = new Compress::Raw::Zlib::Inflate()
        or die "Cannot create a inflation stream\n" ;

    my $input = "";
    binmode STDIN;
    binmode STDOUT;

    my ($output, $status) ;
    while (read(STDIN, $input, 4096))
    {
        $status = $x->inflate($input, $output) ;

        print $output ;
        last if $status != Z_OK ;
    }
The next example shows how to use the C<LimitOutput> option. Notice the use of two nested loops in this case. The outer loop reads the data from the input source - STDIN and the inner loop repeatedly calls C<inflate> until C<$input> is exhausted, we get an error, or the end of the stream is reached. One point worth remembering is by using the C<LimitOutput> option you also get C<ConsumeInput> set as well - this makes the code below much simpler.

use strict;
use warnings;

use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
or die "Cannot create a inflation stream\n" ;

my $input = " ;
binmode STDIN;
binmode STDOUT;

my ($output, $status) ;

OUTER:
while (read(STDIN, $input, 4096))
{
doi
{
$status = $x->inflate($input, $output) ;

print $output ;

last OUTER
unless $status == Z_OK || $status == Z_BUF_ERROR ;
}
while ($status == Z_OK && length $input);
}

die "inflation failed\n" unless $status == Z_STREAM_END ;

=head1 CHECKSUM FUNCTIONS

Two functions are provided by I<zlib> to calculate checksums. For the Perl interface, the order of the two parameters in both functions has been reversed. This allows both running checksums and one off
calculations to be done.

```
$crc = adler32($buffer [, $crc]) ;
$crc = crc32($buffer [, $crc]) ;
```

The buffer parameters can either be a scalar or a scalar reference.

If the $crc parameters is C<undef>, the crc value will be reset.

If you have built this module with zlib 1.2.3 or better, two more CRC-related functions are available.

```
$crc = adler32_combine($crc1, $crc2, $len2) ;
$crc = crc32_combine($adler1, $adler2, $len2)
```

These functions allow checksums to be merged.

=head1 Misc

=head2 my $version = Compress::Raw::Zlib::zlib_version();

Returns the version of the zlib library.

=head2 my $flags = Compress::Raw::Zlib::zlibCompileFlags();

Returns the flags indicating compile-time options that were used to build the zlib library. See the zlib documentation for a description of the flags returned by C<zlibCompileFlags>.

Note that when the zlib sources are built along with this module the C<sprintf> flags (bits 24, 25 and 26) should be ignored.

If you are using zlib 1.2.0 or older, C<zlibCompileFlags> will return 0.

=head1 The LimitOutput option.

By default C<< $i->inflate($input, $output) >> will uncompress I<all> data in C<$input> and write I<all> of the uncompressed data it has generated to C<$output>. This makes the interface to C<inflate> much simpler - if the method has uncompressed C<$input> successfully I<all> compressed data in C<$input> will have been dealt with. So if you are reading from an input source and uncompressing as you go the code will look something like this

```perl
use strict ;
use warnings ;
use Compress::Raw::Zlib;
```

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44061
my $x = new Compress::Raw::Zlib::Inflate()
or die "Cannot create a inflation stream\n" ;

my $input = "" ;

my ($output, $status) ;
while (read(STDIN, $input, 4096))
{
    $status = $x->inflate($input, $output) ;

    print $output ;
    last if $status != Z_OK ;
}

die "inflation failed\n" unless $status == Z_STREAM_END ;

The points to note are

=over 5

=item *

The main processing loop in the code handles reading of compressed data from STDIN.

=item *

The status code returned from C<inflate> will only trigger termination of the main processing loop if it isn't C<Z_OK>. When C<LimitOutput> has not been used the C<Z_OK> status means that the end of the compressed data stream has been reached or there has been an error in uncompression.

=item *

After the call to C<inflate> I<all> of the uncompressed data in C<$input> will have been processed. This means the subsequent call to C<read> can overwrite it's contents without any problem.

=back

For most use-cases the behavior described above is acceptable (this module and it's predecessor, C<Compress::Zlib>, have used it for over 10 years without an issue), but in a few very specific use-cases the amount of memory required for C<$output> can prohibitively large. For example, if the compressed data stream contains the same pattern repeated thousands of times, a relatively small compressed data stream can uncompress into
hundreds of megabytes. Remember `inflate` will keep allocating memory until all the uncompressed data has been written to the output buffer - the size of `$output` is unbounded.

The `LimitOutput` option is designed to help with this use-case.

The main difference in your code when using `LimitOutput` is having to deal with cases where the `$input` parameter still contains some uncompressed data that `inflate` hasn't processed yet. The status code returned from `inflate` will be `Z_OK` if uncompression took place and `Z_BUF_ERROR` if the output buffer is full.

Below is typical code that shows how to use `LimitOutput`.

```perl
use strict;
use warnings;
use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
or die "Cannot create a inflation stream\n";

my $input = "
binmode STDIN;
binmode STDOUT;

my ($output, $status);

OUTER:
while (read(STDIN, $input, 4096))
{
do
{
$status = $x->inflate($input, $output);

print $output;

last OUTER
unless $status == Z_OK || $status == Z_BUF_ERROR ;
}while ($status == Z_OK && length $input);
}
die "inflation failed\n" unless $status == Z_STREAM_END ;

Points to note this time:
```
There are now two nested loops in the code: the outer loop for reading the compressed data from STDIN, as before; and the inner loop to carry out the uncompression.

There are two exit points from the inner uncompression loop.

Firstly when C<inflate> has returned a status other than C<Z_OK> or C<Z_BUF_ERROR>. This means that either the end of the compressed data stream has been reached (C<Z_STREAM_END>) or there is an error in the compressed data. In either of these cases there is no point in continuing with reading the compressed data, so both loops are terminated.

The second exit point tests if there is any data left in the input buffer, C<$input> - remember that the C<ConsumeInput> option is automatically enabled when C<LimitOutput> is used. When the input buffer has been exhausted, the outer loop can run again and overwrite a now empty C<$input>.

=head1 ACCESSING ZIP FILES

Although it is possible (with some effort on your part) to use this module to access .zip files, there are other perl modules available that will do all the hard work for you. Check out C<Archive::Zip>, C<Archive::Zip::SimpleZip>, C<IO::Compress::Zip> and C<IO::Uncompress::Unzip>.

=head2 FAQ

This module is not compatible with Unix C<compress>.

If you have the C<uncompress> program available, you can use this to read compressed files

    open F, "uncompress -c $filename |";
    while (<F>)
        ...

Alternatively, if you have the \texttt{gunzip} program available, you can use this to read compressed files

\begin{verbatim}
open F, "gunzip -c $filename |";
while (<F>)
{
...
}
\end{verbatim}

and this to write compress files, if you have the \texttt{compress} program available

\begin{verbatim}
open F, "| compress -c $filename ";
print F "data";
...
close F;
\end{verbatim}

=head2 Accessing .tar.Z files

See previous FAQ item.

If the \texttt{Archive::Tar} module is installed and either the \texttt{uncompress} or \texttt{gunzip} programs are available, you can use one of these workarounds to read \texttt{.tar.Z} files.

Firstly with \texttt{uncompress}

\begin{verbatim}
use strict;
use warnings;
use Archive::Tar;

open F, "uncompress -c $filename |";
my $tar = Archive::Tar->new(*F);
...
\end{verbatim}

and this with \texttt{gunzip}

\begin{verbatim}
use strict;
use warnings;
use Archive::Tar;

open F, "gunzip -c $filename |";
my $tar = Archive::Tar->new(*F);
...
\end{verbatim}

Similarly, if the \texttt{compress} program is available, you can use this to write a \texttt{.tar.Z} file

\begin{verbatim}
use strict;
\end{verbatim}
use warnings;
use Archive::Tar;
use IO::File;

my $fh = new IO::File "| compress -c >$filename";
my $tar = Archive::Tar->new();
...
$tar->write($fh);
$fh->close;

=head2 Zlib Library Version Support

By default C<Compress::Raw::Zlib> will build with a private copy of version 1.2.5 of the zlib library. (See the F<README> file for details of how to override this behaviour)

If you decide to use a different version of the zlib library, you need to be aware of the following issues

=over 5

=item *

First off, you must have zlib 1.0.5 or better.

=item *

You need to have zlib 1.2.1 or better if you want to use the C<-Merge> option with C<IO::Compress::Gzip>, C<IO::Compress::Deflate> and C<IO::Compress::RawDeflate>.

=back

=head1 CONSTANTS

All the I<zlib> constants are automatically imported when you make use of I<Compress::Raw::Zlib>.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>, L<IO::Compress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>
L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
 * Copyright (C) 1995-2009 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0        all tests successful
255      test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002, 2004 by chromatic E<lt>chromatic@wgz.orgE<gt> and Michael G Schwern E<lt>schwern@pobox.comE<gt>.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

;/* infback.c -- inflate using a call-back interface
 * Copyright (C) 1995-2011 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* Filename: Zlib.xs

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44069
/* gzio.c -- IO on .gz files
* Copyright (C) 1995 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
/* gzappend -- command to append to a gzip file

Copyright (C) 2003 Mark Adler, all rights reserved
version 1.1, 4 Nov 2003
*/

Found in path(s):
*/
*/ inflate.c -- zlib decompression
* Copyright (C) 1995-2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
*/
*/ inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Compress-Raw-Zlib
no_index:
directory:
  - t
  - inc
  - t
  - private
requires: {}
version: 2.061

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2012 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2013 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
-------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.20_01

Automatically created by Devel::PPPort running under perl 5.016001.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

-------------------------------------------------------------
SKIP
NAME

ppport.h - Perl/Pollution/Portability version 3.20_01

SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help       show short help
--version    show version
--patch=file  write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus  accept C++ comments
--quiet      don't output anything except fatal errors
--nodiag     don't show diagnostics
--nohints    don't show hints
--nochanges  don't suggest changes
--nofilter   don't filter input files
--strip      strip all script and doc functionality from
              ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

OPTIONS

--help

Display a brief usage summary.
Display the version of F<ppport.h>.

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.
=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.
DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl pport.h --list-provided

to see which API elements are provided by pport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<pport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<pport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:
Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_moduleGLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<#DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```
The default namespace is `C<DPPP_>`.

The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different `C<diff>` program or options, using the `C<--diff>` option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the `C<newSVpvn>` function, use:

```
perl ppport.h --api-info=newSVpvn
```
Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back
For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2012, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }  

my $VERSION = 3.20_01;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\r\[\r\n\])';  # line feed
my $HS = "[ \t\]";  # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/*';
my $ccce = '*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $ccce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(%opt, qw(
  help quiet diag! filter! hints! changes! cplusplus strip version
  patch=s copy=s diff=s compat-version=s
  list-provided list-unsupported api-info=s
)) or usage();
};

if ($@ and grep /^-/i, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: "$opt{'compat-version'}"\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: "$opt{'compat-version'}"\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^\w]*)$/ ? ($1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs  => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  }) : die "invalid spec: $_" } qw(
  AvFILLp|5.004050||p
  AvFILL||
  BhkDISABLE||5.017004|
GvSVn[5.009003]|p
GvSV||
Gv_AMupdate[5.011000]
HEI_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.010001]
HeVAL[5.004000]
 HvENAMELEN[5.015004]
 HvENAMEUTF8[5.015004]
 HvENAME[5.013007]
 HvNAMELEN_get[5.009003]|p
 HvNAMELEN[5.015004]
 HvNAMEUTF8[5.015004]
 HvNAME_get[5.009003]|p
 HvNAME[||]
 INT2PTR[5.006000]|p
 IN_LOCALE_COMPILETIME[5.007002]|p
 IN_LOCALE_RUNTIME[5.007002]|p
 IN_LOCALE[5.007002]|p
 IN_PERL_COMPILETIME[5.008001]|p
 IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]|p
 IS_NUMBER_INFINITY[5.007002]|p
 IS_NUMBER_IN_UV[5.007002]|p
 IS_NUMBER_NAN[5.007003]|p
 IS_NUMBER_NEG[5.007002]|p
 IS_NUMBER_NOT_INT[5.007002]|p
 IVSIZE[5.006000]|p
 IVTYPE[5.006000]|p
 IVdf[5.006000]|p
 LEAVE||
 LINKLIST[5.013006]
 LVRET||
 MARK||
 MULTICALL[5.017004]
 MY_CXT_CLONE[5.009002]|p
 MY_CXT_INIT[5.007003]|p
 MY_CXT[5.007003]|p
 MoveD[5.009002][5.004050]|p
 Move||
 NOOP[5.005000]|p
 NUM2PTR[5.006000]|p
 NVTYPE[5.006000]|p
PERL_REVISION|5.006000||p
PERL_SCAN.Allow.UNDERSCORES|5.007003||p
PERL_SCAN.DISALLOW.PREFIX|5.007003||p
PERL_SCAN.GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN.SILENT.ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS.Unsafe.FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS.INIT3|5.006000|
PERL_SYS.INIT3||
PERL_SYS_TERM|5.017004|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE.GCC.Brace.GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.017004||p
PL_bufptr|5.017004||p
PL_check|5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.017004||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
SvPOK_off
SvPOK_only_UTF8|5.006000|
SvPOK_only
SvPOK_on
SvPOKp
SvPOK
SvPVX_const|5.009003|p
SvPVX_mutable|5.009003|p
SvPVX
SvPV_const|5.009003|p
SvPV_flags_const_nolen|5.009003|p
SvPV_flags_const|5.009003|p
SvPV_flags_mutable|5.009003|p
SvPV_flags|5.007002|p
SvPV_force_flags_mutable|5.009003|p
SvPV_force_flags_nolen|5.009003|p
SvPV_force_flags|5.007003|p
SvPV_force_nolen|5.009003|p
SvPV_force_nomg_nolen|5.009003|p
SvPV_force_nomg|5.007003|p
SvPV_force|
SvPV_mutable|5.009003|p
SvPV_nolen_const|5.009003|p
SvPV_nolen|5.006000|p
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 
        " ", format_version($API{$f}{todo}), "un";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}

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```perl
else {
    $function->[1] = $_
;
}

}$function = [S1, ""] if m{^DPPP \(my_(\w+)\)\};

$replace = S1 if m{^s*$rcce\(s+Replace:\s+s+\(d+\)s+s\)+srcce\s+\$};
$replace{S2} = S1 if $replace and m{^s*\#s*define\(s+\(w+\)\)\(\$\)\(\$\)\)?s++\(w+\)\};
$replace{S2} = S1 if m{^s*$rcce\s+s+Replace \(w+\) with \(w+\)\};
$replace{S1} = S2 if m{^s*$rcce\s+s+Replace \(w+\) with \(w+\)\};

if (m{^s*$rcce\s+s+\(w+\)\(s*\)\(w+\)\)*\(s+on\s+s++\(w++\)\(s*\)\(w+\)*\)\s+srcce\s+\$}) {
    my @deps = map { s/\s+//g; $_ } split \/, /$3;
    my $d;
    for $d (map { s/\s+//g; $_ } split \/, /$1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{S1} = 1 if m{^\#if\s+defined\(\$NEED_(\w+)(?:_GLOBAL)\)?\)\};
}

for (values %depends) {
    my %s;
    $$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : ":^\Q$opt{\'api-info\'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print 
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$info++;
}
print "No portability information available\n" unless $info;
$count++;
}
$count or print "Found no API matching \$opt\{'api-info\'}\n";
print "\n";
ext 0;
}

if (exists $opt\{'list-provided\'}) {
  my $f;
  for ($f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API[$f]{provided};
    my @flags;
    push @flags, 'explicit' if exists $need[$f];
    push @flags, 'depend'   if exists $depends[$f];
    push @flags, 'hint'     if exists $hints[$f];
    push @flags, 'warning'  if exists $warnings[$f];
    my $flags = @flags ? ['join(', ',', @flags).'] : "
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file\n" }
    }
    else {
      my @new = grep { -f } glob $_
      or warn "'$_' does not exist\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
  }else {
    eval {
      require File::Find;
    }
File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
    and push @files, $File::Find::name;
});

if ($@) {
    @files = map { glob "*$_" } @srcext;
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*)\.xs$/ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$/i;
        push @ [ $out ? \@out : \@in ], $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):
| $1 | , join "\n | " , @out);
    }
    @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
        next;
    }
    info("Scanning $filename ...\n");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    my $patch = 0;
    for $filename (@files) {
        unless (open IN, "<$filename") {
            warn "Unable to read from $filename: $!
        next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
    my @ccom;

    $c =~ s{
        ( ^$HS*<$HS*include\b[^\r\n]+\b(?:\$ppport\b|XSUB\b)\b[^\r\n]*)
while ($c =~ /^\$HS*#\$HS*define\$HS+(\w+?)(_GLOBAL)?/ibm) { 
    if (exists $need{$_}) { 
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    }
}

my $func;

for ($func (keys %API) { 
    my $match = $func;
    $match .= |$revreplace{$func} if exists $revreplace{$func};
    if ($c =~ /(?:Perl_)?($match)/) { 
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) { 
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) { 
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                for (@deps) { 
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                }
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) { 
            if ($c =~ /$func\b/) { 
                $file{uses_todo}{$func}++;
            }
        }
    }
}

while ($c =~ /^\$HS*#\$HS*define\$HS+\(\w+?\)(_GLOBAL)\)/ibm{ 
    if (exists $need{$2}) { 
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
}
else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

(files{$filename} = \%file;)

# Globally resolve NEED_'
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}[needed_global][$need], @targets;
        my @t = grep /xs$/i, @targets;
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}

for $filename (@files) {
    info("=== Analyzing $filename ===");
    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\^[s\\]*\s\]*\))}{'$1 . ($2 eq ') ? 'aTHX' : 'aTHX_'} . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    }
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\s*\((\s*aTHX_?)?\s*}$func$1(}g);
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/\b$func/\b$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with '$ppport'\n"
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "\n    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} & $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_$func\b.*$LF//mg);
    }
}
for $func (sort keys %{$file{needed_global}}) {
  my $message = "";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  } elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    } elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    } }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = "";
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_${type}"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
    $pp .= "#define NEED_${func}$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/|$pp/m)) {
    $pp = "";
    $file{changes}++;
  }
  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
  }
}
if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
        || ($c =~ s/^([^#$HS*include.*$ppport])$/\1/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB_\w+.*?)^/$1$pp/m)
        || ($c =~ s/^/$pp/);
}

} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*#include.*$ppport.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @c_com = @{$file{ccom}};
for $ix (0 .. $#c_com) {
    if (!$opt{cplusplus} && $c_com[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$cc$s_ccom[$ix] $cce/;
    } else {
        $c =~ s/$rcs$ix$rcce/$cc$s_ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
            }
        }
    }
print F $c;
close F;
}
else {
    error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
        }
        else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
        mydiff(
            PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(
            STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
    eval "use @_;"; return $@ eq "
}

sub mydiff {

local *F = shift;
my($file, $str) = @_;
my $diff;

if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
}

if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            
        }
    }
}
```
while (<F>) {
    s/\Q$tmp\E/$file.patched/;
    $diff .= $_; 
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $! ");
}
return undef;
}

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = %{ $seen || {}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+).\(\d+\)\(\d+\)\$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+.\[\d_\]+$/) {
        die "cannot parse version "$ver" ";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\(\d\)+\(\d\)\(\d\)\(\d\)/;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
```
if ($s % 10) {
    die "cannot parse version \'$ver\n";
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \'$ver\n";
        }
        $s /= 10;
        $ver = sprintf "%.03d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;

        return $ver;
    }

    return sprintf "%.%03d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, \"\n\";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, \"\n\";
}

sub warning
{
    $opt{quiet} and return;
}
sub error
{
  print "*** ERROR: ", @_, "\n";
}

sub hint
{
  $opt{quiet} and return;
  my $func = shift;
  my $rv = 0;
  if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
  }
  if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
  }
  $rv;
}

sub usage
{
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
  my %M = ( 'I' => '*' );
  $usage =~ s/\s*/\s*/g;
  $usage =~ s/\[A-Z]\<\([^>]+\)>/\M\1\M/g;
  print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
  exit 2;
}

sub strip
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2013 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
* /

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/util/NodeSortRecordGenerator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xpath/axes/UnionChildIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/NodeSetType.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/KeyRefIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/KeyPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/NumberCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/Copy.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/AVT.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/templates/ElemChoose.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/templates/NumberCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/templates/Copy.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/compiler/templates/AVT.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/template/TopLevelElement.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xalan/xsltc/template/AbsolutePathPattern.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
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jar/ori/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xpath/objects/XNumber.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xml/utils/WrappedRuntimeException.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xml/utils/TreeWalker.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xml/utils/TreeWalker.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/extensions/ExtensionHandlerExsltFunction.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xpath/res/XPATHErrorResources_de.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xml/utils/StringToStringTable.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/xsltc/dom/SecuritySupport12.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/extensions/XPathFunctionResloverImpl.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/xsltc/compiler/LiteralAttribute.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/xsltc/dom/FilteredStepIterator.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xml/utils/SuballocatedIntVector.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/xsltc/runtime/ErrorMessages_ko.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/serialize/SerializerUtils.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1077215937_160184913.56/0/xalan-2-7-1-redhat-3-sources-
jar/ori/apache/xpath/res/XPATHErrorResources_es.java
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 */

// Proprietary
/** The 'document-location()' id (Proprietary). */

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*/

/**
** This is a special exception that is used to stop parsing when
** search for an element. For instance, when searching for xml:stylesheet
** PIs, it is used to stop the parse once the document element is found.
** @see StylesheetPIHandler
** @xsl.usage internal
**/

Found in path(s):

* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/StopParseException.java

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package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>. 
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " 
    +getMajorVersionNum() + "," + getReleaseVersionNum() + "." +
    (getDevelopmentVersionNum() > 0)?
    ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**}
* Name of product: Xalan.
*/
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *    significant, externally apparent enhancement from
 *    the previous release. 'n' represents the n'th
 *    version.
 *    
 *    Clients should carefully consider the implications
 *    of new versions as external interfaces and behaviour
 *    may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *    - a new set of functionality is to be added, eg,
 *      implementation of a new W3C specification.
 *    - API or behaviour change.
 *    - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String(@version.DEVELOPER@)).length() == 0)
            return 0;
        else
            return Integer.parseInt(@version.DEVELOPER@);
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/Version.src

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/compiler/Keywords.java

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Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/package.html
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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
  jar/org/apache/xpath/functions/FuncDoclocation.java
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Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. ’n’ represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/Version.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java

1.2120 resteasy-jettison-provider 2.3.7.Final-redhat-2
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* /opt/cola/permits/1077218410_1601874297.38/0/resteasy-jettison-provider-2-3-7-final-redhat-2-sources-jar/META-INF/maven/org.jboss.resteasy/resteasy-jettison-provider/effective-pom.xml

1.2121 alsa-plugins 1.1.6-1.el7

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<table>
<thead>
<tr>
<th>Name: ISO/IEC 8859-4:1998 to Unicode</th>
<th></th>
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</tr>
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<td>Unicode version: 3.0</td>
<td>#Table version: 1.0</td>
<td></td>
</tr>
<tr>
<td>Date: 1999 July 27</td>
<td>#Authors: Ken Whistler <a href="mailto:kenw@sybase.com">kenw@sybase.com</a></td>
<td></td>
</tr>
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<td># General notes:</td>
<td>#</td>
</tr>
<tr>
<td>#This table contains the data the Unicode Consortium has on how ISO/IEC 8859-4:1998 characters map into Unicode.</td>
<td>#Format: Three tab-separated columns</td>
<td>#</td>
</tr>
<tr>
<td>#Column #1 is the ISO/IEC 8859-4 code (in hex as 0XX)</td>
<td>#Column #2 is the Unicode (in hex as 0xXXXX)</td>
<td>#Column #3 the Unicode name (follows a comment sign, '#')</td>
</tr>
<tr>
<td>#The entries are in ISO/IEC 8859-4 order.</td>
<td>#Version history</td>
<td>#Updated versions of this file may be found in:</td>
</tr>
<tr>
<td>#1.0 version updates 0.1 version by adding mappings for all control characters.</td>
<td>#<a href="">ftp://ftp.unicode.org/Public/MAPPINGS/</a></td>
<td>#Any comments or problems, contact <a href="mailto:errata@unicode.org">errata@unicode.org</a></td>
</tr>
<tr>
<td>#Please note that <a href="mailto:errata@unicode.org">errata@unicode.org</a> is an archival address; notices will be checked, but do not expect an immediate response.</td>
<td>#</td>
<td>0x000x0000#NULL</td>
</tr>
<tr>
<td>0x010x0001#START OF HEADING</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

44287
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-4.TXT
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 7x14B.bdf,v 1.25 2003-07-26 14:55:51+01 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--14-130-75-75-C-70-ISO10646-1
SIZE 7 75 75
FONTBOUNDINGBOX 7 14 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADDSTYLE_NAME ""
PIXEL_SIZE 14
POINT_SIZE 130
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 70
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 12
COPYRIGHT "Public domain font. Share and enjoy."
_XMBDFED_INFO "Edited with xmbdfed 4.5."
CAP_HEIGHT 10
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44289
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<th>00</th>
<th>FC</th>
<th>0C</th>
<th>18</th>
<th>18</th>
<th>30</th>
<th>30</th>
<th>60</th>
<th>60</th>
<th>C0</th>
<th>FC</th>
<th>00</th>
<th>00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENDCHAR</strong></td>
<td><strong>STARTCHAR bracketleft</strong></td>
<td><strong>ENCODING 91</strong></td>
<td><strong>SWIDTH 960 0</strong></td>
<td><strong>DWIDTH 7 0</strong></td>
<td><strong>BBX 7 14 0 -2</strong></td>
<td><strong>BITMAP</strong></td>
<td>00</td>
<td>7C</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>00</td>
<td>7C</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td><strong>ENDCHAR</strong></td>
<td><strong>STARTCHAR backslash</strong></td>
<td><strong>ENCODING 92</strong></td>
<td><strong>SWIDTH 960 0</strong></td>
<td><strong>DWIDTH 7 0</strong></td>
<td><strong>BBX 7 14 0 -2</strong></td>
<td><strong>BITMAP</strong></td>
<td>00</td>
<td>C0</td>
<td>C0</td>
<td>C0</td>
<td>60</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44345
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44372
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44373
CC
78
ENDCHAR
STARTCHAR Gdotaccent
ENCODING 288
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
CC
C0
C0
DC
CC
CC
CC
7C
00
00
ENDCHAR
STARTCHAR gdotaccent
ENCODING 289
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
30
30
00
74
DC
D8
D8
70
40
F8
CC
78
ENDCHAR
STARTCHAR Gcommaaccent
ENCODING 290
SWIDTH 960 0
STARTCHAR Lacute
ENCODING 313
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
60
C0
00
C0
C0
C0
C0
C0
C0
C0
C0
FC
00
00
ENDCHAR
STARTCHAR lacute
ENCODING 314
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
18
30
00
70
30
30
30
30
30
7C
00
00
ENDCHAR
STARTCHAR Lcommaaccent
ENCODING 315
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44409
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44416
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44433
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44436
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44459
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44472
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44477
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44479
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44484
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
44491
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44497
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44533
FC
2C
6C
6C
6C
6C
00
00
ENDCHAR
STARTCHAR uni0E12
ENCODING 3602
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
AC
EC
AC
AC
AC
FC
EC
00
00
ENDCHAR
STARTCHAR uni0E13
ENCODING 3603
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
6C
AC
6C
AC
A8
BC
EC
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44555
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44558
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44567
STARTCHAR uni0E51
ENCODING 3665
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
7C
C6
C6
76
06
7C
00
00
ENDCHAR
STARTCHAR uni0E52
ENCODING 3666
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
C0
C0
D6
DE
D6
C6
C6
7C
00
00
ENDCHAR
STARTCHAR uni0E53
ENCODING 3667
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44582
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44593
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44606
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44629
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44641
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44644
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44663
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44665
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44680
STARTCHAR emdash
ENCODING 8212
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
FE
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR afii00208
ENCODING 8213
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
FE
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni2016
ENCODING 8214
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44711
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/7x14B.bdf
No license file was found, but licenses were detected in source scan.

# Name: ISO/IEC 8859-10:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.1
# Table format: Format A
# Date: 1999 October 11
# Authors: Ken Whistler <kenw@sybase.com>
#
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#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-10 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-10 order.
#
# Version history
# 1.0 version new.
# 1.1 corrected mistake in mapping of 0xA4
#
# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>
#
# Any comments or problems, contact <errata@unicode.org>
# Please note that <errata@unicode.org> is an archival address;
# notices will be checked, but do not expect an immediate response.
#
<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
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</thead>
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</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
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<td>0x000B</td>
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<td>0x0011</td>
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</tr>
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<td>ASCII</td>
<td>Description</td>
</tr>
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<td>---------</td>
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<td>0x120</td>
<td>150</td>
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<td>160</td>
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</tr>
<tr>
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<td>DEVICE CONTROL FOUR</td>
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<td>570</td>
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</tr>
<tr>
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<td>610</td>
<td>LATIN CAPITAL LETTER A</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44735
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--13-120-75-75-C-70-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 7 13 0 -2
STARTPROPERTIES 23
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 70
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
COPYRIGHT "Public domain font. Share and enjoy."
DESTINATION 1
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
CAP_HEIGHT 9
X_HEIGHT 6
_GBDFED_INFO "Edited with gbdfed 1.3."
ENDPROPERTIES
CHARS 3226
STARTCHAR char0
ENCODING 0
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
AC
00
84
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44742
FC
00
00
ENDCHAR
STARTCHAR three
ENCODING 51
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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00
FC
04
08
10
38
04
04
84
78
00
00
ENDCHAR
STARTCHAR four
ENCODING 52
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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00
08
18
28
48
88
88
FC
08
08
00
00
00
ENDCHAR
STARTCHAR five
ENCODING 53
SWIDTH 497 0
DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44751
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44764
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44780
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44789
FC
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00
ENDCHAR
STARTCHAR Igrave
ENCODING 204
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
20
10
00
7C
10
10
10
10
10
7C
00
00
ENDCHAR
STARTCHAR Iacute
ENCODING 205
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
10
20
00
7C
10
10
10
10
10
10
7C
00
00
ENDCHAR
STARTCHAR Icircumflex
ENCODING 206
SWIDTH 497 0
DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44807
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44810
STARTCHAR divide
ENCODING 247
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
00
00
00
10
10
00
7C
00
10
10
00
00
00
ENDCHAR
STARTCHAR oslash
ENCODING 248
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
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00
00
00
00
04
78
8C
94
A4
C4
78
80
00
ENDCHAR
STARTCHAR ugrave
ENCODING 249
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44815
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44821
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44825
STARTCHAR ecaron
ENCODING 283
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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00
48
30
00
78
84
FC
80
84
78
00
00
ENDCHAR

STARTCHAR Gcircumflex
ENCODING 284
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
30
48
00
78
84
80
9C
84
8C
74
00
00
ENDCHAR

STARTCHAR gcircumflex
ENCODING 285
SWIDTH 497 0
DWIDTH 7 0
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00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44836
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44850
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30
00
FC
08
10
20
40
80
FC
00
00
ENDCHAR
STARTCHAR zcaron
ENCODING 382
SWIDTH 497 0
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BITMAP
00
00
48
30
00
FC
08
10
20
40
FC
00
00
ENDCHAR
STARTCHAR longs
ENCODING 383
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BITMAP
00
00
30
48
40
C0
40
40
40
40
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44871
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  44875
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44946
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44948
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni026A
ENCODING 618
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP

00
00
00
00
00
70
20
20
20
20
70
00
00

ENDCHAR
STARTCHAR uni026B
ENCODING 619
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP

00
00
30
10
10
34
58
10
10
10
7C
00
00

ENDCHAR
STARTCHAR uni026C
ENCODING 620
SWIDTH 497 0
DWIDTH 7 0
C4
84
84
88
00
90
60
ENDCHAR
STARTCHAR uni026F
ENCODING 623
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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00
00
00
00
44
54
54
54
54
2C
00
00
00
ENDCHAR
STARTCHAR uni0270
ENCODING 624
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BITMAP
00
00
00
00
00
44
54
54
54
54
2C
04
04
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 44874
STARTCHAR uni02BB
ENCODING 699
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A8
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR iotadieresistonos
ENCODING 912
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BITMAP
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10
A4
84
00
20
20
20
20
24
18
00
00
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STARTCHAR Alpha
ENCODING 913
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
30
48
84
84
84
84
FC
84
84
84
00
00
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  45034
FC 00 00
ENDCHAR
STARTCHAR Eta
ENCODING 919
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP 00 00
84 84 84 84 84 FC 84 84 84 84 84 00 00
ENDCHAR
STARTCHAR Theta
ENCODING 920
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP 00 00
78 84 84 84 84 FC 84 84 84 84 78 00 00
ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 497 0
DWIDTH 7 0
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STARTCHAR uni03D0
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BBX 7 13 0 -2
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48
88
B0
C8
84
84
48
30
00
00
ENDCHAR
STARTCHAR theta1
ENCODING 977
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BBX 7 13 0 -2
BITMAP
00
00
70
88
88
7C
08
88
88
88
70
00
00
ENDCHAR
STARTCHAR Upsilon1
ENCODING 978
SWIDTH 497 0
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BITMAP
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FC
84
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STARTCHAR afii10070
ENCODING 1077
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BITMAP
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00
00
00
78
84
FC
80
84
78
00
00
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STARTCHAR afii10072
ENCODING 1078
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38
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00
00
00
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STARTCHAR afii10073
ENCODING 1079
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45120
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Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 45131
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 45158
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45163
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45179
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45184
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 45188
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45192
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45200
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BBX 7 13 0 -2
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20
10
10
28
48
00
00
00
ENDCHAR

STARTCHAR afii5767
ENCODING 1491
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DWIDTH 7 0
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BITMAP
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7C
08
08
08
08
08
08
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00
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ENDCHAR

STARTCHAR afii5768
ENCODING 1492
SWIDTH 497 0
DWIDTH 7 0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 45230
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ENDCHAR
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ENCODING 3615
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BBX 7 13 0 -2
BITMAP
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04
D4
D4
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54
54
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C4
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C4
C4
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ENCODING 3617
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4C
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28
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ENDCHAR
STARTCHAR Wacute
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ENDCHAR
STARTCHAR wacute
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BBX 7 13 0 -2
BITMAP
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28
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ENDCHAR
STARTCHAR Wdieresis
ENCODING 7812
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STARTCHAR uni1FBE
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00
00
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ENDCHAR
STARTCHAR oneeighth
ENCODING 8539
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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C0
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44
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00
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BITMAP
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E8
F4
74
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46009
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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ENCODING 10397
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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6C
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60
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STARTCHAR uni289E
ENCODING 10398
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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0C
00
6C
6C
00
60
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0C
0C
0C
00
ENDCHAR
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ENCODING 10399
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DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46026
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46034
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46059
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46061
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46067
No license file was found, but licenses were detected in source scan.

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STARTCHAR period
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BITMAP
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ENDCHAR
STARTCHAR seven
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BBX 9 18 0 -4
BITMAP
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ENDCHAR
STARTCHAR eight
ENCODING 56
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46107
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
46129
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46131
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ENDCHAR
STARTCHAR twosuperior
ENCODING 178
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DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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STARTCHAR threesuperior
ENCODING 179
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BBX 9 18 0 -4
BITMAP
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0C00
0600
3600
1C00
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STARTCHAR Rcaron
ENCODING 344
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BBX 9 18 0 4
BITMAP
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6300
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6300
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7E00
6C00
6600
6300
6300
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46240
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46252
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46253
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46278
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR Nu
ENCODING 925
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
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0000
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6300
6300
7300
7B00
6F00
6700
6300
6300
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6300
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ENDCHAR
STARTCHAR Xi
ENCODING 926
SWIDTH 540 0
DWIDTH 9 0
0000
3800
6C00
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6C00
6C00
7E00
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6300
6300
6300
6300
7E00
6000
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ENDCHAR
STARTCHAR gamma
ENCODING 947
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BBX 9 18 0 -4
BITMAP
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0000
C300
C300
6600
6600
3C00
3C00
1800
1800
1800
1800
1800
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ENDCHAR
STARTCHAR delta
ENCODING 948
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DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46298
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46306
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46307
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46332
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STARTCHAR afii57668
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SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
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FF00
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C600
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ENDCHAR
STARTCHAR afii57669
ENCODING 1493
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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6000
7800
1C00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46376
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46403
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46416
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A300
4300
0000
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ENDCHAR
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ENCODING 3668
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BBX 9 18 0 -4
BITMAP
0000
0000
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0100
3E00
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C400
CA00
CC00
6600
3F00
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ENDCHAR
STARTCHAR uni0E55
ENCODING 3669
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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0800
1500
3E00
6000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46438

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46441
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46450
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46463
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46465
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46467
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/9x18B.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT Std: 7x13O.bdf,v 1.9 2002-11-08 20:42:37+00 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-O-Normal--13-120-75-75-C-70-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 7 13 0 -2
STARTPROPERTIES 23
FONTNAME_REGISTY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "O"
SETWIDTH_NAME "Normal"
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46502
ENCODE 102
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
38
44
40
40
F0
40
80
80
80
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ENDCHAR
STARTCHAR g
ENCODE 103
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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3A
44
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84
78
ENDCHAR
STARTCHAR h
ENCODE 104
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46514
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46519
BITMAP
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ENDCHAR
STARTCHAR section
ENCODING 167
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
18
24
20
30
48
48
30
10
90
60
00
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00
ENDCHAR
STARTCHAR dieresis
ENCODING 168
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46527
BITMAP
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ENDCHAR
STARTCHAR Edieresis
ENCODING 203
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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7E
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ENDCHAR
STARTCHAR Igrave
ENCODING 204
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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7C
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46562
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46571
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46574
ENCODING 291
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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3A
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ENDCHAR
STARTCHAR Hcircumflex
ENCODING 292
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
18
24
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42
42
42
7C
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ENDCHAR
STARTCHAR hecircumflex
ENCODING 293
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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12
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46582
ENCODING 327
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
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18
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ENDCHAR
STARTCHAR ncaron
ENCODING 328
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
00
00
24
18
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5C
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42
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84
84
00
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ENDCHAR
STARTCHAR napostrophe
ENCODING 329
SWIDTH 497.0
DWIDTH 7.0
BBX 7 13 0 -2
BITMAP
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C0
40
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46597
BITMAP
00
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42
42
42
42
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42
84
84
84
78
20
10
ENDCHAR
STARTCHAR uogonek
ENCODING 371
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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8C
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ENDCHAR
STARTCHAR Wcircumflex
ENCODING 372
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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5A
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46616
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46620
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46637
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46639
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46642
ENCODING 935
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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42
42
24
24
18
18
28
44
84
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ENDCHAR
STARTCHAR Psi
ENCODING 936
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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54
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54
54
A8
A8
70
20
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ENDCHAR
STARTCHAR Omega
ENCODING 937
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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3C

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46650
BITMAP
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00
44
48
50
60
90
88
00
00
ENDCHAR
STARTCHAR lambda
ENCODING 955
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
3C
42
02
3A
46
42
84
84
84
00
00
ENDCHAR
STARTCHAR mu
ENCODING 956
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
00
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00
42
42
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46699
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46764
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46774
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BITMAP
00
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10
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7C
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ENDCHAR
STARTCHAR daggerdbl
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AA
94
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ENCODING 8241
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BBX 7 13 0 -2
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00
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22
52
24
08
10
24
6A
D4
A8
00
00
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STARTCHAR minute
ENCODING 8242
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
10
10
20
00
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00
00
00
00
ENDCHAR
STARTCHAR second
A0
A0
A0
A0
00
00
ENDCHAR
STARTCHAR uni204C
ENCODING 8268
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
00
00
3E
7A
7A
F4
F4
7C
00
00
00
ENDCHAR
STARTCHAR uni204D
ENCODING 8269
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
00
00
7C
5E
5E
BC
BC
F8
00
00
00
ENDCHAR
STARTCHAR uni20A8
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46820
No license file was found, but licenses were detected in source scan.

# Name: JIS X 0201 (1976) to Unicode 1.1 Table
# Unicode version: 1.1
# Table version: 0.9
# Table format: Format A
# Date: 8 March 1994
# Authors: Glenn Adams <glenn@metis.com>
#          John H. Jenkins <John_Jenkins@taligent.com>
#
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# to third parties or other organizations whether for profit or not.
#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# single-byte JIS X 0201 characters map into Unicode 1.1
#
# Format: Three tab-separated columns
# Column #1 is the shift JIS code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xFFFF)
# Column #3 the Unicode (ISO 10646) name (follows a comment sign)
#
# The entries are in JIS order
#
# These mappings are provisional, pending definition of
# official mappings by Japanese standards bodies.
#
# Any comments or problems, contact <John_Jenkins@taligent.com>
#
# 0x200x0020# SPACE
0x210x0021# EXCLAMATION MARK
0x220x0022# QUOTATION MARK
0x230x0023# NUMBER SIGN
0x240x0024# DOLLAR SIGN
0x250x0025# PERCENT SIGN
0x260x0026# AMPERSAND
0x270x0027# APOSTROPHE
0x280x0028# LEFT PARENTHESES
0x290x0029# RIGHT PARENTHESES
0x2A0x002A# ASTERISK
0x2B0x002B# PLUS SIGN
0x2C0x002C# COMMA
0x2D0x002D# HYPHEN-MINUS
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/JIS0201.TXT
No license file was found, but licenses were detected in source scan.

```
STARTFONT 2.1
COMMENT "$Id: 9x18.bdf,v 1.53 2009-04-06 18:50:15+01 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--18-120-100-100-C-90-ISO10646-1
SIZE 12 100 100
FONTBOUNDINGBOX 9 18 0 -4
STARTPROPERTIES 22
FONTNAME_REGISTY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 18
POINT_SIZE 120
RESOLUTION_X 100
RESOLUTION_Y 100
SPACING "C"
AVERAGE_WIDTH 90
CHARSET_REGISTY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 4
FONT_ASCENT 14
COPYRIGHT "Public domain font. Share and enjoy."
CAP_HEIGHT 10
X_HEIGHT 7
_GBDFFED_INFO "Edited with gbdfed 1.3."
ENDPROPERTIES
CHARS 4766
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2200
4200
7F00
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0200
0200
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DWIDTH 9 0
BBX 9 18 0 -4
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0000
0000
7F00
4000
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0100
0100
4200
3C00
0000
0000
0000
0000
ENDCHAR
STARTCHAR six
ENCODING 54
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
1E00
2000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46843
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46848
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46853
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46863
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46873
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  46886

Start of copyright

End of copyright
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46928
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46929
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46935
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46938
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
ENDCHAR
STARTCHAR lcommaaccent
ENCODING 316
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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0000
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3800
0800
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3E00
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2400
1800
0000
ENDCHAR
STARTCHAR Lcaron
ENCODING 317
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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STARTCHAR Uogonek

ENCODING 370

SWIDTH 540 0

DWIDTH 9 0

BBX 9 18 0 -4

BITMAP

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4100

4100

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**ENDCHAR**

STARTCHAR uogonek

ENCODING 371

SWIDTH 540 0

DWIDTH 9 0

BBX 9 18 0 -4

BITMAP

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 46992
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
2200
1400
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ENDCHAR
STARTCHAR zcaron
ENCODING 382
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
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2200
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0800
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7F00
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7F00
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ENDCHAR
STARTCHAR longs
ENCODING 383
SWIDTH 540 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  47009
ENDCCHAR
STARTCHAR uni019C
ENCODING 412
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
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4900
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3700
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ENDCHAR
STARTCHAR uni019D
ENCODING 413
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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2100
2100
2100
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3100
2900
2500
2300
2100
2100
2100
A000
4000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47018
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47021
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

0000
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ENDCHAR
STARTCHAR gcaron
ENCODING 487
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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2200
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4200
4200
4200
3C00
4000
3E00
4100
4100
3E00
0000
ENDCHAR
STARTCHAR uni01E8
ENCODING 488
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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1400
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4100
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4400
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5000
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4200
4100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47056
ENCODING 506
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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ENDCHAR
STARTCHAR aringacute
ENCODING 507
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0400
0800
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1C00
2200
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3F00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47065
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47066
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

47083
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47088
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47099
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
47113
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47117
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  47123
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  47130
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  47151
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  47163
3C00
0400
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0000
ENDCHAR
STARTCHAR uni02E7
ENCODING 743
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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0400
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ENDCHAR
STARTCHAR uni02E8
ENCODING 744
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
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0400
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47189
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47203
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47226
0000
0000
0000
ENDCHAR
STARTCHAR anoteleia
ENCODING 903
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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7F00
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7C00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47240
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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ENCODING 974
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47288
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0100
7E00
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0000
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0100
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ENCODING 1501
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47538
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47542
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C300
3300
6300
6300
6300
6300
6300
6300
3E00
0000
0000
0000
0000
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BBX 9 18 0 -4
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STARTCHAR uni1245
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DWIDTH 9 0
BBX 9 18 0 -4
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1800
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DB00
DB00
7E00
1800
1800
1800
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0000
0000
0000
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STARTCHAR uni1246
ENCODING 4678
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DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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DB00
DB00
7E00
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0F00
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0C00
0C00
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0000
0000
0000
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STARTCHAR uni128B
ENCODING 4747
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DWIDTH 9 0
BBX 9 18 0 -4
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0600
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0600
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STARTCHAR uni128C
ENCODING 4748
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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ENCODING 5044
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
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ENCODING 5070
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DWIDTH 9 0
BBX 9 18 0 -4
BITMAP 0000 0000 0000 0000 0400 0C00 0C00 1400 1400 2500 3F00 0500 0400 0400 0000 0000 0000 0000

ENDCHAR
STARTCHAR uni13CF
ENCODING 5071
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP 0000 0000
Open Source Used In Field Network Director for Virtual Machine Installation

4.7.1

47802
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni1406
ENCODING 5126
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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1800
1800
8000
E000
9800
8600
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8100
8600
9800
E000
8000
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ENDCHAR
STARTCHAR uni1407
ENCODING 5127
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BBX 9 18 0 -4
BITMAP
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6600
0000
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E000
9800
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

8600
8100
8100
8600
9800
E000
8000
0000
0000
0000
0000
ENDCHAR

STARTCHAR uni1408
ENCODING 5128
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
8000
E000
9800
A600
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A100
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E000
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ENDCHAR

STARTCHAR uni1409
ENCODING 5129
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 47809
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0000
ENDCHAR
STARTCHAR uni141B
ENCODING 5147
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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0600
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C700
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0100
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STARTCHAR uni141C
ENCODING 5148
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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4900
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0800
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STARTCHAR uni16C7
ENCODING 5831
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BBX 9 18 0 -4
BITMAP
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48082
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BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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STARTCHAR uni1F2F
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D100
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ENDCHAR
STARTCHAR uni1F30
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DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48170
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STARTCHAR uni1F54
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  48441
On page 1 of the document, there are no visible lines of text or content. However, the document seems to be associated with a page from 'Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48451', which suggests it could be a page from a technical manual or reference guide.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48462
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  48476
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0800
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4000
7F00
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STARTCHAR minus
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BBX 9 18 0 -4
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STARTCHAR infinity
ENCODING 8734
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4100
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ENCODING 8949
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STARTCHAR uni2365
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BBX 9 18 0 -4
BITMAP
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4100
2200
1C00
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STARTCHAR uni2366
ENCODING 9062
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48961
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48993
3400
3400
1800
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni2714
ENCODING 10004
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0300
0300
0300
0300
0600
0600
EC00
EC00
7800
7800
0000
0000
0000
ENDCHAR
STARTCHAR uni2715
ENCODING 10005
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
4100
E380
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48024
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49037
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49039
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48052
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48053
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
0000
0000
7F00
C180
FD80
FB80
FB80
F780
F780
F780
7F00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni277D
ENCODING 10109
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
7F00
E380
DD80
DD80
E380
DD80
DD80
E380
7F00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni277E
ENCODING 10110
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48092
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 49100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
49119

0600
0600
0000
3000
3000
0000
0000
0000
0000
0000
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0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni281E
ENCODING 10270
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0600
0600
0000
0000
3600
3600
0000
3000
3000
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0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni281F
ENCODING 10271
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
3600
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 49130
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49140
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49158
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49176
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49188
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49226
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49253
0800
0800
ENDCHAR
STARTCHAR uniFB30
ENCODING 64304
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
8400
C700
6500
3200
DA00
8E00
4600
6300
E100
0000
1800
0000
0000
ENDCHAR
STARTCHAR uniFB31
ENCODING 64305
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
8000
FC00
7E00
0200
1A00
0200
7F00
FE00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49271
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49276
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49311
#
# Name: ISO/IEC 8859-1:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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# attached.
#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# ISO/IEC 8859-1:1998 characters map into Unicode.
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-1 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-1 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
control characters.

# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>

# Any comments or problems, contact <errata@unicode.org>
# Please note that <errata@unicode.org> is an archival address;
# notices will be checked, but do not expect an immediate response.

0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1Fx001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-1.TXT

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#
# Name: ISO/IEC 8859-8:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.1
# Table format: Format A
# Date: 2000-Jan-03
# Authors: Ken Whistler <kenw@sybase.com>
#
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#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# ISO/IEC 8859-8:1999 characters map into Unicode.
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-8 code (in hex as 0XX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, ' # ')
#
# The entries are in ISO/IEC 8859-8 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
# control characters.
# 1.1 version updates to the published 8859-8:1999, correcting
# the mapping of 0xAF and adding mappings for LRM and RLM.
#
# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>
#
# Any comments or problems, contact <errata@unicode.org>
# Please note that <errata@unicode.org> is an archival address;
# notices will be checked, but do not expect an immediate response.
#
0x00000000#NULL
0x01000001#START OF HEADING
0x02000002#START OF TEXT
0x03000003#END OF TEXT
0x04000004#END OF TRANSMISSION
0x05000005#ENQUIRY
0x06000006#ACKNOWLEDGE
0x07000007#BELL
0x08000008#BACKSPACE
0x09000009#HORIZONTAL TABULATION
0x0A00000A#LINE FEED
0x0B00000B#VERTICAL TABULATION
0x0C00000C#FORM FEED
0x0D00000D#CARRIAGE RETURN
0x0E00000E#SHIFT OUT
0x0F00000F#SHIFT IN
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1Ax001A#SUBSTITUTE
0x1Bx001B#ESCAPE
0x1Cx001C#FILE SEPARATOR
0x1Dx001D#GROUP SEPARATOR
0x1Ex001E#RECORD SEPARATOR
0x1Fx001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
0x2Ax002A#ASTERISK
0x2Bx002B#PLUS SIGN
0x2Cx002C#COMMA
0x2Dx002D#HYPHEN-MINUS
0x2Ex002E#FULL STOP
0x2Fx002F#SOLIDUS
0x300x0030#DIGIT ZERO
0x310x0031#DIGIT ONE
0x320x0032#DIGIT TWO
0x330x0033#DIGIT THREE
0x340x0034#DIGIT FOUR
0x350x0035#DIGIT FIVE
0x360x0036#DIGIT SIX
0x370x0037#DIGIT SEVEN
0x380x0038#DIGIT EIGHT
0x390x0039#DIGIT NINE
0x3Ax003A#COLON
0x3Bx003B#SEMICOLON
0x3Cx003C#LESS-THAN SIGN
0x3 Dx003D#EQUALS SIGN
0x3Ex003E#GREATER-THAN SIGN
0x3Fx003F#QUESTION MARK
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-8.TXT
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STARTFONT 2.1
COMMENT "Id: 5x7.bdf,v 1.38 2006-01-05 20:03:17+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--7-70-75-75-C-50-ISO10646-1
SIZE 7 75 75
FONTBOUNDINGBOX 5 7 0 -1
STARTPROPERTIES 23
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 7
POINT_SIZE 70
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 50
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
FONT_ASCENT 6
FONT_DESCENT 1
DESTINATION 1
DEFAULT_CHAR 0
COPYRIGHT "Public domain font. Share and enjoy."
_XMBDFED_INFO "Edited with xmbdfed 4.5."
CAP_HEIGHT 6
X_HEIGHT 4
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49327
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49357
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

30
70
10
ENDCHAR
STARTCHAR questiondown
ENCODING 191
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
00
20
40
50
20
00
ENDCHAR
STARTCHAR Agrave
ENCODING 192
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
90
90
F0
90
90
00
ENDCHAR
STARTCHAR Aacute
ENCODING 193
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
90
90
F0
90
90
00
ENDCHAR
STARTCHAR Acircumflex
ENCODING 194
STARTCHAR Eacute
ENCODING 201
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F0
80
E0
80
80
F0
00
ENDCHAR
STARTCHAR Ecircumflex
ENCODING 202
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F0
80
E0
80
80
F0
00
ENDCHAR
STARTCHAR Edieresis
ENCODING 203
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F0
80
E0
80
80
F0
00
ENDCHAR
STARTCHAR Igrave
ENCODING 204
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49374
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49378
BBX 570 -1
BITMAP
90
60
70
90
B0
50
00
ENDCHAR
STARTCHAR Aogonek
ENCODING 260
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
60
90
90
F0
90
90
10
ENDCHAR
STARTCHAR aogonek
ENCODING 261
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
00
00
70
90
B0
50
08
ENDCHAR
STARTCHAR Cacute
ENCODING 262
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
60
90
80
80
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48395
A0
90
80
ENCODING 311
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
80
80
80
A0
C0
A0
90
80
ENCODING 312
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
90
E0
90
90
00
ENCODING 313
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
90
A0
80
80
80
F0
00
ENCODING 314
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49408
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49414
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49417
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49423
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49425
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49435
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
A8
90
00
ENDCHAR
STARTCHAR uni01F7
ENCODING 503
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
E0
90
A0
C0
80
80
00
ENDCHAR
STARTCHAR uni01F8
ENCODING 504
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
90
D0
D0
B0
B0
90
00
ENDCHAR
STARTCHAR uni01F9
ENCODING 505
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
40
20
E0
90
90
90
00
ENDCHAR
STARTCHAR Aringacute
ENCODING 506
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49473
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49486
OPEN SOURCE USED IN FIELD NETWORK DIRECTOR FOR VIRTUAL MACHINE INSTALLATION 4.7.1  49508

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49508
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR upsilondieresistonos
ENCODING 944
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
B0
40
90
90
90
60
00
ENDCHAR
STARTCHAR alpha
ENCODING 945
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
00
00
70
90
B0
50
00
ENDCHAR
STARTCHAR beta
ENCODING 946
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
60
90
E0
90
90
E0
80
ENDCHAR
STARTCHAR gamma
ENCODING 947
STARTCHAR afii10055
ENCODING 1030
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
20
20
20
20
70
00
ENDCHAR
STARTCHAR afii10056
ENCODING 1031
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
20
20
20
20
70
00
ENDCHAR
STARTCHAR afii10057
ENCODING 1032
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
10
10
10
10
90
60
00
ENDCHAR
STARTCHAR afii10058
ENCODING 1033
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49536
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49574
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49576
STARTCHAR uni16E2
ENCODING 5858
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
28
30
20
20
60
A0
00
ENDCHAR
STARTCHAR uni16E3
ENCODING 5859
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
20
20
70
A8
A8
00
ENDCHAR
STARTCHAR uni16E4
ENCODING 5860
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
90
F0
90
90
F0
90
00
ENDCHAR
STARTCHAR uni16EB
ENCODING 5867
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

40
20
00
90
50
20
40

ENDCHAR
STARTCHAR uni1F00
ENCODING 7936
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
20
70
90
B0
50
00

ENDCHAR
STARTCHAR uni1F01
ENCODING 7937
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
40
70
90
B0
50
00

ENDCHAR
STARTCHAR uni1F02
ENCODING 7938
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
E0
50
70
90
B0
50
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49602
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 48611
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49617
A0
D0
50
50
20
50
00
ENDCHAR
STARTCHAR uni1F6C
ENCODING 8044
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
A0
D0
50
50
20
50
00
ENDCHAR
STARTCHAR uni1F6D
ENCODING 8045
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
A0
D0
50
50
20
50
00
ENDCHAR
STARTCHAR uni1F6E
ENCODING 8046
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
A0
D0
50
50
20
50
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49635
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49649
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49667
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  49677
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49690
STARTCHAR gradient
ENCODING 8711
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F8
88
50
50
20
20
00
ENDCHAR
STARTCHAR element
ENCODING 8712
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
70
80
F0
80
70
00
ENDCHAR
STARTCHAR notelement
ENCODING 8713
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
10
70
A0
F0
A0
70
40
ENDCHAR
STARTCHAR uni220A
ENCODING 8714
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR orthogonal
ENCODING 8735
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
80
80
80
F0
00
ENDCHAR
STARTCHAR angle
ENCODING 8736
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
10
20
40
F0
00
ENDCHAR
STARTCHAR uni2221
ENCODING 8737
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
10
A0
40
F0
20
ENDCHAR
STARTCHAR uni2222
ENCODING 8738
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

BBX 5 7 0 -1
BITMAP
00
00
60
90
90
90
00
ENDCHAR
STARTCHAR union
ENCODING 8746
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
90
90
90
60
00
ENDCHAR
STARTCHAR integral
ENCODING 8747
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
10
28
20
20
20
A0
40
ENDCHAR
STARTCHAR uni222C
ENCODING 8748
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
28
50
50
50
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
38
70
70
F8
70
70
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ENCODING 8756

STARTCHAR therefore

ENCODING 8757

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ENCODING 8758

STARTCHAR uni2235

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BITMAP
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ENCODING 8759

STARTCHAR uni2236
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49718
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49729
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49740
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49749
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49753
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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B8
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ENCODING 9621
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DWIDTH 5 0
BBX 570 -1
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A8
D8
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D8
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STARTCHAR female
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

- club
- heart
- diamond
- uni2669
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49817
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ENCODING 10397
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No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 5x8.bdf,v 1.32 2006-01-05 20:03:17+00 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--8-80-75-75-C-50-ISO10646-1
SIZE 11 75 75
FONTBOUNDINGBOX 5 8 0 -1
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AVERAGE_WIDTH 50
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CHARSET_ENCODING "1"
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FONT_ASCENT 7
COPYRIGHT "Public domain font. Share and enjoy."
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_XMBDFED_INFO "Edited with xmbfed 4.5."
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X_HEIGHT 4
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STARTCHAR Yacute
ENCODING 221
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 49920

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C0
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C0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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ENCODING 311
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STARTCHAR kgreenlandic
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ENDCHAR
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ENDCHAR
STARTCHAR lacute
ENCODING 314
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BITMAP
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STARTCHAR Lcommaaccent
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ENCODING 923
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BITMAP
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ENDCHAR
STARTCHAR Mu
ENCODING 924
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BITMAP
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ENDCHAR
STARTCHAR Nu
ENCODING 925
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

50004

ENDCHAR
STARTCHAR theta
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Open Source Used in Field Network Director for Virtual Machine Installation

4.7.1

50137
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No license file was found, but licenses were detected in source scan.

# Name: ISO/IEC 8859-13:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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General notes:

This table contains the data the Unicode Consortium has on how ISO/IEC 8859-13:1998 characters map into Unicode.

Format: Three tab-separated columns
Column #1 is the ISO/IEC 8859-13 code (in hex as 0xXX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#')
The entries are in ISO/IEC 8859-13 order.

Updated versions of this file may be found in:
<ftp://ftp.unicode.org/Public/MAPPINGS/>

Any comments or problems, contact <errata@unicode.org>
Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.

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<td>0x0016</td>
<td>SYNCHRONOUS IDLE</td>
</tr>
<tr>
<td>0x17</td>
<td>0x0017</td>
<td>END OF TRANSMISSION BLOCK</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50314
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-1.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-13.TXT

No license file was found, but licenses were detected in source scan.

# Name: ISO 8859-5:1999 to Unicode
<table>
<thead>
<tr>
<th>ISO/IEC 8859-5 Code (in hex as 0xXX)</th>
<th>Unicode (in hex as 0xXXXX)</th>
<th>Unicode Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00</td>
<td>0x0000</td>
<td># NULL</td>
</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
<td># START OF HEADING</td>
</tr>
<tr>
<td>0x02</td>
<td>0x0002</td>
<td># START OF TEXT</td>
</tr>
</tbody>
</table>

General notes:

This table contains the data the Unicode Consortium has on how ISO/IEC 8859-5:1999 characters map into Unicode.

Version history:

1.0 version updates 0.1 version by adding mappings for all control characters.

Updated versions of this file may be found in:

ftp://ftp.unicode.org/Public/MAPPINGS/
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50325

No license file was found, but licenses were detected in source scan.

# Name: ISO/IEC 8859-11:2001 to Unicode
# Unicode version: 3.2
# Table version: 1.0
# Table format: Format A
# Date: 2002 October 7
# Authors: Ken Whistler <kenw@sybase.com>

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# attached.

# General notes:

# This table contains the data the Unicode Consortium has on how
# ISO/IEC 8859-11:2001 characters map into Unicode.
#ISO/IEC 8859-11:2001 is equivalent to TIS 620-2533 (1990) with
#the addition of 0xA0 NO-BREAK SPACE.
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-11 code (in hex as 0xEE)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-11 order.
#
#Version history:
#2002 October 7 Created
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#For any comments or problems, please use the Unicode
#web contact form at:
#http://www.unicode.org/unicode/reporting.html
#
0x00000000#NULL
0x01000001#START OF HEADING
0x02000002#START OF TEXT
0x03000003#END OF TEXT
0x04000004#END OF TRANSMISSION
0x05000005#ENQUIRY
0x06000006#ACKNOWLEDGE
0x07000007#BELL
0x08000008#BACKSPACE
0x09000009#HORIZONTAL TABULATION
0x0A00000A#LINE FEED
0x0B00000B#VERTICAL TABULATION
0x0C00000C#FORM FEED
0x0D00000D#CARRIAGE RETURN
0x0E00000E#SHIFT OUT
0x0F00000F#SHIFT IN
0x10000010#DATA LINK ESCAPE
0x11000011#DEVICE CONTROL ONE
0x12000012#DEVICE CONTROL TWO
0x13000013#DEVICE CONTROL THREE
0x14000014#DEVICE CONTROL FOUR
0x15000015#NEGATIVE ACKNOWLEDGE
0x16000016#SYNCHRONOUS IDLE
0x17000017#END OF TRANSMISSION BLOCK
0x18000018#CANCEL
0x19000019#END OF MEDIUM
0x1A00001A#SUBSTITUTE
0x1B00001B#ESCAPE
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50328
0xE00x0E40#THAI CHARACTER SARA E
0xE10x0E41#THAI CHARACTER SARA AE
0xE20x0E42#THAI CHARACTER SARA O
0xE30x0E43#THAI CHARACTER SARA AI MAIMUAN
0xE40x0E44#THAI CHARACTER SARA AI MAIMALAI
0xE50x0E45#THAI CHARACTER LAKKHANGYAO
0xE60x0E46#THAI CHARACTER MAIYAMOK
0xE70x0E47#THAI CHARACTER MAITAIKHU
0xE80x0E48#THAI CHARACTER MAI EK
0xE90x0E49#THAI CHARACTER MAI THO
0xEA0x0E4A#THAI CHARACTER MAI TRI
0xEB0x0E4B#THAI CHARACTER MAI CHATTAWA
0xEC0x0E4C#THAI CHARACTER THANTHAKHAT
0xED0x0E4D#THAI CHARACTER NIKAHIT
0xEE0x0E4E#THAI CHARACTER YAMAKKAN
0xEF0x0E4F#THAI CHARACTER FONGMAN
0xF00x0E50#THAI DIGIT ZERO
0xF10x0E51#THAI DIGIT ONE
0xF20x0E52#THAI DIGIT TWO
0xF30x0E53#THAI DIGIT THREE
0xF40x0E54#THAI DIGIT FOUR
0xF50x0E55#THAI DIGIT FIVE
0xF60x0E56#THAI DIGIT SIX
0xF70x0E57#THAI DIGIT SEVEN
0xF80x0E58#THAI DIGIT EIGHT
0xF90x0E59#THAI DIGIT NINE
0xFA0x0E5A#THAI CHARACTER ANGKHANKHU
0xFB0x0E5B#THAI CHARACTER KHOMUT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-11.TXT
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-SemiCondensed--12-110-75-75-C-60-ISO10646-1
SIZE 12 75 75
FONTBOUNDINGBOX 6 12 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRATION ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "SemiCondensed"
ADD_STYLE_NAME ""
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50333
A8
20
00
00
ENDCHAR
STARTCHAR plus
ENCODING 43
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
20
20
F8
20
20
00
00
00
00
ENDCHAR
STARTCHAR comma
ENCODING 44
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
60
60
60
C0
00
ENDCHAR
STARTCHAR hyphen
ENCODING 45
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

50338
80
00
00
ENDCHAR
STARTCHAR zero
ENCODING 48
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
30
48
48
48
48
48
48
30
00
00
ENDCHAR
STARTCHAR one
ENCODING 49
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
20
60
20
20
20
20
70
00
00
ENDCHAR
STARTCHAR two
ENCODING 50
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50341
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50342
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50354
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50358
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50370
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50391

DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
20
50
00
70
88
88
88
88
88
88
70
00
00
ENDCHAR
STARTCHAR Otilda
ENCODING 213
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
68
B0
00
70
88
88
88
88
88
88
88
70
00
00
ENDCHAR
STARTCHAR Odieresis
ENCODING 214
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
50
00
70
88
88
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50394
20
00
70
88
88
88
70
00
00
ENDCHAR
STARTCHAR oacute
ENCODING 243
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
10
20
00
70
88
88
88
70
00
00
ENDCHAR
STARTCHAR ocircumflex
ENCODING 244
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
20
50
00
70
88
88
88
70
00
00
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50411
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50426
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50430
70
00
00
ENDCHAR
STARTCHAR Lslash
ENCODING 321
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
40
40
60
C0
40
40
78
00
00
ENDCHAR
STARTCHAR Nacute
ENCODING 323
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
60
20
30
60
20
20
70
00
00
ENDCHAR
STARTCHAR Nacute
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50442
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50468
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50474
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50495
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50499
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50500
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50516
BITMAP
00
20
00
70
88
88
88
88
88
70
00
00
ENDCHAR
STARTCHAR uni022F
ENCODING 559
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
20
00
70
88
88
88
70
00
00
ENDCHAR
STARTCHAR uni0230
ENCODING 560
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
70
00
20
00
70
88
88
88
88
88
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50529
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 50535
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50545
70
10
60
ENDCHAR
STARTCHAR uni0261
ENCODING 609
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
70
88
88
78
08
70
ENDCHAR
STARTCHAR uni0262
ENCODING 610
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
78
80
98
88
70
00
00
ENDCHAR
STARTCHAR uni0263
ENCODING 611
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50565
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50571
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50573
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50594
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50597
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50605
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50611
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50623
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50626
50
ENDCHAR
STARTCHAR uni035B
ENCODING 859
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
40
70
10
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni035C
ENCODING 860
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
00
04
44
38
ENDCHAR
STARTCHAR uni035D
ENCODING 861
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
38
44
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 50678
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50681
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50694
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50708
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50715
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

88
00
00
ENDCHAR
STARTCHAR afii10029
ENCODING 1051
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
38
48
48
48
48
48
88
00
00
00
ENDCHAR
STARTCHAR afii10030
ENCODING 1052
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
88
D8
A8
88
88
88
88
88
88
00
00
ENDCHAR
STARTCHAR afii10031
ENCODING 1053
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50814
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50826
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50831
BITMAP
00
00
70
88
A8
30
28
88
88
70
00
00
00
ENDCHAR
STARTCHAR uni0546
ENCODING 1350
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
40
80
C0
40
40
40
48
30
00
00
00
ENDCHAR
STARTCHAR uni0547
ENCODING 1351
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
08
F0
40
80
88
88
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50858
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR uni168E
ENCODING 5774
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
3C
3C
3C
FC
78
78
78
00
00
ENDCHAR
STARTCHAR uni168F
ENCODING 5775
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
7C
7C
7C
FC
F8
F8
F8
00
00
ENDCHAR
STARTCHAR uni1690
ENCODING 5776
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50898
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50907
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  50917
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 50980
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 S1011
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51015
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51022
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51027
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51048
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51069
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51073
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  S1074
ENCODING 8315
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
70
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni207C
ENCODING 8316
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
70
00
70
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR parenleftsuperior
ENCODING 8317
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
20
40
40
40
20
ENDCHAR
STARTCHAR uni2093
ENCODING 8339
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
A0
40
A0
ENDCHAR
STARTCHAR uni2094
ENCODING 8340
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
C0
20
E0
A0
40
ENDCHAR
STARTCHAR uni20A0
ENCODING 8352
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51112
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 51122
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 51126
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51139
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51145
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51147
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51164
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51198
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51199
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
such that
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51224
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51234
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

Therefore
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51240
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51241
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
28
20
00
ENDCHAR
STARTCHAR uni22E1
ENCODING 8929
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
20
A0
60
38
60
B8
60
A0
20
00
ENDCHAR
STARTCHAR uni22E2
ENCODING 8930
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
20
F8
A0
A0
F8
20
F8
20
F8
20
00
00
ENDCHAR
STARTCHAR uni22E3
ENCODING 8931
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51312
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51319
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51339
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51353
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51365
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51367
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51395
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 51413
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51423
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 S1441
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 51447
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51464
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51486
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
F0
10
D0
50
50
50
50
ENDCHAR
STARTCHAR SF500000
ENCODING 9560
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
20
20
20
20
20
3C
20
3C
00
00
00
00
ENDCHAR
STARTCHAR SF490000
ENCODING 9561
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
50
50
50
50
50
50
50
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51538
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51549
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51555
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51568
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51574
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51583
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

51587
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51596
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 S1601
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
BITMAP
00
00
00
70
20
A8
F8
A8
20
70
00
00
ENDCHAR
STARTCHAR uni262A
ENCODING 9770
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
78
E4
C8
DC
C8
D4
C0
E4
78
00
00
ENDCHAR
STARTCHAR uni262B
ENCODING 9771
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
A8
50
00
20
A8
A8
A8
70
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51613
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51642
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

51656
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51675
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51683
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51705
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51711
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51718
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51720
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51735
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51739
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51781
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51797
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51800
BBX 6 12 0 -2
BITMAP
00
18
18
00
00
00
C0
C0
00
18
18
ENDCHAR
STARTCHAR uni288D
ENCODING 10381
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
D8
D8
00
00
00
00
C0
C0
00
18
18
ENDCHAR
STARTCHAR uni288E
ENCODING 10382
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
18
18
00
C0
C0
00
C0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51819
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51830
ENCODEING 10413
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
D8
D8
00
00
00
D8
D8
00
18
18
ENDCHAR
STARTCHAR uni28AE
ENCODEING 10414
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
18
18
00
C0
C0
00
D8
D8
00
18
18
ENDCHAR
STARTCHAR uni28AF
ENCODEING 10415
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
D8
D8
00
C0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51844
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51878
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51899
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51907
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  51916
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51924
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51952
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51960
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51967
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 51981
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52024
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52026
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52034
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

52053
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52072
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  5Z110
No license file was found, but licenses were detected in source scan.

#
#Name: KOI8-R (RFC1489) to Unicode
#Unicode version: 3.0
#Table version: 1.0
#Table format: Format A
#Date: 18 August 1999
#Authors: Helmut Richter <richter@lrz.de>
#
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#General notes:
#
#This table contains the data the Unicode Consortium has on how
#KOI8-R characters map into Unicode. The underlying document is the
#mapping described in RFC 1489. No statements are made as to whether
#this mapping is the same as the mapping defined as "Code Page 878"
#with some vendors.
#
#Format: Three tab-separated columns
#Column #1 is the KOI8-R code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in KOI8-R order.
#
#Version history
#1.0 version: created.
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52128
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

52131
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52135
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52140
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52144
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 52147
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52149
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52157
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52159
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52164
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52165
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52168
90
60
ENDCHAR
STARTCHAR plusminus
ENCODING 177
SWIDTH 560 0
DWIDTH 7 0
BBX 5 7 1 0
BITMAP
20
20
F8
20
20
00
F8
ENDCHAR
STARTCHAR twosuperior
ENCODING 178
SWIDTH 320 0
DWIDTH 4 0
BBX 4 5 0 3
BITMAP
60
90
20
40
F0
ENDCHAR
STARTCHAR threesuperior
ENCODING 179
SWIDTH 320 0
DWIDTH 4 0
BBX 3 5 0 3
BITMAP
E0
20
40
20
C0
ENDCHAR
STARTCHAR acute
ENCODING 180
SWIDTH 160 0
DWIDTH 2 0
BBX 2 2 0 8
BITMAP
40
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52171
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52174
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52181
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52182
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52193
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52198
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52206
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52211
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52234
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52242
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52245
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52248
04
04
FC
ENDCHAR
STARTCHAR uni018F
ENCODING 399
SWIDTH 640 0
DWIDTH 8 0
BBX 6 9 1 0
BITMAP
78
84
04
04
FC
84
84
84
78
ENDCHAR
STARTCHAR uni0190
ENCODING 400
SWIDTH 640 0
DWIDTH 8 0
BBX 6 9 1 0
BITMAP
78
84
80
80
70
80
80
84
78
ENDCHAR
STARTCHAR uni0191
ENCODING 401
SWIDTH 640 0
DWIDTH 8 0
BBX 8 10 -1 -1
BITMAP
3F
20
20
20
3E
20
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
SWIDTH 880 0
DWIDTH 11 0
BBX 9 10 1 0
BITMAP
0080
3C80
4300
8100
8100
8100
8100
8100
4200
3C00
ENDCHAR
STARTCHAR ohorn
ENCODING 417
SWIDTH 640 0
DWIDTH 8 0
BBX 6 9 1 0
BITMAP
04
04
78
88
88
88
88
88
70
ENDCHAR
STARTCHAR uni01A2
ENCODING 418
SWIDTH 1040 0
DWIDTH 13 0
BBX 11 11 1 -2
BITMAP
3DC0
4220
8120
8120
8120
8120
8120
8120
4220
3C20
0020
0020

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52255
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52273
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52274
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52288
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52290
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52293
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52297
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52310
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
ENDCHAR
STARTCHAR Theta
ENCODING 920
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
3C
42
81
81
BD
81
81
42
3C
ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 240 0
DWIDTH 3 0
BBX 1 9 1 0
BITMAP
80
80
80
80
80
80
80
80
80
80
80
80
80
EndCHAR
STARTCHAR Kappa
ENCODING 922
SWIDTH 640 0
DWIDTH 8 0
BBX 7 9 1 0
BITMAP
84
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52342
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52344
BITMAP
70
88
80
60
80
88
70
ENDCHAR
STARTCHAR zeta
ENCODING 950
SWIDTH 560 0
DWIDTH 7 0
BBX 5 10 1 -2
BITMAP
B8
40
80
80
80
40
30
08
08
30
ENDCHAR
STARTCHAR eta
ENCODING 951
SWIDTH 560 0
DWIDTH 7 0
BBX 5 10 1 -3
BITMAP
B0
C8
88
88
88
88
88
08
08
08
ENDCHAR
STARTCHAR theta
ENCODING 952
SWIDTH 560 0
DWIDTH 7 0
BBX 5 9 1 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

50
20
ENDCHAR
STARTCHAR upsilon
deresis
ENCODING 971
SWIDTH 560 0
DWIDTH 7 0
BBX 5 9 1 0
BITMAP
50
00
90
88
88
88
88
90
60
ENDCHAR
STARTCHAR omicron
onos
ENCODING 972
SWIDTH 560 0
DWIDTH 7 0
BBX 5 1 1 0
BITMAP
20
20
20
20
00
70
88
88
88
88
88
70
ENDCHAR
STARTCHAR upsilon
onos
ENCODING 973
SWIDTH 560 0
DWIDTH 7 0
BBX 5 1 1 0
BITMAP
20
20
20
00
90
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52356
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR afii10030
ENCODING 1052
SWIDTH 880 0
DWIDTH 11 0
BBX 9 9 1 0
BITMAP
8080
C180
C180
A280
A280
9480
9480
8880
8880
ENDCHAR
STARTCHAR afii10031
ENCODING 1053
SWIDTH 720 0
DWIDTH 9 0
BBX 7 9 1 0
BITMAP
82
82
82
82
FE
82
82
82
82
82
82
82
ENDCHAR
STARTCHAR afii10032
ENCODING 1054
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
3C
42
81
81
81
81
81
42
3C
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
02
ENDCHAR
STARTCHAR afii10042
ENCODING 1064
SWIDTH 880 0
DWIDTH 11 0
BBX 9 9 1 0
BITMAP
8880
8880
8880
8880
8880
8880
8880
8880
8880
FF80
ENDCHAR
STARTCHAR afii10043
ENCODING 1065
SWIDTH 960 0
DWIDTH 12 0
BBX 10 11 1 -2
BITMAP
8880
8880
8880
8880
8880
8880
8880
8880
8880
FFC0
0040
0040
ENDCHAR
STARTCHAR afii10044
ENCODING 1066
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
E0
20
20
20
3E
21
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52383
ENCODE 1120
SWIDTH 720 0
DWIDTH 9 0
BBX 7 9 1 0
BITMAP
6C 82 82 82 82 92 92 92 92 6C
ENCODING uni0461
SWIDTH 720 0
DWIDTH 9 0
BBX 7 7 1 0
BITMAP
92 92 92 54 54 28 28
ENDCHAR
ENCODING 1122
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
20 F8 20 20 3E 21 21 21 21 3E
ENDCHAR
ENCODING afii10146
SWIDTH 640 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52421
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52450
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52466
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52467
STARTCHAR afii57673
ENCODING 1497
SWIDTH 320 0
DWIDTH 4 0
BBX 2 3 1 4
BITMAP
C0
40
40
ENDCHAR
STARTCHAR afii57674
ENCODING 1498
SWIDTH 640 0
DWIDTH 8 0
BBX 6 9 1 -2
BITMAP
FC
04
04
04
04
04
04
04
04
FC
04
04
04
04
F8
ENDCHAR
STARTCHAR afii57675
ENCODING 1499
SWIDTH 640 0
DWIDTH 8 0
BBX 6 7 1 0
BITMAP
FC
04
04
04
04
04
04
F8
ENDCHAR
STARTCHAR afii57676
ENCODING 1500
SWIDTH 640 0
DWIDTH 8 0
BBX 6 10 1 0
BITMAP
80
80
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52471
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52494
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52501
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52515
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52519
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52529
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52531
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52354
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52542
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52546
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52552
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52555
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52562
DB00
DB60
DBE0
ENDCHAR
STARTCHAR uni1213
ENCODING 4627
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
18
18
18
7E
DB
DB
DB
03
03
ENDCHAR
STARTCHAR uni1214
ENCODING 4628
SWIDTH 1040 0
DWIDTH 13 0
BBX 11 9 1 0
BITMAP
1800
1800
1800
7E00
DB00
DB00
DBC0
DB20
DBC0
ENDCHAR
STARTCHAR uni1215
ENCODING 4629
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
60
30
18
7E
DB
DB
0640
0380
ENDCHAR
STARTCHAR uni1225
ENCODING 4645
SWIDTH 880 0
DWIDTH 11 0
BBX 9 9 1 0
BITMAP
6D80
6D80
6D80
6D80
7F00
6000
C000
C000
C000
ENDCHAR
STARTCHAR uni1226
ENCODING 4646
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
DB
DB
DB
DB
7E
18
30
30
30
ENDCHAR
STARTCHAR uni1227
ENCODING 4647
SWIDTH 960 0
DWIDTH 12 0
BBX 10 10 1 -1
BITMAP
DB00
DB00
DB00
DB00
7F00
0300
0300
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52602
| 6600 |
| 6600 |
| 6780 |
| 6640 |
| 6780 |

Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 52613
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52615
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52618
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52621
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52630
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52631
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52638
STARTCHAR uni1309
ENCODING 4873
SWIDTH 960 0
DWIDTH 12 0
BBX 10 9 1 0
BITMAP
F800
0C00
0C00
0C00
0FC0
0CC0
0C00
0C00
0C00
ENDCHAR
STARTCHAR uni130A
ENCODING 4874
SWIDTH 960 0
DWIDTH 12 0
BBX 10 9 1 0
BITMAP
F800
0C00
0C00
0C00
0C00
0C00
0C00
0C00
0CC0
0FC0
ENDCHAR
STARTCHAR uni130B
ENCODING 4875
SWIDTH 640 0
DWIDTH 8 0
BBX 6 9 1 0
BITMAP
F8
0C
0C
0C
0C
18
30
60
C0
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52647
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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52660
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52662
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52664
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52668
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52706
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52708
84
84
78
ENDCHAR
STARTCHAR uni1E61
ENCODING 7777
SWIDTH 480 0
DWIDTH 6 0
BBX 4 9 1 0
BITMAP
20
00
60
90
80
60
10
90
60
ENDCHAR
STARTCHAR uni1E62
ENCODING 7778
SWIDTH 640 0
DWIDTH 8 0
BBX 6 1 1 1 -2
BITMAP
78
84
80
60
18
04
84
84
84
78
00
10
ENDCHAR
STARTCHAR uni1E63
ENCODING 7779
SWIDTH 480 0
DWIDTH 6 0
BBX 4 9 1 -2
BITMAP
60
90
80
60
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52723
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<td><strong>ENCODING</strong> 7809</td>
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<td>0000</td>
<td>8880</td>
<td>8880</td>
</tr>
<tr>
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<td>4900</td>
<td>5500</td>
<td>2200</td>
</tr>
<tr>
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<td><strong>STARTCHAR</strong> Wacute</td>
<td><strong>ENCODING</strong> 7810</td>
<td><strong>SWIDTH</strong> 880 0</td>
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<td>0000</td>
<td>8880</td>
<td>8880</td>
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<tr>
<td>4900</td>
<td>5500</td>
<td>5500</td>
<td>2200</td>
</tr>
<tr>
<td><strong>ENDCHAR</strong></td>
<td><strong>STARTCHAR</strong> wacute</td>
<td><strong>ENCODING</strong> 7811</td>
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<td><strong>BBX</strong> 9 10 0 0</td>
<td><strong>BITMAP</strong></td>
<td>1000</td>
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0800
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8880
8880
4900
4900
5500
2200
2200
ENDCHAR
STARTCHAR Wdieresis
ENCODING 7812
SWIDTH 880 0
DWIDTH 11 0
BBX 9 11 1 0
BITMAP
1400
0000
8880
8880
8880
4900
5500
5500
2200
2200
2200
ENDCHAR
STARTCHAR Wdieresis
ENCODING 7813
SWIDTH 720 0
DWIDTH 9 0
BBX 9 9 0 0
BITMAP
1400
0000
8880
8880
8880
4900
4900
5500
2200
2200
ENDCHAR
STARTCHAR uni1E86
ENCODING 7814
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52728
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52729
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52748
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52750
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 52765
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52768
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52770
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  52783
SWIDTH 880 0
DWIDTH 11 0
BBX 9 10 1 -2
BITMAP
0400
0400
0400
7F80
0C00
1400
2400
C400
0400
0C00
ENCODING 12458
SWIDTH 880 0
DWIDTH 11 0
BBX 9 11 1 -1
BITMAP
0400
0400
0400
FF80
0C00
1400
2400
4400
8400
0400
1C00
ENCODING 12459
SWIDTH 800 0
DWIDTH 10 0
BBX 8 11 1 -1
BITMAP
08
08
08
FF
11
11
21
21
42
82
0C
ENDCHAR
STARTCHAR uni30AC
ENCODING 12460
SWIDTH 960 0
DWIDTH 12 0
BBX 10 11 1 -1
BITMAP
0940
0940
0800
FF00
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No license file was found, but licenses were detected in source scan.

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COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
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COPYRIGHT "Public domain font. Share and enjoy."
_XMBDFED_INFO "Edited with xmbfed 4.5."
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53210
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53230
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/8x13B.bdf
No license file was found, but licenses were detected in source scan.

COMMENT "Std: 9x15B.bdf,v 1.35 2006-01-05 20:03:17+00 mgk25 Rel 5"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
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DB00
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SWIDTH 785 0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  S3408
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BBX 9 15 0 -3

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53643
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53650
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53697
6000
0000
0000
0000
ENDCHAR
STARTCHAR uni16A0
ENCODING 5792
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
3200
3400
3800
3200
3400
3800
3000
3000
3000
3000
0000
0000
0000
ENDCHAR
STARTCHAR uni16A2
ENCODING 5794
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7000
7800
6C00
6C00
6600
6600
6600
6600
0000
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53720
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53725
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

S3731
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

53736
F300
DB00
DB00
CF00
C700
C700
C300
0000
0000
0000
ENDCHAR
STARTCHAR uni1E45
ENCODING 7749
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1800
1800
0000
DC00
E600
C300
C300
C300
C300
C300
0000
0000
0000
ENDCHAR
STARTCHAR uni1E46
ENCODING 7750
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
C300
E300
F300
F300
DB00
DB00
CF00
C700
C700
C300
0000
1800
1800
ENDCHAR
STARTCHAR uni1E47
ENCODING 7751
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
DC00
E600
C300
C300
C300
C300
C300
0000
1800
1800
ENDCHAR
STARTCHAR uni1E48
ENCODING 7752
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
C300
E300
F300
F300
DB00
DB00
CF00
C700
C700
C300
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  S3765
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53772
6600
3C00
1800
3C00
6600
C300
C300
0000
0000
0000
ENDCHAR
STARTCHAR uni1E8D
ENCODING 7821
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
6600
6600
0000
C300
6600
3C00
1800
3C00
6600
C300
0000
0000
0000
ENDCHAR
STARTCHAR uni1E8E
ENCODING 7822
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
1800
1800
1800
C300
C300
6600
3C00
1800
1800
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53835
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  53857
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

53863
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53883
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53885
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53890
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53912
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3

BITMAP
0000
0000
DF80
6600
2600
0600
0600
0600
0600
0600
0600
1F80
0000
0000
0000

ENDCHAR
STARTCHAR uni1FDB
ENCODING 8155
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3

BITMAP
0000
0000
7F80
C600
8600
0600
0600
0600
0600
0600
0600
0600
0600
1F80
0000
0000
0000

ENDCHAR
STARTCHAR uni1FDD
ENCODING 8157
SWIDTH 785 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  S3939
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53959
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR dong
ENCODING 8363
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0300
1F80
0300
3B00
6700
C300
C300
C300
6700
3B00
0000
7E00
0000

ENDCHAR
STARTCHAR Euro
ENCODING 8364
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0E00
1B00
3000
7800
3000
7800
3000
7800
3000
3000
1B00
0E00
0000
0000
0000

ENDCHAR
STARTCHAR uni20AF
ENCODING 8367
SWIDTH 785 0

ENDCHAR
1800
7800
F800
F800
7000
0000
0000
0000

ENDCHAR
STARTCHAR uni27E8
ENCODING 10216
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0600
0C00
0C00
1800
1800
3000
3000
1800
1800
0C00
0C00
0600
0000
0000

ENDCHAR
STARTCHAR uni27E9
ENCODING 10217
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
3000
1800
1800
0C00
0C00
0600
0C00
0C00
1800
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 53996
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54047
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54050
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54069
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54071
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54072
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54108
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54109
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54111
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54131
STARTCHAR dotlessi
ENCODING 305
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
C0
40
E0
00
ENDCHAR
STARTCHAR IJ
ENCODING 306
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
80
A0
A0
A0
20
60
ENDCHAR
STARTCHAR ij
ENCODING 307
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
00
A0
A0
20
40
ENDCHAR
STARTCHAR Jcircumflex
ENCODING 308
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
60
A0
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR scaron
ENCODING 353
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
60
60
C0
20
C0
00
ENDCHAR
STARTCHAR Tcommaaccent
ENCODING 354
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0
40
40
40
20
40
ENDCHAR
STARTCHAR tcommaaccent
ENCODING 355
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
E0
40
40
20
40
ENDCHAR
STARTCHAR Tcaron
ENCODING 356
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
40
E0
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 54149
ENCODE 364
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
40
A0
A0
E0
00
ENDCHAR
STARTCHAR ubreve
ENCODE 365
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
40
00
A0
60
00
ENDCHAR
STARTCHAR Uring
ENCODE 366
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
00
A0
A0
E0
00
ENDCHAR
STARTCHAR uring
ENCODE 367
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
00
A0
A0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54162
ENCODE 910
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
A0
C0
40
40
00
ENDCHAR
STARTCHAR Omegatonos
ENCODING 911
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
C0
A0
A0
A0
40
A0
00
ENDCHAR
STARTCHAR iotadieresistonos
ENCODING 912
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
B0
40
00
40
20
00
ENDCHAR
STARTCHAR Alpha
ENCODING 913
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
A0
E0
A0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54168
BBX 4 6 0 -1
BITMAP
B0
40
A0
A0
C0
00
ENDCHAR
STARTCHAR alpha
ENCODING 945
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
50
A0
A0
50
00
ENDCHAR
STARTCHAR beta
ENCODING 946
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
A0
C0
A0
C0
00
ENDCHAR
STARTCHAR gamma
ENCODING 947
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
60
40
40
00
ENDCHAR
BITMAP
C0
20
60
A0
A0
00
ENDCHAR
STARTCHAR mu
ENCODING 956
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
A0
A0
C0
80
ENDCHAR
STARTCHAR nu
ENCODING 957
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
A0
60
40
00
ENDCHAR
STARTCHAR xi
ENCODING 958
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
60
A0
40
80
60
00
ENDCHAR
STARTCHAR omicron
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54176
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54191
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR afii10078
ENCODING 1084
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
E0
A0
A0
00
ENDCHAR
STARTCHAR afii10079
ENCODING 1085
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
E0
A0
A0
00
ENDCHAR
STARTCHAR afii10080
ENCODING 1086
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
40
A0
A0
40
00
ENDCHAR
STARTCHAR afii10081
ENCODING 1087
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
E0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54204
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54223
40
00
ENDCHAR
STARTCHAR oneeighth
ENCODING 8539
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
80
80
B0
20
50
20
ENDCHAR
STARTCHAR threeeighths
ENCODING 8540
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
C0
40
B0
60
D0
20
ENDCHAR
STARTCHAR fiveeighths
ENCODING 8541
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
C0
80
70
A0
50
20
ENDCHAR
STARTCHAR seveneighths
ENCODING 8542
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
60
80
E0
80
60
00
ENDCHAR
STARTCHAR notelement
ENCODING 8713
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
70
A0
E0
A0
60
40
ENDCHAR
STARTCHAR uni220A
ENCODING 8714
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
80
C0
80
40
00
ENDCHAR
STARTCHAR suchthat
ENCODING 8715
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
C0
20
E0
20
C0
00
A0
ENDCHAR
STARTCHAR uni2231
ENCODING 8753
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
40
E0
50
40
80
ENDCHAR
STARTCHAR uni2232
ENCODING 8754
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
40
E0
C0
40
80
ENDCHAR
STARTCHAR uni2233
ENCODING 8755
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
40
C0
E0
40
80
ENDCHAR
STARTCHAR therefore
ENCODING 8756
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54250
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54251
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

00 ENDCHAR
STARTCHAR equivalence
ENCODING 8801
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0 00 E0 00 E0 00

00 ENDCHAR
STARTCHAR uni2262
ENCODING 8802
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0 20 E0 40 E0 80

80 ENDCHAR
STARTCHAR uni2263
ENCODING 8803
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0 00 E0 00 E0 00

00 ENDCHAR
STARTCHAR lessequal
ENCODING 8804
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
ENDCAR
STARTCHAR uni226C
ENCODING 8812
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
40
A0
40
A0
00
ENDCAR
STARTCHAR uni226D
ENCODING 8813
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
E0
40
E0
80
00
ENDCAR
STARTCHAR uni226E
ENCODING 8814
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
60
C0
60
80
00
ENDCAR
STARTCHAR uni226F
ENCODING 8815
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
C0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54271
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54275
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54282
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54296
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54307
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
00
F8
F8
F8
F8
ENDCHAR
STARTCHAR uni2586
ENCODING 9606
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
F8
F8
F8
F8
F8
ENDCHAR
STARTCHAR uni2587
ENCODING 9607
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
F8
F8
F8
F8
F8
F8
ENDCHAR
STARTCHAR block
ENCODING 9608
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
F8
F8
F8
F8
F8
F8
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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STARTFONT 2.1
COMMENT "$Id: 6x10.bdf,v 1.35 2006-01-05 20:03:17+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--10-100-75-75-C-60-ISO10646-1
SIZE 10 75 75
FONTBOUNDINGBOX 6 10 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54321
BITMAP
00
88
88
88
50
50
50
20
00
00
ENDCHAR
STARTCHAR W
ENCODING 87
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
88
88
88
A8
A8
D8
88
00
00
EndCHAR
STARTCHAR X
ENCODING 88
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
88
88
50
20
50
88
88
00
00
ENDCHAR
STARTCHAR Y
ENCODING 89
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54344
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
54379
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54383
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54388
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

54397
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54400
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54414
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 54420
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54421
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54442
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54460
ENCODING 932
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
F8
20
20
20
20
20
20
20
20
00
00
00
ENDCHAR
STARTCHAR Upsilon
ENCODING 933
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
88
88
50
20
20
20
20
20
00
00
00
ENDCHAR
STARTCHAR Phi
ENCODING 934
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
20
70
A8
A8
A8
70
20
00
null
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54477
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54487
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

54502
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54506
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54508
88
00
00
ENDCHAR
STARTCHAR afii10088
ENCODING 1094
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
90
90
90
90
F8
08
08
ENDCHAR
STARTCHAR afii10089
ENCODING 1095
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
88
88
78
08
08
00
00
ENDCHAR
STARTCHAR afii10090
ENCODING 1096
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
A8
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

50
50
20
00
00
ENDCHAR
STARTCHAR afii10050
ENCODING 1168
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
08
F8
80
80
80
80
80
80
80
00
00
ENDCHAR
STARTCHAR afii10098
ENCODING 1169
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
08
78
40
40
40
40
00
00
ENDCHAR
STARTCHAR uni0492
ENCODING 1170
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
78
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54531

BBX 6 1 0 0 -2
BITMAP
70
00
88
88
88
88
70
00
00
ENDCHAR
STARTCHAR uni04EF
ENCODING 1263
SWIDTH 576 0
DWIDTH 6 0
BBX 6 1 0 0 -2
BITMAP
00
70
00
88
88
88
88
98
68
00
00
ENDCHAR
STARTCHAR afii57664
ENCODING 1488
SWIDTH 576 0
DWIDTH 6 0
BBX 6 1 0 0 -2
BITMAP
00
00
00
90
48
B0
90
C8
00
00
ENDCHAR
STARTCHAR afii57665
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54535

30
10
00
00
00
00
00
00
00
00
ENDCCHAR
STARTCHAR afii57674
ENCODING 1498
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
70
10
10
10
10
10
10
10
ENDCCHAR
STARTCHAR afii57675
ENCODING 1499
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
00
F0
08
08
08
F0
00
00
ENDCCHAR
STARTCHAR afii57676
ENCODING 1500
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54542
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54555
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54563
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54568
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54580
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54606
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 54607
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  54608
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

54618
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

54619
STARTCHAR uni1FBA
ENCODING 8122
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
98
64
24
24
3C
24
24
00
00
ENDCHAR
STARTCHAR uni1FBB
ENCODING 8123
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
58
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No license file was found, but licenses were detected in source scan.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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No license file was found, but licenses were detected in source scan.

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COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
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 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
ENDCHAR
STARTCHAR uni0348
ENCODING 840
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55611
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55620
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55623
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55627
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55636
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55640
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55641
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55646
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55648

STARTCHAR omegatonos
ENCODING 974
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
10
20
00
88
A8
A8
A8
A8
50
00
00
ENDCHAR

STARTCHAR uni03D0
ENCODING 976
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
60
90
90
B0
C8
88
88
88
88
70
00
00
ENDCHAR

STARTCHAR theta1
ENCODING 977
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55651
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55656
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55672
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55694
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

55697
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55712
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55713
A0
B8
B8
B8
B8
B8
B8
58
08
10
ENDCHAR
STARTCHAR uni0479
ENCODING 1145
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
58
B8
B8
B8
B8
B8
58
08
10
ENDCHAR
STARTCHAR uni047A
ENCODING 1146
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
20
70
A8
88
88
88
88
88
88
A8
70
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55736
Open Source Used In Field Network Director for Virtual Machine Installation

4.7.1  55753
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55761
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55762
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55773
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55790
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55804
80
ENDCHAR
STARTCHAR uni0581
ENCODING 1409
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 2
BITMAP
00
00
00
00
70
88
88
88
78
08
88
70
ENDCHAR
STARTCHAR uni0582
ENCODING 1410
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 2
BITMAP
00
00
00
00
60
20
20
20
20
18
00
00
ENDCHAR
STARTCHAR uni0583
ENCODING 1411
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55819
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55820
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55831
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55835
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55840
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55841
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55846
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55862
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55874
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55875
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55876
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55878
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55890
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55901
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55919
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55951
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55959
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55964
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  55967
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55973
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 56011
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56020
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56033
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56043
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56054
70
ENDCHAR
STARTCHAR uni1EF4
ENCODING 7924
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
88
88
50
50
20
20
20
20
00
20
ENDCHAR
STARTCHAR uni1EF5
ENCODING 7925
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
88
88
88
88
98
68
08
88
70
00
20
ENDCHAR
STARTCHAR uni1EF6
ENCODING 7926
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56056
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56058
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56079
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

56080
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56106
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56107
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56124
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56138
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56145
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56161
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56170
00 ENDCHAR
STARTCHAR uni203E
ENCODING 8254
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00 FC
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni203F
ENCODING 8255
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
88
70
ENDCHAR
STARTCHAR uni2040
ENCODING 8256
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56195
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56196
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

56212
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56231
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56248
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56268
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56284
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56315
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56325
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56328
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56331
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56333
90 ENDCHAR STARTCHAR uni2230 ENCODING 8752 SWIDTH 480 0 DWIDTH 6 0 BBX 6 13 0 -2 BITMAP 00 54 A8 A8 F8 AC AC AC F8 A8 A8 A8 D0 ENDCHAR STARTCHAR uni2231 ENCODING 8753 SWIDTH 480 0 DWIDTH 6 0 BBX 6 13 0 -2 BITMAP 10 28 20 20 20 74 AC 3C 20 20 20 20 A0 40 ENDCHAR STARTCHAR uni2232 ENCODING 8754 SWIDTH 480 0 DWIDTH 6 0 BBX 6 13 0 -2 BITMAP
A8
90
00
F8
00
F8
00
00
ENDCHAR
STARTCHAR uni2246
ENCODING 8774
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
48
A8
90
20
F8
20
F8
20
00
00
ENDCHAR
STARTCHAR uni2247
ENCODING 8775
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
20
68
A8
B0
20
F8
20
F8
20
00
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56411
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56415
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56437
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56439
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

56448
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56454
FC
ENDCHAR
STARTCHAR uni2382
ENCODING 9090
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
48
24
6C
B4
B4
6C
00
6C
ENDCHAR
STARTCHAR uni2383
ENCODING 9091
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
20
94
30
D4
50
B4
00
00
ENDCHAR
STARTCHAR uni2384
ENCODING 9092
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56488
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni23A6
ENCODING 9126
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
10
10
10
10
10
10
10
10
10
10
10
70
00
ENDCHAR
STARTCHAR uni23A7
ENCODING 9127
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
18
20
20
20
20
20
20
20
20
20
20
ENDCHAR
STARTCHAR uni23A8
ENCODING 9128
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56501
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56504
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56506
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56520
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56521
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56523
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56537
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56542
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56544
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56545
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56570
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56576
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56618
FC
00
00
00
00
ENDCHAR
STARTCHAR uni25AE
ENCODING 9646
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
78
78
78
78
78
78
78
78
78
78
78
78
00
ENDCHAR
STARTCHAR uni25AF
ENCODING 9647
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
48
48
48
48
48
48
48
48
48
48
78
00
ENDCHAR
STARTCHAR uni25B0
ENCODING 9648
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56626
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56673
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56681
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56721
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56725
Open Source Used In Field Network Director for Virtual Machine Installation

4.7.1  56743
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56760
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56777
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56801
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

56832
C0
C0
00
D8
D8
00
18
18
00
ENDCHAR
STARTCHAR uni28A8
ENCODING 10408
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
18
18
00
00
00
00
18
18
00
18
18
00
ENDCHAR
STARTCHAR uni28A9
ENCODING 10409
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
D8
D8
00
00
00
00
00
18
18
18
00
18
18
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56854
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56870
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56881
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 55886
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56901
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56914
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56961
28
08
08
08
08
ENDCHAR
STARTCHAR uniFB44
ENCODING 64324
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
78
88
A8
08
08
F0
00
00
00
ENDCHAR
STARTCHAR uniFB46
ENCODING 64326
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
90
48
28
90
08
F8
00
00
ENDCHAR
STARTCHAR uniFB47
ENCODING 64327
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 56983
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  56990
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
quDRqiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x13.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $X Consortium: clR6x12.bdf,v 1.2 94/04/11 12:08:30 gildea Exp$
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COMMENT St. Paul, MN 55104-3527
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57024
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57026
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR M
ENCODING 77
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
88
D8
A8
A8
88
88
88
00
00
00

ENDCHAR
STARTCHAR N
ENCODING 78
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
88
C8
C8
A8
98
98
88
00
00
00

ENDCHAR
STARTCHAR O
ENCODING 79
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
70
88
ENCODE 82
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
F0
88
88
F0
A0
90
88
00
00
00

ENCODE 83
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
70
88
80
70
08
88
70
00
00
00

ENCODE 84
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
F8
20
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57055
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57059
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57070
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57076
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57077
STARTCHAR ïcircumflex
ENCODING 206
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
20
50
00
F8
20
20
20
20
20
F8
00
00
00
ENDCHAR
STARTCHAR ïdieresis
ENCODING 207
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
50
00
F8
20
20
20
20
20
F8
00
00
00
ENDCHAR
STARTCHAR Eth
ENCODING 208
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
70
48
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57095
STARTCHAR thorn
ENCODING 254
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
80
80
80
B0
C8
88
C8
B0
80
80
00
ENDCHAR
STARTCHAR ydieresis
ENCODING 255
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
50
00
88
88
88
88
88
78
08
08
70
ENDCHAR
STARTCHAR Amacron
ENCODING 256
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
F8
00
70
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57135
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57140
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57146
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57160
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57178
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57191
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

57195
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57196
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57207
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 57231
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57241
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57246
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57252
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57262
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57269
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57275
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57283
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57325
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57361
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
00
ENDCHAR
STARTCHAR intersection
ENCODING 8745
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
70
88
88
88
88
88
88
00
00
00
ENDCHAR
STARTCHAR union
ENCODING 8746
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
88
88
88
88
88
88
88
70
00
00
00
ENDCHAR
STARTCHAR integral
ENCODING 8747
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
10
28
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57407
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57440
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00
00
00
F0
10
D0
50
50
50
ENDCHAR
STARTCHAR SF500000
ENCODING 9560
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
20
20
20
20
20
20
3C
20
3C
00
00
00
00
00
ENDCHAR
STARTCHAR SF490000
ENCODING 9561
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
50
50
50
50
50
50
50
7C
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57456
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57458

STARTCHAR uni2578
ENCODING 9592
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00
00
E0
E0
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni2579
ENCODING 9593
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
30
30
30
30
30
30
30
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni257A
ENCODING 9594
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00
00
00
00

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57458
STARTCHAR uni25B3
ENCODING 9651
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
20
20
20
50
50
50
88
88
F8
00
00
00
ENDCHAR
STARTCHAR uni25B6
ENCODING 9654
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00
C0
F0
F8
F0
C0
00
00
00
ENDCHAR
STARTCHAR uni25B7
ENCODING 9655
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57477
BITMAP
00
00
20
A8
70
D8
70
A8
20
00
00
00
ENDCHAR
STARTCHAR female
ENCODING 9792
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
00
00
00
70
88
88
88
70
20
70
20
ENDCHAR
STARTCHAR uni2641
ENCODING 9793
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
00
20
70
20
70
88
88
88
70
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/cIRe6x12.bdf
No license file was found, but licenses were detected in source scan.

```
# Name:             ISO/IEC 8859-3:1999 to Unicode
# Unicode version: 3.0
# Table version:   1.0
# Table format:    Format A
# Date:            1999 July 27
# Authors:         Ken Whistler <kenw@sybase.com>
#
# Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
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# agrees to determine applicability of information provided. If this
# file has been provided on optical media by Unicode, Inc., the sole
# remedy for any claim will be exchange of defective media within 90
# days of receipt.
#
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# supplied in this file in the creation of products supporting the
# Unicode Standard, and to make copies of this file in any form for
```
#internal or external distribution as long as this notice remains
#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#ISO/IEC 8859-3:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-3 code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-3 order.
#
#Version history
#1.0 version updates 0.1 version by adding mappings for all
#control characters.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0Ax000A#LINE FEED
0x0Bx000B#VERTICAL TABULATION
0x0Cx000C#FORM FEED
0x0Dx000D#CARRIAGE RETURN
0x0Ex000E#SHIFT OUT
0x0Fx000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1Fx001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
0x2A0x002A#ASTERISK
0x2B0x002B#PLUS SIGN
0x2C0x002C#COMMA
0x2D0x002D#HYPHEN-MINUS
0x2E0x002E#FULL STOP
0x2F0x002F#SOLIDUS
0x300x0030#DIGIT ZERO
0x310x0031#DIGIT ONE
0x320x0032#DIGIT TWO
0x330x0033#DIGIT THREE
0x340x0034#DIGIT FOUR
0x350x0035#DIGIT FIVE
0x360x0036#DIGIT SIX
0x370x0037#DIGIT SEVEN
0x380x0038#DIGIT EIGHT
0x390x0039#DIGIT NINE
0x3A0x003A#COLON
0x3B0x003B#SEMICOLON
0x3C0x003C#LESS-THAN SIGN
0x3D0x003D#EQUALS SIGN
0x3E0x003E#GREATER-THAN SIGN
0x3F0x003F#QUESTION MARK
0x400x0040#COMMERCIAL AT
0x410x0041#LATIN CAPITAL LETTER A
0x420x0042#LATIN CAPITAL LETTER B
0x430x0043#LATIN CAPITAL LETTER C
0x440x0044#LATIN CAPITAL LETTER D
0x450x0045#LATIN CAPITAL LETTER E
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

0x760x0076#LATIN SMALL LETTER V
0x770x0077#LATIN SMALL LETTER W
0x780x0078#LATIN SMALL LETTER X
0x790x0079#LATIN SMALL LETTER Y
0x7A0x007A#LATIN SMALL LETTER Z
0x7B0x007B#LEFT CURLY BRACKET
0x7C0x007C#VERTICAL LINE
0x7D0x007D#RIGHT CURLY BRACKET
0x7E0x007E#TILDE
0x7F0x007F#DELETE
0x800x0080#<control>
0x810x0081#<control>
0x820x0082#<control>
0x830x0083#<control>
0x840x0084#<control>
0x850x0085#<control>
0x860x0086#<control>
0x870x0087#<control>
0x880x0088#<control>
0x890x0089#<control>
0x8A0x008A#<control>
0x8B0x008B#<control>
0x8C0x008C#<control>
0x8D0x008D#<control>
0x8E0x008E#<control>
0x8F0x008F#<control>
0x900x0090#<control>
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0x930x0093#<control>
0x940x0094#<control>
0x950x0095#<control>
0x960x0096#<control>
0x970x0097#<control>
0x980x0098#<control>
0x990x0099#<control>
0x9A0x009A#<control>
0x9B0x009B#<control>
0x9C0x009C#<control>
0x9D0x009D#<control>
0x9E0x009E#<control>
0x9F0x009F#<control>
0xA00x00A0#NO-BREAK SPACE
0xA10x0126#LATIN CAPITAL LETTER H WITH STROKE
0xA20x02D8#BREVE
0xA30x00A3#POUND SIGN
0xA40x00A4#CURRENCY SIGN
0xA60x0124#LATIN CAPITAL LETTER H WITH CIRCUMFLEX
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-3.TXT
No license file was found, but licenses were detected in source scan.

Unicode versions of the X11 "misc-fixed-" fonts
--------------------------------------------

Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/> -- 2008-04-21

This package contains the X Window System bitmap fonts
These are Unicode (ISO 10646-1) extensions of the classic ISO 8859-1 X11 terminal fonts that are widely used with many X11 applications such as xterm, emacs, etc.

**COVERAGE**

None of these fonts covers Unicode completely. Complete coverage simply would not make much sense here. Unicode 5.1 contains over 100000 characters, and the large majority of them are Chinese/Japanese/Korean Han ideographs (~70000) and Korean Hangul Syllables (~11000) that cannot adequately be displayed in the small pixel sizes of the fixed fonts. Similarly, Arabic characters are difficult to fit nicely together with European characters into the fixed character cells and X11 lacks the ligature substitution mechanisms required for using Indic scripts.

Therefore these fonts primarily attempt to cover Unicode subsets that fit together with European scripts. This includes the Latin, Greek, Cyrillic, Armenian, Georgian, and Hebrew scripts, plus a lot of linguistic, technical and mathematical symbols. Some of the fixed fonts now also cover Arabic, Thai, Ethiopian, halfwidth Katakana, and some other non-European scripts.

We have defined 3 different target character repertoires (ISO 10646-1 subsets) that the various fonts were checked against for minimal guaranteed coverage:

**TARGET1** 617 characters
Covers all characters of ISO 8859 part 1-5,7-10,13-16, CEN MES-1, ISO 6937, Microsoft CP1251/CP1252, DEC VT100 graphics symbols, and the replacement and default character. It is intended for small bold, italic, and proportional fonts, for which adding block graphics characters would make little sense. This repertoire covers the following ISO 10646-1:2000 collections completely: 1-3, 8, 12.

**TARGET2** 886 characters
Adds to TARGET1 the characters of the Adobe/Microsoft Windows Glyph List 4 (WGL4), plus a selected set of mathematical characters (covering most of ISO 31-11 high-school level math symbols) and some combining characters. It is intended to be covered by all normal "fixed" fonts and covers all European IBM, Microsoft, and
Macintosh character sets. This repertoire covers the following ISO 10646-1:2000 (including Amd 1:2002) collections completely: 1-3, 8, 12, 33, 45.

TARGET3 3282 characters

Adds to TARGET2 all characters of all European scripts (Latin, Greek, Cyrillic, Armenian, Georgian), all phonetic alphabet symbols, many mathematical symbols (including all those available in LaTeX), all typographic punctuation, all box-drawing characters, control code pictures, graphical shapes and some more that you would expect in a very comprehensive Unicode 4.0 font for European users. It is intended for some of the more useful and more widely used normal "fixed" fonts. This repertoire is, with two exceptions, a superset of all graphical characters in CEN MES-3A and covers the following ISO 10646-1:2000 (including Amd 1:2002) collections completely: 1-12, 27, 30-31, 32 (only graphical characters), 33-42, 44-47, 63, 65, 70 (only graphical characters).

[The two MES-3A characters deliberately omitted are the angle bracket characters U+2329 and U+232A. ISO and CEN appears to have included these into collection 40 and MES-3A by accident, because there they are the only characters in the Unicode EastAsianWidth "wide" class.]

CURRENT STATUS:

6x13.bdf 8x13.bdf 9x15.bdf 9x18.bdf 10x20.bdf:

Complete (TARGET3 reached and checked)

5x7.bdf 5x8.bdf 6x9.bdf 6x10.bdf 6x12.bdf 7x13.bdf 7x14.bdf clR6x12.bdf:

Complete (TARGET2 reached and checked)

6x13B.bdf 7x13B.bdf 7x14B.bdf 8x13B.bdf 9x15B.bdf 9x18B.bdf:

Complete (TARGET1 reached and checked)

6x13O.bdf 7x13O.bdf 8x13O.bdf

Complete (TARGET1 minus Hebrew and block graphics)

[None of the above fonts contains any character that has in Unicode the East Asian Width Property "W" or "F" assigned. This way, the
desired combination of "half-width" and "full-width" glyphs can be achieved easily. Most font mechanisms display a character that is not covered in a font by using a glyph from another font that appears later in a priority list, which can be arranged to be a "full-width" font.]

The supplement package

http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts-asian.tar.gz

contains the following additional square fonts with Han characters for East Asian users:

12x13ja.bdf:

Covers TARGET2, JIS X 0208, Hangul, and a few more. This font is primarily intended to provide Japanese full-width Hiragana, Katakana, and Kanji for applications that take the remaining ("halfwidth") characters from 6x13.bdf. The Greek lowercase characters in it are still a bit ugly and will need some work.

18x18ja.bdf:

Covers all JIS X 0208, JIS X 0212, GB 2312-80, KS X 1001:1992, ISO 8859-1,2,3,4,5,7,9,10,15, CP437, CP850 and CP1252 characters, plus a few more, where priority was given to Japanese han style variants. This font should have everything needed to cover the full ISO-2022-JP-2 (RFC 1554) repertoire. This font is primarily intended to provide Japanese full-width Hiragana, Katakana, and Kanji for applications that take the remaining ("halfwidth") characters from 9x18.bdf.

18x18ko.bdf:

Covers the same repertoire as 18x18ja plus full coverage of all Hangul syllables and priority was given to Hanja glyphs in the unified CJK area as they are used for writing Korean.

The 9x18 and 6x12 fonts are recommended for use with overstriking combining characters.

Bug reports, suggestions for improvement, and especially contributed extensions are very welcome!

INSTALLATION

-----------

You install the fonts under Unix roughly like this (details depending
on your system of course):

System-wide installation (root access required):

```
cd submission/
make
su
mv -b * .pcf.gz /usr/lib/X11/fonts/misc/
cd /usr/lib/X11/fonts/misc/
mkfontdir
xset fp rehash
```

Alternative: Installation in your private user directory:

```
cd submission/
make
mkdir -p ~/local/lib/X11/fonts/
mv *.pcf.gz ~/local/lib/X11/fonts/
cd ~/local/lib/X11/fonts/
mkfontdir
xset +fp ~/local/lib/X11/fonts (put this last line also in ~/.xinitrc)
```

Now you can have a look at say the 6x13 font with the command

```
xfd -fn `-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso10646-1`
```

If you want to have short names for the Unicode fonts, you can also append the fonts.alias file to that in the directory where you install the fonts, call "mkfontdir" and "xset fp rehash" again, and then you can also write

```
xfd -fn 6x13U
```

Note: If you use an old version of xfontsel, you might notice that it treats every font that contains characters >0x00ff as a Japanese JIS font and therefore selects inappropriate sample characters for display of ISO 10646-1 fonts. An updated xfontsel version with this bug fixed comes with XFree86 4.0 / X11R6.8 or newer.

If you use the Exceed X server on Microsoft Windows, then you will have to convert the BDF files into Microsoft FON files using the "Compile Fonts" function of Exceed xconfig. See the file exceed.txt for more information.

There is one significant efficiency problem that X11R6 has with the sparsely populated ISO10646-1 fonts. X11 transmits and allocates 12 bytes with the XFontStruct data structure for the difference between the lowest and the highest code value found in a font, no matter
whether the code positions in between are used for characters or not. Even a tiny font that contains only two glyphs at positions 0x0000 and 0xfffd causes 12 bytes * 65534 codes = 786 kbytes to be requested and stored by the client. Since all the ISO10646-1 BDF files provided in this package contain characters in the U+00xx (ASCII) and U+ffxx (ligatures, etc.) range, all of them would result in 786 kbyte large XCharStruct arrays in the per_char array of the corresponding XFontStruct (even for CharCell fonts!) when loaded by an X client. Until this problem is fixed by extending the X11 font protocol and implementation, non-CJK ISO10646-1 fonts that lack the (anyway not very interesting) characters above U+31FF seem to be the best compromise. The bdftruncate.pl program in this package can be used to deactivate any glyphs above a threshold code value in BDF files. This way, we get relatively memory-economic ISO10646-1 fonts that cause "only" 150 kbyte large XCharStruct arrays to be allocated. The deactivated glyphs are still present in the BDF files, but with an encoding value of -1 that causes them to be ignored.

The ISO10646-1 fonts can not only be used directly by Unicode aware software, they can also be used to create any 8-bit font. The ucs2any.pl Perl script converts a ISO10646-1 BDF font into a BDF font file with some different encoding. For instance the command

```
perl ucs2any.pl 6x13.bdf MAPPINGS/8859-7.TXT ISO8859-7
```

will generate the file 6x13-ISO8859-7.bdf according to the 8859-7.TXT Latin/Greek mapping table, which available from <ftp://ftp.unicode.org/Public/MAPPINGS/>. [The shell script ./map_fonts automatically generates a subdirectory derived-fonts/ with many *.bdf and *.pcf.gz 8-bit versions of all the -misc-fixed-*-iso10646-1 fonts.]

When you do a "make" in the submission/ subdirectory as suggested in the installation instructions above, this will generate exactly the set of fonts that have been submitted to the XFree86 project for inclusion into XFree86 4.0. These consists of all the ISO10646-1 fonts processed with "bdftruncate.pl U+3200" plus a selected set of derived 8-bit fonts generated with ucs2any.pl.

Every font comes with a *.repertoire-utf8 file that lists all the characters in this font.

CONTRIBUTING
-------------

If you want to help me in extending or improving the fonts, or if you want to start your own ISO 10646-1 font project, you will have to edit
BDF font files. This is most comfortably done with the gbdfed font editor (version 1.3 or higher), which is available from

http://crl.nmsu.edu/~mleisher/gbdfed.html

Once you are familiar with gbdfed, you will notice that it is no problem to design up to 100 nice characters per hour (even more if only placing accents is involved).

Information about other X11 font tools and Unicode fonts for X11 in general can be found on

http://www.cl.cam.ac.uk/~mgk25/ucs-fonts.html

The latest version of this package is available from

http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts.tar.gz

If you want to contribute, then get the very latest version of this package, check which glyphs are still missing or inappropriate for your needs, and send me whatever you had the time to add and fix. Just email me the extended BDF-files back, or even better, send me a patch file of what you changed. The best way of preparing a patch file is

./touch_id newfile.bdf
diff -d -u -F STARTCHAR oldfile.bdf newfile.bdf > file.diff

which ensures that the patch file preserves information about which exact version you worked on and what character each "hunk" changes.

I will try to update this packet on a daily basis. By sending me extensions to these fonts, you agree that the resulting improved font files will remain in the public domain for everyone's free use. Always make sure to load the very latest version of the package immediately before your start, and send me your results as soon as you are done, in order to avoid revision overlaps with other contributors.

Please try to be careful with the glyphs you generate:

- Always look first at existing similar characters in order to preserve a consistent look and feel for the entire font and within the font family. For block graphics characters and geometric symbols, take care of correct alignment.

- Read issues.txt, which contains some design hints for certain characters.

- All characters of CharCell (C) fonts must strictly fit into
the pixel matrix and absolutely no out-of-box ink is allowed.

- The character cells will be displayed directly next to each other, without any additional pixels in between. Therefore, always make sure that at least the rightmost pixel column remains white, as otherwise letters will stick together, except of course for characters -- like Arabic or block graphics -- that are supposed to stick together.

- Place accents as low as possible on the Latin characters.

- Try to keep the shape of accents consistent among each other and with the combining characters in the U+03xx range.

- Use gbdfed only to edit the BDF file directly and do not import the font that you want to edit from the X server. Use gbdfed 1.3 or higher.

- The glyph names should be the Adobe names for Unicode characters defined at


  which gbdfed can set automatically. To make the Edit/Rename Glyphs/Adobe Names function work, you have to download the file

  http://www.adobe.com/devnet/opentype/archives/glyphlist.txt

  and configure its location either in Edit/Preferences/Editing Options/Adobe Glyph List, or as "adobe_name_file" in "~/.gbdfed".

- Be careful to not change the FONTBOUNDINGBOX box accidentally in a patch.

You should have a copy of the ISO 10646 standard

ISO/IEC 10646:2003, Information technology -- Universal Multiple-Octet Coded Character Set (UCS),
http://standards.iso.org/ittf/PubliclyAvailableStandards/

and/or the Unicode 5.0 book:

The Unicode Consortium: The Unicode Standard, Version 5.0, Reading, MA, Addison-Wesley, 2006,
ISBN 9780321480910.
All these fonts are from time to time resubmitted to the X.Org project, XFree86 (they have been in there since XFree86 4.0), and to other X server developers for inclusion into their normal X11 distributions.

Starting with XFree86 4.0, xterm has included UTF-8 support. This version is also available from

http://dickey.his.com/xterm/xterm.html

Please make the developer of your favourite software aware of the UTF-8 definition in RFC 2279 and of the existence of this font collection. For more information on how to use UTF-8, please check out

http://www.cl.cam.ac.uk/~mgk25/unicode.html

where you will also find information on joining the linux-utf8@nl.linux.org mailing list.

A number of UTF-8 example text files can be found in the examples/ subdirectory or on

http://www.cl.cam.ac.uk/~mgk25/ucs/examples/

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiwos/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/README

No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-14:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
# Ken Whistler <kenw@sybase.com>
#
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#internal or external distribution as long as this notice remains
#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#ISO/IEC 8859-14:1998 characters map into Unicode.
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-14 code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-14 order.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
<table>
<thead>
<tr>
<th>Decimal</th>
<th>Hexadecimal</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x160</td>
<td>0x0016</td>
<td>SYNCHRONOUS IDLE</td>
</tr>
<tr>
<td>0x170</td>
<td>0x0017</td>
<td>END OF TRANSMISSION BLOCK</td>
</tr>
<tr>
<td>0x180</td>
<td>0x0018</td>
<td>CANCEL</td>
</tr>
<tr>
<td>0x190</td>
<td>0x0019</td>
<td>END OF MEDIUM</td>
</tr>
<tr>
<td>0x1A0</td>
<td>0x001A</td>
<td>SUBSTITUTE</td>
</tr>
<tr>
<td>0x1B0</td>
<td>0x001B</td>
<td>ESCAPE</td>
</tr>
<tr>
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<td>0x001C</td>
<td>FILE SEPARATOR</td>
</tr>
<tr>
<td>0x1D0</td>
<td>0x001D</td>
<td>GROUP SEPARATOR</td>
</tr>
<tr>
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<td>RECORD SEPARATOR</td>
</tr>
<tr>
<td>0x1F0</td>
<td>0x001F</td>
<td>UNIT SEPARATOR</td>
</tr>
<tr>
<td>0x200</td>
<td>0x0020</td>
<td>SPACE</td>
</tr>
<tr>
<td>0x210</td>
<td>0x0021</td>
<td>EXCLAMATION MARK</td>
</tr>
<tr>
<td>0x220</td>
<td>0x0022</td>
<td>QUOTATION MARK</td>
</tr>
<tr>
<td>0x230</td>
<td>0x0023</td>
<td>NUMBER SIGN</td>
</tr>
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<td>0x240</td>
<td>0x0024</td>
<td>DOLLAR SIGN</td>
</tr>
<tr>
<td>0x250</td>
<td>0x0025</td>
<td>PERCENT SIGN</td>
</tr>
<tr>
<td>0x260</td>
<td>0x0026</td>
<td>AMPERSAND</td>
</tr>
<tr>
<td>0x270</td>
<td>0x0027</td>
<td>APOSTROPHE</td>
</tr>
<tr>
<td>0x280</td>
<td>0x0028</td>
<td>LEFT PARENTHESIS</td>
</tr>
<tr>
<td>0x290</td>
<td>0x0029</td>
<td>RIGHT PARENTHESIS</td>
</tr>
<tr>
<td>0x2A0</td>
<td>0x002A</td>
<td>ASTERISK</td>
</tr>
<tr>
<td>0x2B0</td>
<td>0x002B</td>
<td>PLUS SIGN</td>
</tr>
<tr>
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<td>0x002C</td>
<td>COMMA</td>
</tr>
<tr>
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<td>0x002D</td>
<td>HYPHEN-MINUS</td>
</tr>
<tr>
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<td>0x002E</td>
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</tr>
<tr>
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<td>0x002F</td>
<td>SOLIDUS</td>
</tr>
<tr>
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<td>0x0030</td>
<td>DIGIT ZERO</td>
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<tr>
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<td>0x0031</td>
<td>DIGIT ONE</td>
</tr>
<tr>
<td>0x320</td>
<td>0x0032</td>
<td>DIGIT TWO</td>
</tr>
<tr>
<td>0x330</td>
<td>0x0033</td>
<td>DIGIT THREE</td>
</tr>
<tr>
<td>0x340</td>
<td>0x0034</td>
<td>DIGIT FOUR</td>
</tr>
<tr>
<td>0x350</td>
<td>0x0035</td>
<td>DIGIT FIVE</td>
</tr>
<tr>
<td>0x360</td>
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</tr>
<tr>
<td>0x370</td>
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</tr>
<tr>
<td>0x380</td>
<td>0x0038</td>
<td>DIGIT EIGHT</td>
</tr>
<tr>
<td>0x390</td>
<td>0x0039</td>
<td>DIGIT NINE</td>
</tr>
<tr>
<td>0x3A0</td>
<td>0x003A</td>
<td>COLON</td>
</tr>
<tr>
<td>0x3B0</td>
<td>0x003B</td>
<td>SEMICOLON</td>
</tr>
<tr>
<td>0x3C0</td>
<td>0x003C</td>
<td>LESS-THAN SIGN</td>
</tr>
<tr>
<td>0x3D0</td>
<td>0x003D</td>
<td>EQUALS SIGN</td>
</tr>
<tr>
<td>0x3E0</td>
<td>0x003E</td>
<td>GREATER-THAN SIGN</td>
</tr>
<tr>
<td>0x3F0</td>
<td>0x003F</td>
<td>QUESTION MARK</td>
</tr>
<tr>
<td>0x400</td>
<td>0x0040</td>
<td>COMMERCIAL AT</td>
</tr>
<tr>
<td>0x410</td>
<td>0x0041</td>
<td>LATIN CAPITAL LETTER A</td>
</tr>
<tr>
<td>0x420</td>
<td>0x0042</td>
<td>LATIN CAPITAL LETTER B</td>
</tr>
<tr>
<td>0x430</td>
<td>0x0043</td>
<td>LATIN CAPITAL LETTER C</td>
</tr>
<tr>
<td>0x440</td>
<td>0x0044</td>
<td>LATIN CAPITAL LETTER D</td>
</tr>
<tr>
<td>0x450</td>
<td>0x0045</td>
<td>LATIN CAPITAL LETTER E</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

57512
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57513
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-14.TXT
No license file was found, but licenses were detected in source scan.
%global fontname ucs-miscfixed
%global fontconf 66-%{fontname}.conf

Name: %{fontname}-fonts
Version: 0.3
Release: 11%{?dist}
License: Public Domain
URL: http://www.cl.cam.ac.uk/~mgk25/ucs-fonts.html
Source0: http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts.tar.gz
Source1: 66-ucs-miscfixed.conf
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)
BuildArch: noarch
Group: User Interface/X
Summary: Selected set of bitmap fonts
BuildRequires: fontpackages-devel
BuildRequires: xorg-x11-font-utils

%description
The usc-fixed-fonts package provides bitmap fonts for locations such as terminals.

%prep
%setup -q -c
rm helvR12.bdf

%install
rm -rf $RPM_BUILD_ROOT
install -m 0755 -d %{buildroot}%{_fontdir}
install -m 0644 -p *.bdf %{buildroot}%{_fontdir}
install -m 0755 -d %{buildroot}%{_fontconfig_templatedir} \%{buildroot}%{_fontconfig_confdir}
install -m 0644 -p %SOURCE1\%{buildroot}%{_fontconfig_templatedir}/%{fontconf}
ln -s %{_fontconfig_templatedir}/%{fontconf} \%{buildroot}%{_fontconfig_confdir}/%{fontconf}

%clean
rm -rf $RPM_BUILD_ROOT
%_font_pkg -f %{fontconf} *.bdf

%doc README

%changelog

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 0.3-11
  - Mass rebuild 2013-12-27

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sun Jul 22 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sun Feb 12 2012 Pravin Satpute <psatpute@redhat.com> - 0.3-8
  - removed gzip
  - upstream new source , #597403

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Wed Nov 25 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-5
  - removed \ from description

* Thu Oct 22 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-4
  - chnaged conf file priority

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-3
  - modified license field

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-2
  - updated as per package review suggestion, bug 526204

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-1
  - initial packaging
  - these fonts was there in bitmap-fonts package previously, packaging it separate as per merger review suggestion.

Found in path(s):
  * /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-miscfixed-spec
  No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 6x13O.bdf,v 1.7 2002-08-26 18:05:49+01 mgk25 Rel $
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57524
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 57563
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57565
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57570
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57575
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

88
70
00
00

STARTCHAR Odieresis
ENCODING 214
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
28
28
00
38
44
44
44
88
88
70
00
00

ENDCHAR
STARTCHAR multiply
ENCODING 215
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
44
28
30
50
88
00
00
00

ENDCHAR
STARTCHAR Oslash
ENCODING 216
SWIDTH 480 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57603
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

57613
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

57614
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57640
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57642
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57656
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57664
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57673
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57700
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57705
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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00
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48
48
78
B8
B8
B8
00
00
ENDCHAR
STARTCHAR uni046A
ENCODING 1130
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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7C
44
28
28
70
A8
A8
A8
A8
00
00
ENDCHAR
STARTCHAR uni046B
ENCODING 1131
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
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00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57768
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57770
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57777
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57783
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57787
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57827
ENDCHAR
STARTCHAR arrowright
ENCODING 8594
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
20
10
F8
10
20
00
00
00

ENDCHAR
STARTCHAR arrowdown
ENCODING 8595
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
10
10
10
10
20
20
A8
70
20
00
00
00

ENDCHAR
STARTCHAR minus
ENCODING 8722
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x13O.bdf

No license file was found, but licenses were detected in source scan.

#
# Name: ISO 8859-2:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
# Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
# This file is provided as-is by Unicode, Inc. (The Unicode Consortium).
# No claims are made as to fitness for any particular purpose. No
# warranties of any kind are expressed or implied. The recipient
# agrees to determine applicability of information provided. If this
# file has been provided on optical media by Unicode, Inc., the sole
# remedy for any claim will be exchange of defective media within 90
# days of receipt.
#
# Unicode, Inc. hereby grants the right to freely use the information
# supplied in this file in the creation of products supporting the
#Unicode Standard, and to make copies of this file in any form for
#internal or external distribution as long as this notice remains
#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#ISO/IEC 8859-2:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-2 code (in hex as 0XX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-2 order.
#
#Version history
#1.0 version updates 0.1 version by adding mappings for all
#control characters.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1Fx001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESES
0x290x0029#RIGHT PARENTHESES
0x2A0x002A#ASTERISK
0x2B0x002B#PLUS SIGN
0x2C0x002C#COMMA
0x2D0x002D#HYPHEN-MINUS
0x2E0x002E#FULL STOP
0x2F0x002F#SOLIDUS
0x300x0030#DIGIT ZERO
0x310x0031#DIGIT ONE
0x320x0032#DIGIT TWO
0x330x0033#DIGIT THREE
0x340x0034#DIGIT FOUR
0x350x0035#DIGIT FIVE
0x360x0036#DIGIT SIX
0x370x0037#DIGIT SEVEN
0x380x0038#DIGIT EIGHT
0x390x0039#DIGIT NINE
0x3A0x003A#COLON
0x3B0x003B#SEMICOLON
0x3C0x003C#LESS-THAN SIGN
0x3D0x003D#EQUALS SIGN
0x3E0x003E#GREATER-THAN SIGN
0x3F0x003F#QUESTION MARK
0x400x0040#COMMERCIAL AT
0x410x0041#LATIN CAPITAL LETTER A
0x420x0042#LATIN CAPITAL LETTER B
0x430x0043#LATIN CAPITAL LETTER C
0x440x0044#LATIN CAPITAL LETTER D
0x450x0045#LATIN CAPITAL LETTER E
0x460x0046#LATIN CAPITAL LETTER F
0x470x0047#LATIN CAPITAL LETTER G
0x480x0048#LATIN CAPITAL LETTER H
0x490x0049#LATIN CAPITAL LETTER I
0x4A0x004A#LATIN CAPITAL LETTER J
0x4B0x004B#LATIN CAPITAL LETTER K
0x4C0x004C#LATIN CAPITAL LETTER L
0x4D0x004D#LATIN CAPITAL LETTER M
0x4E0x004E#LATIN CAPITAL LETTER N
0x4F0x004F#LATIN CAPITAL LETTER O
0x500x0050#LATIN CAPITAL LETTER P
0x510x0051#LATIN CAPITAL LETTER Q
0x520x0052#LATIN CAPITAL LETTER R
0x530x0053#LATIN CAPITAL LETTER S
0x540x0054#LATIN CAPITAL LETTER T
0x550x0055#LATIN CAPITAL LETTER U
0x560x0056#LATIN CAPITAL LETTER V
0x570x0057#LATIN CAPITAL LETTER W
0x580x0058#LATIN CAPITAL LETTER X
0x590x0059#LATIN CAPITAL LETTER Y
0x5A0x005A#LATIN CAPITAL LETTER Z
0x5B0x005B#LEFT SQUARE BRACKET
0x5C0x005C#REVERSE SOLIDUS
0x5D0x005D#RIGHT SQUARE BRACKET
0x5E0x005E#CIRCUMFLEX ACCENT
0x5F0x005F#LOW LINE
0x600x0060#GRAVE ACCENT
0x610x0061#LATIN SMALL LETTER A
0x620x0062#LATIN SMALL LETTER B
0x630x0063#LATIN SMALL LETTER C
0x640x0064#LATIN SMALL LETTER D
0x650x0065#LATIN SMALL LETTER E
0x660x0066#LATIN SMALL LETTER F
0x670x0067#LATIN SMALL LETTER G
0x680x0068#LATIN SMALL LETTER H
0x690x0069#LATIN SMALL LETTER I
0x6A0x006A#LATIN SMALL LETTER J
0x6B0x006B#LATIN SMALL LETTER K
0x6C0x006C#LATIN SMALL LETTER L
0x6D0x006D#LATIN SMALL LETTER M
0x6E0x006E#LATIN SMALL LETTER N
0x6F0x006F#LATIN SMALL LETTER O
0x700x0070#LATIN SMALL LETTER P
0x710x0071#LATIN SMALL LETTER Q
0x720x0072#LATIN SMALL LETTER R
0x730x0073#LATIN SMALL LETTER S
0x740x0074#LATIN SMALL LETTER T
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

57843
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-2.TXT
No license file was found, but licenses were detected in source scan.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57846
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57902
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  57904
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57905
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57907
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

84
78
00
00
ENDCHAR
STARTCHAR otilde
ENCODING 245
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
32
4C
00
3C
42
42
84
84
78
00
00
ENDCHAR
STARTCHAR odieresis
ENCODING 246
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
24
24
00
3C
42
42
84
84
78
00
00
ENDCHAR
STARTCHAR divide
ENCODING 247
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57839
30
10
10
20
20
F8
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ENDCHAR
STARTCHAR Imacron
ENCODING 298
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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7C
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ENDCHAR
STARTCHAR imacron
ENCODING 299
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57844
10
7C
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20
ENDCHAR
STARTCHAR Lcaron
ENCODING 317
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
24
18
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20
40
40
40
7E
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ENDCHAR
STARTCHAR Lcaron
ENCODING 318
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
24
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ENDCHAR
STARTCHAR Ldot
ENCODING 319
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
3D
42
42
84
84
78
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ENDCHAR
STARTCHAR uni01A2
ENCODING 418
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
36
4A
4A
4A
4A
94
94
94
64
04
00
ENDCHAR
STARTCHAR uni01A3
ENCODING 419
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
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4A
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57994
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 57999
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

58015
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  58017
84
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00
ENDCHAR
STARTCHAR uni01E5
ENCODING 485
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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3A
44
88
70
80
78
8E
78
ENDCHAR
STARTCHAR Gcaron
ENCODING 486
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
24
18
00
3C
42
40
9C
84
8C
74
00
00
ENDCHAR
STARTCHAR gcaron
ENCODING 487
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58023
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 58037
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58043
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58046
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58058
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

SWIDTH 568 0
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BITMAP
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49
92
92
6E
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SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
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41
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49
92
92
6E
02
02

SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58073
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58081
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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24
18
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38
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STARTCHAR tilde
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28
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**Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1**

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*58110*
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Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58130
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

58216
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58228
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58230
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  S8253
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7C
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84
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ENCODING 7704
SWIDTH 568 0
DWIDTH 8 0
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BITMAP
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BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58277
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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STARTCHAR quotelleft
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58325
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58383
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qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/8x13O.bdf
No license file was found, but licenses were detected in source scan.

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COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
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FONT_ASCENT 16
X_HEIGHT 8
CAP_HEIGHT 13
COPYRIGHT "Public domain font. Share and enjoy."
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 58415
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Agrave
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BITMAP
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1E00
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DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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7F80
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3180
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

58511
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  58528
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**STARTCHAR Zdotaccent**

**ENCODING 379**

**SWIDTH 480 0**

**DWIDTH 10 0**

**BBX 10 20 0 -4**

**BITMAP**

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**STARTCHAR zdotaccent**

**ENCODING 380**

**SWIDTH 480 0**

**DWIDTH 10 0**

**BBX 10 20 0 -4**

**BITMAP**

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ENCODING 593
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58845
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**DWIDTH 10 0**
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**BITMAP**

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**DWIDTH 10 0**
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**BITMAP**

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0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61074
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61090
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ENDCHAR
STARTCHAR uniFBA1
ENCODING 64417
SWIDTH 480 0
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BBX 10 20 0 -4
BITMAP
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ENDCHAR
STARTCHAR uniFBA2
ENCODING 64418
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61233
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61275
No license file was found, but licenses were detected in source scan.
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ENDCHAR
STARTCHAR D
ENCODING 68
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENCODING 69
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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STARTCHAR F
ENCODING 70
SWIDTH 568 0

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61330
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DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR agrave
ENCODING 224
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR aacute
ENCODING 225
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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ENDCHAR
STARTCHAR ccaron
ENCODING 269
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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STARTCHAR Dcaron
ENCODING 270
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR dcaron
ENCODING 271
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61410
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61418
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61532
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ENDCHAR
STARTCHAR uni02A3
ENCODING 675
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni02A4
ENCODING 676
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61564
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61578
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61601
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DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR Sigma
ENCODING 931
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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SWIDTH 568 0
DWIDTH 8 0
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BITMAP
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ENCODING 952
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR iota
ENCODING 953
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR kappa
ENCODING 954
SWIDTH 568 0

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61650
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCODING 971
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
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ENDCODING 972
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCODING 973
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61665
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61687
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61728
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61742
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61749

ENDCHAR
STARTCHAR uni04B1
ENCODING 1201
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni04B2
ENCODING 1202
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61753
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61755
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Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61776
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni0504
ENCODING 1284
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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88
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ENDCHAR
STARTCHAR uni0505
ENCODING 1285
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni0506
ENCODING 1286
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni0509
ENCODING 1289
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCCHAR
STARTCHAR uni050A
ENCODING 1290
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61785
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61804
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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ENDCHAR
STARTCHAR uni057C
ENCODING 1404
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni057D
ENCODING 1405
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni057E
ENCODING 1406
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  61817
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 61820
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62225
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62315
OPEN SOURCE USED IN FIELD NETWORK DIRECTOR FOR VIRTUAL MACHINE INSTALLATION 4.7.1 62316

STARTCHAR minus
ENCODING 8722
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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STARTCHAR uni2213
ENCODING 8723
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62318
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENCODING 8746
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR integral
ENCODING 8747
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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ENDCHAR
STARTCHAR uni2233
ENCODING 8755
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENCODING 8756
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BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni2235
ENCODING 8757
SWIDTH 568 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62337
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1  62340
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR equivalence
ENCODING 8801
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni2262
ENCODING 8802
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62350

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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62373
ENDCHAR
STARTCHAR uni22CA
ENCODING 8906
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni22CB
ENCODING 8907
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni22CC
ENCODING 8908
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62402
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62492
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62494
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62500
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62683
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

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DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni288C
ENCODING 10380
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni288D
ENCODING 10381
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62752
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62851
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 6x9.bdf,v 1.28 2006-01-05 20:03:17+00 mgk25 Rel$
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--9-90-75-75-C-60-ISO10646-1
SIZE 9 75 75
FONTBOUNDINGBOX 6 9 0 -2
STARTPROPERTIES 22
FONTNAME_REGIST ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
10
20
ENDCHAR
STARTCHAR less
ENCODING 60
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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ENDCHAR
STARTCHAR equal
ENCODING 61
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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F8
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F8
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ENDCHAR
STARTCHAR greater
ENCODING 62
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 62871
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  62999
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
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ENDCHAR
STARTCHAR eta
ENCODING 951
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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ENDCHAR
STARTCHAR theta
ENCODING 952
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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ENDCHAR
STARTCHAR iota
ENCODING 953
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
00
00
40
40
50
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63008
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

63010
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63012
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63014
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63020
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 63029
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63044
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63045
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63068
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63073
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63074
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR eightinferior
ENCODING 8328
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
00
00
00
20
50
20
50
20

ENDCHAR
STARTCHAR nineinferior
ENCODING 8329
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
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ENDCHAR
STARTCHAR uni208A
ENCODING 8330
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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such that
ENDCHAR
STARTCHAR uni2210
ENCODING 8720
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
50
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F8
00
ENDCHAR
STARTCHAR summation
ENCODING 8721
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
F8
40
20
20
40
F8
00
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ENDCHAR
STARTCHAR minus
ENCODING 8722
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
00
00
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F8
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Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63168
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63176
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FC
ENDCHAR
STARTCHAR filledbox
ENCODING 9632
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
00
F8
F8
F8
F8
F8
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00
ENDCHAR
STARTCHAR H22073
ENCODING 9633
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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F8
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88
F8
00
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ENDCHAR
STARTCHAR uni25A2
ENCODING 9634
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63253
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR  uni2896
ENCODING 10390
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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00
00
50
00
40
00
10
00

ENDCHAR
STARTCHAR  uni2897
ENCODING 10391
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
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00
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00
40
00
10
00

ENDCHAR
STARTCHAR  uni2898
ENCODING 10392
SWIDTH 640 0
DWIDTH 6 0
BBX 6 9 0 -2
BITMAP
00
10
00
10
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63261
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63268
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63269
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

63271
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRejws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x9.bdf
No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-9:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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Attached.

General notes:

This table contains the data the Unicode Consortium has on how ISO/IEC 8859-9:1999 characters map into Unicode.

Format: Three tab-separated columns

Column #1 is the ISO/IEC 8859-9 code (in hex as 0xXX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-9 order.

ISO/IEC 8859-9 is also equivalent to ISO-IR-148.

Version history

1.0 version updates 0.1 version by adding mappings for all control characters.

Updated versions of this file may be found in:

Updated versions of this file may be found in:

Any comments or problems, contact <errata@unicode.org>

Please note that <errata@unicode.org> is an archival address;

Notices will be checked, but do not expect an immediate response.

0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0a0x000a#LINE FEED
0x0b0x000b#VERTICAL TABULATION
0x0c0x000c#FORM FEED
0x0d0x000d#CARRIAGE RETURN
0x0e0x000e#SHIFT OUT
0x0f0x000f#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63293
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-9.TXT
No license file was found, but licenses were detected in source scan.

#
#Name:       ISO 8859-7:2003 to Unicode
#Unicode version: 4.0
#Table version: 2.0
#Table format: Format A
#Date:       2003-Nov-12
#Authors:    Ken Whistler <kenw@sybase.com>
#
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#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#ISO 8859-7:2003 characters map into Unicode.
#
#ISO 8859-7:1987 is equivalent to ISO-IR-126, ELOT 928, and
#ECMA 118. ISO 8859-7:2003 adds two currency signs
#and one other character not in the earlier standard.
#
#Format: Three tab-separated columns
#Column #1 is the ISO 8859-7 code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO 8859-7 order.
#
#Version history
#1.0 version updates 0.1 version by adding mappings for all
#control characters.
#Remap 0xA1 to U+2018 (instead of 0x02BD) to match text of 8859-7
#Remap 0xA2 to U+2019 (instead of 0x02BC) to match text of 8859-7
#
#2.0 version updates 1.0 version by adding mappings for the 
#three newly added characters 0xA4, 0xA5, 0xAA.
#
#Updated versions of this file may be found in:
#<http://www.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact the Unicode Consortium at:
#<http://www.unicode.org/reporting.html>
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1Fx0x001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63300
0xBB0x038C#GREEK CAPITAL LETTER OMICRON WITH TONOS
0xBC0x038E#GREEK CAPITAL LETTER UPSILON WITH TONOS
0xBD0x038F#GREEK CAPITAL LETTER OMEGA WITH TONOS
0xBE0x0390#GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
0xC00x0391#GREEK CAPITAL LETTER ALPHA
0xC10x0392#GREEK CAPITAL LETTER BETA
0xC20x0393#GREEK CAPITAL LETTER GAMMA
0xC40x0394#GREEK CAPITAL LETTER DELTA
0xC50x0395#GREEK CAPITAL LETTER EPSILON
0xC60x0396#GREEK CAPITAL LETTER ZETA
0xC70x0397#GREEK CAPITAL LETTER ETA
0xC80x0398#GREEK CAPITAL LETTER THETA
0xC90x0399#GREEK CAPITAL LETTER IOTA
0xCA0x039A#GREEK CAPITAL LETTER KAPPA
0xCB0x039B#GREEK CAPITAL LETTER LAMDA
0xCC0x039C#GREEK CAPITAL LETTER MU
0xCD0x039D#GREEK CAPITAL LETTER NU
0xCE0x039E#GREEK CAPITAL LETTER XI
0xCF0x039F#GREEK CAPITAL LETTER OMECROT WITH TONOS
0xD00x03A0#GREEK CAPITAL LETTER PI
0xD10x03A1#GREEK CAPITAL LETTER RHO
0xD30x03A3#GREEK CAPITAL LETTER SIGMA
0xD40x03A4#GREEK CAPITAL LETTER TAU
0xD50x03A5#GREEK CAPITAL LETTER UPSILON
0xD60x03A6#GREEK CAPITAL LETTER PHI
0xD70x03A7#GREEK CAPITAL LETTER CHI
0xD80x03A8#GREEK CAPITAL LETTER PSI
0xD90x03A9#GREEK CAPITAL LETTER OMEGA
0xDA0x03AA#GREEK CAPITAL LETTER IOTA WITH DIALYTIKA
0xDB0x03AB#GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA
0xDC0x03AC#GREEK SMALL LETTER ALPHA WITH TONOS
0xDD0x03AD#GREEK SMALL LETTER EPSILON WITH TONOS
0xDE0x03AE#GREEK SMALL LETTER ETA WITH TONOS
0xDF0x03AF#GREEK SMALL LETTER IOTA WITH TONOS
0xE00x03B0#GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS
0xE10x03B1#GREEK SMALL LETTER ALPHA
0xE20x03B2#GREEK SMALL LETTER BETA
0xE30x03B3#GREEK SMALL LETTER GAMMA
0xE40x03B4#GREEK SMALL LETTER DELTA
0xE50x03B5#GREEK SMALL LETTER EPSILON
0xE60x03B6#GREEK SMALL LETTER ZETA
0xE70x03B7#GREEK SMALL LETTER ETA
0xE80x03B8#GREEK SMALL LETTER THETA
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-7.TXT
No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-15:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
#       Ken Whistler <kenw@sybase.com>
#
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#
#General notes:
#
#This table contains the data the Unicode Consortium has on how ISO/IEC 8859-15:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-15 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-15 order.
#
#Version history
#
#Updated versions of this file may be found in: <ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.
#
0x00000000#NULL
0x01000001#START OF HEADING
0x02000002#START OF TEXT
0x03000003#END OF TEXT
0x04000004#END OF TRANSMISSION
0x05000005#ENQUIRY
0x06000006#ACKNOWLEDGE
0x07000007#BELL
0x08000008#BACKSPACE
0x09000009#HORIZONTAL TABULATION
0x0a00000a#LINE FEED
0x0b00000b#VERTICAL TABULATION
0x0c00000c#FORM FEED
0x0d00000d#CARRIAGE RETURN
0x0e00000e#SHIFT OUT
0x0f00000f#SHIFT IN
0x10000010#DATA LINK ESCAPE
0x11000011#DEVICE CONTROL ONE
0x12000012#DEVICE CONTROL TWO
0x13000013#DEVICE CONTROL THREE
0x14000014#DEVICE CONTROL FOUR
0x15000015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1Ax001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1Cx001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1Ex001E#RECORD SEPARATOR
0x1Fx001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
0x2A0x002A#ASTERISK
0x2B0x002B#PLUS SIGN
0x2C0x002C#COMMA
0x2D0x002D#HYPHEN-MINUS
0x2E0x002E#FULL STOP
0x2F0x002F#SOLIDUS
0x300x0030#DIGIT ZERO
0x310x0031#DIGIT ONE
0x320x0032#DIGIT TWO
0x330x0033#DIGIT THREE
0x340x0034#DIGIT FOUR
0x350x0035#DIGIT FIVE
0x360x0036#DIGIT SIX
0x370x0037#DIGIT SEVEN
0x380x0038#DIGIT EIGHT
0x390x0039#DIGIT NINE
0x3A0x003A#COLON
0x3B0x003B#SEMICOLON
0x3C0x003C#LESS-THAN SIGN
0x3D0x003D#EQUALS SIGN
0x3E0x003E#GREATER-THAN SIGN
0x3Fx003F#QUESTION MARK
0x400x0040#COMMERCIAL AT
0x410x0041#LATIN CAPITAL LETTER A
0x420x0042#LATIN CAPITAL LETTER B
0x430x0043#LATIN CAPITAL LETTER C
0x440x0044#LATIN CAPITAL LETTER D
0x450x0045#LATIN CAPITAL LETTER E
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-15.TXT
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# Name: ISO 8859-6:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
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#
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# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-6 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
# control characters.
# 0x30..0x39 remapped to the ASCII digits (U+0030..U+0039) instead
# of the Arabic digits (U+0660..U+0669).
#
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# Please note that <errata@unicode.org> is an archival address;
# notices will be checked, but do not expect an immediate response.
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqlwus/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-6.TXT

No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-16:2001 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 2001 July 26
# Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
#
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This table contains the data the Unicode Consortium has on how ISO/IEC 8859-16 characters map into Unicode.

Format: Three tab-separated columns
Column #1 is the ISO/IEC 8859-16 code (in hex as 0xXX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-16 order.

Updated versions of this file may be found in:
<ftp://ftp.unicode.org/Public/MAPPINGS/>

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NULL
START OF HEADING
START OF TEXT
END OF TEXT
END OF TRANSMISSION
ENQUIRY
ACKNOWLEDGE
BEL
BACKSPACE
HORIZONTAL TABULATION
LINE FEED
VERTICAL TABULATION
FORM FEED
CARRIAGE RETURN
SHIFT OUT
SHIFT IN
DATA LINK ESCAPE
DEVICE CONTROL ONE
DEVICE CONTROL TWO
DEVICE CONTROL THREE
DEVICE CONTROL FOUR
NEGATIVE ACKNOWLEDGE
SYNCHRONOUS IDLE
END OF TRANSMISSION BLOCK
CANCEL
END OF MEDIUM
SUBSTITUTE
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63331
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

78 84 84 48 30 48 84 84 84 78 00 00

ENDCHAR
STARTCHAR nine
ENCODING 57
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00 00 00

ENDCHAR
STARTCHAR eight
ENCODING 56
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00 00 78 84 84 48 30 48 84 84 84 78 00 00

ENDCHAR
STARTCHAR seven
ENCODING 55
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00 00 FC 04 08 08 10 10 20 20 40 40 00 00

ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR greater
ENCODING 62
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
40
20
10
08
04
08
20
10
40
00
00
00
ENDCHAR
STARTCHAR question
ENCODING 63
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
84
84
08
10
10
10
00
10
10
00
00
00
ENDCHAR
STARTCHAR at
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63353
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63354
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63360
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63370
84
78
00
00
ENDCHAR
STARTCHAR macron
ENCODING 175
SWIDTH 960.0
DWIDTH 7.0
BBX 7 14 0 -2
BITMAP
00
00
7C
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR degree
ENCODING 176
SWIDTH 960.0
DWIDTH 7.0
BBX 7 14 0 -2
BITMAP
00
30
48
48
30
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR plusminus
ENCODING 177
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
10
10
7C
10
10
7C
00
00
00
ENDCHAR
STARTCHAR twosuperior
ENCODING 178
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
30
48
08
10
20
40
78
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR threesuperior
ENCODING 179
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63375
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63378
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63381
20
ENDCCHAR
STARTCHAR Egrave
ENCODING 200
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
20
10
00
FC
80
80
80
F8
80
80
80
FC
00
00
ENDCCHAR
STARTCHAR Eacute
ENCODING 201
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
10
20
00
FC
80
80
80
80
F8
80
80
80
FC
00
00
ENDCCHAR
STARTCHAR Ecircumflex
ENCODING 202
SWIDTH 960 0
DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63397
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63403
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63417
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63442
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
63452
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63455
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63462
00
ENDCHAR
STARTCHAR uni01A8
ENCODING 424
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
78
84
08
30
40
84
78
00
00
ENDCHAR
STARTCHAR uni01A9
ENCODING 425
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
FC
80
40
20
10
20
40
80
80
FC
00
00
ENDCHAR
STARTCHAR uni01AA
ENCODING 426
SWIDTH 960 0
DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63494
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63525
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63532
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

80
9C
84
8C
74
00
00
ENDCHAR
STARTCHAR uni0263
ENCODING 611
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
44
44
28
28
10
10
28
28
10
10
ENDCHAR
STARTCHAR uni0264
ENCODING 612
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
44
AA
28
10
10
28
10
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63651
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 63658
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
80
80
00
00
ENDCHAR
STARTCHAR Sigma
ENCODING 931
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
FC
80
40
20
10
20
40
80
80
FC
00
00
00
ENDCHAR
STARTCHAR Tau
ENCODING 932
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
FE
10
10
10
10
10
10
10
10
10
10
00
00
ENDCHAR
STARTCHAR Upsilon
C4
B8
80
80
ENDCHAR
STARTCHAR gamma
ENCODING 947
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
44
44
44
28
28
10
10
10
10
ENDCHAR
STARTCHAR delta
ENCODING 948
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
84
40
78
84
84
84
84
84
84
84
78
00
00
ENDCHAR
STARTCHAR epsilon
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63700
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63704
BBX 7 14 0 -2
BITMAP
00
00
1C
08
08
08
08
08
08
08
88
88
70
00
00
ENDCHAR
STARTCHAR afii10058
ENCODING 1033
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
70
50
50
50
50
58
54
54
54
54
54
98
00
00
ENDCHAR
STARTCHAR afii10059
ENCODING 1034
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
90
90

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63705
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63757
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

63763
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63774
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63784
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
54
54
54
38
54
54
54
54
54
00
00
ENDCHAR
STARTCHAR uni04DD
ENCODING 1245
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
28
28
00
54
54
54
54
38
54
54
54
54
00
00
ENDCHAR
STARTCHAR uni04DE
ENCODING 1246
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
48
48
00
78
84
04
04
38
04
04
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63801
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63808
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63811
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
00
ENDCHAR
STARTCHAR uni0541
ENCODING 1345
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
84
84
84
84
04
04
78
88
74
00
00
ENDCHAR
STARTCHAR uni0542
ENCODING 1346
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
70
88
88
88
08
08
08
08
08
0C
04
04
00
ENDCHAR
STARTCHAR uni0543
ENCODING 1347
SWIDTH 960 0
DWIDTH 7 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63824
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63857
24
3C
00
00
ENDCHAR
STARTCHAR afii57678
ENCODING 1502
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
48
54
24
44
44
44
5C
00
00
00
ENDCHAR
STARTCHAR afii57679
ENCODING 1503
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
30
10
10
10
10
10
10
10
10
ENDCHAR
STARTCHAR afii57680
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63880
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63903
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63824
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 63848
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63856
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 63960
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63884
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  63991
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

63997
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64007
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1

64019
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64022
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 64037
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64047
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64073
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

64082
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64094
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64123
BBX 7 14 0 -2
BITMAP
00
00
90
90
D4
BA
9A
9A
9E
00
00
ENDCHAR
STARTCHAR uni211A
ENCODING 8474
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
A4
A4
A4
A4
A4
A4
A4
78
04
00
ENDCHAR
STARTCHAR uni211D
ENCODING 8477
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
F8
A4
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

A0
FE
00
00
ENDCHAR
STARTCHAR Omega
ENCODING 8486
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
84
84
84
84
84
84
48
48
CC
00
00
ENDCHAR
STARTCHAR uni2127
ENCODING 8487
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
CC
48
48
84
84
84
84
84
84
84
78
00
00
ENDCHAR
STARTCHAR estimated
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64148
ENCODE 10
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
10
10
28
28
44
44
82
FE
00
00
ENDCHAR
STARTCHAR gradient
ENCODING 8711
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
FE
82
44
44
28
28
10
10
00
00
ENDCHAR
STARTCHAR element
ENCODING 8712
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64158
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64169

End
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64215
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64226
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64228
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64235
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64271
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64285
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64295
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64297
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64320
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64322
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64337
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64351
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64370
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64374
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64376
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64383
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64390
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64410
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64421
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64425
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1 64439
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/7x14.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 6x13B.bdf,v 1.26 2006-01-05 20:03:17+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-SemiCondensed--13-120-75-75-C-60-ISO10646-1
SIZE 13 78 78
FONTEXPORTINGBOX 6 13 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "SemiCondensed"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
00
00
00
ENDCHAR
STARTCHAR parenleft
ENCODING 40
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
18
30
30
60
60
60
60
60
60
60
30
30
18
00
ENDCHAR
STARTCHAR parenright
ENCODING 41
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
60
30
30
18
18
18
18
18
18
18
18
30
30
60
00
ENDCHAR
STARTCHAR asterisk
ENCODING 42
SWIDTH 426 0
DWIDTH 6 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64457
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64459
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64461
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64462
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64472
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64474
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64475
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64476
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64489
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64494
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64496
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64502
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64507
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64519
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64522
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64524
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64529
STARTCHAR Dcroat
ENCODING 272
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
F8
6C
6C
6C
FC
6C
6C
6C
F8
00
00
ENDDCHAR
STARTCHAR dcroat
ENCODING 273
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
0C
7C
0C
6C
DC
CC
CC
DC
6C
00
00
ENDDCHAR
STARTCHAR Emacron
ENCODING 274
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
7C
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

64547
Open Source Used in Field Network Director for Virtual Machine Installation 4.7.1  64553
C0
C0
C0
C0
FC
00
00
ENDCHAR
STARTCHAR lcaron
ENCODING 318
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
D8
70
00
70
30
30
30
30
30
30
78
00
00
00
ENDCHAR
STARTCHAR Ldot
ENCODING 319
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
C0
C0
C0
C0
D8
D8
C0
C0
C0
FC
00
00
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64579
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64588
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64599
STARTCHAR uni0324
ENCODING 804
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
D8
ENDCHAR
STARTCHAR uni0325
ENCODING 805
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
00
78
48
78
ENDCHAR
STARTCHAR uni0326
ENCODING 806
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
STARTCHAR Omega
ENCODING 937
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
78
CC
CC
CC
CC
CC
48
48
CC
00
00
ENDCHAR
STARTCHAR Iotadieresis
ENCODING 938
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
CC
CC
00
78
30
30
30
30
30
30
78
00
00
ENDCHAR
STARTCHAR Upsilondieresis
ENCODING 939
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
CC
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64654
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64671
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64673
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64683
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64706
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64724
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR uni047D
ENCODING 1149
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
ENDCHAR
STARTCHAR uni047E
ENCODING 1150
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
FC
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR uni1E0C
ENCODING 7692
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
F8
6C
6C
6C
6C
6C
6C
6C
F8
00
30
30
ENDCHAR

STARTCHAR uni1E0D
ENCODING 7693
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
0C
0C
0C
6C
DC
CC
DC
6C
00
30
30
ENDCHAR

STARTCHAR uni1E0E
ENCODING 7694
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64770
FC
30
60
ENDCHAR
STARTCHAR uni1E1D
ENCODING 7709
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
44
38
00
78
CC
FC
C0
C0
78
30
60
ENDCHAR
STARTCHAR uni1E1E
ENCODING 7710
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
30
30
00
FC
C0
C0
F8
C0
C0
C0
C0
00
00
00
ENDCHAR
STARTCHAR uni1E1F
ENCODING 7711
SWIDTH 426 0
DWIDTH 6 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64779
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64792
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 & 64802
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

64803
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64807
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64829
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64831
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64846
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64854
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64865
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64877
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64882
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64889
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64891
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64892
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64898
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64924
existential

suchthat
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64853
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR propersubset
ENCODING 8834
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00

7C
C0
C0
C0
7C
00
00
00

ENDCHAR
STARTCHAR propersuperset
ENCODING 8835
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
F8
0C
0C
0C
F8
00
00
00
00

ENDCHAR
STARTCHAR notsubset
ENCODING 8836
SWIDTH 426 0
DWIDTH 6 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  64963
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x13B.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 9x15.bdf,v 1.83 2009-04-06 18:53:05+01 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--15-140-75-75-C-90-ISO10646-1
SIZE 15 75 75
FONTBOUNDINGBOX 9 15 0 -3
STARTPROPERTIES 22
FONTNAME_REGISTY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 15
POINT_SIZE 140
RESOLUTION_X 75
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 64999
BBX 9 15 0 -3
BITMAP
0000
0000
4000
4000
4000
4000
4000
4000
7F00
0000
0000
0000
ENDCHAR
STARTCHAR M
ENCODING 77
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
4100
4100
6300
5500
5500
4900
4900
4100
4100
4100
0000
0000
0000
ENDCHAR
STARTCHAR N
ENCODING 78
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR brokenbar
ENCODING 166
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
0800
0800
0800
0800
0800
0800
0800
0000
0800
0800
0800
0800
0800
0800
0800
0800
0800
0000
0000
ENDCHAR
STARTCHAR section
ENCODING 167
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1800
2400
2000
1800
2400
2400
2400
2400
1800
0400
2400
1800
0000
0000
ENDCHAR
STARTCHAR dieresis
ENCODING 168
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65049
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65070
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

BBX 9 15 0 -3
BITMAP
0000
0000
2200
1C00
0000
3E00
4100
4100
7F00
4000
4000
3E00
0000
0000
0000
ENDCHAR
STARTCHAR Edotaccent
ENCODING 278
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
1800
0000
7F00
4000
4000
4000
7C00
4000
4000
4000
7F00
0000
0000
0000
0000
ENDCHAR
STARTCHAR edotaccent
ENCODING 279
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65085
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65129
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

2000
2000
2000
2000
2000
2000
2000
C000
0000
.ENDCHAR
.STARTCHAR florin
.ENCODING 402
.SWIDTH 576 0
.DWIDTH 9 0
.BBX 9 15 0 -3
.BITMAP
0000
0000
0E00
1100
1100
1000
1000
7C00
1000
1000
1000
1000
1000
1000
6000
0000
.ENDCHAR
.STARTCHAR uni0193
.ENCODING 403
.SWIDTH 576 0
.DWIDTH 9 0
.BBX 9 15 0 -3
.BITMAP
0000
0300
0200
3E00
4100
4000
4000
4700
4100
4100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65149
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65151
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65160
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65190
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65192
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65218
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
2400
1800
0000
ENDCHAR
STARTCHAR uni027E
ENCODING 638
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0E00
1100
2100
2000
2000
2000
2000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni027F
ENCODING 639
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
1C00
2200
2100
2100
0100
0100
0100
0100
0000
0000
0000
0000
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65274
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0000
2100
3F00
2100
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
2200
1C00
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR breve
ENCODING 728
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
2200
1C00
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR dotaccent
ENCODING 729
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65292
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65325
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65326
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR Phi
ENCODING 934
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
3E00
4900
4900
4900
4900
4900
4900
4900
4900
3E00
0000
0000
0000
0000
ENDCHAR
STARTCHAR Chi
ENCODING 935
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
4100
4100
2200
1400
0800
0800
1400
2200
4100
4100
0000
0000
0000
0000
ENDCHAR
STARTCHAR Psi
ENCODING 936
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

ENDCHAR
STARTCHAR Upsilon dieresis
ENCODING 939
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
4100
4100
0000
4100
4100
2200
1400
0800
0800
0800
0800
0000
0000
0000
ENDCHAR
STARTCHAR alphatonos
ENCODING 940
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0200
0400
0800
0000
3D00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
STARTCHAR xi
ENCODING 958
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7F00
1000
2000
2000
1C00
2000
4000
4000
4000
3E00
0100
0100
0600
ENDCHAR
STARTCHAR omicron
ENCODING 959
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0000
3E00
4100
4100
4100
4100
4100
3E00
0000
0000
0000
0000
ENDCHAR
STARTCHAR pi
ENCODING 960
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65366
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65394
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65433
2200
2400
2400
1400
1400
0800
0000
0000
0000
ENDCHAR
STARTCHAR uni0477
ENCODING 1143
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
2400
1200
0000
4100
4200
2400
2400
1400
1400
0800
0000
0000
0000
ENDCHAR
STARTCHAR uni0478
ENCODING 1144
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
2000
5000
5000
5500
5500
5500
5500
5500
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65439
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

65495
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65500
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65501
8400
8400
8400
8E00
8500
7900
0000
0000
0000
ENDCHAR
STARTCHAR uni0532
ENCODING 1330
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1C00
2200
4100
4100
4000
4000
4000
7E00
4100
4000
4000
0000
0000
0000
ENDCHAR
STARTCHAR uni0533
ENCODING 1331
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7800
8400
8400
8400
8400
8400
7E00
0500
0400
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65504
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65506
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65532
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65543
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
2000
4000
8000
ENDCHAR
STARTCHAR afii57457
ENCODING 1617
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0800
2800
B800
E000
4000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR afii57458
ENCODING 1618
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
1000
2800
2800
1000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65598
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
3000
ENDCHAR
STARTCHAR uni0E0F
ENCODING 3599
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
3E00
4100
6100
2100
6100
A100
5100
3500
5B00
2000
ENDCHAR
STARTCHAR uni0E10
ENCODING 3600
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
3D00
4200
7E00
0900
1500
0D00
0200
3300
5500
2B00
ENDCHAR
STARTCHAR uni0E11
ENCODING 3601
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65606
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

3100 3100 2100 2100 0000 0000 0000
ENDCHAR
STARTCHAR uni0E18
ENCODING 3608
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000 0000 0000 0000 0000 3D00 4200 7E00 2100 2100 2100 1E00 0000 0000 0000
ENDCHAR
STARTCHAR uni0E19
ENCODING 3609
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000 0000 0000 0000 0000 4200 A200 6200 2200 2100 2100 1E00 0000 0000 0000
3100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65631
9100
7E00
0000
0000
0000
ENDCHAR
STARTCHAR uni0EA5
ENCODING 3749
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
7C00
8200
0100
0100
7100
A900
4600
0000
0000
0000
ENDCHAR
STARTCHAR uni0EA7
ENCODING 3751
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
3C00
4200
0200
0200
2200
5200
3C00
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65647
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65671
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

65674

2100
2100
1200
0C00
0000
0000
0000
ENDCHAR
STARTCHAR uni10AF
ENCODING 4271
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7100
1100
2100
2100
2300
1D00
0100
0100
0100
0100
0000
0000
0000
ENDCHAR
STARTCHAR uni10B0
ENCODING 4272
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
0800
0800
0A00
0D00
0900
8900
8800
8800
7000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65674
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65677
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65710
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
C480
C700
0000
0000
0000
ENDCHAR
STARTCHAR uni1265
ENCODING 4709
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0E00
1300
3300
3300
3300
F300
B300
3300
3300
3300
3300
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni1266
ENCODING 4710
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1E00
2300
6300
6300
6300
6300
6300
6300
6300
6300
6300
6000
6000
6000
6000
0000
0000

Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65747
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65753
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65755
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65780
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
1900
1880
0000
0000
0000
ENDCHAR
STARTCHAR uni12EB
ENCODING 4843
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1C00
3600
6300
6300
3300
1E00
0C00
0C00
1800
3000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni12EC
ENCODING 4844
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
3800
6C00
C600
6600
3C00
1800
1E00
1900
1E00
1800
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65813
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65819
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65521
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65827
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65838
1800
1400
1200
1000
1000
1000
0000
0000
0000
0000

ENDCHAR
STARTCHAR uni16A9
ENCODING 5801
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1100
1A00
1400
1100
1A00
1400
1000
1000
1000
1000
0000
0000
0000
0000

ENDCHAR
STARTCHAR uni16AA
ENCODING 5802
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1100
1A00
1400
1000
1400
1000
1000
1000
0000
0000
0000
0000

---
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65866
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65874
2100
2300
2500
2900
3100
2100
0100
0100
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni16CC
ENCODING 5836
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
0800
0800
0800
0800
0800
0800
0800
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni16CD
ENCODING 5837
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
0800
0800
0800
0800
0800
0800
0000
0000
0000
0000
0000
0000
0000
1C00
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65890
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65900
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65907
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1

4000
3E00
0800
1400
2200
ENDCHAR
STARTCHAR uni1E1A
ENCODING 7706
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7F00
4000
4000
4000
7C00
4000
4000
4000
4000
7F00
0000
3100
4E00
ENDCHAR
STARTCHAR uni1E1B
ENCODING 7707
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
3E00
4100
4100
7F00
4000
4000
3E00
0000
3100
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65919
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65923
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 65934
STARTCHAR uni1E59
ENCODING 7769
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0C00
0000
4E00
3100
2100
2000
2000
2000
2000
0000
0000
0000
ENDCHAR
STARTCHAR uni1E5A
ENCODING 7770
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7E00
4100
4100
4100
7E00
4800
4400
4200
4100
4100
0800
0800
0000
0000
ENDCHAR
STARTCHAR uni1E5B
ENCODING 7771
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  65961
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1 66004
Open Source Used In Field Network Director for Virtual Machine Installation 4.7.1  66024
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
E880
5880
8880
0880
0F80
0880
0880
0880
0880
0880
0000
0000
0000
ENDCHAR
STARTCHAR uni1F2B
ENCODING 7979
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
E880
9880
4880
0880
0F80
0880
0880
0880
0880
0880
0880
0880
0880
0880
0000
0000
0000
ENDCHAR
STARTCHAR uni1F2C
ENCODING 7980
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-el-api

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```

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
*/opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/traffic/package-info.java
*/opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/traffic/TrafficCounter.java
*/opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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  * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
    jar/io/netty/handler/logging/ByteBufFormat.java
  * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
    jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1.jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
1.2148 libxau 1.0.8-2.1.el7

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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```
NR START    END SECTORS SIZE  NAME UUID
1     32     7679    7648  3.7M  8f8378c0-01
2    7680  16383    8704  4.3M  8f8378c0-02
5    7936  12799    4864  2.4M
6  12544  16127    3584  1.8M
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**1.2188 kerberos 1.15.1-50.el7**

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  cmd/krb5/slave/propd_rpc.c
  lib/gss_mechs/mech_krb5/et/kdb5_err.c
  lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
  lib/gss_mechs/mech_spnego/mech/spnego_mech.c
  lib/krb5/kadm5/kadm_host_srv_names.c
  lib/krb5/kdb/kdb_convert.c
  lib/krb5/kdb/kdb_hdr.h
  lib/krb5/kdb/kdb_log.c
  lib/krb5/kdb/kdb_log.h
  lib/libgss/g_accept_sec_context.c
  lib/libgss/g_acquire_cred.c
  lib/libgss/g_canon_name.c
  lib/libgss/g_compare_name.c
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  lib/libgss/g_dup_name.c
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  lib/libgss/g_imp_name.c
  lib/libgss/g_imp_sec_context.c
  lib/libgss/g_init_sec_context.c
  lib/libgss/g_initialize.c
  lib/libgss/g_inquire_context.c
  lib/libgss/g_inquire_cred.c
  lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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abstract: 'Perl interpreter-based threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
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meta-spec:
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  version: 1.4
name: threads
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  Config: 0
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* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-
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/*
 * ppport.h -- Perl/Pollution/Portability Version 3.19
 * Automatically created by Devel::PPPort running under perl 5.010000.
 * Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
 * includes in parts/inc/ instead.
 * Use 'perldoc ppport.h' to view the documentation below.
 */

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given
--help                  show short help
--version               show version
--patch=file            write one patch file with changes
--copy=suffix           write changed copies with suffix
--diff=program         use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus            accept C++ comments
--quiet                 don't output anything except fatal errors
--nodiag                don't show diagnostics
--nohints               don't show hints
--nochanges             don't suggest changes
--nofilter              don't filter input files
--strip                 strip all script and doc functionality from ppport.h
--list-provided        list provided API
--list-unsupported      list unsupported API
--api-info=name         show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use
perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define> s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files),
use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<\DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<\DPPP_>.

=back

The good thing is that most of the above can be checked by running F<\ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<\ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<\ppport.h> can be run as a Perl script to check your
source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/ /

to display information for all known API elements.

=head1 BUGS
If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 & & $] <= 5.009005 };

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w\.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*\*/';
my $cce = '\*/\*\';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();

    if ($@ and grep /^-/, @ARGV) {
        usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
        die "Getopt::Long not found. Please don't use any options.\n";
    }

    ...
}
if ($opt{version}) {
    print "This is $0 $VERSION\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^|]*)\$/
    ? ( $1 => {[$2 ? ( base => $2 ) : ()], [$3 ? ( todo => $3 ) : ()],
               (index($4, '\V') >= 0 ? ( varargs => 1 ) : ()),
               (index($4, '\P') >= 0 ? ( provided => 1 ) : ()),
               (index($4, '\N') >= 0 ? ( nothxarg => 1 ) : ())}
    : die "invalid spec: $_" } qw(AvFILLp5.004050||p
AvFILL||
CLASS|||n
CPERLscope5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV5.0060000||p
CopFILEGV_set5.0060000||p
CopFILEGV5.0060000||p
CopFILESV5.0060000||p
CopFILE_set5.0060000||p
CopFILE5.0060000||p
CopSTASHPV_set5.0060000||p
CopSTASHPV5.0060000||p
CopSTASH_eq5.0060000||p
CopSTASH_set5.0060000||p)
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE||
LVRET||
MARK||
MULTICALL|5.011000|
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav||
Nullch||
Nullcv||
Nullhv||
Nullsv||
ORIGMARK||
PAD_BASE_SV||
PAD_CLONE_VARS||
PAD_COMPNAME_FLAGS||
PAD_COMPNAME_GEN_set||
PAD_COMPNAME_GEN||
PAD_COMPNAME_OURSTASH||
PAD_COMPNAME_PV||
PAD_COMPNAME_TYPE||
PAD_DUP||
PAD_RESTORE_LOCAL||
PAD_SAVE_LOCAL||
PAD_SAVE_SETNULLPAD||
PAD_SETSV||
PAD_SET_CUR_NOSAVE||
PAD_SET_CUR||
PAD_SV||
PAD_SV
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PERLIO_FUNCS_DECL[5.009003]
PERL_ABS[5.008001]
PERL_BCDVERSION[5.011000]
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PERL_INT_MAX[5.004000]
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PERL_LONG_MAX[5.004000]
PERL_LONG_MIN[5.004000]
PERL_MAGIC_arylen[5.007002]
PERL_MAGIC_backref[5.007002]
PERL_MAGIC_bm[5.007002]
PERL_MAGIC_collxfrm[5.007002]
PERL_MAGIC_dbfile[5.007002]
PERL_MAGIC_dbline[5.007002]
PERL_MAGIC_defelem[5.007002]
PERL_MAGIC_envelem[5.007002]
PERL_MAGIC_env[5.007002]
PERL_MAGIC_ext[5.007002]
PERL_MAGIC_fm[5.007002]
PERL_MAGIC_glob[5.011000]
PERL_MAGIC_isaelem[5.007002]
PERL_MAGIC_isa[5.007002]
PERL_MAGIC_mutex[5.011000]
PERL_MAGIC_nkeys[5.007002]
PERL_MAGIC_overload_elem[5.007002]
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PERL_MAGIC_overload[5.007002]
PERL_MAGIC_pos[5.007002]
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PERL_MAGIC_regdatum[5.007002]
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PERL_MAGIC_tiedelem[5.007002]
PERL_MAGIC_tiedscalar[5.007002]
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PERL_MAGIC utmost[5.008001]
PERL_MAGIC_uvar_elem[5.007003]
PERL_MAGIC_uvar[5.007002]
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
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SvIOK||
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SvIV_nomg|5.009001||p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
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SvLEN||
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SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
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SvNOKp||
SvNOK||
SvNVX||
SvNV_set||
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SvNV||
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SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const | 5.009003 || p
SvPV_flags_mutable | 5.009003 || p
SvPV_flags | 5.007002 || p
SvPV_force_flags_mutable | 5.009003 || p
SvPV_force_flags_nolen | 5.009003 || p
SvPV_force_flags | 5.007002 || p
SvPV_force_mutable | 5.009003 || p
SvPV_force_nolen | 5.009003 || p
SvPV_force_nomg_nolen | 5.009003 || p
SvPV_force_nomg | 5.007002 || p
SvPV_force | || p
SvPV_mutable | 5.009003 || p
SvPV_nolen_const | 5.009003 || p
SvPV_nolen | 5.006000 || p
SvPV_nomg_const_nolen | 5.009003 || p
SvPV_nomg_const | 5.009003 || p
SvPV_nomg | 5.007002 || p
SvPV_renew | 5.009003 || p
SvPV_set ||
SvPVbyte_force | 5.009002 ||
SvPVbyte_nolen | 5.006000 ||
SvPVbytex_force | 5.006000 ||
SvPVbytex | 5.006000 ||
SvPVbyte | 5.006000 || p
SvPVutf8_force | 5.006000 ||
SvPVutf8_nolen | 5.006000 ||
SvPVutf8x_force | 5.006000 ||
SvPVutf8x | 5.006000 ||
SvPVutf8 | 5.006000 ||
SvPVx ||
SvPV ||
SvREFCNT_dec ||
SvREFCNT_inc_NN | 5.009004 || p
SvREFCNT_inc_simple_NN | 5.009004 || p
SvREFCNT_inc_simple_void_NN | 5.009004 || p
SvREFCNT_inc_simple_void | 5.009004 || p
SvREFCNT_inc_simple | 5.009004 || p
SvREFCNT_inc_void_NN | 5.009004 || p
SvREFCNT_inc_void | 5.009004 || p
SvREFCNT_inc | || p
SvREFCNT ||
SvROK_off ||
SvROK_on ||
SvROK ||
SvRV_set | 5.009003 || p
SvRV ||
SvRXOK | 5.009005 ||
SvRX | 5.009005 ||
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
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WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
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WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
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WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPEND|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
WARN_VOID|5.006000||p
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XPUSHs||
XPUSHu|5.004000||p
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call_sv | 5.006000 | p
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check_uni ||
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\[5.004000\]
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do_tell

do_trans_complex_utf8

do_trans_complex

do_trans_count_utf8

do_trans_count

do_trans_simple_utf8

do_trans_simple

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dofile

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doref\[5.009003\]
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free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av
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get_debug_opts
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get_hv
get_isa_hash
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
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get_ppaddr
get_re_arg
get_sv
get_vtbl
getcwd_sv
getenv_len
glob_2number
glob_assign_glob
glob_assign_ref
gp_dup
gp_free
gp_ref
grok_bin
grok_hex
grok_number
grok_numeric_radix
grok_oct
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_SVadd
gv_autoload
gv_check
gv_const_sv
gv_dump
gv_efullname3
gv_efullname4
mPUSHs[5.011000]|p
mPUSHu[5.009002]|p
mXPUSHi[5.009002]|p
mXPUSHn[5.009002]|p
mXPUSHp[5.009002]|p
mXPUSHs[5.011000]|p
mXPUSHu[5.009002]|p
mad_free|||
madlex|||
madparse|||
magic_clear_all_env|||
magic_clearenv|||
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magic_existspack|||
magic_freearylen_pl|||
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magic_getarylen|||
magic_getdefelem|||
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magic_getpack|||
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magic_getstr|||
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magic_getuvar|||
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magic_set_all_env|||
magic_setamagic|||
magic_setarylen|||
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magic_setdbline|||
magic_setdefelem|||
magic_setenv|||
magic_sethint|||
magic_setisa||
magic_setmglob||
magic_setnkeys||
magic_setpack||
magic_setpos||
magic_setregexexp||
magic_setsig||
magic_setsubstr||
magic_settaintosh||
magic_setutf8||
magic_setuvar||
magic_setvec||
magic_set||
magic_sizepack||
magic_wipepack||
make_matcher||
make_trie_failtable||
make_trie||
malloc_good_size||n
malloced_size||n
malloc[5.007002]n
markstack_grow||
matcher_matches_sv||
measure_struct||
memEQ[5.004000][p
memNE[5.004000][p
mem_collxfrm||
mem_log_common||n
mess_alloc||
mess_nocontext||vn
mess[5.006000]v
method_common||
mfree[5.007002]n
mg_clear||
mg_copy||
mg_dup||
mg_find||
mg_free||
mg_get||
mg_length[5.005000|
mg_localize||
mg_magical||
mg_set||
mg_size[5.005000|
mini_mktime[5.007002|
missingterm||
mode_from_discipline||
modkids||
mod
more_bodies
more_sv
moreswitches
mro_get_from_name
mro_get_linear_isa_dfs
mro_get_linear_isa
mro_get_private_data
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in
mro_register
mro_set_mro
mro_set_private_data
mul128
mulexp10
my_atof2
my_atof
my_atos
my_bcopy
my_betoh16
my_betoh32
my_betoh64
my_betohi
my_betohl
my_betohs
my_bzero
my_chsize
my_clearenv
my_cxt_index
my_cxt_init
my_dirfd
my_exit_jump
my_exit
my_failure_exit
my_fflush_all
my_fork
my_htobe16
my_htobe32
my_htobe64
my_htobei
my_htobel
my_htobes
my_htole16
my_htole32
my_htole64
my_htolei
reg_named_buff_firstkey||5.009005|
reg_named_buff_iter||
reg_named_buff_nextkey||5.009005|
reg_named_buff_scalar||5.009005|
reg_named_buff||
reg_namedseq||
reg_node||
reg_numbered_buff_fetch||
reg_numbered_buff_length||
reg_numbered_buff_store||
reg_qr_package||
reg_recode||
reg_scan_name||
reg_skipcomment||
reg_temp_copy||
reganode||
regatom||
regbranch||
regclass_swash||5.009004|
regclass||
regcppop||
regcpppush||
regcurly||n
regdump_extflags||
regdump||5.005000|
regdupe_internal||
regexec_flags||5.005000|
regfree_internal||5.009005|
reghop3||n
reghop4||n
reghopmaybe3||n
reginclass||
reiginitcolors||5.006000|
reginsert||
regmatch||
regnext||5.005000|
regpiece||
regpposixcc||
regprop||
regrepeat||
regtail_study||
regtail||
regtry||
reguni||
regwhite||n
reg||
repeatcpy||
report_evil_fh||
report_uninit||
require_pv[5.006000]
require_tie_mod||
restore_magic||
 minions||
rsignal_restore||
rsignal_save||
rsignal_state[5.004000]
rsignal[5.004000]
run_body||
run_user_filter||
runops_debug[5.005000]
runops_standard[5.005000]
rpvv_dup||
rxres_free||
rxres_restore||
rxres_save||
safesyscalloc[5.006000]n
safesysfree[5.006000]n
safesysmalloc[5.006000]n
safesysrealloc[5.006000]n
same_dirent||
save_116[5.004000]
save_132||
save_18[5.006000]
save_adelete[5.011000]
save_aelem[5.004050]
save_alloc[5.006000]
save_aptr||
save_ary||
save_bool[5.008001]
save_clearsv||
save_delete||
save_destructor_x[5.006000]
save_destructor[5.006000]
save_freeop||
save_frepv||
save_freesv||
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash||
save_heck_flags||n
save_helem_flags[5.011000]
save_helem[5.004050]
save_hints||
save_hptr||
save_int|||
save_item||
save_iv||5.005000|
save_lines||
save_list||
save_long||
save_magic||
save_mortalizesv||5.007001|
save_nogv||
save_op||
save_padsv_and_mortalize||5.011000|
save_pptr||
save_pushi32ptr||
save_pushptr32ptr||
save_pushptrptr||
save_pushptr||5.011000|
save_re_context||5.006000|
save_scalar_at||
save_scalar||
save_set_svflags||5.009000|
save_shared_pvref||5.007003|
save_sp||
save_vptr||5.006000|
savepvn||
savepvsv||5.009003|
savepv||
savesharedpvn||5.009005|
savesharedpv||5.007003|
savestack_grow_cnt||5.008001|
savestack_grow||
savesvpv||5.009002|
sawparens||
scalar_mod_type||\n
scalarboolean||
scalarkids||
scalarseq||
scalarvoid||
scalar||
scan_bin||5.006000|
scan_commit||
scan_const||
scan_formline||
scan_heredoc||
scan_hex||
scan_ident||
scan_inputsymbol||
scan_num||5.007001|
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strNE|||str_to_version||5.006000||
strip_return||strnEQ||strnNE||
study_chunk||sub_crush_depth||
sublex_done||sublex_push||
sublex_start||sv_2bool||sv_2cv||sv_2io||
sv_2iuv_common||sv_2iuv_non_preserve||sv_2iv_flags||5.009001|
sv_2iv||sv_2mortal||sv_2num||sv_2nv|
sv_2pv_flags||5.007002||p
sv_2pv_nolen||5.006000|||p
sv_2pvbyte_nolen||5.006000||p
sv_2pvbyte||5.006000|||p
sv_2pvutf8_nolen||5.006000||
sv_2pvutf8||5.006000||
sv_2pv||sv_2uv_flags||5.009001|
sv_2uv||5.004000|||p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_cat_decode||5.008001|
sv_catpvf_mg||5.004050||p
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg||5.006000|5.004000|pv
sv_catpvf_nocontext||vn
sv_catpvf||5.004000||v
sv_catpvn_flags||5.007002|
sv_catpvn_mg||5.004050||p
sv_catpvn_nomg||5.007002||p
sv_catpvn||
sv_catpvs||5.009003||p
sv_catpv||
sv_catsv_flags||5.007002|
sv_catsv_mg||5.004050||p
sv_catsv_nomg||5.007002||p
sv_catsv
sv_catxmlpvn
sv_catxmlsv
sv_chop
sv_clean_all
sv_clean_objs
sv_clear
sv_cmp_locale
sv_cmp
sv_collxfrm
sv_compile_2op
sv_copypv
sv_dec
sv_derived_from
sv_destroyable
sv_does
sv_dump
sv_dup_inc_multiple
sv_dup
sv_eq
sv_exp_grow
sv_force_normal_flags
sv_force_normal
sv_free2
sv_free_arenas
sv_free
sv_gets
sv_grow
sv_incmp
sv_inc
sv_insert_flags
sv_insert
sv_isa
sv_isobject
sv_iv
sv_kill_backrefs
sv_len_utf8
sv_len
sv_magic_portable
sv_magicext
sv_magic
sv_mortalcopy
sv_ncmp
sv_newmortal
sv_newref
sv_nolocking
sv_nosharing
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n

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$define = [$1, $2] if m{^\s*#s*define\s+(\w+)\s+((\[\^\]\)*))?s+\((.*)\)$};

if ($function) {
    if (/^}$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, ""] if m{^DPPP\(\(my_(\w+)\)\)$};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+\((d+)\s+\(w+\)\s+s+\(s+\)$};
$replace{$2} = $1 if m{^\s*#s*define\s+(\w+)\s+(\w+)\s+\(w+\)\s+\(w+\)\s+\(s+\)$};
$replace{$2} = $1 if m{^\s*#s*define\s+(\w+)\s+(\w+)\s+\(\w+\)\s+\(\w+\)\s+\(s+\)$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace \(\(w+\)\s+\(w+\)\s+\(s+\)$};

if (m{^\s*$rccs\s+\(w+\s+(\w+\s+\w+\s+\w+)\s+\)\s+\(\w+\s+(\w+\s+\w+\s+\w+)\s+\)\s+\(s+\s+(\w+\s+\w+\s+\w+)\s+\)\s+\(s+\)$}) {
    my @deps = map { s/\s+//g; $_ } split /,/, $3;
    my $d;
    for $d (map { s/\s+//g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^#if\s+\!\!(\w+)\s+\(\w+\)?\(\w+\)?\(\w+\)$};

for (values %depends) {
    my %s;
    $s_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{‘api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{‘api-info’} =~ m!\^/(.*)/$! ? $1 : "^\Q$opt{‘api-info’}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "\n\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base.\n";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    print "Depends on: ", join(’,’, @depends{$f}), ",\n" if exists $depends{$f};
    print "\n$Hints{$f}" if exists $hints{$f};
    print "\nWARNING: \n$Warnings{$f}" if exists $warnings{$f};
    $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.."
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
    my @f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : "";
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";

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next;
}

info("Scanning $filename ... ");

my $c = do { local $/; <IN> }
; close IN;

my %file = ( orig => $c, changes => 0 );

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
    ( ^$HS*#\$HS*include[\^\r\n]+b(?:\:QSppport\:E[XSUB\.h]b[\^\r\n]*)
    | ^$HS*#\$HS*(:define|elif|if(?:def)?)b[\^\r\n]*)
    | (^$HS*[^\r\n]*)
    | ['^[^\r\n]*/
    | "[^"\ r\n]*\\.+"?
    | '\[^'\ r\n]*\\.+"
    | / / (?: \[^*]+ \*+(?:[^$ccs]*[^*]+ \*+)* \| /[^\r\n]* )
}{} ex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#\$HS*include[\^\r\n]+b\:QSppport\:E[\^\r\n]*$;

$func;

for $func ( keys %API ) {
my $match = $func;
$match .= "$revreplace{ $func }" if exists $revreplace{ $func };
if ($c =~ /Ab(:Perl\_)?($match)\b/) {
    $file{uses_replace}{ $1 }++ if exists $revreplace{ $func } & & $1 eq $revreplace{ $func };
    $file{uses_Perl}{ $func }++ if $c =~ /AbPerl\_\$func\b/;
    if ( exists $API{ $func }{ provided } ) {
        $file{uses}{ $func }++;
        if ( !exists $API{ $func }{ base } ) || $API{ $func }{ base } > $opt{ 'compat-version' } ) {
            $file{uses}{ $func }++;
            my @deps = rec_depend($func);
            if ( @deps ) {
                $file{uses_deps}{ $func } = \@deps;
                for ( @deps ) {
                    $file{uses}{ $_ } = 0 unless exists $file{uses}{ $_ };
                }
            }
            for ( $func, @deps ) {
                $file{needs}{ $_ } = 'static' if exists $need{ $_ };
            }
    }
}
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");

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my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if (SAPI{$func}{varargs}) {
        unless (SAPI{$func}{nothxarg}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*=*\(\s*?!aTHX_\?)\(\)[^\s)(]*)\}s{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_' }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bbPerl_$func\s*\(\s*aTHX_?\s*}{'$func'}g);  
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of replace{$func} ");
    $file{changes} += ($c =~ s{\b$func\s*}{'replace{$func}'}g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
        else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version(SAPI{$func}{todo}), ", even with 'ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@ ${global{needs}{$func}}] need $func, adding global request");
            }
            else {
                diag("Files [@ ${global{needs}{$func}}] need $func, adding global request");
            }
        }
    }
}
diag("File needs $func, adding static request");
}
$pp .= 
"#define NEED_\$func\$suffix"
;
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = 
"#define NEED_\$func\$suffix"
;
}$file{changes}++;
}

unless ($file{has_inc_ppport}) {
diag("Needs to include $ppport");
$pp = qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*$ppport\E)/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.*$s\E)/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include $ppport");
    }
    $file{changes} += ($c =~ s/^($HS*#$HS*include.*$ppport\E.*?)/$1$pp/m);
}
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");
if ($file{changes}) {
if (exists $opt{copy}) {
my $newfile = "$filename$opt{copy}";
if (-e $newfile) {
error("'$newfile' already exists, refusing to write copy of '$filename'");
}
else {
local *F;
if (open F, ">$newfile") {
info("Writing copy of '$filename' with changes to '$newfile'");
print F $c;
close F;
}
else {
error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
if (exists $opt{patch}) {
unless ($patch_opened) {
if (open PATCH, ">$opt{patch}") {
$patch_opened = 1;
}
else {
error("Cannot open '$opt{patch}' for writing: $!");
delete $opt{patch};
$opt{changes} = 1;
goto fallback;
}
}
mydiff(\*PATCH, $filename, $c);
}
else {
fallback:
info("Suggested changes:");
mydiff(\*STDOUT, $filename, $c);
}
}
else {
my $s = $file{changes} == 1 ? '' : 's';
info("$file{changes} potentially required change$s detected");
}

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} else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq ""
}

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
my($prog, $file, $str) = @_; 
my $tmp = 'dppptemp'; 
my $suf = 'aaa'; 
my $diff = ''; 
local *F; 
while (-e "$tmp.$suf") { $suf++ } 
$tmp = "$tmp.$suf";

if (open F, ">$tmp") { 
    print F $str; 
    close F; 

    if (open F, "$prog $file $tmp |") { 
        while (<F>) { 
            s/\Q$tmp\E/$file.patched/; 
            $diff .= $_; 
        } 
        close F; 
        unlink $tmp; 
        return $diff; 
    } 
    unlink $tmp; 
} 
else { 
    error("Cannot open '$tmp' for writing: $!"); 
} 
return undef; 
}

sub rec_depend 
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func}; 
    $seen = {%{$seen||{}}}; 
    return () if $seen->{$func}++; 
    my %s; 
grep !s{$._}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; 
}

sub parse_version 
{
    my $ver = shift; 

    if ($ver =~ /\^((d+)/(d+)/(d+)\$/) { 

}
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]*/)
  die "cannot parse version '$ver'
;}

$ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\(\d+\)\(\d\)\(\d\)/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6))
  if ($s % 10)
    die "cannot parse version '$ver'
;}

return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;

  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\(\d+\)\(\d\)\(\d\)/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6))
    if ($s % 10)
      die "invalid version '$ver'
;}

  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "._%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "***", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
        print "   --- hint for $func ---\n", $hint;
    }
    $rv;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*(.*?)(?=\s*$/ms;
    my %M = ( 'I' => '*' );

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$usage =~ s/^\s*perls+$/^X $0/;
$usage =~ s/[A-Z]<([^>]+)>/$M{$1}$/S$0{$1}/g;

print <<\ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <>);
    my($copy) = $self =~ /^=head[\d ]COPYRIGHT\s+(.*$[^=\w]+$)\s+=/ms;
    $copy =~ s/^(?=[^\s\w]+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP

    if (!@ARGV || $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort };
        \$@ and die "Cannot require Devel::PPPort, please install:\n";
        if (eval \$Devel::PPPort::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPort $VERSION:\n"
            . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION:\n"
            . "Please install a newer version, or --unstrip will not work:\n"
        } Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<\END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip

END

/end;
my($pl, $c) = $self =~ /(.*^__DATA__)\s*(.*)/ms;
$c =~ s{ |
    / (?:\|^\^[^\]\\]+\+:(?:\^[^\]\\]+\^\^[^\]\\]+\+)+ / | /[^\^\n]\^\^[^\]\\]+\+\+\+/ |
    /|^\^[^\]\\]+\+\+\+/ |
}{
threads - Perl interpreter-based threads

This document describes threads version 1.87
use threads ('yield',
'stack_size' => 64*4096,
'exit' => 'threads_only',
'stringify');

sub start_thread {
    my @args = @_;    
    print('Thread started: ', join(' ', @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my @Thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);
# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({
    'context'    => 'list',
    'stack_size' => 32*4096,
    'exit'       => 'thread_only',
    \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called I<interpreter threads> which provides a new Perl interpreter for each thread, and, by default, results in no data or state information being shared between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API. This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;
When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)
It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.
If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
# Do processing using threads
...
} else {
# Do it without using threads
...
}
=over
=item $thr = threads->create(FUNCTION, ARGS)
This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.
I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.

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# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
    return (@results);
});

# or (explicit)
my $thr1 = threads->create({ 'context' => 'list' },
    sub {
        my @results = qw(a b c);
        return (@results);
    });

# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});

# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({ 'void' => 1 },
    sub { print("Hello, world\n"); });

# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.
=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

use threads qw(stringify);

   my $thr = threads->create(...);
   print("Thread $thr started...");  # Prints out: Thread 1 started...

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)
=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

    if ($thr1 == $thr2) {
        print("Threads are the same
");
    }
    # or
    if ($thr1 != $thr2) {
        print("Threads differ
");
    }

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<private> method returns the memory location of the internal thread structure associated with a threads object. For Win32, this is a pointer to
the C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<thread_t> structure used in the C<pthread_create> call (i.e., C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to L<return()|perlfunc/"return EXPR"> from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling C<threads->exit()> . This will cause the thread to return C<undef> in a scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads->exit()> (i.e., the exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any C<$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<die()> call.

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> inside a thread causes the whole
application to terminate. Because of this, the use of \texttt{C<exit()}> inside thread code, or in modules that might be used in threaded applications, is strongly discouraged.

If \texttt{C<exit()>} really is needed, then consider using the following:

\begin{verbatim}
  threads->exit() if threads->can('exit');  # Thread friendly
  exit(status);
\end{verbatim}

\begin{verbatim}
=item use threads 'exit' => 'threads_only'
\end{verbatim}

This globally overrides the default behavior of calling \texttt{C<exit()>} inside a thread, and effectively causes such calls to behave the same as \texttt{C<threads-E<gt>exit()>}. In other words, with this setting, calling \texttt{C<exit()>} causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The \texttt{I<main>} thread is unaffected by this setting.

\begin{verbatim}
=item threads->create({'exit' => 'thread_only'}, ...)
\end{verbatim}

This overrides the default behavior of \texttt{C<exit()>} inside the newly created thread only.

\begin{verbatim}
=item $thr->set_thread_exit_only(boolean)
\end{verbatim}

This can be used to change the \texttt{I<exit thread only>} behavior for a thread after it has been created. With a \texttt{I<true>} argument, \texttt{C<exit()>} will cause only the thread to exit. With a \texttt{I<false>} argument, \texttt{C<exit()>} will terminate the application.

The \texttt{I<main>} thread is unaffected by this call.

\begin{verbatim}
=item threads->set_thread_exit_only(boolean)
\end{verbatim}

Class method for use inside a thread to change its own behavior for \texttt{C<exit()>}.

The \texttt{I<main>} thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the \texttt{I<state>} of a thread.
=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>:  list, scalar or void. The thread’s context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()>|perlfunc/"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<-E<gt>create()> with a hash reference as the first argument:

    my $thr = threads->create({'context' => 'list'}, \&foo);

    ...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list (array) context such that the parent thread can receive a list (array) from the C<-E<gt>join()> call. (C<array> is synonymous with C<list>).
Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

    my $thr = threads->create({'context' => 'void'}, \&foo);
    ...
    $thr->join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:

    threads->create({'scalar' => 1}, \&foo);
    ...
    my ($thr) = threads->list();
    my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the C<create()> call:

    # Create thread in list context
    my ($thr) = threads->create(...);

    # Create thread in scalar context
    my $thr = threads->create(...);

    # Create thread in void context
    threads->create(...);

=head2 $thr->wantarray()

This returns the thread's context in the same manner as L<wantarray()>.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()> inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.
By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>: 

PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e use threads; print(threads->get_stack_size(), "\n")

This value overrides any $stack_size parameter given to \texttt{use threads}. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads-&gt;create({'stack_size' =&gt; VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call \texttt{threads-&gt;create()} with a hash reference as the first argument:

my $thr = threads-&gt;create({'stack_size' =&gt; 32*4096}, \&foo, @args);

=item $thr2 = $thr1-&gt;create(FUNCTION, ARGS)

This creates a new thread ($thr2) that inherits the stack size from an existing thread ($thr1). This is shorthand for the following:

my $stack_size = $thr1-&gt;get_stack_size();
my $thr2 = threads-&gt;create({'stack_size' =&gt; $stack_size}, FUNCTION, ARGS);

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see \texttt{Unsafe signals} for more details), then signals may be sent and acted upon by individual threads.

=over 4

=item $thr-&gt;kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by \texttt{kill()|perlfunc/"kill SIGNAL, LIST"}. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to \texttt{kill()}.

Returns the thread object to allow for method chaining:

$thr-&gt;kill('SIG...')-&gt;join();

=back

Signal handlers need to be set up in the threads for the signals they are
expected to act upon. Here's an example for cancelling a thread:

```perl
use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); }; 

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();
```

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

```perl
use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
    }; 

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');
```
# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It emulates signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending `C<$thr-E<gt>kill('STOP')>` does not actually suspend a thread (or the whole process), but does cause a `C<$SIG{'STOP'}>` handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the `C<kill()>` command (e.g., `C<kill('KILL', $$)>`) are okay to use with the `C<E<gt>kill()>` method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is stuck on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS
=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using `C<no warnings 'threads';>` as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for `C<pthread_create>` to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using `C<threads-E<gt>exit()>`. For example, the thread may have terminated because of an error, or by using `C<die>`. 
Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

The specified $\text{SIZE}$ exceeds the system's maximum stack size. Use a smaller value for the stack size.

If needed, thread warnings can be suppressed by using:

```
no warnings 'threads';
```

in the appropriate scope.

=header1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the `useithreads` configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the `threads` module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

```
$thr->set_stack_size($size);
```

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the `kill` signalling method. See `Unsafe signals` for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the
specified signal being used in a C\texttt{kill()} call.

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=item Thread-safe modules

See L\texttt{perlmod/Making your module threadsafe} when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I\texttt{thread-safe}. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C\texttt{require} (and C\texttt{import} if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I\texttt{main} thread, try modifying your application so that the module is loaded (again using C\texttt{require} and C\texttt{import}) after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L\texttt{http://rt.cpan.org/Public/} against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads
can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues|Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using C<chdir()> ) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using C<system()> or back-ticks) made from threads use the environment variable settings from the L<main> thread. In other words, changes made to C<%ENV> in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

```perl
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
```

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L</"THREAD SIGNALLING"> as documented above will not accomplish what is intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

```perl
# Create thread with a task that may time out
my $thr->create(sub {
    threads->yield();
    eval {
```
$SIG{ALRM} = sub { die("Timeout\n"); }; alarm(10); ... # Do work here alarm(0); }; if ($@ =~ /Timeout/) { warn("Task in thread timed out\n"); };

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') }; ...

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<Perl_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and
the C<-E<gt>kill()> signalling method cannot be used.

=item Returning closures from threads

Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Returning objects from threads

Returning objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/"require VERSION"> or L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e.,
F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

L<threads> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>

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=head1 ACKNOWLEDGEMENTS
Richard Soderberg &lt;perl AT crystalflame DOT net&gt; -
Helping me out tons, trying to find reasons for races and other weird bugs!

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Being there to answer zillions of annoying questions

Rocco Caputo E&lt;lt&gt;troc AT netrus DOT net&lt;/gt&gt;

Vipul Ved Prakash E&lt;lt&gt;mail AT vipul DOT net&lt;/gt&gt; -
Helping with debugging

Dean Arnold E&lt;lt&gt;darnold AT presicient DOT com&lt;/gt&gt; -
Stack size API

cut

Found in path(s):
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-
SDF Amy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/lib/threads.pm

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1.2206.1 Available under license :
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1.2208 adduser 3.116ubuntu1

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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1.2218 vertx-web-common 3.9.4

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1.2219 libsecret 0.18.6-1.el7

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From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be
optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code,
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   a) Accompany the work with the complete corresponding machine-readable
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPFPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SOSONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed "s/\(.*\)\(.*\)\.o \[ :\]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "s/\(.*\)\(.*\)\.o \[ :\]*/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.2229 e2fsprogs 1.42.9-19.el7

1.2229.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
```bash
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; id -l|sharable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) $(pic)/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)/$(BSD_LIB)\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/#
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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XSLT-driven View that allows for response context to be rendered as the result of an XSLT transformation.

The XSLT Source object is supplied as a parameter in the model and then detected during response rendering. Users can either specify a specific entry in the model via the sourceKey property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See here for more details.

All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure output properties to be passed to the Transformer.

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1.2241 weld-servlet-core 2.4.8.Final

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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